GEOPEKO

A DIVISION OF PEKO WALLSEND OPERATIONS LIMITED

EL 43/89 HOLDER RIVULET

REPORT ON

EXPLORATION ACTIVITY

DECEMBER 1990 TO NOVEMBER 1991

Ian Mathison
December, 1991

T263

Distribution: Geopeko Parkes
Geopeko Devonport
DMMR Hobart

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1.0 INTRODUCTION

1.1 Location and Access (Fig. 1)

EL 43/89, Holder Rivulet, is located in NW Tasmania approximately 25 km to the south of Port Latta.

Access within the EL is very good and is provided by a network of unsealed logging roads and the Savage River Pipe Line Road. Secondary access is provided by 4WD and walking tracks. The Arthur River cuts across the north west and north east corners of the EL and is navigable by raft during the summer months.

1.2 Land Usage and Tenure

EL 43/89 of 233 km^2 was granted to Peko Exploration Ltd in January 1990. The EL was reduced to 83 km^2 in December 1990.

The EL consists predominantly of State Forest with approximately 1 km^2 of Private Property and 6 km^2 of Uncommitted Crown Land. The EL includes part of the Australian Heritage Commission Act Registered Entry, Savage River.

Large tracts of wet eucalypt forest within the State Forest have been intensively logged over the last 10 years. These areas cover most of the EL and now either lie devoid of vegetation or support thick regrowth.

Buttongrass-tea tree plains stretch across the middle section of the EL: the Pithouse, Holder and Neasy Plains.

1.3 Regional Geology

EL 43/89 lies within the Rocky Cape Region of NW Tasmania. The most interesting rocks in the area are those of the Precambrian Arthur Lineament. The Arthur Lineament is a north-east trending metamorphic belt consisting of highly deformed sediments, basic volcanics and dolomite. To the west of this belt lies the Rocky Cape Group, a thick shallow marine shelf sequence. The Rocky Cape Group contains Precambrian dolerite/gabbro dykes which have been emplaced into north-north west trending faults.

Previous explorers have assigned a sequence of interbedded sandstone and siltstone with associated basic volcanics and carbonates lying just west of the intensely deformed rocks of the Arthur Lineament to the Neasy Formation. Some workers question the validity of this formation. However, aeromagnetic maps show that the rocks of the Neasy Formation have a distinctive magnetic character. This unit has been retained for the purposes of this report.

The Precambrian rocks along the eastern edge of the area are in places overlain by Permian fluvio-glacial sediments and/or Tertiary basalt.

1.4 Known Mineral Deposits/Occurrences

There are a number of metallic mineral occurrences adjacent to the western, eastern and southern EL boundaries of Geopeko's Arthur River Project. (Green et Al 1988).

The deposits range from small, relatively insignificant workings, e.g. Victory Mine, Atlas Leases to large world class ore bodies e.g. Mt Bischoff, Savage River. In most cases, extensions of the prospective host formations can be continued into Geopeko's Arthur River EL's.

1.5 Previous Exploration

Geopeko report T247 (Virgoe and Mathison, 1990), summarizes previous exploration and details the results of Geopeko's 1990 exploration.

2.0 EXPLORATION ACTIVITY

2.1 Aims

The aim of Geopeko's exploration of EL 45/89 is to use water sampling, rock chip sampling, geological mapping and the resultant previous exploration to delineate prospective and geochemically anomalous areas within the EL. Areas worthy of further investigation will be followed up with more detailed exploration.

2.2 Targets

The results of Geopeko's 1990 exploration delineated the outcrop of the Neasy Formation as an area of anomalous gold in water. This was supported by the distinct magnetic character of the anomalous area, associated elevated base metal in water values and known alluvial gold mineralization at Folly Hill and in the terraces of the Arthur River. This appeared a highly prospective area.

2.3 Work Completed

Check Sampling and Analysis

Repeat water samples were collected from selected sites which had reported anomalous Au in water values for the first pass. These samples were collected in October after a month of relatively rain free Spring weather. Stream levels were similar to Summer levels when the first pass was completed. In addition, selected samples were also checked for Au by the following methods:

* *Becquerel Laboratories.*
Au from 100 ml of water was adsorbed onto activated charcoal. Au was then determined by neutron activation analysis. This technique was applied to selected old samples and the October repeats.

