~~CLOSED~~ FILE

OPEN

BP AUSTRALIA GOLD PTY LIMITED
EL6185 WATTS AND EL6186 MASSON
ANNUAL REPORT FOR THE PERIOD ENDING
23 OCTOBER 1989

M D WALKER
OCTOBER 1989

C O N T E N T S

		PAGE NO
1.0	INTRODUCTION	1
2.0	TENEMENT STATUS	1
3.0	TARGET CONCEPT	1
4.0	REGIONAL AND TENEMENT GEOLOGY	2
5.0	PREVIOUS EXPLORATION	4
6.0	WORK CARRIED OUT BY BP	4
7.0	RESULTS	6
	7.1 Watts	6
	7.2 Masson	7
8.0	DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS	7
9.0	EXPENDITURE	8

LIST OF APPENDICES

Appendix 1 Geochemical Results, Watts, EL6185

Appendix 2 Geochemical Results, Masson, EL6186

LIST OF TABLES

Table 1 Summary Tenement Data

Table 2 Early Proterozoic Stratigraphy of the Adelaide River-Pine Creek Area

LIST OF FIGURES

		SCALE	MEL NO
Fig 1	Pine Creek Inlier Geology and Tenements	1:2000,000	3030
Fig 2	Location and Mineral Prospects	1:250,000	3613
Fig 3	EL6185, Watts, Geology	1:50,000	3114
Fig 4	EL6186, Masson, Geology	1:50,000	3115
Fig 5	EL6185, Watts, Sample Locations and Gold Results	1:10,000	3158
Fig 6	EL6186, Masson, Sample Locations and Gold Results	1:10,000	3182

1.0 INTRODUCTION

Exploration licences EL6185 and EL6186 located approximately 140km SE of Darwin, fall within the McKinlay River 1:100,000 map sheet area (Figure 1). The geology of the licence areas includes lithologies which host significant gold mineralisation within the Adelaide River - Pine Creek area of the Lower Proterozoic Pine Creek Geosyncline.

Numerous mines, prospects and workings occur in close proximity to the licence areas. Figure 2 shows the distribution of tin, gold, iron-manganese, copper, lead and zinc mineralisation in the areas immediate to the BP tenements. Brief documentation of these prospects is provided in the BMR a:100,000 Geological Map Commentary for the McKinlay River Sheet.

This report details the work undertaken during the 12 month period ending 23 October 1989.

2.0 TENEMENT STATUS

Exploration Licences 6185 and 6186 were granted to BP Australia Gold Pty Ltd on October 24, 1988, each for a five year period and with a year one expenditure commitment of $50,000. By October 1990 a 50% land reduction will be required in accordance with the Mining Act. Table 1 summarises the data on each tenement.

3.0 TARGET CONCEPT

Gold deposits are being sought which are hosted in Lower Proterozoic sediments and located in quartz vein systems or disseminated in sediments adjacent to major faults or along anticlinal axes.

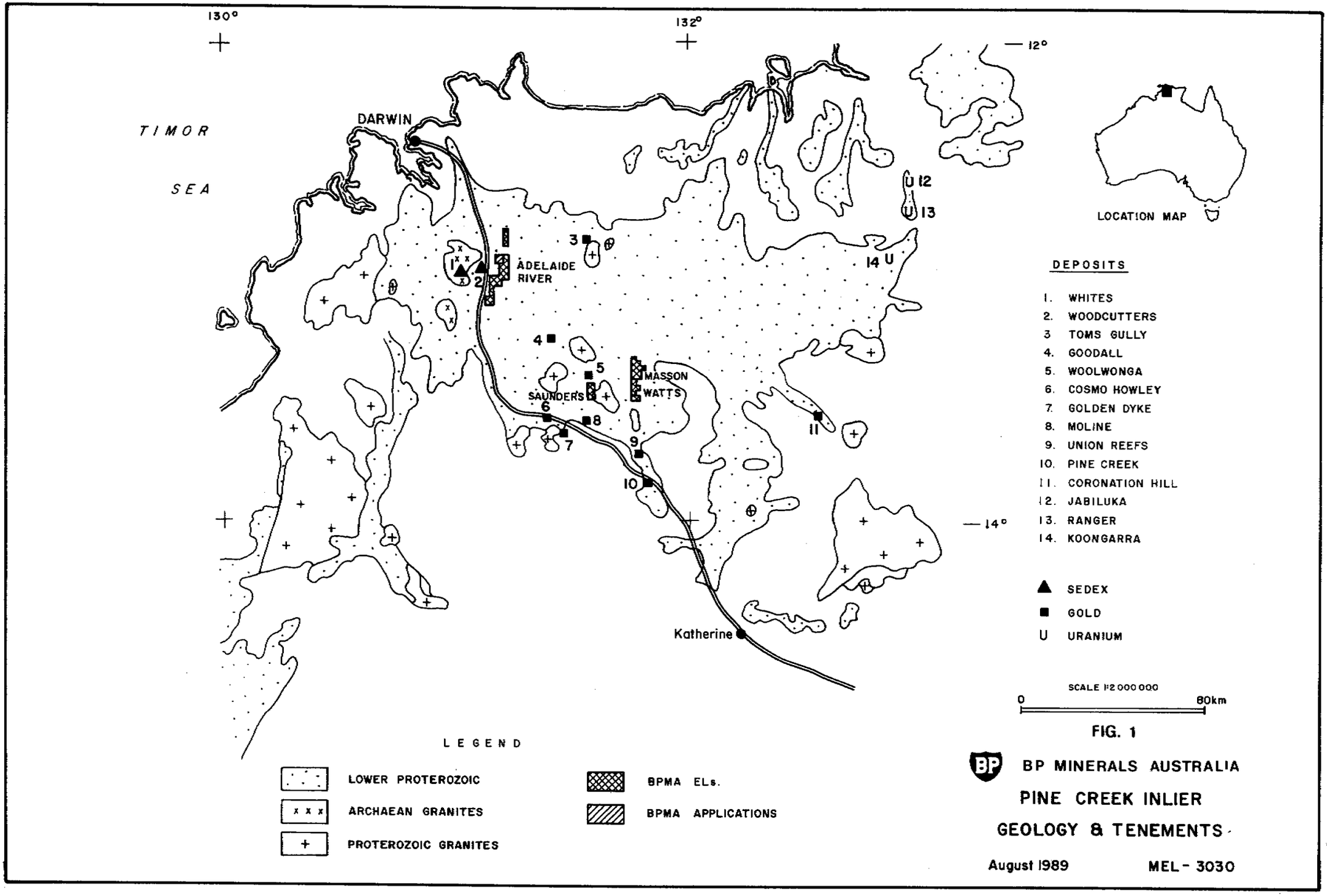


FIG. 1

BP MINERALS AUSTRALIA

PINE CREEK INLIER

GEOLOGY & TENEMENTS

August 1989 MEL - 3030

TABLE 1

SUMMARY TENEMENT DATA

EL 6185, EL 6186

NAME	EL NUMBER	GRANTED DATE	NO. SUB-BLOCK	AREA (KM^2)	PERIOD (YRS)	YEAR 1 EXPENDITURE ($)
Watts	6185	24.10.88	9	30	5	$50,000
Masson	6186	24.10.88	10	32	5	$50,000

4.0 REGIONAL AND TENEMENT GEOLOGY

The licences lie close to the centre of the Pine Creek Geosyncline (Fig 1). The geosynclinal sequence of Early Proterozoic metasedimentary and metavolcanic rocks (Table 2) overlays a gneissic and granitic Archean basement which is exposed to the west and northeast of, but not within, the McKinlay River area.

The formations exposed within the licences are predominantly those of the South Alligator Group and the upper Mt Partridge Group. Pre-tectonic Zamu Dolerite sills, intruded into the metasediments, are also exposed.

Between 1800 Ma and 1870 Ma the Pine Creek Geosyncline sequence underwent a major period of deformation. This resulted in tight to isoclinal, non-cylindrical folding, extensive faulting and metamorphism (mostly to greenschist facies).

Post-tectonic granitic intrusions were emplaced in the period 1610my to 1590my and many of these bodies generated extensive contact metamorphic aureoles. Several gold deposits lie within metamorphic aureoles.

Recent studies emphasise the gold prospectivity of areas possessing one or more of the following features; proximity to regionally significant shear zones (e.g. Pine Creek shear zone), proximity to granitic metamorphic

131°30'

132°00'

13°00'

13°30'

Cu

Ag, Pb

Au North Ringwood

Au

Ringwood

Au South Ringwood

McKinlay River

Mary River

Sn

Pb, Zn

Sn Mt. Harris

Margret Pb, Zn, Cu

MT. WELLS EL 4944

Gubb Erah Gossan

Pb Sn Jessops

Billycon

Mt. Masson

Big Drum

Sn Big Julie

Pb, Zn Minglo 2

EL 6186 MASSON

Sn Mt. George

Cu, Bi Mt. Ellison

Sn

Olive

Au McKinlay

Sn Rosemary

Lewis

Au Woolwonga

Sn Glenys

Big Hill

Fe,Mo Bowerbird

Millers

Sn Mavis

WATTS EL 6185

Au McKeddies

Au

Fountain Head Au

SAUNDERS EL 6187

Maria Cu

Sn

Sn

Yam Creek Au

Sn Homers Ck.

Saddle Extended

Fe-Mn

Au

SCALE 1:250000

0 5 10 km

Mine

Disused Mine

Abandoned Prospect

Alluvial Working

Abandoned Alluvial Working

Abandoned Battery

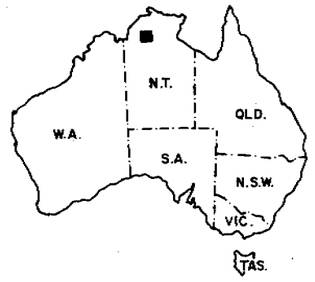


FIG. 2

BP MINERALS AUSTRALIA
EXPLORATION DIVISION

EL 6185 WATTS, EL 6186 MASSON, EL 6187 SAUNDERS & EL 4944 MT. WELLS

LOCATIONS AND MINE DISTRIBUTION

LOCATED ON		PINE CREEK	1:250 000 SHEET	
COMPILED	J. M.	March 1989	LAST REVISION	
DRAWN	J. C. L.	April 1989	ORIGINAL HELD	CAIRNS
CHECKED			DRAWING NO.	MEL-3613

aureoles, presence of major anticlinal fold axes, significant quartz veining, presence as potential host rocks, of Wildman Siltstone, Koolpin Formation or Mt Bonnie Formation.

