GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD

EXPLORATION LICENCE 2127

FINAL REPORT INCLUDING ANNUAL REPORT FOR FOURTH YEAR OF TENURE

AUGUST 1983

ON BEHALF OF

URANGESELLSCHAFT AUSTRALIA PTY LTD

BY

P. A. WILSON

DISTRIBUTION:

N.T. DEPARTMENT OF MINES AND ENERGY

IDEMITSU URANIUM EXPLORATION AUSTRALIA PTY LTD

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GEOPEKO: DARWIN
GORDON

ANACONDA AUSTRALIA INC.

DARWIN, N.T.

JULY, 1983

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1. INTRODUCTION

1.1. Tenure

Exploration Licence E.L. 2127 was granted to Urangesellschaft Australia Pty Ltd (UGA) on the 21st August, 1979. UGA conducted an exploration programme orientated primarily towards Uranium mineralisation. The licence area was diminished by fifty per cent on August 20th, 1981 wich resulted in the retention of 16.6 square kilometres.

Geopeko became the operator of the licence area following a farm-in agreement between UGA and the Peko Wallsend/Anaconda Joint Venture. This is the Annual Report for the 4th year of tenure and has been prepared on behalf of the Licencees by Geopeko.

1.2. Location and Access

E.L. 2127 is located on the 1:100 000 Tipperary Sheet (No 5170) and is 10 kilometres south of the Stuart Highway and immediately ~~east~~ NORTH of Plateau Point (figure. 1). Access is by tarmac road as far as the abandoned Fenton airfield and then west along a fence track for 7 kilometres. Consequently access is essentially limited to the dry season.

1.3. Geological Setting

The geology of E.L. 2127 has been described in full by Nicholson and Radford (1982) and the broader regional setting by Walpole et. al (1968) and by Glasson (1980). A northerly plunging anticline consisting of metasediments of the Mt. Partridge and overlying South

Alligator River Group crop out in the licence area. A detailed stratigraphy and simplified geological map of the E.L. are presented in figures 2 and 3 respectively.

1.4. Previous Work

The exploration conducted by UGA has been fully reported by Pearson (1981). Subsequent work by Geopeko has been directed towards locating stratiform gold and base metal deposits in the Koolpin Formation of the South Alligator River Group. This work forms part of a broader regional exploration programme being carried out by the Peko Wallsend - Anaconda Joint Venture.

Nicholson and Radford (1982) have reported the findings of the preliminary exploration of E.L. 2127 which involved geological mapping, stream sediment sampling and rock sampling. Results from the 40 stream sediment samples which were collected were generally disappointing in a regional context. However, anomalous Sn in stream sediments draining Middle Koolpin lithologies was recommended for further investigation.

A gossanous outcrop was located during mapping in the south-western boundary of the licence and chip samples returned analyses which averaged over 5% Pb and 0.5% Zn.

The gossan occurs within a sequence of interbedded carbonaceous mudstones, muscovite phyllites and iron formation assigned to the Koolpin Formation. They are folded into a northerly plunging anticline and the gossan outcrops on the western limb adjacent to, and probably straddling, the E.L. boundary (Nicholson and Radford, 1982).

2. 1983 PROGRAMME

2.1. Introduction

The 1983 exploration programme involved the surveying of a small grid centred on the gossan outcrop. Soil sampling, geological mapping a costeaning programme and magnetometric survey were completed over the gridded area.

As a consequence of the uncertainty in the exact location of the main gossan outcrop with respect to the E.L. boundary Mr. D. Ronan, the holder of the adjacent E.L. 1747 was approached. It was agreed with Mr. Ronan for Geopeko to conduct a small exploration programme and to have first offer on an option agreement dependent upon the findings of the reconnaissance work.

2.2. Geology of Gridded Area

A 500 x 300 metre area was gridded by tape and compass and was centred on the main northerly striking gossan outcrop.

A geological plan of the gridded area is presented in Figure 4. The area is flat-lying and is drained by two north-westerly trending, poorly incised streams. An area of positive relief in the central part of the gridded area reflects the main area of gossan outcrop.

Purple-brown weathering, ferruginous muscovite phyllites outcrop on the eastern part of the grid and are overlain to the west by a 1-2 metre wide unit of siliceous iron formation. The iron formation is composed of saccharoidal quartz, and is extensively stained by hematite and botryoidal manganese oxides. Occasional

patches of 'gossan' occur intermittently along the main outcrop. Coarse skeletal boxworks after galena were noted at two locations and galena and cerrussite observed at 1005N 1000E.

To the west of the iron formation a number of outcrops of iron-stained carbonaceous mudstone occur. These contain 2-5 metre long pods or blows of sugary quartz.

Bedding in the sediments strikes north-south and dips steeply to the east, indicating the anticlinal limb is locally overturned.

2.3. Geochemistry

Two rock chip samples collected across outcrops of the iron formation and carbonaceous mudstone furnished the following results:-

Sample No.	Location	Results (ppm and %				
		Pb	Zn	Cu	Ag	Ba
GS 21301	10140N 10020E	17.9%	0.6%	70	10	560
GS 21302	10000N 10000E	300	65	110	1	250

99 soil samples were collected using a Jacro 100 power auger mounted on a Toyota Landcruiser. The samples were collected at 25 metre centres along the 100 metre spaced grid lines and along the base line which parallels the 'gossan' outcrop. Sample depth was ± 1 metre corresponding to C horizon material. An intermediate grid line was put in to give more detailed 50 metre coverage over the area of best outcrop.

Samples were analysed for Cu, Pb, Zn, Ba, Fe and Mn by AAS (perchloric acid digestion). Pb and Zn results are

presented in contoured form in Figures 5 and 6 and detailed assay listings are appended.

Values for Pb fall in the range of 15 ppb - 1.55%. An anomalous area measuring 20 metres x 200 metres occurs in the NE quadrant of the gridded area. Similarly a further Pb soil anomaly occurs on the southern most line and represents the strike extension of the iron formation into E.L. 1747. Zinc values generally support Pb and fall in the range 10 - 2150 ppm.

2.4. Costeans

A 63 metre long costean was excavated by backhoe across the main Pb-Zn anomaly on line 10100N. The costean geology was logged and channel samples collected at 1-2 metre intervals along the northern wall. A section summarising costean geology and geochemical results is presented in Figure. 7.

The depth of soil overburden in the costean varied from between 0.6 and 3 metres depending on the competence of the underlying bedrock. Within the costean the bedding in the metasediments dips consistently to the east at 65^{o} indicating overturning of the western limb of the Plateau Point anticline.

From west-east, the exposed lithologies comprise rustic-brown weathering, muscovite phyllites which are underlain stratigraphically by a 1.5 metres thick carbonaceous mudstone. A 10 centimetre by 5 centimetre nodule of massive galena was observed in this mudstone unit. The mudstone is underlain by a massive siliceous unit composed of 95% sugary quartz with minor mica which corresponds to the iron formation along strike. A 12 metres thick variable sequence of banded purple to brown mudstones and thin phyllites underlies the iron formation.