* *Analabs Melbourne.*
A 125 ml water sample was treated with cyanide and the gold and cyanide extracted using a small amount of MIBK. Au was then determined by graphite furnace AAS. This technique was applied to selected old samples.

Rock Chip Sampling

Streams cutting across the anomalous area were rock chip sampled at 50 m spacings. Supplementary samples were collected from suitable road traverses. A total of 186 rock chip samples was collected.

For most samples, small chips were collected at half to one metre intervals and composited to produce a 50 m sample weighing between two and four kilograms. Samples were forwarded to Analabs, Burnie, for analysis. Samples were crushed to -1 mm before splitting for analysis. Cu, Pb, Zn and Ni were determined by AAS after perchloric acid digestion (Method GA101). Au was determined by fire assay with AAS finish (Method GG313).

Geological Mapping

Rock chip traverses were mapped in detail.

2.4 Results Received

Water Sampling
Repeat Analysis (NB-refers to whole project- not only EL 44/89)

Neutron activation analysis of selected samples provided some support for the DMMR's results. NAA results were generally lower and several anomalous DMMR results were not supported by NAA. However, both the DMMR and NAA methods gave positive responses for known mineralized areas. This was known by September 1990. NAA results for the October repeat samples were received in February 1991. Only two samples out of 16 reported anomalous gold. Both samples drain areas outside EL 43/89.

Analabs results were received in October 1990. Results were very disappointing with most results, both Analabs and new DMMR, failing to support the initial DMMR results. Samples which reported anomalous Au in repeat sampling lie outside EL 43/89. However, the Analabs method was a new technique. No orientation surveys using this method had been attempted.

2.5 Rock Chip Sampling

Results of rock chip sampling are summarized below. Only two samples collected from Rachel Creek (>300 ppm Pb) merit follow up. Weakly elevated Cu and Zn in Neasy Creek are associated with a dolerite dyke.

Area	No. Samples	Range		Comments
Cann Ck	25	Cu	20-45	
		Pb	<5-45	
		Zn	50-100	
		Ni	5-80	
		Au	<0.005	
Rachel Ck	13	Cu	15-65	
		Pb	15-350	2>300 ppm
		Zn	40-105	
		Ni	5-15	
		Au	<0.005	
Neasy Ck	136	Cu	<5-70	1 dolerite >50
		Pb	<5-35	
		Zn	15-120	1 dolerite >100
		Ni	<5-20	
		Au	<0.005	
Holder Rd	2	Cu	25-35	
		Pb	<5	
		Zn	<5-20	
		Ni	<5	
		Au	<0.005	

2.5 Geology

Rock chip samples were predominantly of siltstone and minor interbedded sandstone. Several thin dolerite dykes were mapped. Except for minor pyritic pug on Rachel Creek, no indications of mineralization were noted.

2.6 Postponement of Exploration

The DMMR's technique obviously has major problems. Due to these problems the decision was made in December 1990 to postpone further exploration until either these problems were corrected or an alternative method of water analysis could be developed and tested. An exemption from statutory expenditure commitments was requested for 1991. This request was granted.

3.0 DISCUSSION AND CONCLUSIONS

The detailed exploration of Neasy Creek, its tributaries and the adjacent tracks failed to detect any indications of significant base metal or gold mineralization.

Two anomalous Pb values in rock chip samples from Rachel Creek require follow up. Access into this area is difficult. Investigation of this area by an effective regional technique should precede more detailed exploration.

4.0 RECOMMENDATIONS

* No further regional exploration should be attempted in this area until an effective method of water analysis is developed.

* Follow up of Rachel Creek should be limited to check sampling of the anomalous sample sites.

5.0 ENVIRONMENTAL DISTURBANCE AND REHABILITATION

Exploration conducted by Geopeko during 1991 has caused no environmental disturbance. Semi permanent samples markers left at sample sites are considered to be valuable reference points for future exploration. No rehabilitation has been necessary.

REFERENCES

GREEN, G.R., BOTTRILL, R.S., BACON, C.A., TURNER, N.J. (1998) - Mineral Deposits and Metallogenic Map of Tasmania 1:50 000. Tas. DMMR

MATHISON, I.J., VIRGOE, K. (1990) - Rapid River - Report on Exploration Activity - January 1990 to November 1990. Unpublished Geopeko report T263.