TABLE 2

EARLY PROTEROZOIC STRATIGRAPHY OF THE ADELAIDE RIVER - PINE CREEK AREA

GROUP	FORMATION	MEMBER	LITHOLOGIES	THICKNESS (metres)
Finniss River	Burrell Creek		Greywacke, siltstone, mudstone, rare chert, iron formation and conglomerate	>3000
South Alligator	Mount Bonnie	Upper	Mudstone, siltstone chert, iron formation	10-250
		Lower	Greywacke, mudstone, siltstone, chert, carbonaceous mudstone, rare conglomerate	50-150
	Gerowie Tuff		Chert, mudstone, siltstone	200-400
	Koolpin	Upper	Carbonaceous mudstone,	50-150
		Middle	Iron formation, mudstone carbonaceous mudstone, siltstone	30-100
		Lower	Carbonaceous mudstone, mudstone, siltstone, limestone	0-250
Mount Partridge	Wildman Siltstone		Mudstone, phyllite, siltstone, carbonaceous mudstone, sandstone	200-400
	Mudogie Sandstone		Quartzite, arkose, pebble conglomerate, mudstone, siltstone	>500

(Nicholson and Eupene, 1984)

The geology of each tenement is shown at 1:50,000 scale in Figs 3 and 4, taken from the McKinley River 100,000 sheet and compared with the 1:25,000 compilation sheets published by the BMR.

EL 1685, Watts, contains outcrops of Koolpin Formation, and Mt Bonnie Formation and these, along with Gerowie Tuff, are included in several NW trending anticlines. The western half of the tenement is largely underlain by Quarternary deposits and is relatively flat and low-lying; this contrasts with the locally step and rugged outcrops of the Proterozoic sediments in the SW of the tenement.

Approximately 50% of the Masson tenement is underlain by Quaternary or Tertiary sediments. Wildman Formation, Koolpin Formation, Gerowie Tuff and Mt Bonnie Formation are all represented within the strongly folded sequence. A strand of the Francis Creek Fault passes through the eastern half of the tenement. A NNW trending anticline is definable in the NW of the licence and this is truncated to the south by an E-W striking fault highlighted by a 600m by 100m quartz blow. Hardies Prospect, a small gold show, is located just NW of the NW corner of the tenement.

5.0 **PREVIOUS EXPLORATION**

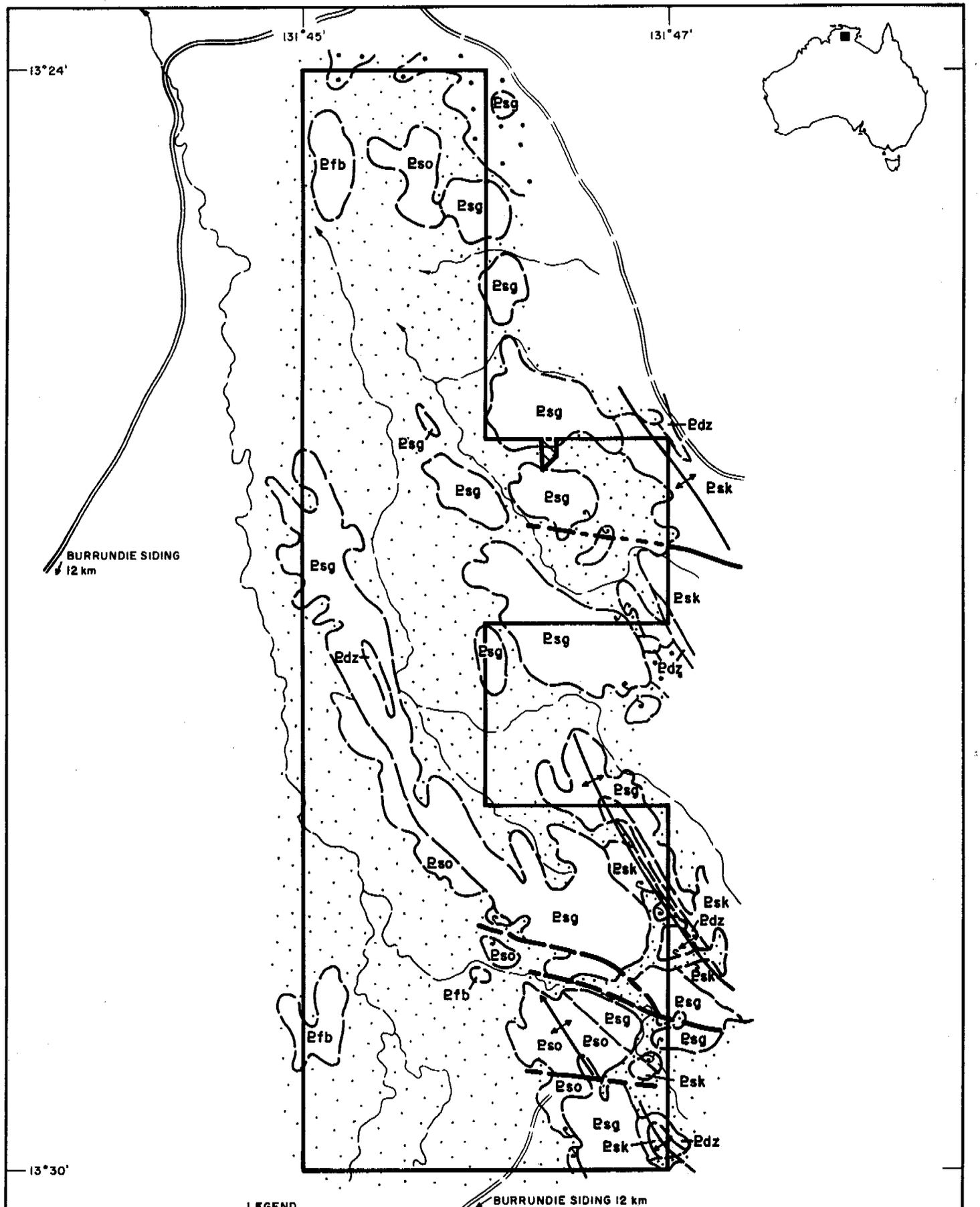
ELs 6185 and 6186 fall within the now defunct Mt Wells Policy Reserve and documentation of the limited exploration activity is poor.

6.0 **WORK CARRIED OUT BY BP**

The principal elements of BP Gold's work programme can be summarised as follows:

- literature research including assessment of Landsat regional geological data and aerial photography

- completion of a detailed Bleg and stream silt drainage survey



LEGEND

- QUATERNARY ALLUVIUM
- TERTIARY SEDIMENTS
- Pdz — ZAMU DOLERITE
- Pfb — BURRELL CREEK FM.
- Pso — MT BONNIE FM.
- Psg — GEROWIE TUFF
- Psk — KOOLPIN FM.
- GEOLOGICAL BOUNDARY
- FAULT
- ANTICLINE & PLUNGE DIRECTION
- SYNCLINE

SCALE 1:50000 (0 — 2 km)

FIG. 3

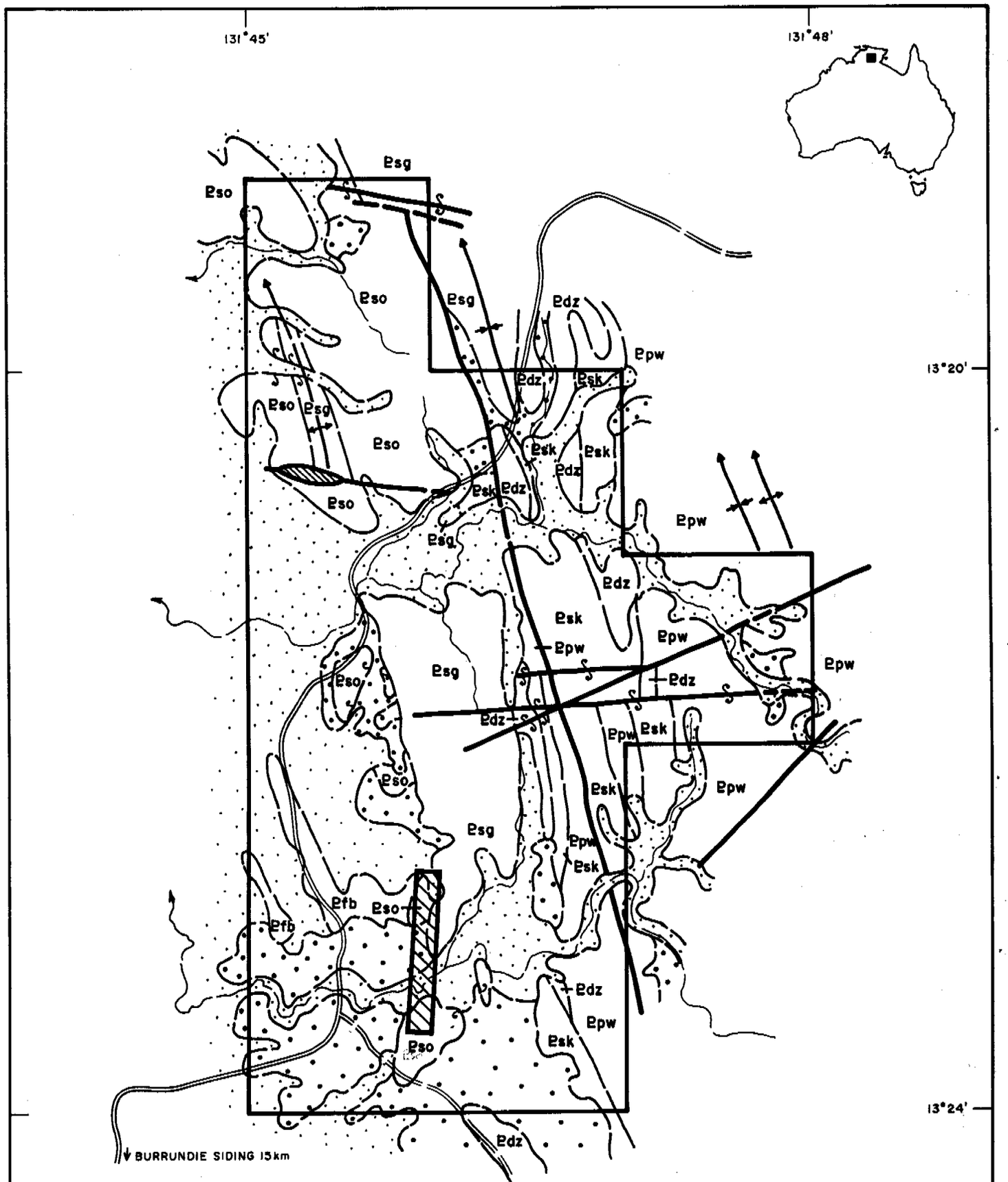
BP MINERALS AUSTRALIA

EL 6185 - WATTS

GEOLOGY

APRIL 1989 MEL-3114

EP 512



LEGEND

	QUATERNARY ALLUVIUM		GEOLOGICAL BOUNDARY
	TERTIARY SEDIMENTS		FAULT WITH CRUSH ZONE
Pdz	ZAMU DOLERITE		ANTICLINE
Pfb	BURRELL CREEK FM.		SYNCLINE WITH PLUNGE DIRECTION
Pso	MT BONNIE FM		
Psg	GEROWIE TUFF		
Psk	KOOLPIN FM.		
Ppw	WILDMAN FM.		

