14.3

TERRITORY RESOURCES N.L.

EXPLORATION LICENCE 4415

MARGARET RIVER - NORTHERN TERRITORY

ANNUAL REPORT FOR YEAR 3 (1986/87)

A. JETTNER

RECEIVED
1 MAY 1987
DEPARTMENT OF MINES & ENERGY

NORTHERN TERRITORY GEOLOGICAL SURVEY

CR87/112

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1. INTRODUCTION

Exploration Licence 4415 is situated on Ban Ban Springs and Douglas, (formerly Prices Springs), Pastoral Stations, about 145 km southeast of Darwin.

The licence was granted to Ken Day Pty. Ltd. on the 10th of April 1984, for a period of 5 years.

The licence was tranfered to Territory Resources N.L. on the 2nd of September, 1986.

This report covers the period 10/4/86 to 9/4/87.

EL 4415 was due for a mandatory 50% reduction on 9/4/86. This was deferred to 24/9/86 when the reduction occurred.

This report then deals with the whole of EL 4415 as it was granted on 10/4/84.

Ken Day Pty. Ltd. reports in April, 1985, February, 1986, and April 1986, gave details of the licence and work completed in the first two years of occupancy.

Investigations undertaken during the year included the treatment of a 910m3 bulk sample of eluvial material from North Point, pitting of alluvial palaeosystems underlying the Margaret Plains and trenching of the Priscilla Line of Reefs at North Point.

Unfortunately we have not received the geological sections of the hardrock costeaning program from the consulting geologist so are not able to include them in this report.

2. LOCATION AND DESCRIPTION

The location of EL 4415 is as shown in Figure 1. The exploration licence is located in the old Cullen Mineral Field (now the Northern Mineral Field) and forms an irregularly shaped parcel of land having its northern boundary on 13 degrees 25'S, its southern boundary on 13 degrees 30'S, its eastern boundary on 131 degrees 36'E and its western boundary varying between 131 degrees 30'E and 131 degrees 32'E.

The exploration licence surrounds the old Grove Hill pub and railway siding which is located 113.3 miles south of Darwin on the abandoned Darwin-Birdum railway.

It is located between what were 3 major alluvial gold fields in the last century, with Woolwonga on the northern boundary, Fountain Head on the western boundary and Yam Creek on the southern boundary.

The area consists of low open woodland located on shallow remnant hills in the southern half of the exploration licence and open savannah country on seasonally indurated black soil plains in the northern half of the area.

As the exploration licence underwent a mandatory reduction during the year, its description has now changed. Figures 2 and 3 show the EL before and after the reduction.