APPENDIX 1

GEOCHEMISTRY - ANALYTICAL RESULTS

ANALABS

A Division of Inchcape Inspection and Testing Services Australia Pty. Ltd.

108010

Analabs - A Division of Inchcape Inspection & Testing Services

Phone (004) 31 6837 | 14 Thirkell St. Cooee Tas 7320 | Fax No. (004) 31 6896

ANALYTICAL REPORT No. 106480.60.07572

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

INVOICE TO:

Geopeko
P.O. Box 180

Rosebery Tas 7470

ORDER No.	PROJECT
30066	Arthur

DATE RECEIVED	RESULTS REQUIRED
03/12/90	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
1	19/12/90	1	16

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
20244/47,20395/400,21653/58	RC Prep: GP005,GP009,GP016	Cu,Pb,Zn,Ni/6A101
20244/47,20395/400,21653/58	RC	Au,Au(R),Au(S)/6B313,Au/RAW,Au/Wt

REMARKS

RESULTS TO

Mr Ian Mathison
Geopeko
P.O. Box 180

Rosebery Tas 7470

RESULTS TO

RESULTS TO

AUTHORISED OFFICER

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	106480.60.07584	24/12/90	002437	2 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ni	Au	Au(R)	Au(S)		
1	21504	30	5	100	50	<0.005	--	--		
2	21505	50	<5	60	15	<0.005	--	--	"	
3	21506	30	<5	70	20	<0.005	--	--	"	
4	21507	25	<5	50	5	<0.005	--	<0.005	"	
5	21508	50	<5	70	35	<0.005	--	--	"	
6	21509	35	<5	55	35	<0.005	--	--	"	
7	21510	30	5	60	15	<0.005	--	--	"	
8	21511	40	5	60	20	<0.005	--	--	"	
9	21512	25	5	55	10	<0.005	--	--	"	
10	21513	20	5	45	5	<0.005	--	--	"	43/89
5	20395	20	35	40	10	<0.005		43/89	"	"
6	20396	30	40	65	20	<0.005		"		
7	20397	25	45	60	20	<0.005		"		
8	20398	20	40	60	20	<0.005		"		
9	20399	15	35	50	15	<0.005		"	"	"
10	20400	35	45	70	45	<0.005		"	"	"
11	21653	20	35	40	5	<0.005		43/89	"	"
12	21654	10	35	30	<5	<0.005				
13	21655	5	35	50	10	<0.005				
14	21656	5	35	50	5	<0.005				
15	21657	20	45	75	20	<0.005				
16	21658	20	40	55	5	<0.005				
23	DETECTION	5	5	5	5	0.005				
24	UNITS	ppm	ppm	ppm	ppm	ppm				
25	METHOD	GA101	GA101	GA101	GA101	GG313				

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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Analabs - A Division of Inchcape Inspection & Testing Services

Phone (004) 31 6837 | 14 Thirkell St. Cooee Tas 7320 | Fax No. (004) 31 8896

ANALYTICAL REPORT No. 106480.60.07557

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

INVOICE TO:

Geopeko
P.O. Box 180

Rosebery Tas 7470

ORDER No.	PROJECT
50065	Arthur

DATE RECEIVED	RESULTS REQUIRED
29/11/90	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
8	18/12/90	1	177

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
Various	RC Prep: 6P005,6P009,6P016	Cu,Pb,Zn,Ni/6A101
Various	RC	Au,Au(R),Au(S)/6B313,Au/RAW,Au/Wt