Between 10032E and 10042E a Fe-Mn rich bed of black mudstone occurs, this conspicuous unit contains approximately 5-10 vol% of sugary quartz bands having a thickness of 2-10 centimetres. This is underlain by a monotonous sequence of well bedded muscovite phyllites.

Geochemical results from the channel sampling are presented graphically in Figure 7. The channel samples were analysed for Cu, Pb, Zn, Ag, Ba, Fe, Mn, Sn and Au. Lead values are distinctly anomalous in the western part of the costean and correspond with the varied lithologies which overlie the iron formation. Best lead values are:-

	9 metres	@ 2.39% Pb
including	3 metres	@ 4.91% Pb

There are no supporting Ba, Ag or Au values and Zn is only moderately anomalous.

2.5. Geophysics

Total field magnetic intensities were read along all the grid lines using a Geometrics G816 precision proton magnetometer. No anomalies were detected.

2.6. Stream Geochemistry Follow-Up

A Sn drainage anomaly was investigated to ascertain the likely source of the anomaly. The anomaly occurs in a SE trending channel which drains Middle Koolpin rocks approximately equidistant between the gossan outcrop and anticlinal fold closure (Figure 2). Here Sn values of up to 400 ppm were recorded (Sample No 13714) against a local background of about 10 ppm (Nicholson and Radford, 1982).

An outcrop of quartz muscovite pegmatite was observed some 50 metres upslope from the stream sample point. The pegmatite measured 10 metres by 2 metres in exposure and consisted of milky quartz with coarse muscovite books up to 25 centimetres across forming 5% of the pegmatite. The muscovite flakes being arranged in distinct bands defining a zonation to the pegmatite dyke. Further pegmatites were located along strike and coarse muscovite was developed in the metasediments adjacent to the pegmatite contact.

Five rock chip samples were collected from the pegmatite and adjacent country rocks:-

Sample No.	Description	Sn Content
23003	Muscovite pegmatite centre of outcrop	x
23004	Coarse pegmatite large mica books	x
23005	Muscovite phyllite pegmatite contact	x
23006	Gossonous sediment pegmatite contact	x
23007	Pegmatite margin of dyke	x

All samples returned values below the detection limit of 1 ppm Sn.

3. SUMMARY AND CONCLUSIONS

A limited soil sampling, geological mapping and costeaning programme centred on an outcrop of gossan in the SW boundary of E.L. 2127 has shown Pb mineralisation to be stratiform and associated with a ± 5 metre sequence of interbedded carbonaceous mudstone and siliceous iron formation.

The soil geochemical survey shows the mineralised unit has a strike potential in excess of 500 metres. However there is little evidence in the stream geochemical results and regional rock chip sampling to support the likelihood of an economically significant mineralised body being present. Furthermore the general absence of supporting precious metal values and of significant zinc values effectively downgrades the economic potential of the lead rich zone.

The geochemical results from the Jacro sampling were not reproduced in the costean to the east of the main iron formation outcrop. In fact costean values here fall in the range of ± 300 ppm Pb and ± 1500 ppm Zn. Examination of the deep soil profile above the muscovite phyllites (1.5 - 3 metres) suggests the Jacro did not penetrate true C horizon material but intersected scree downslope from the competent iron formation and carbonaceous mudstone units. This finding casts a degree of doubt on the postulated strike extent and continuity of the Pb mineralisation based on soil geochemistry alone.

Although the geochemical results from the rock chip sampling of the pegmatite outcrop returned Sn values below the limit of detection it is felt this is the most likely primary source of the tin.

4. EXPENDITURE

Expenditure on the tenement during the fourth year of tenure has totalled $21,293 to the 30th June, 1983. A breakdown of the expenditure is attached as Appendix 3.

5. RECOMMENDATIONS

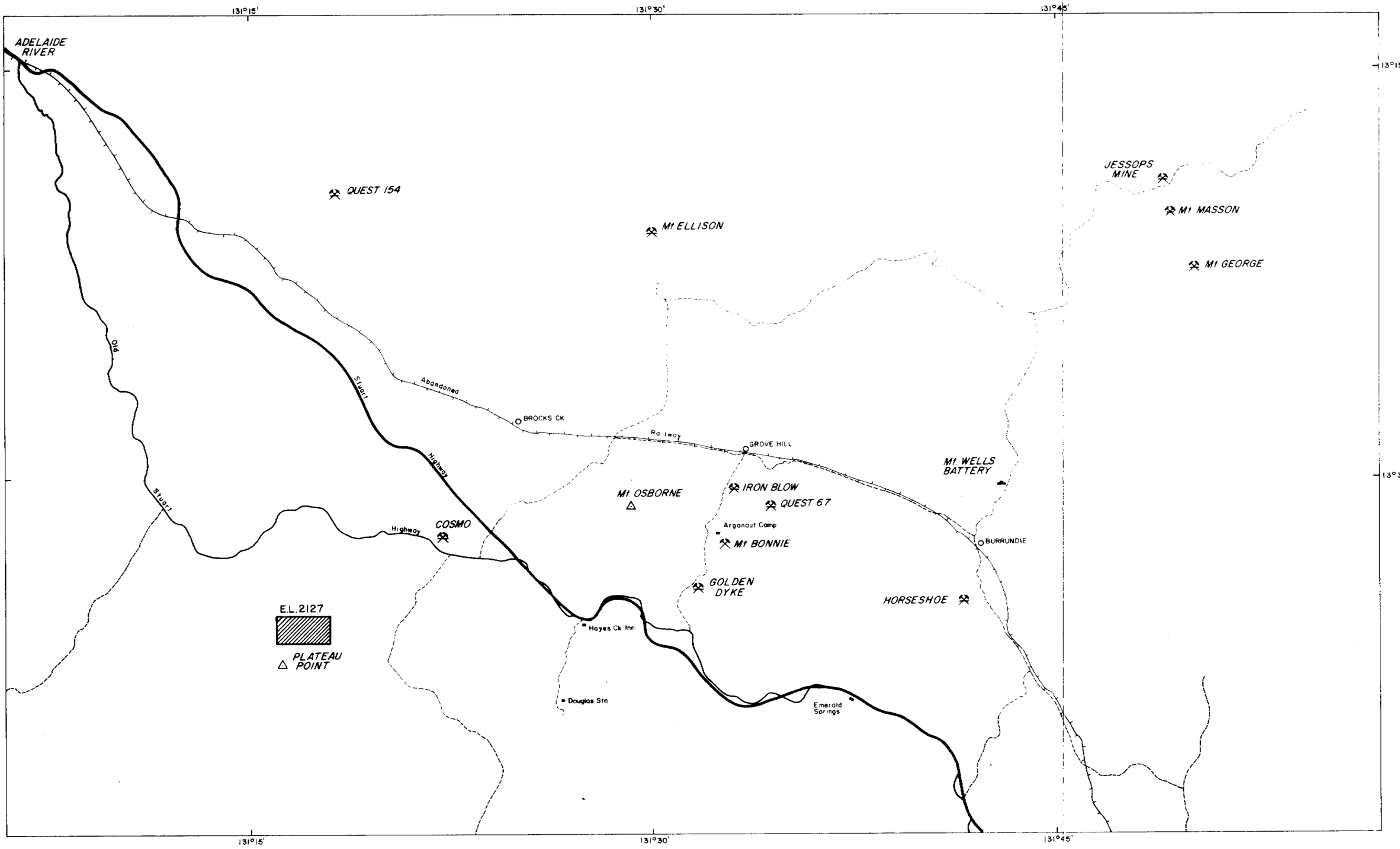
It is recommended that no further work be conducted on E.L. 2127. The results of the 1982 stream sediment sampling and rock chip sampling programmes effectively downgrade the potential of the Plateau Point area for Au and base metal sulphide deposits.