SCALE 1:50000

0 2km

FIG. 4

BP MINERALS AUSTRALIA

EL 6186 - MASSON

GEOLOGY

APRIL 1989 MEL-3115

EP3k2

- follow-up of drainage survey anomalies using rock chip sampling, soil sampling and reconnaissance geological mapping and prospecting

- report writing and assessment of results.

Many delays and additional costs were incurred because of adverse field conditions related to the wet season extending to the end of April 1989.

Bleg and stream silt samples were collected in the following manner:

- 5kg of -2mm material was collected. Material was taken from numerous points across the width of the creek and for 20-30m along the length of the creek

- a minus 80 mesh fraction was sieved from the 5kg -2mm sample.

Analyses were performed as follows by Comlabs, Darwin:

- Bleg samples were subjected to a 24hr static leach in a ph controlled dilute NaCN solution. Au was determined by an AAS carbon furnace technique and the concentration in the original sample calculated by weight ratios. Detection limit is 0.05ppb.

- As, Fe and Pb were analysed in stream silts; As (D.L. 20ppm) and Fe were analysed by XRF and Pb by standard AAS techniques.

Soil samples were analysed for Au (50g charge) by AAS using a carbon furnace finish to give a detection limit of 1ppb. As (D.L. 10ppm) and Fe were determined by XRF. One kg of -5mm of 'C' horizon material was collected from a depth typically between 10cm and 25cm below surface. The sample was reduced to minus 38 micron in a mixermill. Sample preparation for rock samples was similar to that used for the soil samples.

7.0 **RESULTS**

7.1 EL6185 Watts

All sample locations and analytical results for Au and selected other elements are plotted on Fig 5. Analytical results for all elements are presented in Appendix 1.

Five Bleg sites returned greater than 3ppb Au; two of these sites in the mid-east of the licence have Koolpin Formation cropping out extensively in the headwaters of the creek, but these outcrops lie outside the tenement boundary; three sites cluster around the southern end of the tenement in a zone dominantly underlain by Gerowie Tuff with subordinate Mt Bonnie Formation and Koolpin Formation.

The mid-east zone defined by samples L21723 and L21729 was followed up with limited rock chipping and foot prospecting along the N-S trending ridge located in the headwaters of the creeks, and by prospecting along the broad flat valley of the creeks. Rock chips returned below detection limit gold (<0.01ppm) and prospecting observations showed the headwaters ridge to comprise siliceous argillites and locally iron-rich sediments of Koolpin Formation, intruded by a thick (50m) Zamu Dolerite body. No quartz veining or structural complexity was observed to indicate the presence of a gold mineralised zone.

Initial rock chip sample follow-up of the southern zone returned encouraging values of 1.6ppm Au (L21559) and 0.34ppm Au (L21560) from small outcrops of siliceous pyritic-arsenopyritic sediments dipping steeply NE. A 200m by 20m zone located west of the anomalous rock chips contains several parallel quartz veins each up to 50cm thick. The anomalous rock chip zone and the quartz vein zone both strike SSE into EL5551 held by Geological and Management Services; the major potential in the area appears to lie south of EL6185.

Gold values in the follow-up soil samples reach a maximum of 37ppb within BP ground while the highest recorded value of 88ppb is from the ridge crest along strike from the anomalous rock chip values and outside of EL6185.

Prospecting observation did not discover any mineralised zones worthy of additional work.

7.2 EL 6186 Masson

Sample locations and gold results are shown on Fig 6 and all analytical results are presented in Appendix 2.

The maximum Au value obtained from the 47 Bleg samples was 1.93ppb. However, rock chip samples were collected and brief foot traverses completed across the higher value drainages. All but one rock chip returned less than 0.01ppm Au, including a sample from the prominent quartz blow in the NW of the tenement. Sample L21084 returned 0.12ppm Au. No additional work was considered warranted.

8.0 **DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS**

The best result obtained from EL6185, Watts, is 1.6ppm Au from a rock chip. The mineralisation in this area is associated with several narrow quartz veins which probably reflect a small fault zone. The mineralisation appears to trend southwards from the southern boundary of EL6185 into EL5551 and to decrease in importance northwards as it cuts through EL6185. There is an absence of significant gold values in soils and rock chips taken more than 50m north of the southern boundary of EL6185. The mid-eastern Bleg anomalies are interpreted as reflecting enhanced background gold values in Koolpin Formation cropping out on competitor ground immediately east of EL6185. There could be gold mineralised rock buried beneath the broad flat valleys of the two anomalous drainages, but the probability of this is low.

Bleg sampling in EL6186, Masson, returned no gold values above 2ppb. Speculative follow-up of the higher Bleg gold values did not locate any evidence of gold mineralisation. The absence of gold mineralisation is consistent with the absence of profound regional structures.

9.0 **EXPENDITURE**

Expenditure on ELs 6185 and 6186 for the 12 month period ending 23 October 1989 is summarised as follows:

	EL 6185	**EL 6186**
Salaries	21,527	22,704
Logistics	13,295	12,570
Services	4,675	4,315
Tenement Costs	937	946
Depreciation	3,943	4,054
Administration	5,915	6,080
	50,292	50,669

APPENDIX 1

GEOCHEMICAL RESULTS, WATTS EL 6185

STREAM SEDIMENT SAMPLES

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51·3	Wayts E.L. 6185	Regional	470

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Mt Masson 1:50,000	5271-2	A.M.G.	SSS		R.D.	1/6/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

DETAILS OF ANALYSIS REQUIRED

ANALYSIS: BLEG 2

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE	TUBE No.	PPB ELEMENT AU				
1	L21723	85 13200	800500			4·19				
2	25	85 13200	800500			3·05				Duplicate as for L21723
3	27	BLANK				1·20				BLANK
4	29	85 13000	800500			3·18				
5	31	85 12500	799750			0·83				
6	33	85 12200	800200			0·97				
7	35	85 11800	800300			1·26				
8	37	85 11700	799500			1·09				
9	39	85 12300	799500			1·61				
10	41	85 10500	795900			1·31				
11	43	85 10600	794100			1·79				
12	45	85 10000	799200			1·67				
13	47	85 09500	800200			1·18				
14	49	85 09400	799900			0·62				
15	51	85 08400	799800			0·50				
16	53	85 08100	800200			0·53				
17	55	85 07700	800300			1·11				
18										
19										
20										

METHOD			
ANALYST			
DATE			

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219947

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

PROJECT: STATE: NT | PROJECT CODE: E P 51.3 | PROJECT: Wayys E.L 6185 | PROSPECT: Regional | COST CODE: 470

SAMPLE LOCATION: NATMAP 1 : 250 000 SHEET NO.: Mt Musson 1:50,000 | PHOTOGRAPHY/TRAVERSE: 5271-2 | GRID: A.M.G. | SAMPLE TYPE: SSS | REPLICATE CODE | SAMPLED BY: R.D. | DATE: 1/6/89

DRILLHOLE DATA: HOLE I.D. | COLLAR N | COLLAR E | AZIMUTH | DIP | COLLAR R.L.

ANALYSIS: DETAILS OF ANALYSIS REQUIRED: - 80 # Fe, As, Pb

	SAMPLE NO.	DEPTH FROM — OR — NORTHING	DEPTH TO — OR — EASTING	GEOCODE	TUBE No.		ELEMENT As	ELEMENT Fe	ELEMENT Pb	
1	L21724	85 13700	800500				<20	4.94	18	
2	26	85 13200	800500				<20	4.62	20	Duplicate as for L21724
3	28	BLANK	BLANK				20	3.34	12	BLANK
4	30	85 13000	800500				<20	5.05	20	
5	32	85 12 800	799750				<20	3.00	16	
6	34	85 12 700	800200				20	1.93	16	
7	36	85 11 500	800300				20	3.30	24	
8	38	85 11 700	799500				<20	1.54	8	
9	40	85 12 300	799500				<20	2.68	14	
10	42	85 10500	798400				<20	1.83	16	
11	44	85 10 600	799100				<20	2.72	18	
12	46	85 10000	799200				<20	2.82	16	
13	48	85 09500	800200				<20	2.00	32	
14	50	85 09 400	799 800				<20	1-36	20	
15	52	85 08 400	799800				<20	0.96	4	
16	54	85 08 100	800200				<20	1.45	10	
17	56	85 07 700	800300				<20	2.36	40	
18										
19										
20										

METHOD

ANALYST

DATE

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219948

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

PROJECT: STATE NT | PROJECT CODE EP 51.3 | PROJECT Watts E.L. 6185 | PROSPECT Regional | COST CODE 470

SAMPLE LOCATION: NATMAP 1 : 250 000 SHEET NO. PINE CREEK | PHOTOGRAPHY/TRAVERSE SD 52-8 | GRID AMG | SAMPLE TYPE SSS | REPLICATE CODE | SAMPLED BY R.D. | DATE 26/6/89

DRILLHOLE DATA: HOLE I.D. | COLLAR N | COLLAR E | AZIMUTH | DIP | COLLAR R.L.

ANALYSIS: DETAILS OF ANALYSIS REQUIRED: BLEG

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE	ELEMENT: TUBE No.	ppb Au.				
1	L21757	8507750	800350			0.67				
2	59	8507750	800700			0.51				
3	61	8507750	800700			1.22				DUPLICATE of L21761
4	63	BLANK	BLANK			1.29				BLANK
5	65	8507600	800750			1.11				
6	67	8508000	801250			0.27				
7	69	8508100	801200			0.81				
8	71	8506000	801500			1.20				
9	73	8506500	801300			3.71				
10	75	8506200	800200			3.71				
11	77	8506750	799900			1.44				
12	79	8506[illegible]	800500			3.76.				
13										
14										
15										
16										
17										
18										
19										
20										
					METHOD					
					ANALYST					
					DATE					

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

217506

20

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51-3	Wayys EL 6185	Regional	470

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	PINE CREEK	SD 52-8	A.M.G.	SSS		R.D.	26/6/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: -80 #

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
1	L21753	9507750	500350	
2	60	9507750	500700	
3	62	9507750	500700	
4	64	BLANK	BLANK	
5	66	9508000	501350	
6	68	9509100	501200	
7	70	9506000	501500	
8	72	9506800	501300	
9	74	9506700	500700	
10	76	9506750	499900	
11	78	9506900	500900	
12				
13				
14				
15				
16				
17				
18				
19				
20				

ELEMENT

	TUBE No.		As	Pb	Fe	
1			20	80	1.83	
2			20	40	3.52	
3			<20	40	3.58	
4			<20	<40	3.32	
5			20	80	1.54	
6			<20	40	2.36	
7			<20	<40	2.38	
8			20	50	4.04	
9			<20	40	4.58	
10			<20	40	1.13	
11			<20	120	0.92	
12						
13						
14						
15						
16						
17						
18						
19						
20						
		METHOD				
		ANALYST				
		DATE				

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

217507

SOIL SAMPLES

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

PROJECT: STATE N.T. | PROJECT CODE E P 51.3 | PROJECT S Wayy E.L 6185 | PROSPECT South Wayy | COST CODE +70

SAMPLE LOCATION: NATMAP 1 : 250 000 SHEET NO. SD 52-8 | PHOTOGRAPHY/TRAVERSE | GRID A.M.G. | SAMPLE TYPE SOL | REPLICATE CODE | SAMPLED BY R.D. | DATE 9/7/89.