REMARKS

RESULTS TO

Mr Ian Mathison
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RESULTS TO

RESULTS TO

AUTHORISED OFFICER

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	106480.60.07557	18/12/90	50065	1 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ni	Au	Au(R)			
1	20249	25	20	55	15	<0.005	--			
2	20250	30	15	60	40	<0.005	--			
3	20251	30	20	50	15	<0.005	--			
4	20252	35	15	40	10	<0.005	--			
5	20253	35	315	40	15	<0.005	--			
6	20254	15	15	60	15	<0.005	--			
7	20255	25	15	45	15	<0.005	--			
8	20256	15	15	35	10	<0.005	--			
9	20257	25	20	60	10	<0.005	--			
10	20258	25	35	55	5	<0.005	--			
11	20259	25	25	55	10	<0.005	--			
12	20260	65	15	105	60	<0.005	<0.005			
13	20261	35	350	25	20	<0.005	--			
14	20323	15	5	30	5	<0.005	--			
15	20324	15	10	30	<5	<0.005	--			
16	20325	15	10	30	<5	<0.005	--			
17	20326	10	15	30	<5	<0.005	--			
18	20327	10	10	30	20	<0.005	--			
19	20328	15	10	35	<5	<0.005	--			
20	20329	10	5	25	<5	<0.005	--			
21	20330	20	5	35	10	<0.005	--			
22	20331	15	5	25	15	<0.005	<0.005			
23	20332	10	<5	20	10	<0.005	--			
24	20333	10	5	15	5	<0.005	--			
25	20334	10	5	15	5	<0.005	--			

Results in ppm unless otherwise specified
T = element present but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	106480.60.07557	18/12/90	50065	2 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ni	Au	Au(R)			
1	20335	10	5	20	5	<0.005	--			
2	20336	15	5	40	20	<0.005	--			
3	20337	15	5	35	15	<0.005	--			
4	20338	15	5	20	<5	<0.005	--			
5	20339	10	5	20	<5	<0.005	--			
6	20340	10	5	20	<5	<0.005	--			
7	20341	10	5	20	<5	<0.005	--			
8	20342	10	5	20	<5	<0.005	--			
9	20343	15	5	55	<5	<0.005	--			
10	20344	10	5	25	5	<0.005	--			
11	20345	10	<5	25	5	<0.005	--			
12	20346	10	<5	25	<5	<0.005	--			
13	20347	10	<5	30	<5	<0.005	<0.005			
14	20348	10	5	15	<5	<0.005	--			
15	20349	10	<5	10	<5	<0.005	--			
16	20350	10	<5	20	<5	<0.005	--			
17	20351	10	10	30	<5	<0.005	--			
18	20352	15	5	30	<5	<0.005	--			
19	20353	20	10	40	10	<0.005	--			
20	20354	15	11	30	5	<0.005	--			
21	20355	10	5	30	15	<0.005	--			
22	20356	10	<5	20	15	<0.005	--			
23	20357	10	<5	15	15	<0.005	<0.005			
24	20358	10	<5	15	15	<0.005	--			
25	20359	5	<5	25	15	<0.005	--			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	106480.60.07557	18/12/90	50065	3 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ni	Au	Au(R)			
1	20360	10	<5	25	10	<0.005	--			
2	20361	15	<5	25	10	<0.005	--			
3	20362	10	<5	25	15	<0.005	--			
4	20363	10	<5	25	15	<0.005	--			
5	20364	15	<5	25	10	<0.005	--			
6	20365	15	<5	20	10	<0.005	--			
7	20366	10	<5	25	5	<0.005	--			
8	20367	10	<5	30	10	<0.005	--			
9	20368	10	<5	30	10	<0.005	--			
10	20369	10	<5	30	15	<0.005	--			
11	20370	10	<5	30	15	<0.005	--			
12	20371	10	<5	15	5	<0.005	--			
13	20372	10	<5	25	5	<0.005	--			
14	20373	10	10	20	10	<0.005	0.010			
15	20374	10	<5	30	20	<0.005	--		43/89	Trace Mo?
11	21601	15	<5	40	15	<0.005	--		43/89	Trace Mo?
12	21602	15	5	40	5	0.010	--			
13	21603	15	<5	40	5	0.010	--			
14	21604	15	10	40	10	0.010	--			
15	21605	15	<5	40	20	<0.005	<0.005			
16	21606	15	5	30	10	0.010	--			
	21607	15	5	25	15	0.010	--			
18	21608	15	5	20	10	0.010	--			
19	21609	10	<5	25	15	0.010	--			
20	21610	10	<5	25	15	<0.005	--			
21	21611	10	5	30	10	<0.005	--			
22	21612	10	<5	30	15	<0.005	--			
23	21613	10	<5	30	15	<0.005	--			
24	21614	10	5	35	15	<0.005	--			
25	21615	15	5	30	15	<0.005	<0.005			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	106480.60.07557	18/12/90	50065	5 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ni	Au	Au(R)			
1	21616	15	5	40	10	<0.005	—			
2	21617	15	<5	45	25	<0.005	—			
3	21618	10	<5	30	10	<0.005	—			
4	21619	15	5	35	10	<0.005	—			
5	21620	10	5	40	10	<0.005	—			
6	21621	10	<5	35	10	<0.005	—			
7	21622	10	5	30	5	<0.005	—			
8	21623	10	<5	30	5	<0.005	—			
9	21624	5	<5	30	10	<0.005	—			
10	21625	25	5	40	15	<0.005	—			
11	21626	15	10	35	<5	<0.005	—		23/89	Analar [illegible]
12	21627	15	10	45	5	<0.005	—			Analar
13	21628	15	15	45	<5	<0.005	—			
14	21629	10	<5	20	<5	<0.005	—			
15	21630	15	15	40	5	<0.005	—			
16	21631	10	10	40	<5	<0.005	<0.005			
	21632	15	15	50	<5	<0.005	—			
18	21633	15	<5	35	5	<0.005	—			
19	21634	15	10	75	5	<0.005	—			
20	21635	15	10	60	5	<0.005	—			
21	21636	15	5	50	<5	<0.005	—			
22	21637	15	5	40	5	<0.005	—			
23	21638	SNR	—	—	—	—	—	Mist [illegible]		
24	21639	25	<5	50	5	<0.005	—			
25	21640	15	<5	30	<5	<0.005	—			