6. REFERENCES

GLASSON. M., (1980) - Annual Report, 1980 E.L. 2127, N.T.

NICHOLSON, P. and RADFORD, N. (1982) E.L. 2127 Annual Report for 1982

WALPOLE, B.P., CROHN, P.W. DUNN, P.R. and RANDAL M.A. (1968) Geology of the Katherine Darwin Region N.T. Australia B.M.R., Bull. 1982



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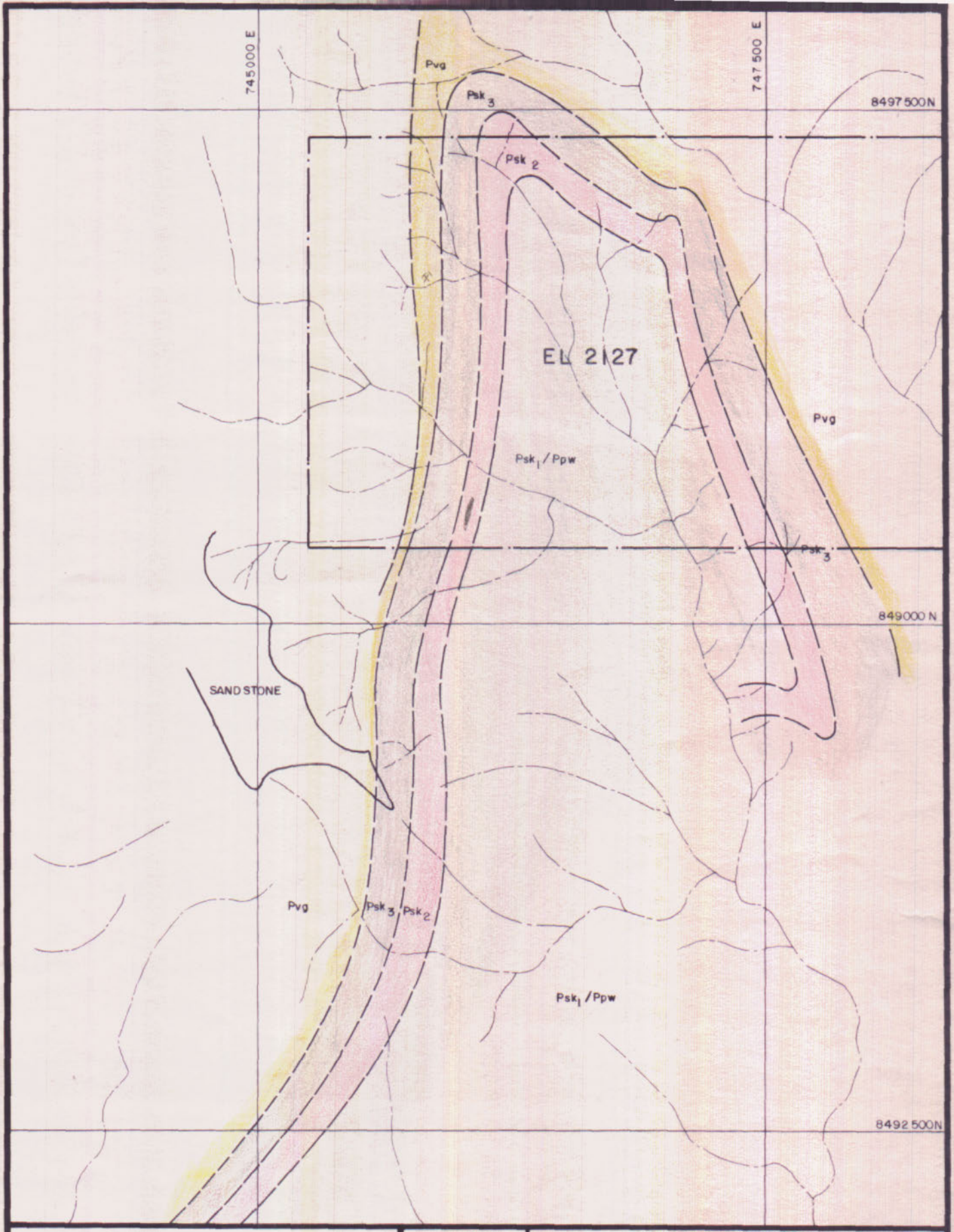
0 5 10km

FIG. No. 1

PROJECT	GOLDEN DYKE JOINT VENTURE
AREA	PLATEAU POINT – E.L.2127
DATA	LOCATION PLAN EL2127

SCALE	COMPILED	DATE	DRAWN
1 : 250 000	P.A.W.	JUL., 1983	R.F.



LEGEND

Pvg	GEROWIE TUFF
Psk_3	KOOLPIN FORMATION UPPER MEMBER
Psk_2	KOOLPIN FORMATION MIDDLE MEMBER
Psk_1	KOOLPIN FORMATION LOWER MEMBER
Ppw	WILDMAN SILTSTONE