DRILLHOLE DATA: HOLE I.D. | COLLAR N | COLLAR E | AZIMUTH | DIP | COLLAR R.L.

ANALYSIS: DETAILS OF ANALYSIS REQUIRED — MAG 9 - Au, As Fe XRF is Darwin Contract.

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE	TUBE No.	ELEMENT Au.		As	Fe
1	L26563	8505790	803500			0.005		20	4.12
2	64	790	520			0.009		30	4.26
3	65	780	540			0.003		30	3.06
4	66	780	560			0.027		40	5.65
5	67	780	580			0.016		40	2.52
6	68	770	590			0.013		30	1.81
7	69	770	600			0.012		<20	2.12
8	70	760	610			0.012	0.011	40	5.10
9	71	760	620			0.088		30	1.84
10	72	765	630			0.018		60	2.78
11	73	770	660			0.010		70	2.34
12	74	780	680			0.006		100	2.76
13	75	8505570	803740			0.016		80	2.12
14	76	570	760			0.011		120	5.30
15	77	570	780			0.011		160	6.15
16	78	580	770			0.006		180	5.25
17	79	590	780			0.009		210	5.95
18	80	580	790			0.019	0.019	250	5.80
19	81	580	790			0.024		250	5.55
20	82	580	800			0.014		220	6.90

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

METHOD

ANALYST

DATE

217525

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

PROJECT: STATE NT | PROJECT CODE EP 51.3 | PROJECT Wattle E.L. 6185 | PROSPECT South Wattle | COST CODE 470

SAMPLE LOCATION: NATMAP 1 : 250 000 SHEET NO. SD 52-8 | PHOTOGRAPHY/TRAVERSE | GRID A.M.G. | SAMPLE TYPE SOL | REPLICATE CODE | SAMPLED BY R.D. | DATE 9/7/89

DRILLHOLE DATA: HOLE I.D. | COLLAR N | COLLAR E | AZIMUTH | DIP | COLLAR R.L.

ANALYSIS: DETAILS OF ANALYSIS REQUIRED — As 9 - Au, As, Fe XRF is Darwin Con labs

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
1	L26593	[illegible]	[illegible]10	
2	94	[illegible]	[illegible]20	
3	95	[illegible]	[illegible]30	
4	96	[illegible]	[illegible]40	
5	L26597	[illegible]	[illegible]50	
6	98	[illegible]	[illegible]60	
7	99	[illegible]	[illegible]70	
8	600	[illegible]	760	
9	01	[illegible]	770	
10	02	[illegible]	[illegible]	
11	03	[illegible]70	915	
12	04	[illegible]80	[illegible]30	
13	05	[illegible]40	[illegible]45	
14	06	[illegible]50	[illegible]60	
15	07	[illegible]00	[illegible]75	
16	08	120	890	
17	09	140	930	
18	L26610	[illegible]06 210	[illegible]80 120	
19	611	210	920	
20	612	220	140	

ELEMENT

	TUBE No.	Au		As	Fe	
1		0.024		350	7.30	
2		0.009		420	5.90	
3		0.018		400	4.28	
4		0.009		180	6.70	
5		0.025		[illegible]90	5.40	
6		0.014		110	5.45	
7		0.012		80	7.15	
8		0.010		90	8.85	
9		0.022		90	5.20	
10		0.010		20	6.00	
11		0.008		30	3.84	
12		0.008		20	2.44	
13		0.007		30	4.36	
14		0.006		40	4.34	
15		0.009		20	3.26	
16		0.012		20	2.68	
17		0.011		20	4.56	
18		0.014		20	6.50	} Duplicate.
19		0.011	0.020	20	6.35	}
20		0.009		40	[illegible]8.25	
METHOD						
ANALYST						
DATE						

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

217526

24

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51·3	Watts E.L. 6185	South Watts	470

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	SD 52-8		A.M.G.	SOIL		R.D.	19/7/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

	DETAILS OF ANALYSIS REQUIRED
ANALYSIS	AAS 9 - Au, As, Fe XRF 15 Darwin Contacts

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
1	126603	506230	900450	
2	604	240	[illegible]	
3	05	[illegible]	[illegible]	
4	06	250	[illegible]	
5	07	250	[illegible]	
6	08	260	050	
7	09	270	[illegible]	
8	10	506290	090	
9	11	506260	900 280	
10	12	[illegible]	[illegible]	
11	13	270	260	
12	14	275	265	
13	15	290	250	
14	16	295	[illegible]	
15	17	290	270	
16	18	295	280	
17	19	300	290	
18	20	310	300	
19	21	310	300	
20	22	506380	[illegible]	

ELEMENT

	TUBE No.	Au		As	Fe
1		0.010		40	6.15
2		0.009		40	7.15
3		0.011		70	6.65
4		0.016		120	9.25
5		0.009		70	13.3
6		0.009		80	14.3
7		0.015		170	16.8
8		0.018	0.014	110	12.7
9		0.006		80	5.85
10		0.024		60	5.70
11		0.011		40	4.44
12		0.008		80	7.00
13		0.006		40	3.84
14		0.010		70	5.30
15		0.025		60	4.24
16		0.037		90	3.52
17		0.026		60	2.86
18		0.015		50	2.32
19		0.010		60	2.48
20		0.009		140	3.22
	METHOD				
	ANALYST				
	DATE				

BOX NO.

DATE TO LAB.

DATE TO SAMPLE PREP.

DATE COMPLETED

DATE ENTERED

217527

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51.3	Watts E.L. 6185	South Watts	470

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	SD 52-8		A.M.G.	SOIL		R.D.	19/7/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: AAS9 - Au, As, Fe XRF 15 Darwin Contabs

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
1	L26623	[illegible]	[illegible]	
2	24	[illegible]	[illegible]	
3	25	[illegible]	[illegible]	
4	26	[illegible]	385	
5	27	[illegible]	395	
6	28	400	405	
7	29	405	415	
8	30	410	420	
9	31	[illegible]	[illegible] 210	
10	32		230	
11	33		250	
12	34		270	
13	35		290	
14	36		290	
15	37		300	
16	38		310	
17	39		320	
18	40		330	
19	41		330	
20	42		340	

ELEMENT

	TUBE No.	Au		As	Fe	
1		0.009		260	4.04	
2		0.009		90	2.50	
3		0.009		100	2.58	
4		0.010		70	2.66	
5		0.019		120	3.30	
6		0.027		60	2.02	
7		0.011		50	2.42	
8		0.007		80	5.25	
9		0.011		40	3.40	
10		0.008		60	6.50	
11		0.008	0.009	60	9.50	
12		0.008		70	6.70	
13		0.027		40	5.20	
14		0.008		40	5.05	
15		0.010		70	9.20	
16		0.011		100	8.40	
17		0.011		90	3.96	
18		0.019		60	4.00	
19		0.011		70	4.04	
20		0.012		130	6.95	
	METHOD					
	ANALYST					
	DATE					

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

217528

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51.3	Watts E.L. 6185	South Watts	470

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	SD 52-8		AMG	SOIL		R.D	19/7/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

	DETAILS OF ANALYSIS REQUIRED
ANALYSIS	AAS 1 - Au, As, Fe XRFIS

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
1	L26643	9506750	806350	
2	44		360	
3	45		370	
4	46		380	
5	47		390	
6	48		400	
7	49	9507010	800 420	
8	50		440	
9	51		460	
10	52		480	
11	53		500	
12	54		520	
13	55		540	
14				
15				
16				
17				
18				
19				
20				

ELEMENT

	TUBE No.	Au		As	Fe	
1		0.012		110	5.60	
2		0.015		280	12.4	
3		0.013		210	12.3	
4		0.010		100	8.00	
5		0.007		100	8.70	
6		0.006		130	8.30	
7		0.007		60	6.45	
8		0.006		60	4.84	
9		0.006		40	3.04	
10		0.007	0.006	30	5.00	
11		0.005		20	1.92	
12		0.009		60	9.25	
13		0.009		40	3.78	
14						
15						
16						
17						
18						
19						
20						
	METHOD					
	ANALYST					
	DATE					

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

217529

ROCK CHIP SAMPLES

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

PROJECT: STATE NT | PROJECT CODE EP 51-3 | PROJECT Watts E.L. 6185 | PROSPECT Regional | COST CODE 470

SAMPLE LOCATION: NATMAP 1 : 250 000 SHEET NO. PINE CREEK | PHOTOGRAPHY/TRAVERSE SD 52-8 | GRID A.M.G. | SAMPLE TYPE Ch | REPLICATE CODE | SAMPLED BY R.D. | DATE 26/6/89

DRILLHOLE DATA: HOLE I.D. | COLLAR N | COLLAR E | AZIMUTH | DIP | COLLAR R.L.

ANALYSIS: DETAILS OF ANALYSIS REQUIRED — AAS 7 - Au As, Fe XRF

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
1	L21551	[illegible]07750	[illegible]00300	
2	52	[illegible]07750	[illegible]00300	
3	53	[illegible]07500	[illegible]00500	
4	54	[illegible]07300	[illegible]00500	
5	55	[illegible]06800	[illegible]01500	
6	56	[illegible]06400	[illegible]01200	
7	57	[illegible]06700	[illegible]00700	
8	58	[illegible]05300	[illegible]00400	
9	59	[illegible]05300	[illegible]00700	
10	60	[illegible]05750	[illegible]00700	
11	61	[illegible]06000	[illegible]00700	
12	62	[illegible]07100	[illegible]00500	
13	63	[illegible]07000	[illegible]00300	
14	64	[illegible]06800	[illegible]00300	
15	65	[illegible]06300	[illegible]00400	
16	66	[illegible]13300	[illegible]01200	
17	67	[illegible]13200	[illegible]01300	
18	68	[illegible]12500	[illegible]01500	
19				
20				

ELEMENT

TUBE No.	Au		As	Fe	
1	<0.01		100	1.80	
2	0.05	0.10	290	5.25	
3	<0.01		170	99	
4	<0.01		40	3.04	
5	<0.01		70	21.5	
6	<0.01		70	15.9	
7	<0.01		<20	3.66	
8	<0.01		260	20.3	
9	1.60		3650	4.50	
10	0.34		370	5.15	
11	<0.01		670	11.2	
12	<0.01		40	4.10	
13	<0.01		230	13.7	
14	<0.01		30	2.76	
15	<0.01		20	0.88	
16	<0.01		<20	1.65	
17	<0.01		<20	16.6	
18	<0.01		20	14.5	
19					
20					
METHOD					
ANALYST					
DATE					

BOX NO.