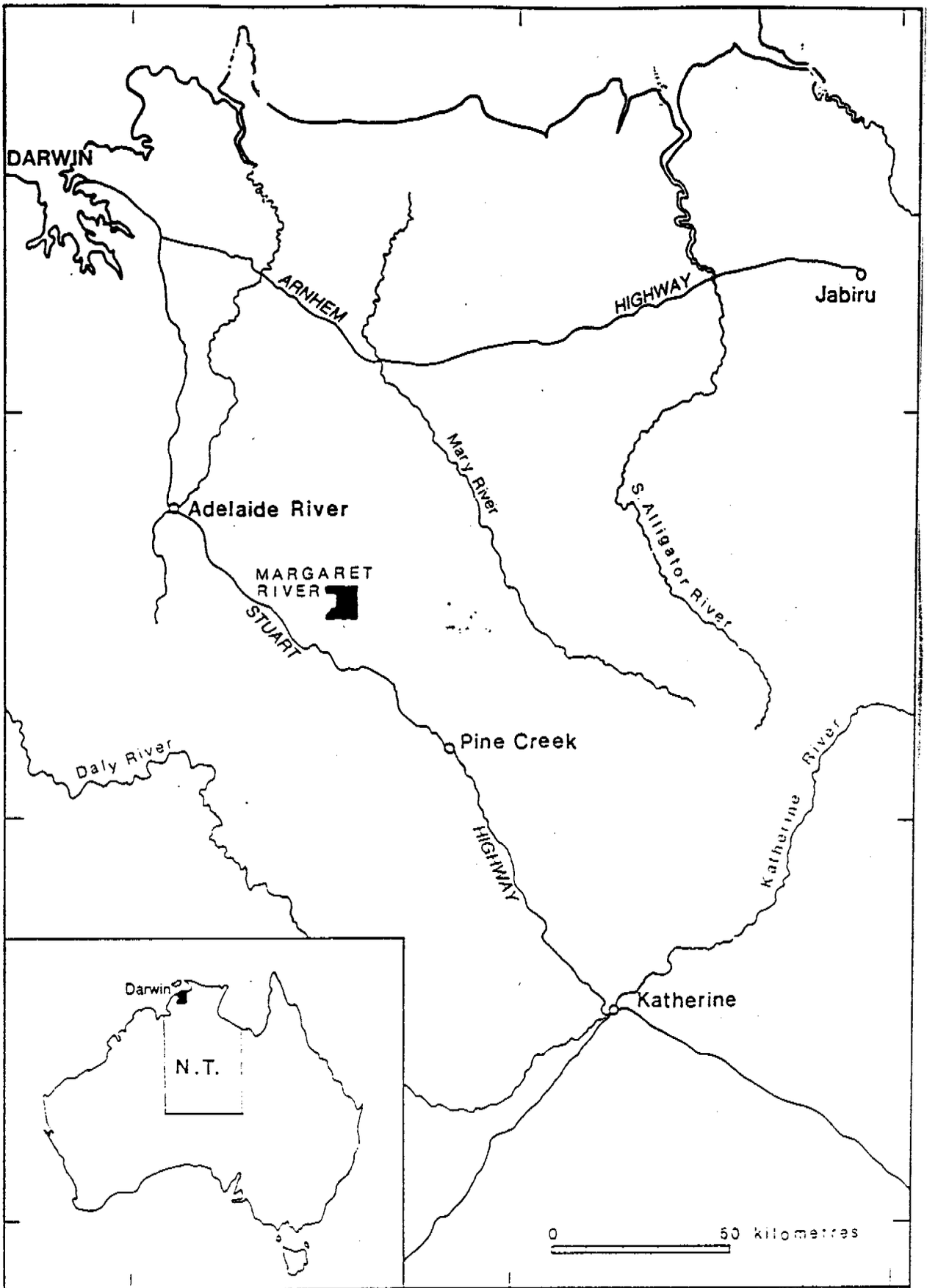


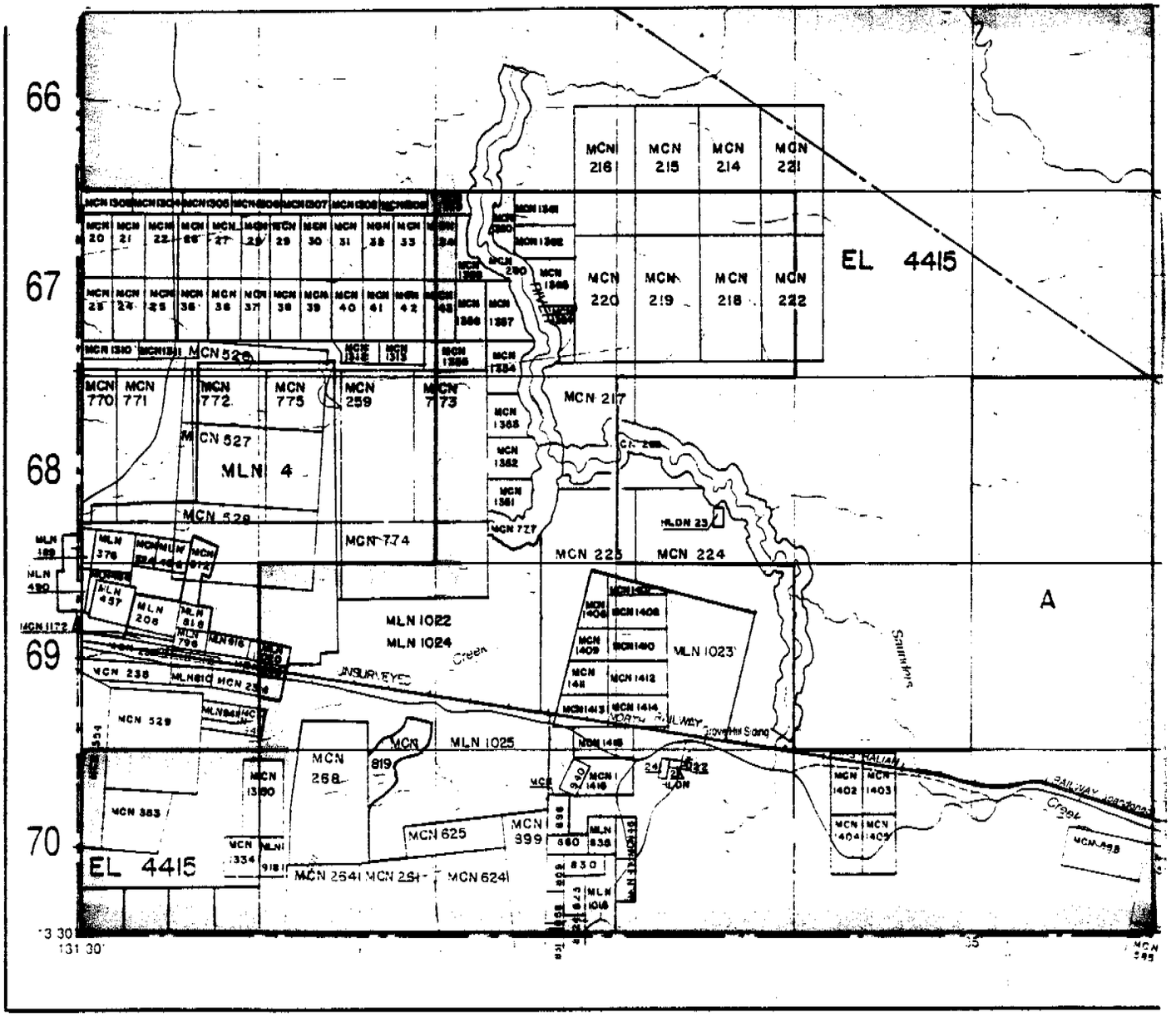
FIGURE 1

Location of EL 4415

TERRITORY RESOURCES N.L.

LOCATION MAP

Figure 1



TN

GRATICULAR SECTION REFERENCE

TO GIVE A REFERENCE TO A GRATICULAR SECTION BEING ONE MINUTE OF LONGITUDE BY ONE MINUTE OF LATITUDE

SAMPLE SECTION SE CORNER BLOCK

1. Quote this 1:100,000 sheet number 14 31
2. Quote the number above and in the centre of the one minute column 351
3. Quote the number to the left and in the centre of the one minute row 70

SAMPLE REFERENCE 4 3 [illegible] 70

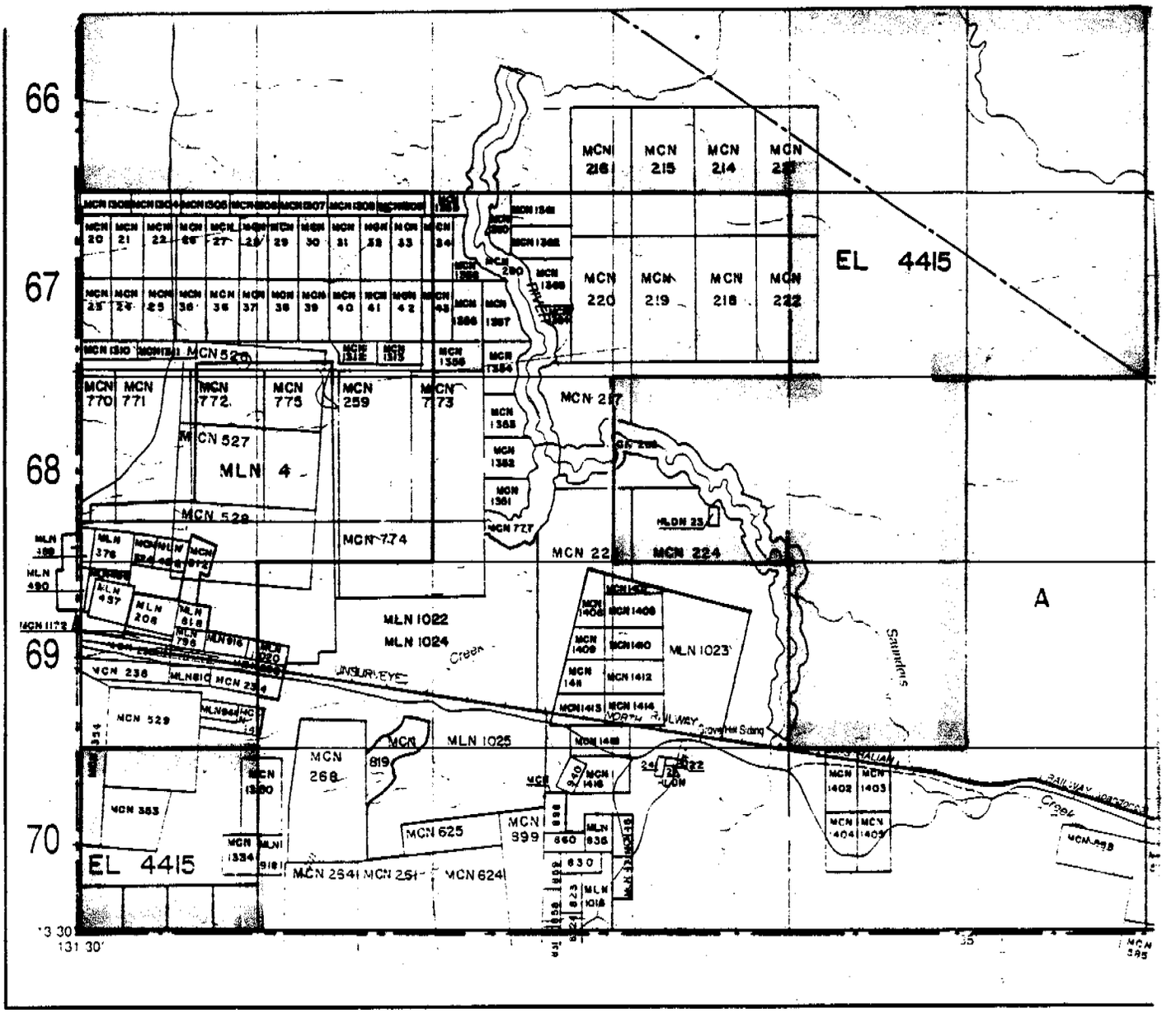
PRODUCED by the Department of Mines and Energy, Darwin, using base mapping provided by the Division of National Mapping

NOTE TO MAP USERS: Mining Tenements on this map are plotted from descriptions supplied by the holders and the Northern Territory takes no responsibility as to their accuracy

FIGURE 2

EL 4415 before relinquishment (24.9.86)

SCALE 1:62000



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SAMPLE SECTION: SE CORNER BLOCK

1. Quote this 1:100,000 sheet number	14 31
2. Quote the number above and in the centre of the one minute column	251
3. Quote the number to the left and in the centre of the one minute row	[illegible]
SAMPLE REFERENCE	[illegible]

NORTHERN TERRITORY

PRODUCED by the Department of Mines and Energy, Darwin, using base mapping provided by the Division of National Mapping

NOTE TO MAP USERS: Mining Tenements on this map are plotted from descriptions supplied by the holders and the Northern Territory takes no responsibility as to their accuracy

TN

FIGURE 3

EL 4415 after relinquishment (24.9.86)

SCALE 1:62000

3. GEOLOGY

The geology of the exploration licence was covered in depth in Ken Day Pty. Ltd. report on EL 4415's second year of occupancy (1985/86).