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DWG No. FIGURE 2

PROJECT	B.I.F GOLD JV
AREA	PLATEAU POINT
DATA	GEOLOGY

SCALE	COMPILED	DATE	DRAWN
1: 25000	P.N.	DEC '82	AF

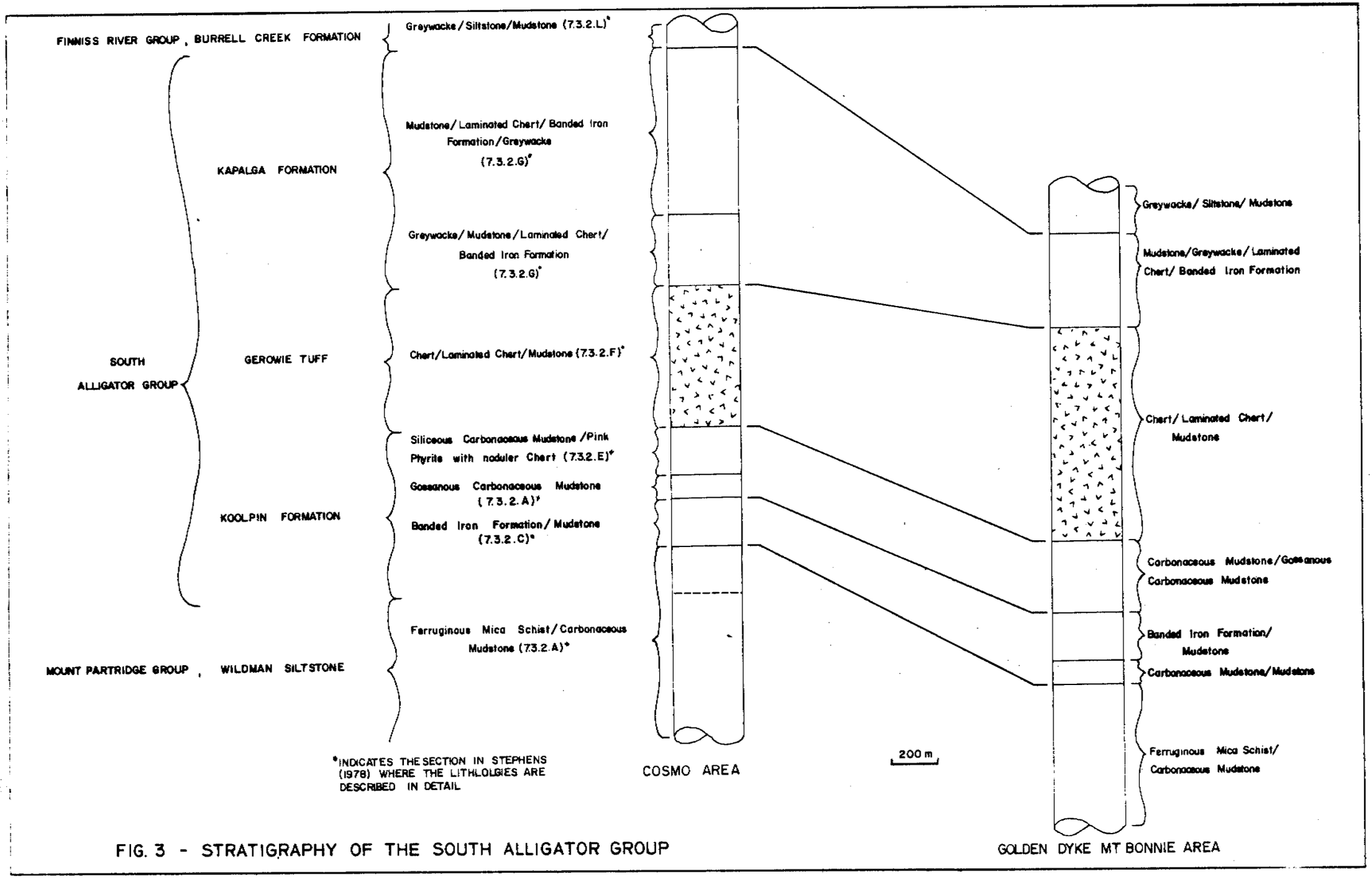
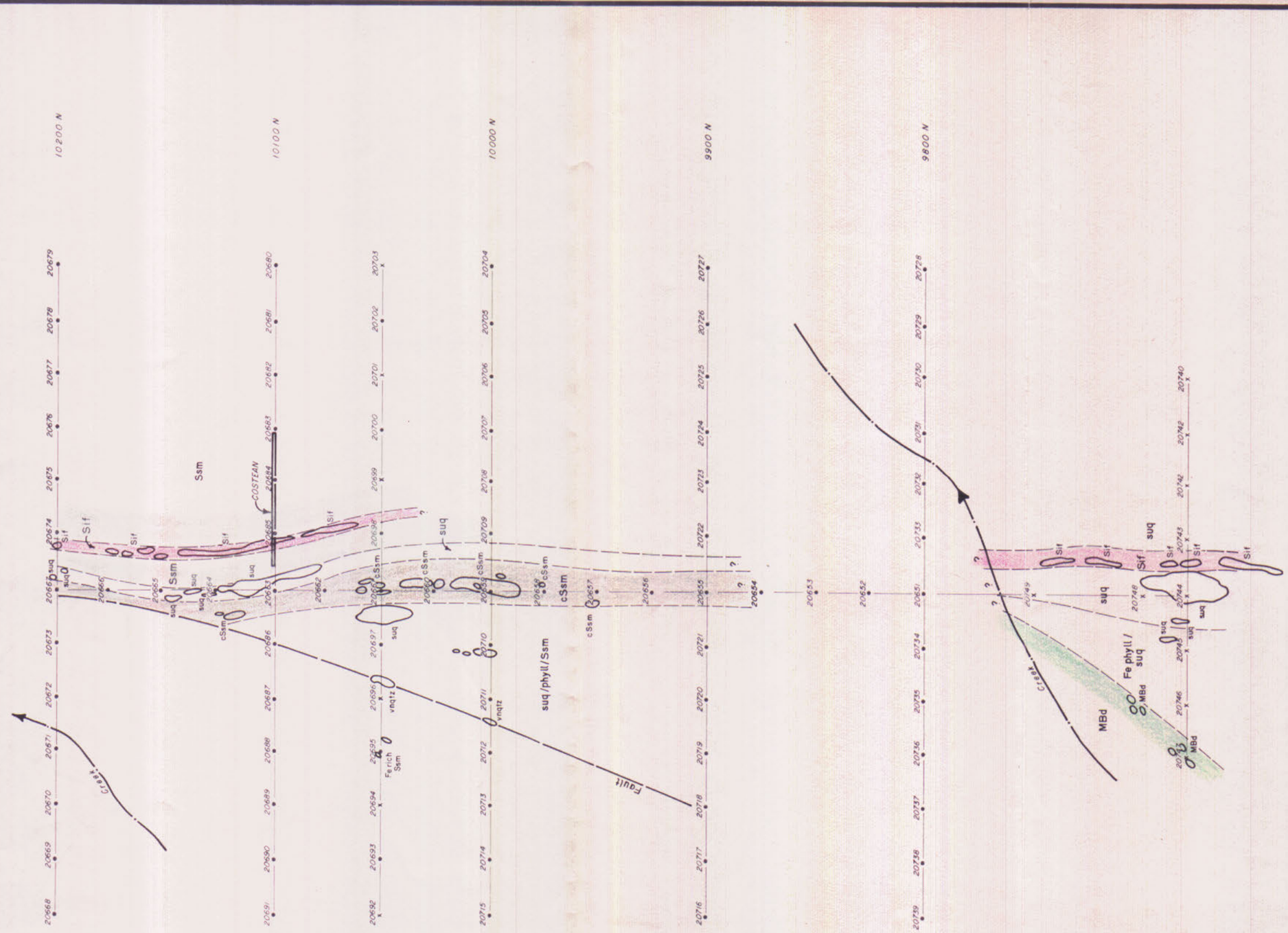