DATE TO LAB.

DATE TO SAMPLE PREP.

DATE COMPLETED

DATE ENTERED

217508

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51·3	WATTS E.L. 6185	SOUTH	470

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	PINE CREEK	SD 52-8	AMG	CHP		R.D.	12/7/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: AAS 7 , As , Fe - XRF .

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
1	L, S1	7105400	799500	
2	S2	7106100	799600	
3	S3	7106600	799700	
4	S4	7107100	799800	
5	S5	7107700	799800	
6	S8	7107300	799900	
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

ELEMENT

	TUBE No.	Au	As	Fe		
1		0.03	20	1.22		
2		0.01	60	3.76		
3		0.48	1180	8.40		
4		0.09	630	6.80		
5		0.03	100	4.22		
6		0.03	30	1.35		
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
METHOD						
ANALYST						
DATE						

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

217510

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

PROJECT — State: NT | Project Code: E P 51.3 | Project: Watts E.L 6185 | Prospect: Regional | Cost Code: 470

SAMPLE LOCATION — Natmap 1 : 250 000 Sheet No.: Masson 1:50,000 | Photography/Traverse: 5271-2 | Grid: A.M.G. | Sample Type: 6h | Replicate Code: | Sampled By: R.D | Date: 1/6/89

DRILLHOLE DATA — Hole I.D.: | Collar N: | Collar E: | Azimuth: | Dip: | Collar R.L.:

ANALYSIS — Details of analysis required: AAS 7 Au, Fe, As XRF Darwin Comlabs.

ELEMENT

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE	TUBE No.	Au		As	Fe	
1	621096	8812700	800600			<0.01		50	1.68	Shale? ... dis py ... grey, yel, sld [illegible]
2	097	8811800	800300			<0.01	(<0.01)	<20	0.53	[illegible]
3	098	8812200	797400			<0.01		220	6.85	[illegible]
4	099	8811400	798100			<0.01		20	32.9	[illegible]
5	100	8811200	798200			<0.01		80	10.9	[illegible]
6	101	8811100	798300			<0.01		<20	6.20	[illegible]
7	102	8810500	798700			<0.01		650	4.56	[illegible]
8	103	8810400	798300			<0.01		130	1.08	[illegible]
9	10*	8810400	798400			<0.01		750	8.80	[illegible]
10	105	[illegible]	799200			<0.01		280	11.3	[illegible]
11	106	[illegible]	799300			<0.01		160	4.58	[illegible]
12										
13										
14										
15										
16										
17										
18										
19										
20										

METHOD

ANALYST

DATE

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219949

31

APPENDIX 2

GEOCHEMICAL RESULTS, MASSON EL 6186

STREAM SEDIMENT SAMPLES

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51 · 4	Masson	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Mount Masson	5271-2		SS		R.D.	19, 5, 89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: BLEG

	SAMPLE NO.	DEPTH FROM — OR — NORTHING	DEPTH TO — OR — EASTING	GEOCODE	TUBE No.	ELEMENT Au ppb
✓1	L 21 · 93	[illegible]	719400			1.36
✓2	L 21 · 95	[illegible]	719200			0.67
✓3	L 21 · 13	[illegible]	719400			0.18
✓4	L 21 · 15	[illegible]	719750			0.27
✓5	L 21 · 17	[illegible]	719800			0.38
✓6	L 21 · 19	[illegible]	719600			0.53
✓7	[illegible]	[illegible]	719750			0.36
✓8	L 21 · 23	[illegible]	719400			0.31
✓9	L 21 · 25	[illegible]	719700			0.20
✓10	L 21 · 27	[illegible]	719300			1.93
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

METHOD

ANALYST

DATE

219927

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

PROJECT

STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
NT	E P 51 ·4	MASSON	REGIONAL	471

SAMPLE LOCATION

NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
MASSON			SSS		R.D.	20/5/89

DRILLHOLE DATA

HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.

ANALYSIS

DETAILS OF ANALYSIS REQUIRED: BLEG [illegible].

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
✓1	L21529	8519300	800500	
2	L21531	BLANK	SAMPLE	
✓3	33	[illegible]19500	801000	
✓4	35	8519[illegible]00	801000	
✓5	37	[illegible]700	[illegible]1200	
✓6	39	8519400	[illegible]00	
✓7	41	[illegible]519500	[illegible]	
✓8	43	8519900	[illegible]300	
✓9	45	8520300	[illegible]01200	
✓10	47	[illegible]0500	[illegible]0900	
✓11	L21651	[illegible]20100	[illegible]00400	
✓12	L21549	[illegible]20600	800500	
13				
14				
15				
16				
17				
18				
19				
20				

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

ELEMENT

TUBE No.	Au(ppb)	As	Fe	Pb	
1	0.83	<20	2.16	30	
2	1.31				>BLANK
3	0.86				
4	0.74				Duplicate [illegible] for L215[illegible]
5	1.35				
6	0.88				
7	0.81				
8	0.12				
9	0.72				
10	1.62				
11	0.42				
12	1.93				
13					
14					
15					
16					
17					
18					
19					
20					
METHOD					
ANALYST					
DATE					

219930

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51·4	Mosson	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Mt Mosson	5271-2		S S S		R.D.	19 5 89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: As XRF, Pb Fe AAS

	SAMPLE NO.	DEPTH FROM — OR — NORTHING	DEPTH TO — OR — EASTING	GEOCODE
✓ 1	L 21496	95 21 400	795900	
✓ 2	L 21496	22 550	799300	
✓ 3	L 21514	24 400	795600	
✓ 4	L 21516	V 23 600	799750	
✓ 5	L 21518	23 500	796 900	
✓ 6	L 21520	24 200	799100	
✓ 7	L 21522	25 300	795 750	
✓ 8	L 21524	25 400	796 400	
✓ 9	L 21526	24 300	795 700	
✓ 10	L 21528	95 24 600	799300	
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

	TUBE No.		As ppm	Fe %	Pb ppm	
1			<20	2·26	26	
2			<20	0·91	12	
3			<20	0·67	8	
4			<20	0·62	14	
5			<20	0·78	22	
6			<20	1·16	22	
7			<20	1·15	<4	
8			<20	0·75	10	
9			<20	0·75	8	
10			<20	0·92	10	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
METHOD						
ANALYST						
DATE						

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219928

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	EP 51.4	Musson	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Musson 1:50,000	527-2		SSS		R.O.	20/5/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

DETAILS OF ANALYSIS REQUIRED

ANALYSIS - 80 # As Fe Pb.

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
1	L 21530	[illegible]	[illegible]	
2	32	[illegible]	[illegible]	
3	34	[illegible]	[illegible]	
4	36	[illegible]	[illegible]	
5	38	[illegible]	[illegible]	
6	40	[illegible]	[illegible]	
7	42	[illegible]	[illegible]	
8	44	[illegible]	[illegible]	
9	46	[illegible]	[illegible]	
10	48	[illegible]	[illegible]	
11	50	[illegible]	[illegible]	
12	L 21552	[illegible]	[illegible]	
13				
14				
15				
16				
17				
18				
19				
20				

ELEMENT

	TUBE No.		As	Fe	Pb	
1						
2			<20	2.98	10	[illegible]
3			<20	2.08	16	
4			<20	2.00	16	Duplicate as for L21534
5			<20	1.84	8	
6			<20	2.28	16	
7			<20	1.63	12	
8			<20	1.42	20	
9			<20	1.32	12	
10			<20	2.82	16	
11			<20	4.64	18	
12			<20	2.78	18	
13						
14						
15						
16						
17						
18						
19						
20						

METHOD

ANALYST

DATE

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219931

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51·4	Masson EL 6186	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Mt Masson 1:50,000	5271-2	AMG	SSS		R.D.	25/5/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: BIEG 2, ~~XRF~~ ~~FA~~ Comlabs Darwin

	SAMPLE NO.	DEPTH FROM — OR NORTHING	DEPTH TO — OR EASTING	GEOCODE
1	L 21653	55 23300	501000	
2	55	55 23000	501300	
3	57	55 22700	501200	
4	59	55 22300	501600	
5	61	55 22300	501600	
6	63	BLANK		
7	65	55 21300	500500	
8	67			
9	69			
10	71			
11	73			
12	75			
13	77			
14	79			
15	81		799600	
16	93	55 22300	799200	
17	95	55 22700	799400	
18	97	55 22200	799600	
19	99	55 22200	799600	
20	91	55 21600	799750	

ELEMENT

	TUBE No.	Au (PPB)	As	Fe	Pb	
1		1·46				
2		1·77				
3		0·82	20	3.88	28	
4		0·73				
5		0·78				DUPLICATE AS FOR L 21653
6		1·11	=	BLANK		
7		1·48				
8		0·87				
9		0·46				
10		0·40				
11		0·38				
12		0·77				
13		1·58				
14		0·44				
15		0·60	<20	0.81	24	
16		0·71				
17		1·08				
18		1·41				
19		0·54				
20		0·94				
	METHOD					
	ANALYST					
	DATE					

BOX NO.

DATE TO LAB.

DATE TO SAMPLE PREP.

DATE COMPLETED

DATE ENTERED

219940

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	EP 51.4	Masson	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Mt Masson 1:50,000	5271-2	A MG	S S S		R.D.	25/5/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: - 80 # As, Fe, Pb Jarvis Con 6 bs

	SAMPLE NO.	DEPTH FROM — OR — NORTHING	DEPTH TO — OR — EASTING	GEOCODE	TUBE No.		ELEMENT As	ELEMENT Fe	ELEMENT Pb	
✓1	L21654	55 23 500	801 000		1		20	4.60	34	
✓2	56	55 23 000	801 300		2		20	4.00	20	
✓3	60	55 22 400	801 600		3		<20	4.32	26	
✓4	62	55 22 300	801 600		4		<20	4.08	20	DUPLICATE of for L21160
5	64	BLANK		?	5		20	3.32	17	=
✓6	66	55 21 600	801 500		6		<20	4.86	64	
✓7	68	55 22 000	802 000		7		<20	3.72	40	
✓8	70	55 22 300	802 300		8		<20	3.88	9	
✓9	72	55 22 600	802 700		9		<20	2.14	6	
✓10	74	55 22 900	802 900		10		<20	1.23	11	
✓11	76	55 23 300	803 100		11		<20	0.96	7	
✓12	78	55 23 600	803 900		12		<20	2.96	32	
✓13	80	55 19 200	800 100		13		<20	1.25	36	
✓14	82	55 22 500	799 600		14		—	—	—	
✓15	84	55 22 200	799 200		15		<20	2.56	26	
✓16	86	55 22 200	799 400		16		20	2.48	54	
✓17	88	55 22 200	799 600		17		20	2.16	48	
✓18	90	55 22 200	799 600		18		<20	1.11	28	
✓19	92	55 21 600	799 750		19		<20	1.68	54	
20	94	BLANK			20		20	3.32	8	

METHOD
ANALYST
DATE

BOX NO.