To date we have not located any geological feature that has altered the way in which we view the geology of this area.

For the sake of briefness and to avoid plagarism we have not rewritten the same segment here.

Work during the year was concentrated primarily on elucidating the palaeochannels associated with the existing drainage systems that flow through the licence area.

Sections of the pits that were excavated as part of this program are included as appendices to this report.

A secondary objective during the year was general prospecting over the whole of EL 4415 as well as the investigation of the northern extensions of the Priscilla Line.

This was done by excavating 4 costeans, 50m apart and totalling 314m of trenching.

4. PREVIOUS EXPLORATION

Previous exploration on EL 4415 was carried out by Ken Day Pty. Ltd.

This work outlined the extent of the exposed eluvial workings that surround the Priscilla Line.

It also located a number of potential palaeochannel sites, most of which were investigated during the 1986 field season.

In 1985 an aeromagnetic survey was flown over EL 4415 in conjunction with Magnum Resources. From this survey we were able to deduce the regional structure of the area and conclude the position of the northern extension of the Yam Creek Anticline.

A more detailed description of the structure and geology under the Margaret Plains is given in the annual report for Year 2 by Ken Day Pty. Ltd. This survey also gave 3 strong positive magnetic anomalies which are similar to those given by the Iron Blow and Mt. Bonnie orebodies. These were not investigated during year 3 due to the limited time available for drilling. The drillers used by the company used all of their available time at Spring Hill.

It is proposed to investigate these anomalies during the current exploration season (1987/88).

Work on locating palaeosystems consisted of observing the trench dug for the Darwin-Helling gas pipeline.

The modern drainage systems were also investigated with the conclusions that these would be the first target in our pitting program for this type of mineralisation.

The modern systems were conventionally prospected with dishes of alluvium taken from the incised banks and the stream beds.

These indicated a potential for low grade alluvial gold mineralisation.

This was further investigated by pitting with excavators during year 3.

5. EXPLORATION FOR YEAR 3

Field work during year 3 was primarily directed towards locating auriferous palaeosystems associated with the present day Yam Creek and Margaret River drainage lines.

These systems contain gold that was derived from the Priscilla Line of Reefs in Tertiary and Quaternary time.

Investigations were initiated on the eluvials at North Point, work then moved northwards across the Margaret Plains.

This program consisted of excavator pits generally 50m apart on traverses at right angles to the alluvials.

Initial work was carried out using a Kubota miniexcavator. It was found that this machine could not dig through the insitu laterite so it was abondoned in favour of a larger excavator.

The company subsequently purchased a Kobelco K914 excavator which enabled pits and trenches to be dug to a 7m depth where warranted.

The areas initially pitted with the Kubota were repitted to bedrock.

Most of the pits were geologically mapped in detail to give profiles of the alluvials and also to give details of the lithology, bedding and metamorphic cleavage of bedrock as part of a study of the regional geology.

Wash and gravelly sections of the alluvials were sampled in vertical channels. All samples were of 12 litres volume except for a sample of 48 litres taken from the dump from pit 150E 100N on traverse 4 which was taken following unsuccessful dewatering attempts.

Samples were panned to a heavy mineral concentrate, the number and size of the gold particles noted, a gold grade estimated, and other aspects such as the presence of small concentrations of cassiterite were noted.

The concentrate samples were dried, screened at 700 microns, weighed and gold content determined by fire assay/AAS at the ALS laboratory in Brisbane.

Gold values were converted to grades using the following formula:

$$\frac{\text{ppm Au} \times \text{weight of concentrate}}{1{,}000{,}000} \times \frac{1{,}000}{12} = \text{g/m3}$$

The following is a brief description of each of the traverses.

TRAVERSE 1

This was an east/west traverse, located on Yam Creek approximately 100m south of the railway line.

This traverse consisted of 8 pits, generally 50m apart, 2 west of Yam Creek, 1 in the creek bed, and 5 east of Yam Creek. Of these 4 were not sampled. The highest gold value obtained was in the 125E pit being 0.02 g/m3.

TRAVERSE 7

This was an east/west traverse, located on Yam Creek approximately 150m north of its junction with a small system draining North Point. This traverse consisted of 6 pits, with all except one located west of Yam Creek.

All pits were sampled with the highest gold value being 0.72 g/m3 from the wash layer in the 200W pit.

TRAVERSE 6

This was an east/west traverse located on Yam Creek approximately 1100m downstream from traverse 7. The traverse consists of 7 pits, all but one was located west of Yam Creek, with the odd one in Yam Creek.

Two pits were not sampled, of the remaining five the highest gold value was 0.32 g/m3 from the 150w pit.

TRAVERSE 2

This is an east/west traverse located on Yam Creek, approximately 500m north of traverse 6.

It consists of 5 pits, 2 west of Yam Creek, 1 in the Creek and two east of the creek.

Three pits were sampled insitu with the samples for the remaining 2 pits removed from the spoil heaps.

Of those sampled insitu the highest gold value was 0.02 g/m3 from the 100E pit.

TRAVERSE 5

This traverse consisted of 5 pits, all located in the bed of the Margaret River.

Pit 1 was the most northerly with ascending pit numbers located to the south.

The highest gold value reported in pit 4, being 0.13 g/m3.

TRAVERSE 3

This was a north/south traverse and consisted of 11 pits. Of these 8 were located north of Margaret River, 2 were in the river bed and one to the south of the river.

Two of the pits were not sampled with the highest gold value (0.67 g/m3) occurring in the 00N pit.