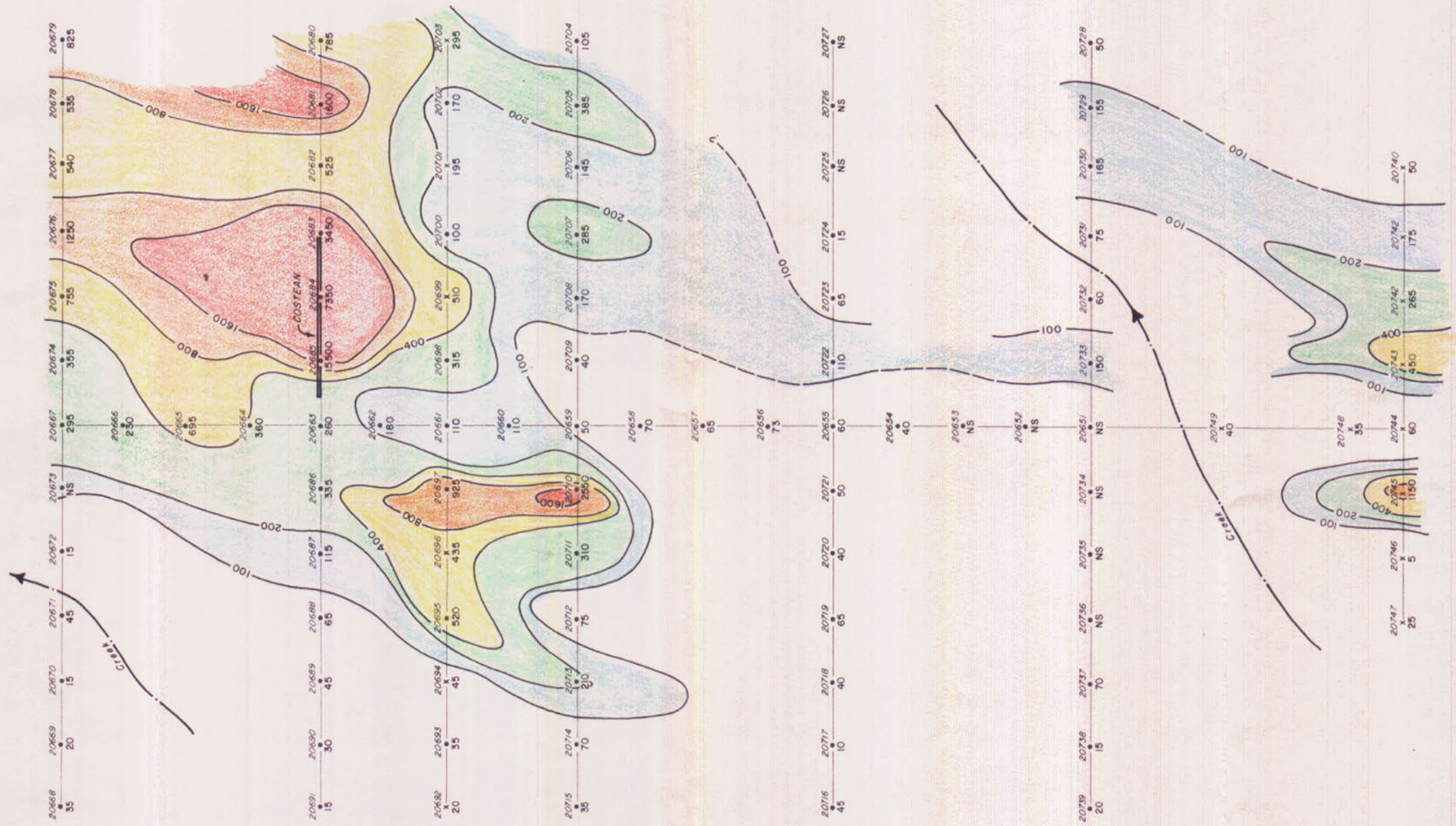
FIG. 3 - STRATIGRAPHY OF THE SOUTH ALLIGATOR GROUP



LEGEND

- • Sample location – pegged tape and compass grid
- x Sample location – flagged pace and compass grid additions

	GEOPEKO A DIVISION OF PEKO WALLSEND OPERATIONS LTD		
	20 0 20 40 60m		FIG. No. 4
PROJECT	GOLDEN DYKE JOINT VENTURE		
AREA	PLATEAU POINT – E.L. 2127		
DATA	GEOLOGY		
SCALE	COMPILED	DATE	DRAWN
1 : 2000	PAW	JUNE, 1983	R.F.



LEGEND:

- • Sample location - pegged tape and compass grid
- x Sample location - flagged pace and compass grid additions

GEOCHEMICAL CONTOURS - LEAD (values in ppm)