DATE TO LAB.

DATE TO SAMPLE PREP.

DATE COMPLETED

DATE ENTERED

219941

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	EP 51.4	Masson E.L. 6186	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Mt Masson 1:50,000	5271-2	AMG	SSS		P.D.	25/5/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

DETAILS OF ANALYSIS REQUIRED

ANALYSIS: BLEG 2 Tom Labs Darwin.

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE	TUBE No.	ELEMENT Au (PPB)				
1	L21693	BLANK				1·18			>	BLANK
✓ 2	95	8521600	799500			0·53				
✓ 3	97	8521600	799500			1·28				Duplicate as for L21695
✓ 4	99	8521700	799800			0·51				
✓ 5	L21701	8522000	800300			0·44				
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
					METHOD					
					ANALYST					
					DATE					

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219942

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

PROJECT	STATE: NT	PROJECT CODE: EP 51·4	PROJECT: Masson E.L. 6186	PROSPECT: Regional	COST CODE: 471

SAMPLE LOCATION	NATMAP 1 : 250 000 SHEET NO.: 44 Masson 1:50,000	PHOTOGRAPHY/TRAVERSE: 5271-2	GRID: AMG	SAMPLE TYPE: Ch	REPLICATE CODE:	SAMPLED BY: R.D.	DATE: 25/5/89

DRILLHOLE DATA	HOLE I.D.:	COLLAR N:	COLLAR E:	AZIMUTH:	DIP:	COLLAR R.L.:

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: AAS 7 Au, XRF Fe, As. Darwin Comlabs

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE		TUBE No.	Au	As	Fe		
✓	1	L21069	5522800	501 000		1		<0.01	110	8.90		Red /ash hem [illegible] /qtz [illegible]
✓	2	L21062	5523400	501 300		2		<0.01	<20	3.10		[illegible] sample [illegible]
✓	3	L21070	5521700	501 500		3		<0.01	30	9.70		[illegible] 175° a N
✓	4	L21071	5522200	502 300		4		<0.01	<20	1.76		[illegible] with network qtz veins [illegible]
✓	5	L21072	5520800	502 600		5		<0.01	<20	0.90		[illegible] ridge with qtz veining
✓	6	L21073	5520300	501 700		6		<0.01	50	4.16		[illegible]
✓	7	L21074	5523100	799 400		7		<0.01	<20	1.74		[illegible] qtz with [illegible]
✓	8	L21075	5521300	799 750		8		<0.01	<20	2.30		[illegible] qtz [illegible]
✓	9	L21076	5522700	800 750		9		<0.01	<20	5.55		[illegible] on top of ridge [illegible]
✓	10	L21077	5522100	800 750		10		<0.01	20	12.9		[illegible]

BOX NO.:

DATE TO SAMPLE PREP.:

DATE TO LAB.:

DATE COMPLETED:

DATE ENTERED:

METHOD

ANALYST

DATE

219939

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51.4	Mason E.L. 6186	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	MT Mason 1:50,000	5271-2	A.M.G	Ch		R.D.	31/5/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

DETAILS OF ANALYSIS REQUIRED

ANALYSIS: AAS 7 Au, XRF As, Fe Darwin Comlabs

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE	TUBE No.	ELEMENT Au	As	Fe		
✓1	L21078	85 21000	799200			<0.01	1500	11.1		
✓2	79	85 21100	799300			<0.01	650	12.8		
✓3	80	85 21250	799300			<0.01	1060	12.7		
✓4	81	85 20250	799200			<0.01	50	2.28		
✓5	82	85 20 300	799 300			<0.01	330	6.30		
✓6	83	85 20 300	799 300			<0.01	1180	8.90		
✓7	84	85 20 400	799 300			0.12	1320	9.45		
✓8	85	85 20 500	799600			<0.01	50	0.91		
✓9	86	85 20 200	799500			<0.01	370	4.28		
✓10	67	85 19 900	799300			<0.01	30	5.60		
✓11	L21093	85 19600	799700			<0.01	770	8.50		
✓12	94	85 19 300	799800			<0.01	1680	13.8		
✓13	95	85 17000	00900			<0.01	40	14.5		
14										
15										
16										
17										
18										
19										
20										
					METHOD					
					ANALYST					
					DATE					

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219944

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51.4	Masson E.L. 6186	Regional	

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	PINE CREEK	SD 52-8	A.M.G.	Ch			6 89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: AA's - 7, Fe, Au x RF - Darwin.

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
✓ 1	L21569	8523600	798400	
✓ 2	70	8523700	798800	
✓ 3	71	8523700	798700	
✓ 4	72	8523300	798400	
✓ 5	73	8523600	801200	
✓ 6	74	8523600	801600	
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

ELEMENT

	TUBE No.	Au	As	Fe		
1		<.01	30	6.9		
2		<.01	<20	2.1		
3		<.01	20	3.62		
4		<.01	80	9.35		
5		<.01	<20	2.08		
6		<.01	30	8.15		
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
	METHOD					
	ANALYST					
	DATE					

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

217509

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51.4	Masson E.L. 6186	L21549 (Bi 143ppb) Follow up	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Pine Creek	SD 52-8	AMG	Ch		R.D.	13/7/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: AAS - 7 - Au , Fe , As XRF - Comlabs Darwin.

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
✓ 1	L21586	8520500	500800	
✓ 2	87	8520750	500800	
✓ 3	89	8520900	500500	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

ELEMENT

	TUBE No.	Au.	As	Fe.		
1		<0.01	30	52.7		
2		0.05	50	26.7		
3		0.04	<20	3.98		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
	METHOD					
	ANALYST					
	DATE					

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

217511

ROCK CHIP SAMPLES

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	EP 51.4	Masson E.L. 6186	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Mt Masson 1:50,000	5271-2	AMG	S S S		R.D.	25/5/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

DETAILS OF ANALYSIS REQUIRED

ANALYSIS: -80 # As Fe Pb.

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE
✓ 1	L 21696	8521600	794800	
✓ 2	98	8521600	794800	
✓ 3	L 21700	8521700	794800	
✓ 4	702	8522000	800300	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

ELEMENT

	TUBE No.		As	Fe	Pb	
1			<20	1.79	46	
2			<20	1.83	46	Duplicate as for L 21696
3			<20	1.61	48	
4			<20	0.86	30	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
METHOD						
ANALYST						
DATE						

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219943

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51.4	Masson E.L. 6186	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Mt Masson 1:50000	5271-2	A.M.G.	SSS		R.D.	31/5/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

ANALYSIS — DETAILS OF ANALYSIS REQUIRED: BLEG 2

PPB. — ELEMENT

	SAMPLE NO.	DEPTH FROM OR NORTHING	DEPTH TO OR EASTING	GEOCODE	TUBE No.	Au				
✓1	L21703	8521000	798900		1	1.33				
✓2	05	8520600	798400		2	0.47				
✓3	07	8520000	799100		3	1.39				
✓4	09	8519500	799400		4	0.49				
✓5	11	8519700	799400		5	0.82				
✓6	13	8520300	800200		6	1.02				
✓7	15	8519400	800400		7	0.98				
✓8	17	8518000	801600		8	0.53				
✓9	19	8517400	800600		9	0.27				
✓10	21	8517000	800900		10	0.30				
11					11					
12					12					
13					13					
14					14					
15					15					
16					16					
17					17					
18					18					
19					19					
20					20					
					METHOD					
					ANALYST					
					DATE					

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219945

BP MINERALS AUSTRALIA

GEOCHEMICAL ANALYSIS SHEET

	STATE	PROJECT CODE	PROJECT	PROSPECT	COST CODE
PROJECT	NT	E P 51.4	Masson E.L. 6186	Regional	471

	NATMAP 1 : 250 000 SHEET NO.	PHOTOGRAPHY/TRAVERSE	GRID	SAMPLE TYPE	REPLICATE CODE	SAMPLED BY	DATE
SAMPLE LOCATION	Mt Masson 1:50000	5271-2	A.M.G.	SSS		K.D.	31/5/89

	HOLE I.D.	COLLAR N	COLLAR E	AZIMUTH	DIP	COLLAR R.L.
DRILLHOLE DATA						

DETAILS OF ANALYSIS REQUIRED

ANALYSIS - 80 #

	SAMPLE NO.	DEPTH FROM / NORTHING	DEPTH TO / EASTING	GEOCODE
✓ 1	L21704	85 21000	798900	
✓ 2	06	85 20600	798900	
✓ 3	08	85 20000	799100	
✓ 4	10	85 19500	799400	
✓ 5	12	85 19700	799400	
✓ 6	14	85 20300	800200	
✓ 7	16	85 19 400	800 400	
✓ 8	18	85 19000	801600	
✓ 9	20	85 17400	800600	
✓ 10	22	85 17000	800900	
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

ELEMENT

	TUBE No.		As	Fe	Pb	
1			20	3.26	34	
2			<20	0.74	28	
3			<20	0.78	18	
4			<20	0.69	18	
5			20	1.88	40	
6			<20	2.20	44	
7			<20	2.36	16	
8			<20	2.48	8	
9			<20	0.63	6	
10			<20	0.85	10	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
METHOD						
ANALYST						
DATE						

BOX NO.

DATE TO SAMPLE PREP.

DATE TO LAB.