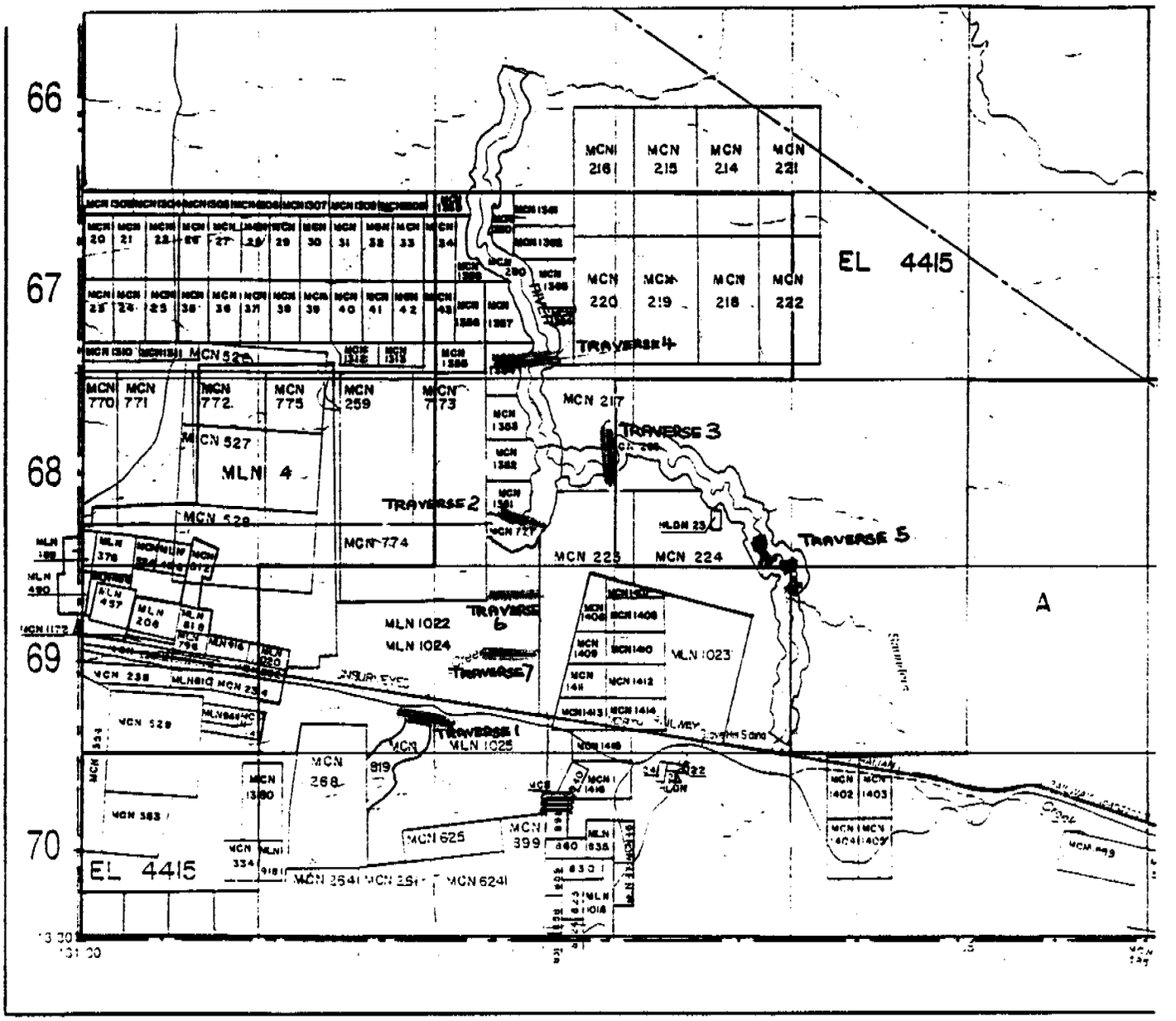
TRAVERSE 4

This is an east/west traverse located approximately 1000m downstream from the junction of Yam Creek and the Margaret River.

The traverse consisted of 14 pits, 4 west of the Margaret River, one in the bed and 9 east of the river.

Three of the pits were not mapped or sampled, with a further 2 mapped but not sampled, this was due to overnight rain.

Of those sampled the highest gold value was 0.15 g/m3 from the 50W pit.


66
67
68
69
70
EL 4415
EL 4415
MCN 216
MCN 215
MCN 214
MCN 221
MCN 220
MCN 219
MCN 218
MCN 222
TRAVERSE 4
MCN 217
TRAVERSE 3
MCN 527
MLN 4
TRAVERSE 2
MCN 528
MCN 774
MCN 225
MCN 224
TRAVERSE 5
A
MLN 1022
MLN 1024
TRAVERSE 6
TRAVERSE 7
MLN 1023
TRAVERSE 1
MLN 1025
MCN 268
MCN 625
MCN 399
MCN 624
MCN 770
MCN 771
MCN 772
MCN 775
MCN 259
MCN 773
MCN 529
MCN 238
MCN 583
MCN 334
MCN 1380
MCN 1402
MCN 1403
MCN 1404
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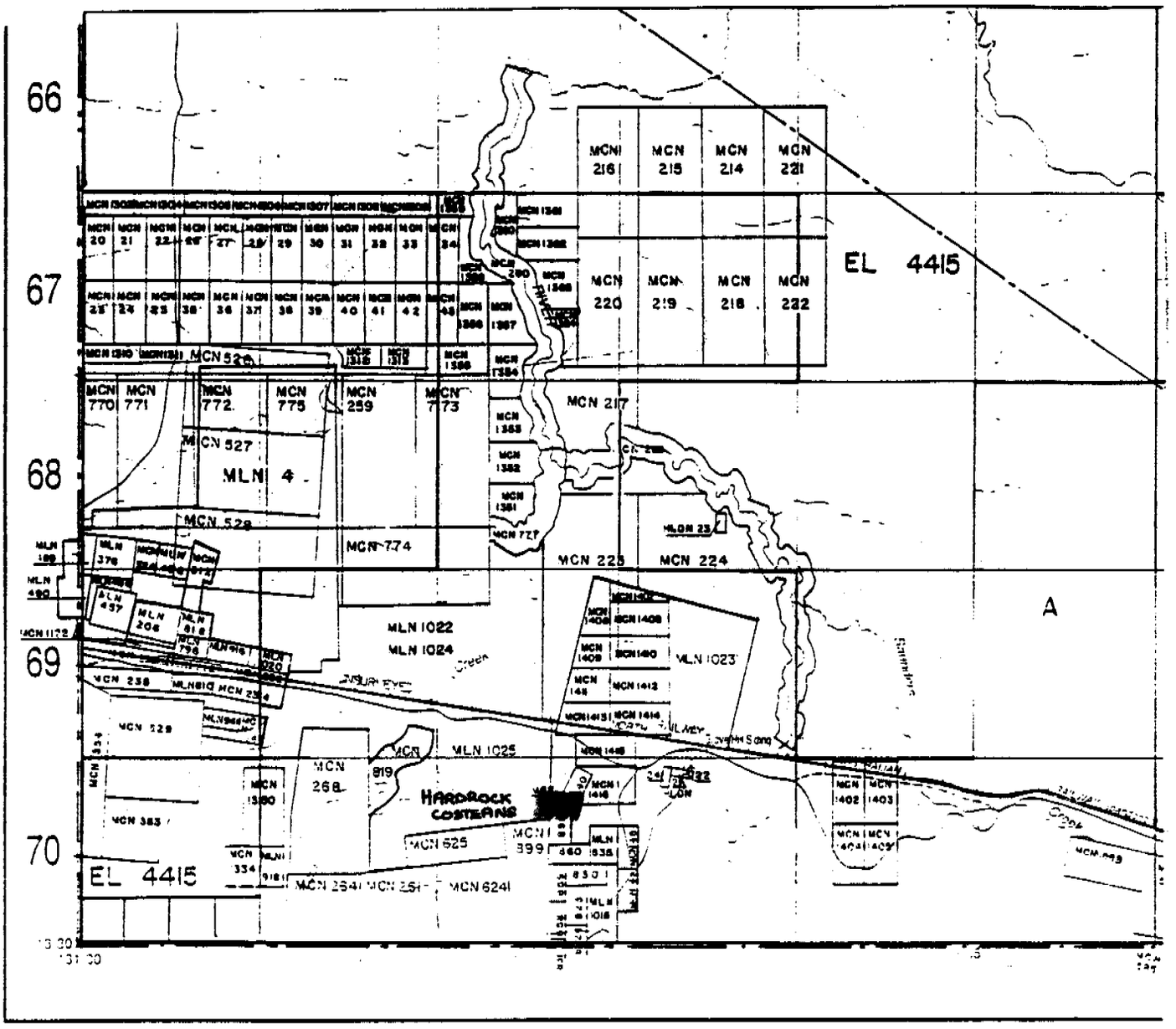
MLN 1042
MLN

HARD ROCK

The hard rock prospects were investigated by 4 costeans 50m apart and totalling 314m of trenching. All were geologically mapped with a total of 234 channel samples being collected and assayed.