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	106480.60.07557	18/12/90	50065	6 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ni	Au	Au(R)			
1	21641	15	5	40	<5	<0.005	<0.005			
2	21642	15	5	40	<5	<0.005	–			
3	21643	10	5	30	<5	<0.005	–			
4	21644	70	<5	120	210	<0.005	–			
5	21645	20	5	25	5	<0.005	–			
6	21646	15	5	35	<5	<0.005	–			
7	21647	15	10	40	<5	<0.005	–			
8	21648	10	<5	25	<5	<0.005	–			
9	21649	10	5	35	5	<0.005	–			
10	21650	10	<5	45	5	<0.005	–			
11	21651	10	5	40	10	<0.005	–			
12	21652	10	5	35	10	<0.005	–			
13	21701	35	<5	20	<5	<0.005	–			Holder Rd
14	21702	25	<5	<5	<5	<0.005	–			Holder Rd
15	21801	20	5	35	15	<0.005	–		17/9	Tr. to New Jack
16	21802	15	25	60	5	<0.005	–			
17	21803	15	15	40	5	<0.005	–			
18	21804	15	<5	25	5	<0.005	–			
19	21805	10	10	25	<5	<0.005	–			
20	21806	15	5	30	<5	<0.005	–			
21	21807	15	5	25	<5	<0.005	–			
22	21808	15	5	50	5	<0.005	–			
23	21809	15	10	35	<5	<0.005	–			
24	21810	15	5	35	5	<0.005	–		[illegible]	[illegible]
25	21811	20	5	55	10	<0.005	–			

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	106480.60.07557	19/12/90	50065	7 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ni	Au	Au(R)			
1	21812	15	5	30	<5	<0.005	–			
2	21813	15	5	35	5	<0.005	–			
3	21814	15	5	45	5	<0.005	–			
4	21815	15	5	40	5	<0.005	–			
5	21816	15	5	40	10	<0.005	–			
6	21817	20	<5	30	15	<0.005	–			
7	21818	<5	<5	35	<5	<0.005	–			
8	21819	5	<5	30	<5	<0.005	–			
9	21820	5	<5	30	5	<0.005	–			
10	21821	<5	<5	25	<5	<0.005	–			
11	21822	<5	<5	30	5	<0.005	–			
12	21823	<5	5	25	5	<0.005	–			
13	21824	<5	<5	35	5	<0.005	–			
14	21825	10	5	15	5	<0.005	–			
15	21826	<5	<5	30	5	<0.005	–			
16	21827	<5	5	30	5	<0.005	–			
	21828	<5	<5	30	5	<0.005	–			
18	21829	<5	<5	35	5	<0.005	–			
19	21830	10	5	45	20	<0.005	–			
20	21831	10	35	50	15	<0.005	–			
21	21832	15	5	45	10	<0.005	–			
22	21833	5	5	50	5	<0.005	–		42/89	
23	21501	40	20	60	15	<0.005	–	–		42/89
24	21502	25	<5	50	20	<0.005	–	–		
25	21503	45	<5	65	80	<0.005	–	–		

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

108018

AUTHORISED OFFICER _____

ANALABS

A Division of Inchcape Inspection and Testing Services Australia Pty. Ltd.