	100 - 200
	200 - 400
	400 - 800
	800 - 1600
	<1600

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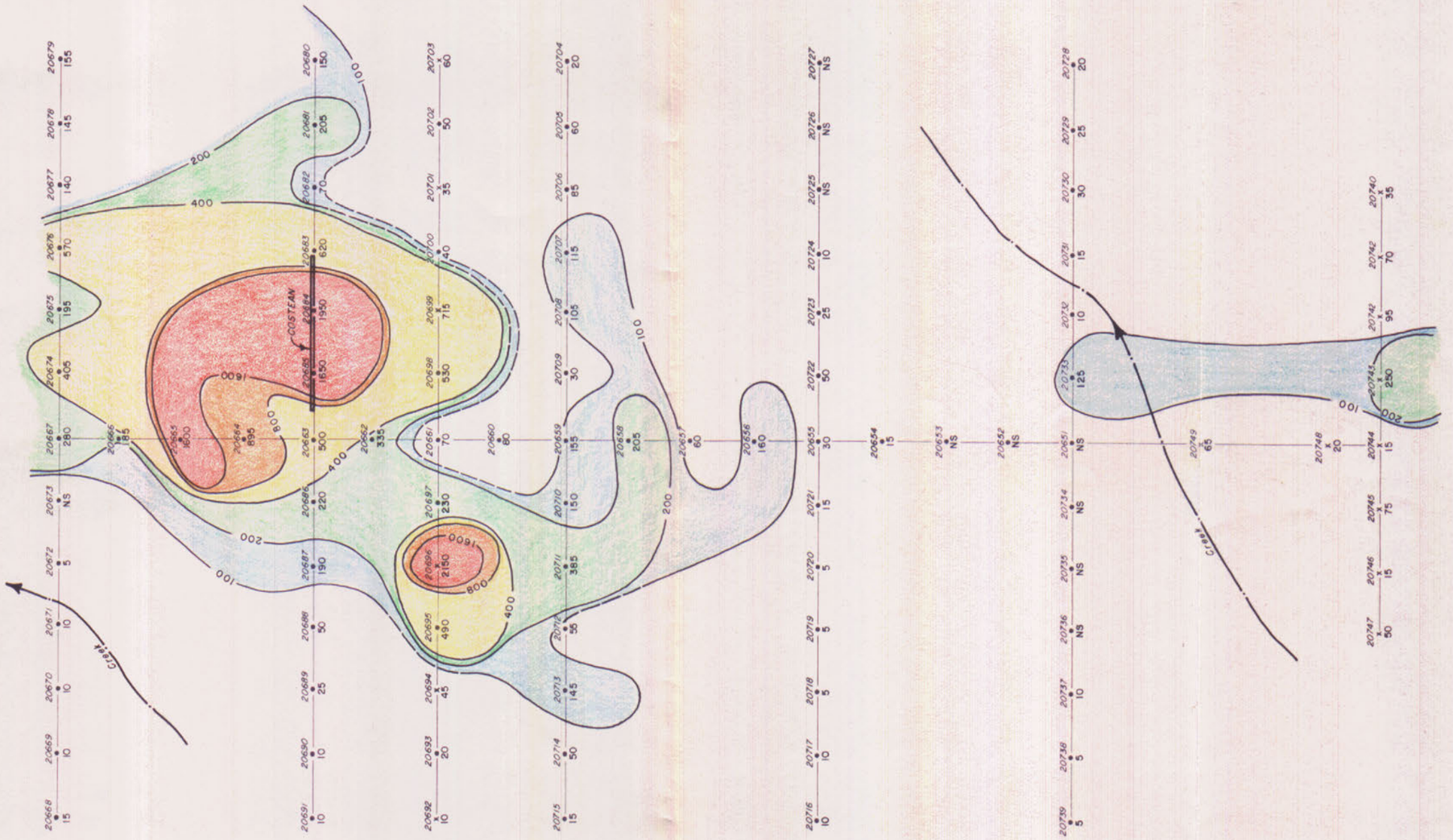
20 0 20 40 60m

FIG. No. 5

PROJECT	GOLDEN DYKE JOINT VENTURE
AREA	PLATEAU POINT - E.L. 2127
DATA	SOIL SAMPLE GEOCHEMICAL RESULTS LEAD

SCALE	COMPILED	DATE	DRAWN
1 : 2000	PAW	JUNE, 1983	R.F.



LEGEND:

- • Sample location – pegged tape and compass grid
- x Sample location – flagged pace and compass grid additions

GEOCHEMICAL CONTOURS – ZINC (values in ppm)

	100 – 200
	200 – 400
	400 – 800
	800 – 1600
	<1600

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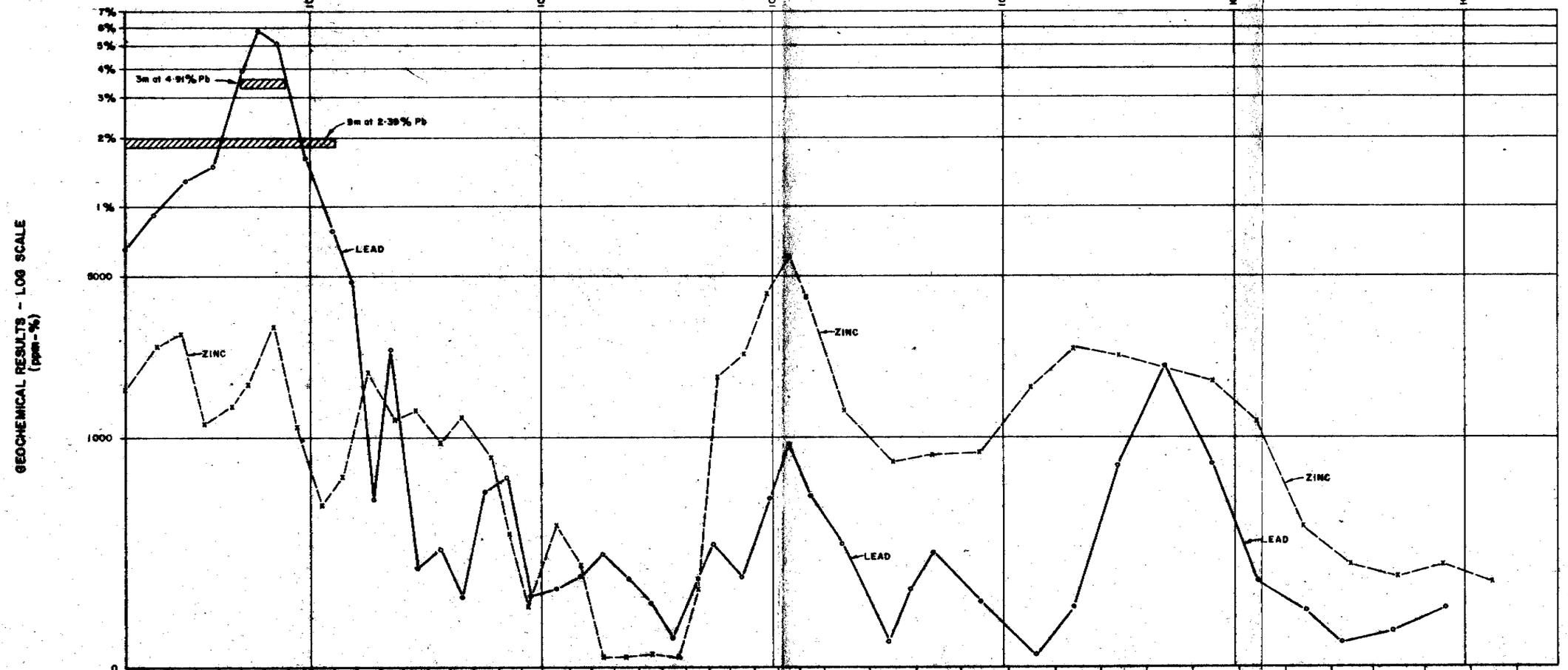
20 0 20 40 60m

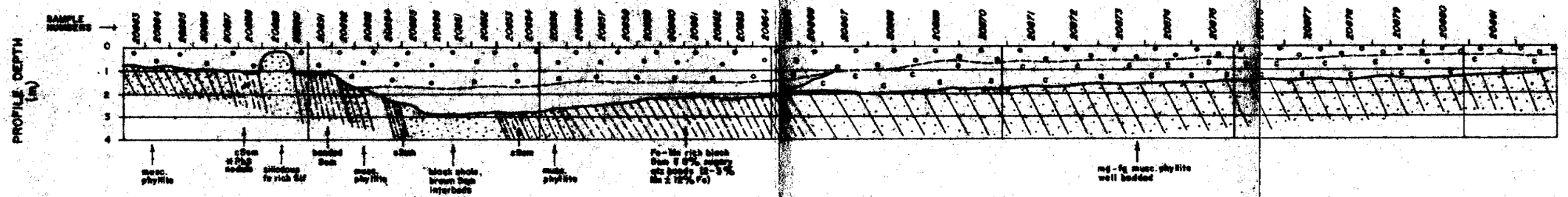
FIG. No. 6

PROJECT	GOLDEN DYKE JOINT VENTURE
AREA	PLATEAU POINT – E.L. 2127
DATA	SOIL SAMPLE GEOCHEMICAL RESULTS ZINC

SCALE	COMPILED	DATE	DRAWN
1 : 2000	PAW	JUNE, 1983	R.F.