DATE COMPLETED

DATE ENTERED

219946

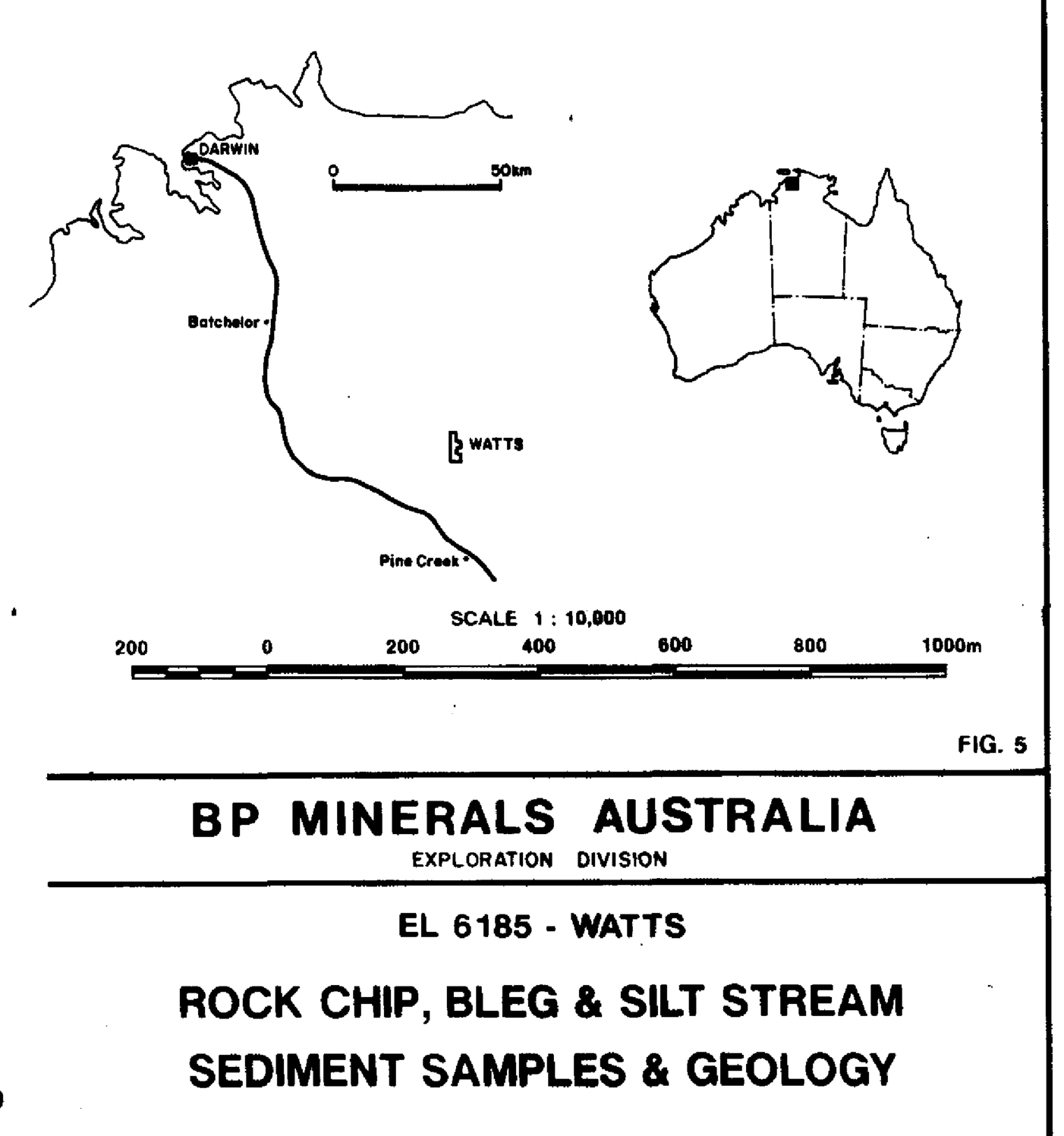

131°45'
798000mE
131°46'
800000mE
131°47'
13°24'
8516000mN
13°25'
8514000mN
13°26'
8512000mN
13°27'
8510000mN
13°28'
8508000mN
13°29'
8506000mN
13°30'
Ɛsg? mod.hd – hd dark grey – blk f.g. cryst. stst
L21566 -0·01
nose of 150° striking anticline (hinge axis exposed)
L21567 -0·01
58°
L21723,24 4·19/-20/4·94/16
L21725,26 3·05/-20/4·82/20
hem.q bre
stst c̄ cht nodules
Ɛdz
3·18/-20/5·05/20 L21729,30
stst c̄ cht nodules
dk grey – blk str sil stst o/c 200m long, 20m wide
60° red stst c̄ cht nodules
L21568 -0·01 lens
L21731,32 0·83/-20/3·00/18
L21096 -0·01
L21739,40 1·61/-20/2·68/14
80°
L21098 -0·01
L21733,34 0·97/20/1·93/16
78°
L21735,36 1·26/20/3·3/24
L21737,38 1·09/-20/1·54/8
L21099 -0·01
80°
q blow
L21100 -0·01
L21101 -0·01
L21743,44 1·79/-20/2·72/18
L21102 -0·01
L21103 -0·01
L21104 -0·01
L21741,42 1·31/-20/1·83/16
L21745,46 1·67/-20/2·82/16
interbedded stst & cht
70°
q blow
Ɛdz
q blow
L21747,48 1·18/-20/2·00/32
L21749,50 0·62/-20/1·36/20
L21105 -0·01
buck q float
sil stst, cht, buck q
Ɛso
L21106 -0·01
nose of syncline ?
stst
Ɛso
L21751,52 0·5/-20/0·96/4
stst, blk shale
q blow
60°
Ɛso
L21753,54 0·53/-20/1·45/10
L21769,70 0·81/-20/2·38/-40
L21767,68 0·27/-20/2·36/40
Ɛdz (dolerite)
80°
cht, buck q, sil stst, carb mst
L21757,58 0·67/20/1·83/80
L21755,56 1·1/-20/2·36/40
L21759,60 0·51/20/3·52/40
L21761,62 1·22/-20/3·58/40
buck q
L21765,66 1·11/20/1·54/80
McKinlay River
Watts Creek
Ɛsk, fe rich stst
L21562 -0·01
white bleached stst
q blow
red stst, vessicular cht, occasional hem.
-0·01 L21563 hem/q bre
stst c̄ veining
L26649
L26655
L21564 -0·01
72°
L21779,80 3·76/?
L21773,74 3·71/-20/4·58/40
L21777,78 1·44/-20/0·92/120
L26631
L26640,41
L26648
L21557 -0·01
bleached mst? cht
L26630
L26622
pale grey – grey stst, hem cht
cht, scree, str bedding
Ɛdz
-0·01 L21556
L26620,21
L21565 -0·01
50 x 20m area of q veining in stst
L26611
L26600,01
L26610
Ɛsk, thinly bedded, cht banding
3·71/-20/1·13/40 L21775,76
sil stst/ chert beds
L26592
L26589
55°
thinly bedded Fe rich stst
thinly bedded fissile Ɛsg
L21771,72 1·20/20/4·04/50
buck q dykes/veins
-0·01 L21561
1·60 L21559
L21555 -0·01
EL 6185
Fe stained stst, nodular cht in stst, minor q veining & str lim/hem
-0·01 L21558
L21560 0·34
L26563
L26574
L26575
L26580,81
L26586

Ɛdz Zamu Dolerite
Ɛso Mt Bonnie Fm.
Ɛsg Gerowie Tuff
Ɛsk Koolpin Fm.

Outcrop
70° Bedding strike and dip angle
Bedding strike with dip vertical
q Quartz vein
Dyke

blk Black
bre Breccia/ted
carb Carboniferous.
cht Chert
cryst Crystaline
dk Dark
fg Fine grained
hem Haematite
mod hd Moderately hard
mst Mudstone
o/c Outcrop
q Quartz
sil Silicified
str Strongly
stst Siltstone

L21747,48 ○ BLEG and -80# silt sample location
1·18/-20/2·00/32 BLEG ppb / As ppm / Fe % / Pb ppm
L21559 ✕ Rock chip sample
1·60 Au ppm
L26695 – L26692 Soil sample traverse



SCALE 1 : 10,000

200 0 200 400 600 800 1000m

FIG. 5

BP MINERALS AUSTRALIA

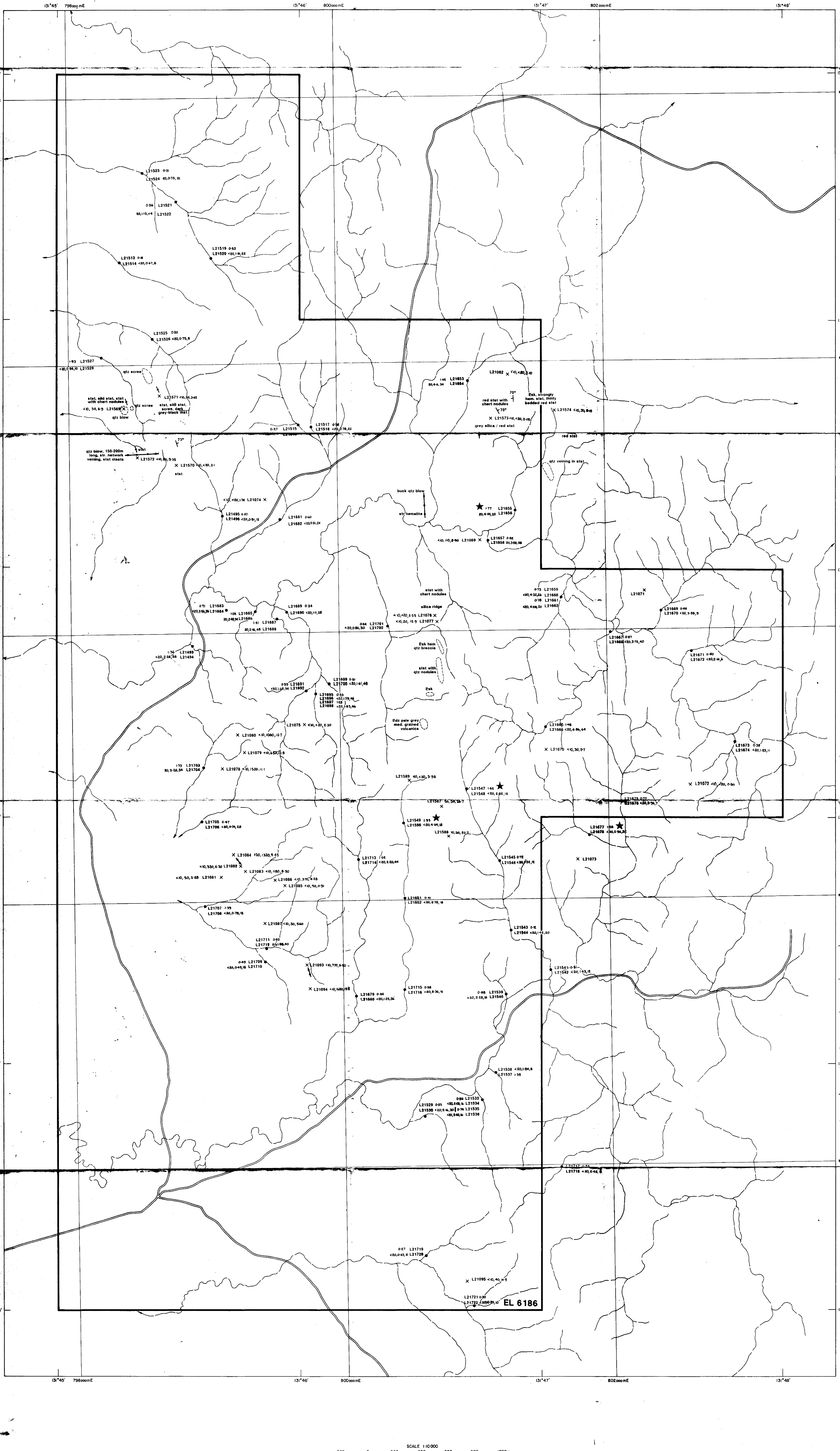
EXPLORATION DIVISION

EL 6185 - WATTS

ROCK CHIP, BLEG & SILT STREAM SEDIMENT SAMPLES & GEOLOGY

CR89/711

LOCATED ON	PINE CREEK		1:250 000 SHEET	
COMPILED	M.D. WALKER		LAST REVISION	
DRAWN	S.P. WHEELER	JULY 89	ORIGINAL HELD	MELBOURNE
CHECKED			DRAWING NUMBER	MEL- 3158