ANALYTICAL DATA

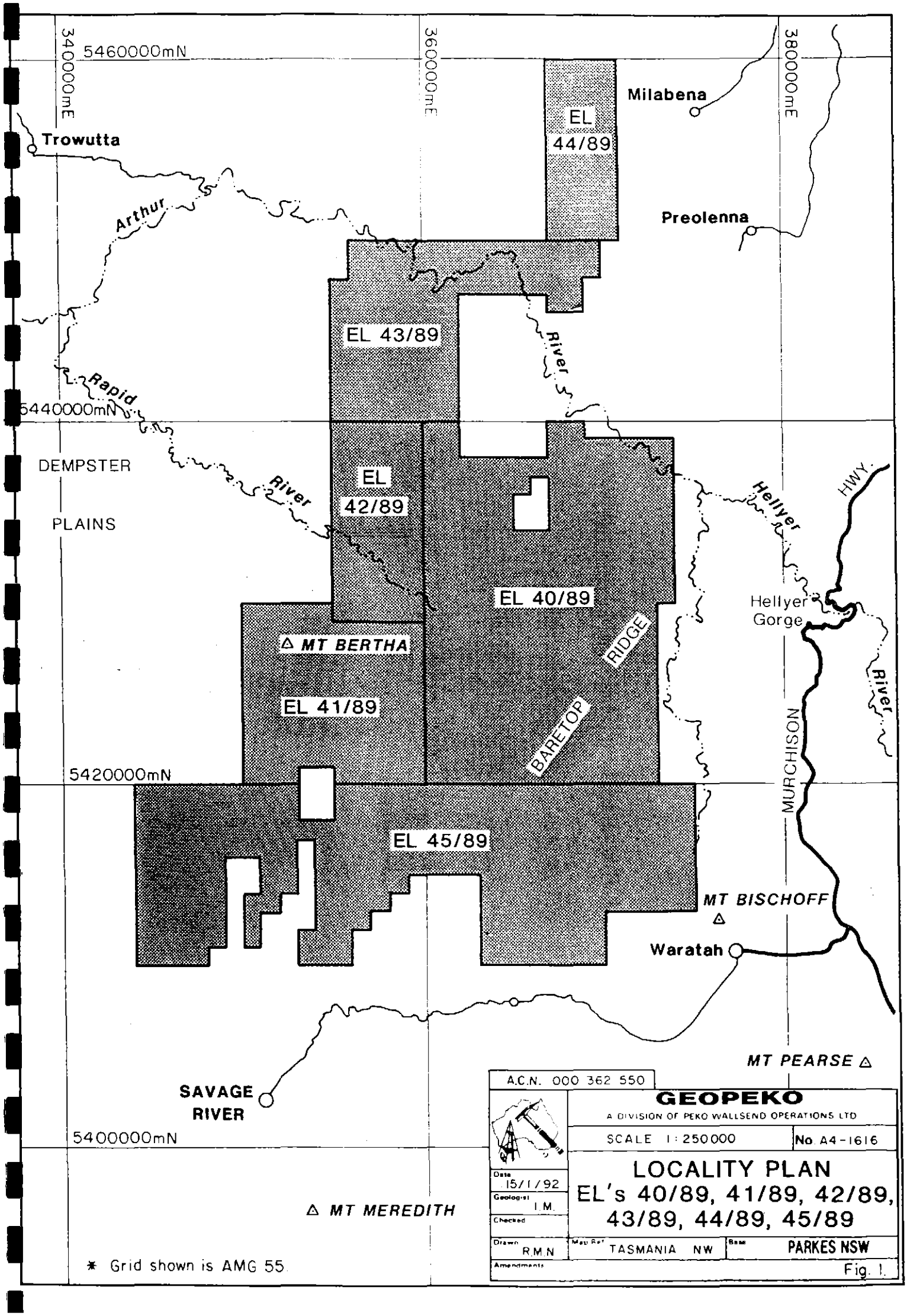
SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	106480.60.07557	18/12/90	50065	8 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ni	Au	Au(R)			
1	21837	<5	5	15	<5	<0.005	–			
2	21838	<5	95	90	200	<0.005	–			
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
18										
19										
20										
21										
22	SNR = Sample Not Received									
23	DETECTION	5	5	5	5	0.005	0.005			
24	UNITS	ppm	ppm	ppm	ppm	ppm	ppm			
25	METHOD	GA101	GA101	GA101	GA101	GG313	GG313			