NOTE: * indicates original 'Jacro' sample



LEGEND: Soil Profile

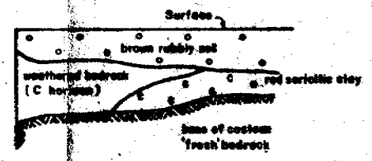


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FIG. No. 7

PROJECT	GOLDEN DYKE JOINT VENTURE
AREA	PLATEAU POINT - E.L. 2127
DATA	PROFILE ALONG COSTEAN LINE 10100N

SCALE	COMPILED	DATE	DRAWN
HOR = VERT = 1:200	R.A.M.	JUNE, 1983	R.F.

APPENDIX I

Soil Geochemistry Results

Appendix I. Soils Plat Pt.

ANALABS

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	83.8 14 390	19.5.83	31256	1 OF 5

TUBE No.	SAMPLE No.	Mn	Fe%	Cu	Zn	Ag	Ba	Pb		
1	20654	45	1.15	20	15	x	210	40		
2	20655	70	1.05	20	30	0.5	170	60		
3	20656	805	3.75	110	160	1.0	320	730		
4	20657	30	5.35	100	60	x	220	65		
5	20658	90	6.45	150	205	0.5	250	70		
6	20659	80	12.0	165	155	0.5	490	50		
7	20660	65	9.45	95	80	x	370	110		
8	20661	90	8.80	200	70	0.5	390	110		
9	20662	670	6.00	135	335	x	430	180		
10	20663	470	7.10	100	500	0.5	570	260		
11	20664	3250	8.35	775	2175	0.5	510	360		
12	20665	2250	9.15	90	1500	1.0	700	625		
13	20666	165	4.75	70	185	x	280	230		
14	20667	960	4.15	85	280	0.5	360	295		
15	20668	65	3.45	15	15	x	210	35		
16	20669	40	1.10	10	10	0.5	160	20		
17	20670	50	1.10	15	10	x	230	15		
18	20671	75	1.85	15	10	x	200	45		
19	20672	15	0.20	5	5	x	60	15		
20	20674	4350	9.65	45	400	0.55	500	355		
21	20675	9200	9.20	195	195	0.5	450	755		
22	20676	5900	7.50	100	570	0.5	430	1250		
23	20677	2450	3.55	55	140	0.5	390	540		
24	20678	1150	4.95	75	145	x	500	535		
25	20679	4150	10.5	95	155	x	450	825		

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
	83.6 14 390	19.5.83	31256	2 OF 5

TUBE No.	SAMPLE No.	Mn	Fe%	Cu	Zn	Ag	Ba	Pb		
1	20680	3300	9.75	120	150	x	580	785		
2	20681	4750	9.60	135	205	x	410	1600		
3	20682	840	7.15	225	70	x	290	525		
4	20683	8550	9.85	110	620	0.5	320	3450		
5	20684	1.25%	14.0	85	1950	x	400	7350		
6	20685	1.00%	12.5	95	1650	0.5	390	1.82%*		
7	20686	165	3.90	105	220	0.5	160	335		
8	20687	55	1.45	20	190	x	180	115		
9	20688	235	2.75	25	50	x	270	65		
10	20689	50	0.75	10	15	0.5	150	45		
11	20690	40	1.10	15	10	0.5	120	60		
12	20691	65	0.80	10	10	0.5	110	15		
13	20692	55	1.10	10	10	x	160	20		
14	20693	950	3.50	25	20	x	250	35		
15	20694	205	2.70	20	45	x	100	45		
16	20695	410	3.85	55	490	x	280	520		
17	20696	930	2.70	45	2150	1.0	550	435		
18	20697	40	2.65	125	230	x	290	925		
19	20698	3250	10.0	120	530	1.0	770	915		
20	20699	1.05%	10.5	140	715	x	770	510		
21	20700	800	5.50	110	40	x	540	100		
22	20701	1550	8.00	150	85	x	630	1995		
23	20702	905	4.70	90	50	0.5	570	170		
24	20703	2100	7.60	115	60	x	520	395		
25	20704	990	5.10	50	70	x	590	105		

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
	83.S 14 390	19.5.83	31256	3 OF 5

TUBE No.	SAMPLE No.	Mn	Fe%	Cu	Zn	Ag	Ba	Pb		
1	20705	2800	6.15	115	60	×	600	385		
2	20706	1450	4.95	65	35	×	490	145		
3	20707	8000	11.0	130	115	0.5	940	285		
4	20708	5650	11.0	100	105	×	520	110		
5	20709	400	8.55	90	30	×	590	40		
6	20710	50	3.15	175	150	×	80	2550		
7	20711	400	7.10	45	385	×	470	310		
8	20712	65	3.05	25	55	×	330	75		
9	20713	530	6.25	65	145	×	530	210		
10	20714	100	2.65	25	50	×	320	70		
11	20715	115	1.45	20	35	×	250	35		
12	20716	250	4.15	20	10	×	240	45		
13	20717	65	0.79	15	10	×	220	10		
14	20718	180	4.90	20	5	×	250	40		
15	20719	540	2.20	15	5	×	120	65		
16	20720	190	2.10	30	5	×	250	40		
17	20721	145	3.55	20	15	0.5	340	50		
18	20722	125	1.20	20	50	×	260	110		
19	20723	65	1.15	20	25	×	220	65		
20	20724	40	0.79	15	10	×	190	15		
21	20726	4300	8.50	70	70	×	540	50		
22	20729	42000	8.65	105	25	×	670	155		
23	20730	5000	6.60	85	40	×	510	165		
24	20731	4450	5.00	60	15	×	360	75		
25	20732	2650	4.80	30	10	×	240	60		

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
	83.8 14 390	19.5.83	31256	4 OF 5