131°45'
798000mE
131°46'
800000mE
131°47'
802000mE
131°48'
13°19'
8526000mN
13°20'
8524000mN
13°21'
8522000mN
13°22'
8520000mN
13°23'
8518000mN
13°24'
L21523 0·31
L21524 20,0·75,10
0·36 L21521
20,1·15,<4 L21522
L21519 0·53
L21520 <20,1·16,22
L21513 0·18
L21514 <20,0·67,8
L21525 0·20
L21526 <20,0·75,8
1·93 L21527
<20,0·92,10 L21528
qtz scree
X L21571 <10,20,3·42
stst, sild stst, stst with chert nodules
<10, 30, 6·9 L21569
qtz scree
stst, sild stst, scree, dark grey-black mst
qtz blow
0·27 L21515
L21517 0·58
L21518 <20,0·78,22
1·46 L21653
20,4·6,34 L21654
L21062 X <10,<20,3·10
70°
red stst with chert nodules
70°
Esk, strongly hem. stst, thinly bedded red stst
X L21573 <10,<20,2·06
X L21574 <10,30,8·15
grey silica / red stst
red stst
qtz veining in stst
73°
qtz blow, 150-200m long, str. network veining, stst clasts
stst
X L21572 <10,80,9·35
X L21570 <10,<20,2·1
stst
<10,<20,1·74 L21074 X
L21495 0·67
L21496 <20,0·91,12
L21681 0·60
L21682 <20,0·81,24
buck qtz blow
str hematite
1·77 L21655
20,4·00,20 L21656
<10, 110,8·90 L21069 X
L21657 0·62
L21658 20,3·68,28
stst with chert nodules
silica ridge
<10,<20,5·55 L21076 X
<10,20,12·9 L21077 X
0·44 L21701
<20,0·86,30 L21702
0·71 L21683
<20,2·56,26 L21684
1·08 L21685
20,2·46,54 L21686
1·41 L21687
20,2·16,48 L21688
L21689 0·54
L21690 <20,1·11,28
0·73 L21659
<20,4·32,26 L21660
0·78 L21661
<20,4·08,20 L21662
L21071
L21669 0·46
L21670 <20,3·86,9
L21667 0·87
L21668 <20,3·72,40
L21671 0·40
L21672 <20,2·14,6
1·36 L21493
<20,2·26,26 L21494
Esk hem qtz breccia
stst with qtz nodules
Esk
0·99 L21691
<20,1·68,54 L21692
L21699 0·81
L21700 <20,1·61,48
L21695 0·53
L21696 <20,1·79,46
L21697 1·28
L21698 <20,1·83,46
Edz pale grey med. grained volcanics
L21075 X <10,<20,2·30
X L21080 <10,1060,12·7
X L21079 <10,650,12·8
1·33 L21703
20,3·26,34 L21704
X L21078 <10,1500,11·1
L21665 1·48
L21666 <20,4·86,64
X L21070 <10,30,9·7
L21673 0·38
L21674 <20,1·23,11
L21589 40,<20,3·98
L21547 1·62
L21548 <20,2·82,16
X L21072 <10,<20,0·90
L21675 0·77
L21676 <20,0·56,7
L21587 50,50,26·7
L21549 1·93
L21550 <20,4·64,18
L21586 10,30,52·7
L21677 1·58
L21678 <20,2·96,32
L21705 0·47
L21706 <20,0·74,28
X L21084 120,1320,9·45
<10,330,6·30 L21082 X
X L21083 <10,1180,8·90
<10,50,2·28 L21081 X
X L21086 <10,370,4·28
X L21085 <10,50,0·91
L21713 1·02
L21714 <20,2·20,44
L21545 0·72
L21546 <20,1·32,12
X L21073
L21651 0·41
L21652 <20,2·78,18
L21707 1·39
L21708 <20,0·78,18
X L21087 <10,30,560
L21543 0·12
L21544 <20,1·42,20
L21711 0·82
L21712 20,1·88,40
0·49 L21709
<20,0·69,18 L21710
X L21093 <10,770,8·50
X L21094 <10,1680,13·8
L21679 0·44
L21680 <20,1·25,36
L21715 0·98
L21716 <20,2·36,16
0·88 L21539
<20,2·28,16 L21540
L21541 0·81
L21542 <20,1·63,12
L21538 <20,1·84,8
L21537 1·35
0·86 L21533
<20,2·08,16 L21534
L21529 0·83
L21530 <20,2·16,30
0·74 L21535
<20,2·00,16 L21536
L21717 0·53
L21718 <20,2·48,8
0·27 L21719
<20,0·63,6 L21720
X L21095 <10,40,14·5
L21721 0·30
L21722 <20,0·85,10
EL 6186

X L21587 50,50,26·7 — Rock chip sample location, number & analysis: Au ppb, As ppm, Fe %

● L21547 1·62 / L21548 <20,2·82,16 — Stream sample location: BLEG sample number & analysis: Au ppb; -80# sample number & analysis: As ppm, Fe %, Pb ppm

★ — BLEG sample 1.5-2.5 ppb Au

Edz	Zamu Dolerite
Esk	Koolpin Formation
hem	Hematite
mst	Mudstone
qtz	Quartz
sild	Silicified
str	Strong
stst	Siltstone
—●—●—	Quartz vein
70°	Bedding strike & dip
	Bedding strike & vertical dip

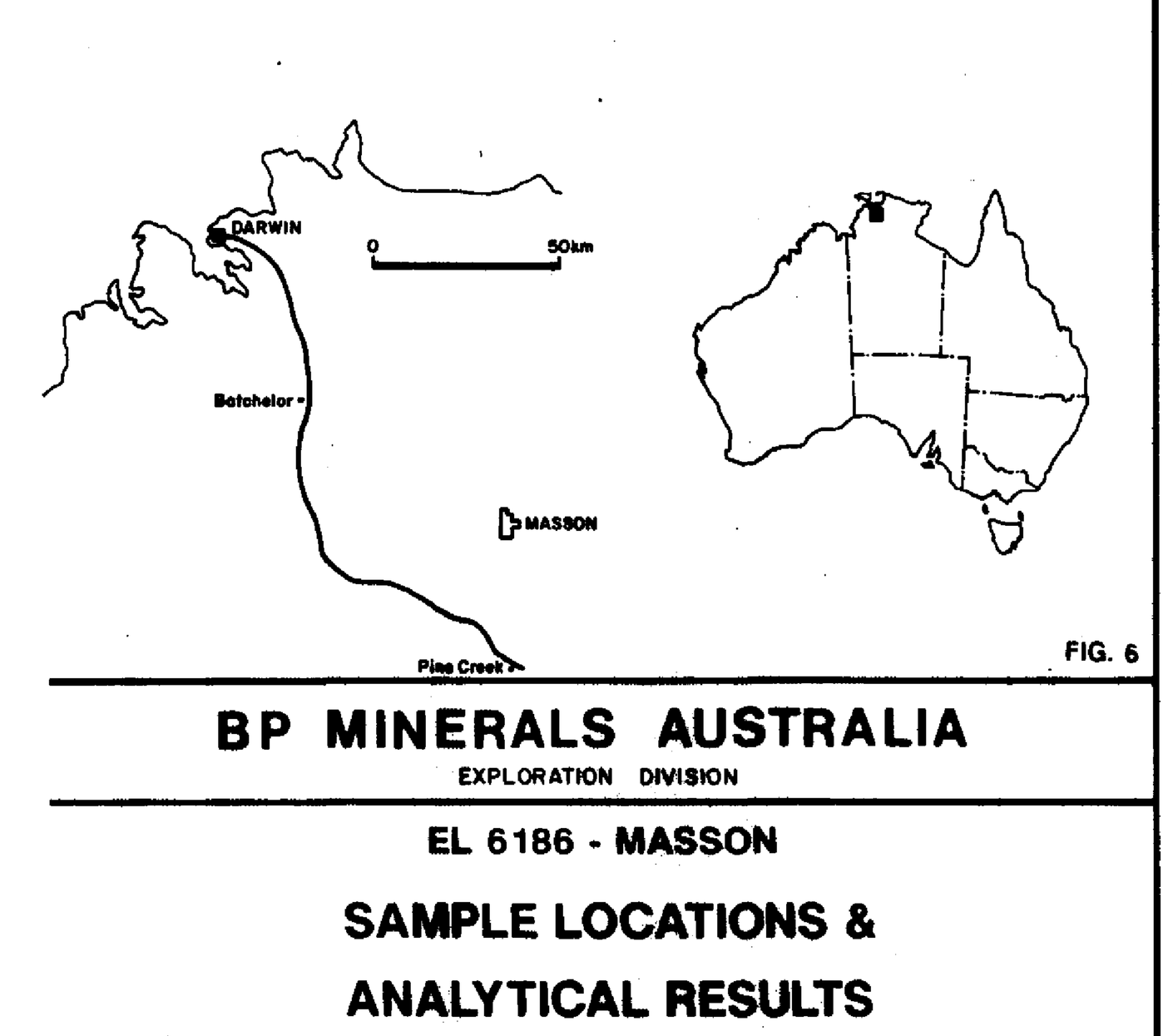


FIG. 6

SCALE 1:10 000
200 0 200 400 600 800 1000m

BP MINERALS AUSTRALIA

EXPLORATION DIVISION

EL 6186 - MASSON

SAMPLE LOCATIONS & ANALYTICAL RESULTS

CR89/711

LOCATED ON	PINE CREEK		1:250 000 SHEET	
COMPILED	R. DURIEU	6/89	LAST REVISION	
DRAWN	S.P. WHEELER		ORIGINAL HELD	MELBOURNE
CHECKED			DRAWING NUMBER	MEL- 3182