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

108019

AUTHORISED OFFICER


340000mE
360000mE
380000mE
5460000mN
5440000mN
5420000mN
5400000mN
Milabena
Trowutta
Preolenna
EL 44/89
EL 43/89
EL 42/89
EL 40/89
EL 41/89
EL 45/89
Arthur
River
Rapid
River
DEMPSTER
PLAINS
Hellyer
HWY.
Hellyer Gorge
River
MURCHISON
MT BERTHA
RIDGE
BARETOP
MT BISCHOFF
Waratah
MT PEARSE
SAVAGE RIVER
MT MEREDITH
* Grid shown is AMG 55
A.C.N. 000 362 550
GEOPEKO
A DIVISION OF PEKO WALLSEND OPERATIONS LTD
SCALE 1:250000
No. A4-1616
LOCALITY PLAN
EL's 40/89, 41/89, 42/89, 43/89, 44/89, 45/89
Date 15/1/92
Geologist I.M.
Checked
Drawn R.M.N
Map Ref TASMANIA NW
Base PARKES NSW
Amendments
Fig. 1.

DEVONPORT

GEOPEKO

112 BEST STREET DEVONPORT TAS.7310
P.O. BOX 162 DEVONPORT TAS. 7310

PHONE (004) 242298
FAX. (004) 244518

24th June 1992

The Director of Mines
Department of Mines
PO Box 56
ROSNY PARK TAS 7018

Exploration Licence 43/89 - Holder Rivulet
Your reference: KMCC15.91:AT
Attention: K. McClymont

Dear Sir/Madam,

With reference to your recent letter:-

* The locations for sample numbers 21701 and 21702 lie on the Tayatea 1:25 000 map sheet at the coordinates listed below.

  21701 354 360 m East 5 450 700 m North
  21702 354 440 m East 5 450 740 m North

* Twenty five samples were collected from Cann Creek. Samples 21501 - 21503 were also collected from that area. Plans showing locations and geological fact mapping along Cann Creek were submitted with Geopeko report T255 on EL 1/90 Meunna. Additional plans for report T263 are being drafted and will be forwarded to you when ready. They should arrive before the end of June.

* Assay results for sample 21834 follow:

	Cu	Pb	Zn	Ni	Au
21834	<5	5	40	<5	<0.005 all ppm.

* Samples 20249 and 20261 are from Rachel Creek.

I apologize for the deficiencies and omissions from this report and for the unnecessary work this has caused you.

Yours faithfully

I.J. Mathison
Senior Project Geologist

EL 43/89

STATE FOREST

STATE FOREST

ARTHUR RIVER

ARTHUR RIVER

HOLDER ROAD

MUNGA CREEK

MUNGA CREEK

ROAD

HOLDER

NEASEY CREEK

NEASEY CREEK

PIPELINE ROAD

NEASEY PLAINS

WYNSMITH HILLS

CHUCKLING CREEK

FOLLY HILL

EL 30/90

EL 43/89

5450000N
5449000N
5448000N
5447000N
5446000N
5445000N
5444000N

3570000E
3580000E
3590000E
3600000E
3610000E
3620000E
3630000E
3640000E

5 cm

1:10000
SPECIAL LAYOUT

THIS SHEET
NW

GEOPEKO
A DIVISION OF
PEKO EXPLORATION LTD.
A.C.N. 000 362 550

Scale 1:10000
0 200 400 600 800 1000m

TASMANIA

Map Ref. FOLLY 3644, KEITH 3643, HOLDER 3444, BERYL 3443

EL 43/89, 30/90
TOPOGRAPHY, SAMPLE LOCATIONS

Geo	
Carto	
Checked	
Date	13-MAR-92

ARTHUR RIVER 7915

Dwg No. 1497fab d

108022

92-3331.