TUBE No.	SAMPLE No.	Mn	Fe%	Cu	Zn	Ag	Ba	Pb		
1	20733	4700	4.15	45	125	0.5	320	150		
2	20737	710	5.95	30	10	x	230	70		
3	20738	195	2.00	15	5	x	130	15		
4	20739	335	1.50	15	5	x	140	20		
5	20740	680	4.60	50	35	x	640	50		
6	20741	8450	6.00	70	70	x	390	175		
7	20742	1.75%	9.45	80	95	x	510	265		
8	20743	680	8.35	70	250	x	380	450		
9	20744	50	2.70	75	15	0.5	310	60		
10	20745	550	7.35	100	70	x	450	1150		
11	20746	155	8.35	40	15	0.5	-	5		
12	20747	455	6.35	110	30	x	410	25		
13	20748	80	8.20	165	20	x	370	35		
14	20749	165	4.65	140	65	0.5	350	40		
15	21301	5500	23.0	70	6350	10.0	560	17.9%*		
16	21302	125	23.5	110	65	1.0	250	300		
17										
18										
19										
20										
21										
22										
23										
24										
25										

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

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	83.0 14 390	19.5.83	31256	5 OF 5

TUBE No.	SAMPLE No.	Mn	Fe%	Cu	Zn	Ag	Ba	Pb		
1	R 20654	45	1.15	15	20	x	180	35		
2	R 20674	4250	9.75	45	395	x	470	345		
3	R 20695	415	4.05	55	500	x	260	515		
4	R.20714	95	2.40	25	45	x	350	65		
5	R 20738	600	6.05	70	70	x	400	170		
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22	* - Analysed by Method 601									
23	DETECTION	5		5	5	0.5	10	5		
24	DIGESTION	101	101	101	101	101		101		
25	METHOD	101	101	101	101	101	120	101		

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

8 19.5.83

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5% 5004% pH

APPENDIX 2

Costean Geochemical Results

Appendix B

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

Costeans Mulgrave Point

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	83.8 14 393	25.5.83	32172	1 OF 3

TUBE No.	SAMPLE No.	Mn	Fe%	Cu	Zn	Ag	Sn	Ba	Au	Pb
1	20851	1.75%	10.5	90	1250	0.5	15	390	0.008	200
2	20852	5600	8.95	150	820	x	4	600	0.024	580
3	20853	2.15%	13.0	115	395	x	3	450	x	680
4	20854	5750	10.5	60	150	0.5	6	430	x	205
5	20855	1.15%	10.5	65	415	x	10	430	x	225
6	20856	1.85%	12.0	75	275	x	3	470	x	250
7	20857	2.80%	11.5	90	110	0.5	x	430	x	310
8	20858	2.20%	9.05	95	160	x	4	360	x	240
9	20859	2.85%	11.0	80	100	0.5	3	330	x	160
10	20860	3.55%	11.5	100	105	x	7	460	x	130
11	20861	3.00%	11.5	105	435	x	5	480	x	245
12	20862	3.25%	13.0	85	1950	x	30	540	x	355
13	20863	5.00%	13.0	90	2650	x	25	450	x	255
14	20864	2.80%	12.0	50	4400	x	20	640	x	530
15	20865	1.35%	11.0	75	6050	0.5	15	630	x	960
16	20866	1.85%	10.5	40	4200	x	50	550	0.008	565
17	20867	2500	4.70	30	1300	x	6	370	–	350
18	20868	1450	3.30	25	750	x	6	290	–	130
19	20869	3650	5.60	25	870	0.5	5	280	–	325
20	20870	1350	4.60	50	650	0.5	4	380	–	135
21	20871	3300	4.90	120	1700	0.5	9	440	–	130
22	20872	3700	5.60	115	2500	0.5	6	290	–	185
23	20873	3350	7.65	75	2300	x	5	460	–	740
24	20874	7850	10.5	50	2000	0.5	5	390	–	2000
25	20875	5550	6.80	50	1700	x	5	550	–	775

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 MacDonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	83.8 14 393	25.5.83	32172	2 OF 3

TUBE No.	SAMPLE No.	Mn	Fe%	Cu	Zn	Ag	Sn	Ba	Au	Pb
1	20876	1650	4.50	70	1200	x	5	400	–	245
2	20877	1600	3.95	105	450	x	8	420	–	170
3	20878	1800	4.55	120	275	x	5	450	–	135
4	20879	5100	6.15	150	230	0.5	10	450	–	145
5	20880	2100	6.05	175	290	0.5	8	480	–	180
6	20881	2300	6.00	160	200	0.5	9	470	–	100
7	20883	480	3.90	70	1650	0.5	8	450	0.008	0.65%
8	20884	700	4.60	75	2400	0.5	6	440	x	0.93%
9	20885	795	5.75	115	2800	0.5	7	470	x	1.30%
10	20886	1200	2.95	65	1150	0.5	9	500	x	1.49%
11	20887	2100	4.25	95	1350	1.5	15	350	x	3.90%
12	20888	6050	8.25	180	1700	0.5	10	440	x	5.78%
13	20889	2400	10.5	95	3000	3.5	5	200	x	5.05%
14	20890	8100	6.55	130	1100	0.5	4	330	x	1.64%
15	20891	260	10.5	95	505	0.5	10	280	x	0.79%
16	20892	1600	10.5	85	675	x	9	450	x	4450
17	20893	4900	10.5	50	1950	x	8	520	x	540
18	20894	1.30%	10.5	75	1200	x	7	260	x	2450
19	20895	2.05%	11.5	60	1300	x	x	350	x	275
20	20896	1.70%	9.70	60	935	x	9	320	x	325
21										
22										
23										
24										
25										

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

AUTHORISED OFFICER

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	83.8 14 393	25.5.83	32172	3 OF 3

TUBE No.	SAMPLE No.	Mn	Fe%	Cu	Zn	Ag	Sn	Ba	Au	Pb
1	R 20851	1.75%	10.5	85	1150	x	–	360	0.008	195
2	R 20870	1400	4.45	50	860	x	–	400	–	185
3	R 20892	1600	10.5	80	645	0.5	–	420	x	4400
4										
5										
6										
7										
8										
9										
10										
11										
12		SAMPLES		20883 - 20891		- Pb ANALYSED				
13			BY	METHOD 601						
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5		5	5	0.5	3	10	0.008	5
24	DIGESTION	101	101	101	101	101				101
25	METHOD	101	101	101	101	101	402	120	303	101

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

AUTHORISED OFFICER _____

APPENDIX 3

Expenditure Breakdown

APPENDIX 3

Major Activity	Staff Salaries	Staff Wages	Consultants/ Contractors' Fees	Vehicles	Travel Other	Accom.	Field Accom.	Field Equip.	Office Equip.	Other	Sub-Totals
Geology	5975	478	217		49						
Geochemistry	170	212	2271								
Geophysics											
Access			474					127			
Gridding			600	21		10		1363			
Drilling:											
- diamond											
- other											
Drafting	1405										
Metallurgy											
Engineering											
Environmental											
Other									175	147	
SUBTOTALS	7550	690	3562	21	49	10		1490	175	147	

TOTAL	13694
LOCAL OFFICE OVERHEADS	3232
HEAD OFFICE OVERHEADS	4367
G R A N D T O T A L	21293