Three of the costeans were on our tenement MCN 898 and one was on EL 4415.

As the three costeans on MCN 898 were of direct relevance to the exploration licence the information gained from them is included with this report.



GRATICULAR SECTION REFERENCE

FIGURE 5

Location of hardrock costeans

SCALE 1:62000

6. EXPENDITURE FOR YEAR 3

WAGES		$ 8,407.00	
CONSULTANTS:	R. LEES	$ 11,840.20	
	C. ROBINSON	$ 776.65	
J. CRAGO		$ 7,500.00	
K. DAY		$ 15,000.00	
			$43,523.85
MACHINERY EXPENSES		$ 21,130.00	
MOTOR VEHICLE EXPENSES		$ 8,000.00	
FUEL, OIL AND GREASE		$ 9,751.20	
			$38,881.20
GEOLOGICAL SUPPLIES		$ 1,400.00	
DRAFTING EXPENSES		$ 375.00	
ASSAYS		$ 3,030.00	
PREPARATION OF REPORTS		$ 2,731.00	
SUPPORT FACILITIES	MT. WELLS	$ 25,000.00	
	DARWIN	$ 40,000.00	
			$ 72,536
			$154,941.05

7. PROPOSED EXPLORATION FOR YEAR 4.

The following exploration work is proposed for the fourth year of the licence.

1) On blocks 6611 and 6612 the use of arsenic geochemistry to locate possible extensions of the Glencoe Prospect.

This will involve taking 1-2 kg samples of the transported silt fraction found in drainage lines. The sample is taken to Mt. Wells where it is dried and screened to -200 mesh. It is then assayed for the following elements: Au, Ag, As, Pb, Cu, Zn and Ni. These are our standard elements for use as gold pathfinders.

At the same time a 24 litre sample of -1.5cm alluvial gravels is taken.

This sample is panned to a heavy mineral concentrate which is then visually graded with check assays taken where appropriate.

2) On blocks 6615 and 6715 we will be using the same techniques to locate the source of a 0.11 g/t Au sample located within this area whilst inspecting the gas pipeline trench in 1985. This anomalous value is thought to come from the South Alligator Group metasediments along the northwestern margin of the Margaret Granite.

Work on Blocks 6613, 6614, 6814 and 6915 will consist of excavator pitting to further delineate the large scale low grade alluvial target that we are seeking in this area.

After delineation, at least 5 bulk samples of 2000 m3 volume will be taken from along the existing drainage lines of the Margaret River as well as the located palaeosystems.

The process of bulk sampling is the only system for an accurate and comprehensive grade evaluation for marginal ore deposits. This process is obviously much more statistically valid as the larger the sample size the more representative the result.

After removal, the sample will be transported to Territory Resources N.L. Sandy Creek treatment plant where treatment will enable the computation of the recoverable gold values in a gravity circuit. As well as the total recoverable grade, gold particle size distribution and shape are also important characteristics for the design of a successful treatment process.

Included in this years program is the rehabilitation of all existing trenches and any proposed trenches and bulk sample sites.

On block 6815 we will be locating magnetic anomalies on the ground using a ground magnetometer. After this a drilling program of 3 holes on each of the anomalies, the drill holes to be sited to penetrate areas of interest. It is proposed to use percussion drilling techniques which have proved valuable to the company on another prospect for first pass drilling.

8. PROPOSED EXPENDITURE FOR YEAR 4

It is proposed that the expenditure convenant on EL 4415 for year 4 of its life be set at $80,000.

APPENDICES

APPENDIX 1.

GEOLOGICAL SECTIONS OF ALLUVIAL PITTING PROGRAM

UNDER SEPERATE COVER

APPENDIX 2

ASSAY RESULTS OF ALLUVIAL PITTING PROGRAM

Lees & Associates Pty. Ltd.

CONSULTING GEOLOGISTS

SUMMARY OF SAMPLING RESULTS YAM CREEK/MARGARET RIVER TRAVERSES

Sample No	Traverse	Location	Depth (m)	Concentrate Weight (g)	Au in Concentrate ppm	Au Grade g/m³	Remarks
TR4001	1	50W	3.2-3.9	3.7	9.53	0.003	✓
02	1	00E	3.4-4.3	10.4	3.68	0.003	✓
03	1	50E	2.8-3.4	6.2	13.3	0.007	✓
04	1	125E	3.6-4.6	4.7	52.1	0.020	✓
05	2	00E	0.3-0.6	4.2	10.8	0.004	sand sample from narrow channel
06	2	00E	0-0.4	5.0	30.0	0.013	
07	2	50E	3.8-4.9	8.1	14.5	0.010	
08	2	50E	4.9-5.7	9.9	11.4	0.009	
09	2	100E	5.9-6.4	7.0	5.53	0.003	
10	2	100E	6.9-7.3	6.0	44.6	0.022	
11	3	50S	6.0-6.8	14.5	2.50	0.003	sand
12	3	00N	1.3-2.1	8.6	80.8	0.058)	E end of) all
13	3	00N	2.1-2.9	9.3	18.5	0.014)	pit) in
14	3	00N	2.3-3.2	9.6	837	0.670	W end of) bed pit) of) Margaret) River.
15	3	40N 20W	1.7-2.3	7.5	670	0.419	bed of Margaret River
16	3	100N	6.2-6.8	1.7	315	0.045	
17	3	150N	4.8-5.6	9.7	25.2	0.020	
18	3	200N	5.7-6.5	4.9	1.78	0.001	
19	3	200N	4.9-5.7	13.7	16.3	0.019	
20	3	150N	5.6-6.8	16.4	6.63	0.009	
21	3	250N/ 10E	1.3-2.1	10.6	11.1	0.010	
22	3	250N/ 10E	2.1-2.9	5.8	24.9	0.012	
23	3	400N	1.0-1.6	6.0	1.18	0.001	
24	4	200W	0.2-1.2	4.8	2.61	0.001	
25	4	50W	0.3-0.7	6.1	-	<0.05	sample lost during assay, estimated grade.
26	4	150W	0.7-0.9	11.2	3.97	0.004	
27	4	100W	1.4-2.2	11.5	174	0.083	24 litre sample
28	4	50W	3.4-4.0	6.8	260	0.147	
29	4	100E	5.9-6.5	8.6	6.32	0.005	