ph(068)623833. fax(068)624098

PRODUCED BY THE CARTOGRAPHIC UNIT, GEOPEKO, PARKES NSW

EL 30/90

EL 43/89

EL 01/90

EL 43/89

EL 30/90

EL 01/90

BLAZELY

CANN CREEK ROAD

KEITH RIVER

BIRD ROAD

BIRD CREEK

HILDERS BRIDGE

ARTHUR RIVER

CHAMPION ROAD

PIONEER LINK

CANN CREEK

RELAPSE CREEK

RELAPSE LINK

KEITH ARTHUR RIVER ROAD

CHAMPION ROAD

BIRD ROAD

RELAPSE

5448000N
5447000N
5446000N
5445000N
5444000N
5443000N
5442000N

366000E
367000E
368000E
369000E
370000E

Ssst + Ssst
Ssst
Bd
Sslt
Sslt
Ssst
Sslt
Sslt + Ssst
Schistose MSslt + MSst
MSslt + MSsst
MSsst
talc MSch
MSsst
serp'd MBd
MSsst
q vng
talc MSch
MSslt + MSslt
Mmst
Sslt
MSslt
talc MSslt
Sslt Bd
Sslt + Ssst
MSsst + Msch
MSslt
Msch qm
Msch qm + MSsst m
MBd
Msch qm + MSsst
Msch talc + mica
Msch q+m
Bd
Msch q+m
Msch
mlc MSsst Msch qm
MBd
Msch
Msch + MSsst
MBd

5 cm

ROCK TYPES:

SEDIMENTS:

Ssst	sandstone
Sqar	quartz arenite
Swk	greywacke
Sslt	siltstone
Sdol	dolomite
Scon	conglomerate
Sbx	breccia

IGNEOUS ROCKS:

Tert Bd	tertiary basalt
€ Bd	cambrian basalt
Bd	dolerite

METAMORPHICS:

Mpyl	phyllite
MSqr	meta arenite

SEDIMENT GRAIN SIZE:

vfg	very fine grained
fg	fine grained
mg	medium grained
cg	coarse grained

TEXTURES:

vns	veins
lbd	interbedded
lam	laminated
clvd	cleaved
stn	staining
gd	graded
wthd	weathered

COLOURS:

bk	black
wh	white
gn	green
gy	grey
pl	pale
dk	dark
or	orange
cm	cream

MINERALOGY:

py	pyrite
qt	quartz
Fe	iron
Mn	manganese
cbd	carbonate
Tq	turquiose

STRUCTURAL SYMBOLS:

- bedding
- facing
- overturned bedding
- cleavage
- fault
- rock outcrop
- float/subcrop
- definite contact
- approximate contact
- interbedded contact

92·3331

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PEKO EXPLORATION LTD.
A.C.N. 000 362 550

Scale 1: 10000

108023

TASMANIA

Map Ref. FOLLY 3644 (1:25000 sheet series)

EL 43/89 CANN CREEK
GEOLOGICAL FACT MAPPING

Geo	
Corto	
Checked	
Date	24/06/92

Dwg No. 2311

EL 30/90

EL 43/89

EL 01/90

EL 43/89

EL 30/90

EL 01/90

EL 01/90

PIONEER LINK

CANN CREEK ROAD

KEITH RIVER ROAD

BIRD ROAD

BIRD CREEK

HILDERS BRIDGE

ARTHUR RIVER ROAD

CHAMPION ROAD

CANN CREEK

BIRD ROAD

RELAPSE CREEK

RELAPSE LINK

KEITH RIVER ROAD

ARTHUR RIVER ROAD

CHAMPION ROAD

RELAPSE CREEK

RELAPSE

BLAZELY ROAD

5 cm

366000E 367000E 368000E 369000E 370000E

5448000N 5447000N 5446000N 5445000N 5444000N 5443000N 5442000N

108024

GEOPEKO

A DIVISION OF
PEKO EXPLORATION LTD.
A.C.N. 000 362 550

TASMANIA

Scale 1:10000

92-3331

Map Ref. FOLLY 3644 (1:25000 sheet series)

EL 43/89 CANN CREEK
ROCK CHIP SAMPLING
SAMPLE LOCATIONS

Geo	
Carto	
Checked	
Date	24/06/92

Dwg No. 2312