30	4	100E	5.5-6.8	3.6	51.3	0.015	
31	4	150E 100N	grab sample	16.1	145	0.049	48 litre sample
32	4	250E	5.1-6.2	6.8	183	0.104	
33	4	300E	4.8-5.0	4.6	31.2	0.012	
34	4	300E	5.3-6.2	9.9	10.5	0.009	
35	4	350E	4.6-6.7	7.7	32.3	0.021	
36	5	Pit 1	3.1-3.9	12.2	10.4	0.011	All pits
37	5	Pit 1	3.9-4.7	7.7	82.2	0.053	traverse 5
38	5	Pit 1	4.7-6.0	8.7	54.5	0.040	located in bed
39	5	Pit 2	2.2-4.2	6.9	80.7	0.046	of Margaret
40	5	Pit 2	4.2-6.0	5.4	14.6	0.007	River in order
41	5	Pit 2	6.0-6.2	17.4	13.6	0.020	to test lower
42	5	Pit 3	1.0-4.5	6.2	30.0	0.016	sections of wash.
43	5	Pit 3	4.5-5.0	8.8	70.6	0.052	Samples from Pits
44	5	Pit 4	4.0-6.0	10.6	55.8	0.049	2 to 4 taken with
45	5	Pit 4	6.0-6.3	7.6	201	0.127	excavator bucket
47	6	00E	4.1-5.2	6.0	22.7	0.011	because of caving
48	6	50W	3.7-4.0	6.4	37.6	0.020	ground.
49	6	50W	4.0-4.7	10.4	155	0.134	
50	6	50W	4.7-5.5	6.8	111	0.063	
51	6	100W	2.7-3.5	5.8	472	0.228	
52	6	100W	3.5-4.2	15.2	87.1	0.110	
53	6	150W	3.6-4.0	4.7	809	0.317	
54	6	300W	4.5-4.8	2.9	46.1	0.011	
55	7	00E	3.5-4.1	7.7	21.2	0.014.	
56	7	00E	4.1-4.7	5.5	121	0.055	
57	7	00E	4.7-5.6	3.6	39.1	0.012	
58	7	50W	4.5-5.1	19.2	12.5	0.020	
59	7	50W	5.1-5.6	7.7	97.0	0.062	
60	7	50W	5.6-6.2	13.4	101	0.113	
61	7	100W	3.0-3.4	9.5	14.4	0.011	
62	7	100W	3.4-4.1	11.2	20.3	0.019	
63	7	100W	4.1-4.9	6.3	279	0.146	
64	7	150W	3.8-4.6	6.5	34.4	0.019	
65	7	150W	4.6-5.4	4.9	24.5	0.010	
66	7	150W	5.4-6.4	3.2	5.5	0.001	
67	7	200W	4.6-5.1	14.8	15.8	0.019	
68	7	200W	5.6-6.1	11.1	778	0.720	
69	7	250W	4.0-5.0	5.2	14.8	0.006	

APPENDIX 3

ASSAY RESULTS OF HARDROCK COSTEANING PROGRAM

AUSTRALIAN ASSAY LABORATORIES (Pine Creek) PTY. LTD.

PINE CREEK: Ward Street, PINE CREEK 5782
PO Box 41, PINE CREEK 5782
Ph (089) 76 1262 or 76 1261
Tlx 85928

analysis report for

TERRITORY RESOURCES N.L.

CODE: PC 03499 [illegible] 1986

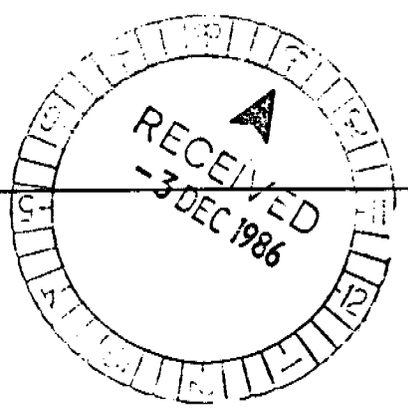
Client reference: 627

Copies to: W. JETTNER

SAMPLES: received 29/10/1986 TYPE PREPARATION CODE

ANALYSIS	Code	Quality Parameter	Detection Limit	Units
Au	FA50/D610	Acc. ± 15%	0.01	ppm
Au(R)	: : :	: : :	0.01	ppm
Bi	AAS/D100	Prec. ± 10%	1	ppm
Pb	AAS/D100	Prec. ± 10%	5	ppm
Cu	AAS/D100	Prec. ± 10%	2	ppm
Zn	AAS/D100	Prec. ± 10%	2	ppm
Ag	AAS/D100	Prec. ± 10%	1	ppm
Fe	AAS/D100	Prec. ± 10%	5	ppm
As	AAS/D100	Prec. ± 10%	2	ppm

RECEIVED -3 DEC 1986



SENIOR CHEMIST: ALLEN SHARMAN

AUSTRALIAN ASSAY LABORATORIES (Pine Creek) PTY. LTD.

CODE: PC 03499 Page 1 of 12

Sample	Au	Au(R)						
TR 1001	0.51		--	--	--	--	--	--
R 1002	0.58		--	--	--	--	--	--
TR 1003	0.25		--	--	--	--	--	--
TR 1004	0.08		--	--	--	--	--	--
R 1005	0.22		--	--	--	--	--	--
TR 1006	0.10		--	--	--	--	--	--
R 1007	3.90	3.64	--	--	--	--	--	--
TR 1008	0.39	0.38	--	--	--	--	--	--
TR 1009	0.15	0.15	--	--	--	--	--	--
R 1010	0.10		--	--	--	--	--	--
TR 1011	0.05		--	--	--	--	--	--
R 1012	0.07		--	--	--	--	--	--
TR 1013	0.12		--	--	--	--	--	--
TR 1014	0.17		--	--	--	--	--	--
R 1015	0.08	0.10	--	--	--	--	--	--
TR 1017	0.10		--	--	--	--	--	--
R 1018	0.27		--	--	--	--	--	--
TR 1019	0.17		--	--	--	--	--	--
R 1020	0.37		--	--	--	--	--	--
R 1021	0.08		--	--	--	--	--	--
TR 1022	0.11		--	--	--	--	--	--
R 1023	0.06		--	--	--	--	--	--
TR 1024	0.78		--	--	--	--	--	--
R 1025	0.18		--	--	--	--	--	--
R 1031	0.13		--	--	--	--	--	--

Data in ppm unless otherwise stated.

CODE: PC 03499 Page 2 of 12

Sample	As
TR 1001	--
TR 1002	--
TR 1003	--
TR 1004	--
TR 1005	--
TR 1006	--
TR 1007	--
TR 1008	--
TR 1009	--
TR 1010	--
TR 1011	--
TR 1012	--
TR 1013	--
TR 1014	--
TR 1015	--
TR 1017	--
TR 1018	--
TR 1019	--
TR 1020	--
TR 1021	--
TR 1022	--
TR 1023	--
TR 1024	--
TR 1025	--
TR 1031	--

Data in ppm unless otherwise stated.

CODE: PC 03499

Sample		Au	Au(R)	Bi	Pb				Fe
TR	1033	0.09		--	--	--	--	--	--
TR	1044	0.09	0.07	--	--	--	--	--	--
TR	1057	3.64		--	--	--	--	--	--
TR	1065	2.81		--	--	--	--	--	--
TR	1074	0.31	0.28	--	--	--	--	--	--
TR	1075	10.08	17.70	--	--	--	--	--	--
TR	1076	1.39		--	--	--	--	--	--
TR	1077	0.13	0.24	--	--	--	--	--	--
TR	1078	0.25		--	--	--	--	--	--
TR	1079	10.21	12.60	--	--	--	--	--	--
TR	1080	3.12		--	--	--	--	--	--
TR	1081	0.25		--	--	--	--	--	--
TR	1082	0.14		--	--	--	--	--	--
TR	1083	0.20		--	--	--	--	--	--
TR	1084	0.60		--	--	--	--	--	--
TR	1085	0.30		--	--	--	--	--	--
TR	1086	0.12		--	--	--	--	--	--
TR	1087	2.42		--	--	--	--	--	--
TR	1088	0.91		--	--	--	--	--	--
TR	1089	0.99	1.05	--	--	--	--	--	--
TR	1090	2.75	2.66	--	--	--	--	--	--
TR	1091	0.55		--	--	--	--	--	--
TR	1092	0.09		--	--	--	--	--	--
TR	1093	0.18		--	--	--	--	--	--
TR	1094	0.51		--	--	--	--	--	--

Data in ppm unless otherwise stated.

CODE: PC 03499 Page 4 of 12

Sample	Au ppb
TR 1033	--
R 1044	--
R 1057	--
TR 1065	--
R 1074	--
TR 1075	--
R 1076	--
R 1077	--
TR 1078	--
R 1079	--
TR 1080	--
R 1081	--
R 1082	--
TR 1083	--
R 1084	--
TR 1085	--
R 1086	--
R 1087	--
TR 1088	--
R 1089	--
TR 1090	--
R 1091	--
R 1092	--
TR 1093	--
R 1094	--

Data in ppm unless otherwise stated.

Sample		Au	Au(R)						
TR	1102	0.75		--	--	--	--	--	--
TR	1103	0.45		--	--	--	--	--	--
TR	1104	1.31		--	--	--	--	--	--
TR	1105	0.54		--	--	--	--	--	--
TR	1107	0.41		--	--	--	--	--	--
TR	1110	0.53		--	--	--	--	--	--
TR	1111	1.27	2.12	--	--	--	--	--	--
TR	1112	1.42		--	--	--	--	--	--
TR	1115	0.37		--	--	--	--	--	--
TR	1116	0.35	0.42	--	--	--	--	--	--
TR	1118	3.17	3.22	--	--	--	--	--	--
TR	1119	0.86	0.80	--	--	--	--	--	--
TR	1120	3.64	4.23	--	--	--	--	--	--
TR	1121	0.44		--	--	--	--	--	--
TR	1122	0.21		--	--	--	--	--	--
TR	1125	0.54	0.35	--	--	--	--	--	--
TR	1128	0.66		--	--	--	--	--	--
TR	1129	1.07		--	--	--	--	--	--
TR	1131	0.50		--	--	--	--	--	--
TR	1132	0.18		--	--	--	--	--	--
TR	1133	1.33	1.59	--	--	--	--	--	--
TR	1134	0.13		--	--	--	--	--	--
TR	1135	0.09		--	--	--	--	--	--
TR	1136	0.65		--	--	--	--	--	--
TR	1139	0.70		--	--	--	--	--	--

Data in ppm unless otherwise stated.

Sample	
TR	1102 --
TR	1103 --
TR	1104 --
TR	1105 --
TR	1107 --
TR	1110 --
TR	1111 --
TR	1112 --
TR	1115 --
TR	1116 --
TR	1118 --
TR	1119 --
TR	1120 --
TR	1121 --
TR	1122 --
TR	1125 --
TR	1128 --
TR	1129 --
TR	1131 --
TR	1132 --
TR	1133 --
TR	1134 --
TR	1135 --
TR	1136 --
TR	1139 --

CODE: PC 03499

Sample		Au	Au1						
TR	1140	0.35		--	--	--	--	--	--
TR	1142	0.27		--	--	--	--	--	--
TR	1144	0.16		--	--	--	--	--	--
TR	1145	1.30	1.53	--	--	--	--	--	--
TR	1146	0.20		--	--	--	--	--	--
TR	1147	0.15	0.16	--	--	--	--	--	--
TR	1148	0.10		--	--	--	--	--	--
TR	1149	0.95		--	--	--	--	--	--
TR	1150	0.13		--	--	--	--	--	--
TR	1151	0.09		--	--	--	--	--	--
TR	1152	0.10		--	--	--	--	--	--
TR	1153	0.20		--	--	--	--	--	--
TR	1154	0.12		--	--	--	--	--	--
TR	1155	0.15		--	--	--	--	--	--
TR	1156	0.08		--	--	--	--	--	--
TR	1157	0.12		10	68	704	52	<1	2.53%
TR	1158	1.01		10	53	378	44	<1	4.07%
TR	1159	0.44	0.59	10	27	197	37	<1	1.80%
TR	1160	0.08		<1	43	310	47	<1	3.69%
TR	1214	0.39		--	--	--	--	--	--
TR	1215	0.45		--	--	--	--	--	--
TR	1216	0.13		--	--	--	--	--	--
TR	1217	0.35		20	26	211	6	<1	3.87%
TR	1218	3.84	3.60	40	48	397	9	<1	6.85%
TR	1219	1.38		20	36	232	7	<1	4.53%

Data in ppm unless otherwise stated.

Sample		
TR	1140	--
TR	1142	--
TR	1144	--
TR	1145	--
TR	1146	--
TR	1147	--
TR	1148	--
TR	1149	--
TR	1150	--
TR	1151	--
TR	1152	--
TR	1153	--
TR	1154	--
TR	1155	--
TR	1156	--
TR	1157	640
TR	1158	1310
TR	1159	560
TR	1160	1240
TR	1214	--
TR	1215	--
TR	1216	--
TR	1217	3600
TR	1218	5800
TR	1219	3900

Data in ppm unless otherwise stated.

Sample									
TR	1220	0.81		10	37	154	10	<1	2.87%
TR	1222	0.23		--	--	--	--	--	--
TR	1223	0.47		--	--	--	--	--	--
TR	1224	0.18	0.20	--	--	--	--	--	--
TR	1225	0.72		--	--	--	--	--	--
TR	1226	7.47	7.81	--	--	--	--	--	--
TR	1227	0.95		--	--	--	--	--	--
TR	1228	0.19		--	--	--	--	--	--
TR	1229	0.29		--	--	--	--	--	--
TR	1230	0.06		--	--	--	--	--	--
TR	1231	0.18	0.06	--	--	--	--	--	--
TR	1232	0.59		--	--	--	--	--	--

Data in ppm unless otherwise stated.

CODE: PC 03499

TR	1220	2030
TR	1222	--
TR	1223	--
TR	1224	--
TR	1225	--
TR	1226	--
TR	1227	--
TR	1228	--
TR	1229	--
TR	1230	--
TR	1231	--
TR	1232	--

Data in ppm unless otherwise stated.

Sample	Au(R)	Hg	Fe
1221	0.21		

Data in ppm unless otherwise stated.

Sample	As
1221	

Data in ppm unless otherwise stated.

AUSTRALIAN ASSAY LABORATORIES (Pine Creek)

PINE CREEK: Ward Street, PINE CREEK 5782
PO Box 41, PINE CREEK 5782
Ph (089) 76 1262 or 76 1261
Tlx 85928

analysis report for

TERRITORY RESOURCES N.L.

ORDER: PC 03520 DATE: 7/11/1986

Client reference: 628

Copies to: W. JETTNER

SAMPLES: received 31/10/1986

TYPE	PREPARATION CODE

ANALYSIS	Code	Quality Parameter	Detection Limit	Units
Au	FA50/D610	Acc. ± 15%	0.01	ppm
Au(R)	: : :	: : :	0.01	ppm
Bi	AAS/D100	Prec. ± 10%	1	ppm
Pb	AAS/D100	Prec. ± 10%	5	ppm
Cu	AAS/D100	Prec. ± 10%	2	ppm
Zn	AAS/D100	Prec. ± 10%	2	ppm
Ag	AAS/D100	Prec. ± 10%	1	ppm
Fe	AAS/D100	Prec. ± 10%	5	ppm
As	AAS/D100	Prec. ± 10%	2	ppm

RECEIVED 3 DEC 1986

SENIOR CHEMIST: ALLEN SHARMAN

AUSTRALIAN ASSAY LABORATORIES (Pine Creek) PTY. LTD.

CODE: PC 03530

TR	1095	0.19		--	--	--	--	--	--
TR	1096	1.58		--	--	--	--	--	--
TR	1097	0.08	0.23	--	--	--	--	--	--
TR	1098	2.10		--	--	--	--	--	--
TR	1099	0.24	0.15	--	--	--	--	--	--
TR	1100	0.27		--	--	--	--	--	--
TR	1101	0.14		--	--	--	--	--	--
TR	1106	0.59		--	--	--	--	--	--
TR	1108	0.37		--	--	--	--	--	--
TR	1109	0.19		--	--	--	--	--	--
TR	1113	1.75		--	--	--	--	--	--
TR	1114	0.40	0.32	--	--	--	--	--	--
TR	1117	7.33	7.53	--	--	--	--	--	--
TR	1123	3.32		--	--	--	--	--	--
TR	1124	0.35	0.45	--	--	--	--	--	--
TR	1126	0.28		--	--	--	--	--	--
TR	1127	0.19		--	--	--	--	--	--
TR	1130	0.54		--	--	--	--	--	--
TR	1137	2.14	1.69	--	--	--	--	--	--
TR	1138	0.22		--	--	--	--	--	--
TR	1141	0.25		--	--	--	--	--	--
TR	1143	0.33		--	--	--	--	--	--
TR	1161	0.08		<1	23	111	22	<1	1.18%
TR	1162	0.77	0.95	30	29	365	36	<1	5.34%
TR	1163	0.15		10	21	146	21	<1	1.71%

Data in ppm unless otherwise stated.

TR	1095	--
TR	1096	--
TR	1097	--
TR	1098	--
TR	1099	--
TR	1100	--
TR	1101	--
TR	1106	--
TR	1108	--
TR	1109	--
TR	1113	--
TR	1114	--
TR	1117	--
TR	1123	--
TR	1124	--
TR	1126	--
TR	1127	--
TR	1130	--
TR	1137	--
TR	1138	--
TR	1141	--
TR	1143	--
TR	1161	370
TR	1162	2300
TR	1163	560

R	1164	0.06		<1	23	352	97	<1	5.92%
TR	1165	0.10		10	30	260	76	<1	5.37%
R	1166	0.08		20	31	347	39	<1	5.15%
TR	1167	0.04		20	19	126	16	<1	1.75%
TR	1168	0.12		--	--	--	--	--	--
R	1169	0.10		--	--	--	--	--	--
TR	1170	1.42		--	--	--	--	--	--
R	1171	0.61		--	--	--	--	--	--
TR	1172	0.18		--	--	--	--	--	--
TR	1173	1.28	1.65	--	--	--	--	--	--
TR	1174	0.13		--	--	--	--	--	--
TR	1175	0.21		--	--	--	--	--	--
TR	1176	0.60		--	--	--	--	--	--
TR	1177	0.31	0.29	--	--	--	--	--	--
TR	1178	1.18		--	--	--	--	--	--
TR	1179	0.67		--	--	--	--	--	--
TR	1180	0.91		--	--	--	--	--	--
TR	1181	<< Sample not received >>							
TR	1182	0.73		--	--	--	--	--	--
TR	1183	0.21		--	--	--	--	--	--
TR	1184	0.31		--	--	--	--	--	--
TR	1185	0.48		--	--	--	--	--	--
TR	1186	0.23		--	--	--	--	--	--
TR	1187	0.49		--	--	--	--	--	--
TR	1188	3.14	3.37	--	--	--	--	--	--

Data in ppm unless otherwise stated.

TR	1164	1120
TR	1165	770
TR	1166	1220
TR	1167	250
TR	1168	--
TR	1169	--
TR	1170	--
TR	1171	--
TR	1172	--
TR	1173	--
TR	1174	--
TR	1175	--
TR	1176	--
TR	1177	--
TR	1178	--
TR	1179	--
TR	1180	--
TR	1181	<< Sample not received >>
TR	1182	--
TR	1183	--
TR	1184	--
TR	1185	--
TR	1186	--
TR	1187	--
TR	1188	--

R	1189	0.44		--	--	--	--	--	--
TR	1190	0.58		--	--	--	--	--	--
TR	1191	0.48		--	--	--	--	--	--
TR	1192	0.11		--	--	--	--	--	--
TR	1193	1.60		--	--	--	--	--	--
TR	1194	0.70	0.73	--	--	--	--	--	--
TR	1195	0.37		--	--	--	--	--	--
TR	1196	0.02	0.11	--	--	--	--	--	--
TR	1197	0.04		--	--	--	--	--	--
TR	1198	0.18		--	--	--	--	--	--
TR	1199	0.19		--	--	--	--	--	--
TR	1200	0.39		--	--	--	--	--	--
TR	1201	0.12		--	--	--	--	--	--
TR	1202	0.22		--	--	--	--	--	--
TR	1203	0.13		--	--	--	--	--	--
R	1204	0.60		--	--	--	--	--	--
R	1205	0.13		--	--	--	--	--	--
R	1206	0.17		--	--	--	--	--	--
R	1207	0.05		--	--	--	--	--	--
	1208	0.09	0.08	--	--	--	--	--	--
	1209	0.07		--	--	--	--	--	--
	1210	0.13		--	--	--	--	--	--
	1211	0.04	0.03	--	--	--	--	--	--
	1212	0.08		--	--	--	--	--	--
	1213	0.05		--	--	--	--	--	--

Data in ppm unless otherwise stated.

TR	1189	--
TR	1190	--
TR	1191	--
TR	1192	--
TR	1193	--
TR	1194	--
TR	1195	--
TR	1196	--
TR	1197	--
TR	1198	--
TR	1199	--
TR	1200	--
TR	1201	--
TR	1202	--
TR	1203	--
TR	1204	--
TR	1205	--
TR	1206	--
TR	1207	--
TR	1208	--
TR	1209	--
TR	1210	--
TR	1211	--
TR	1212	--
TR	1213	--

AUSTRALIAN ASSAY LABORATORIES
GROUP

PINE CREEK: Ward Street, PINE CREEK 5782
PO Box 41, PINE CREEK 5782
Ph (089) 76 1262 or 76 1261
Tlx 85928

analysis report for

TERRITORY RESOURCES N.L.

CODE: PC 03760 **DATE: 03/12/1986**

Client reference: 639

Copies to: ANDREW JETTNER

SAMPLES: received 18/11/1986 TYPE PREPARATION CODE

ANALYSIS	Code	Quality Parameter	Detection Limit	Units
Au	FA50/D610	Acc. ± 15%	0.01	ppm
Au(R)	: : :	: : :	0.01	ppm

SENIOR CHEMIST: ALLEN SHARMAN

AUSTRALIAN ASSAY LABORATORIES

CODE: PC 03760

Sample		Au	Au(R)
TR	1181	0.59	
TR	1233	15.20	9.52
TR	1234	2.86	3.06
TR	1235	1.05	
TR	1236	2.55	2.19
TR	1237	0.34	0.30
TR	1238	0.17	

Data in ppm unless otherwise stated.