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039001

COMINEX.  
P.O. Box 77,  
SORELL., TAS., 7172.

ANNUAL REPORT

and

APPLICATION FOR RENEWAL

E.L. 37/82

**OPEN FILE**

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**MICROFILMED**

56-2540

AMG REFERENCE POINTS ADDED

001

SILICA FLOUR

Evaluation of further silica flour potential outside the existing mineral leases has been of high priority during the past twelve months.

The most successful approach to date has been to traverse on foot, areas of geological potential. The terrain, vegetation, gravel overburden and absence of man-made access to these areas has made the task labourious and time consuming. Success to date has been the identification of high grade flour immediately north of but outside the existing leases. It appears to be an extension of the known deposits which has been dissected by Timbs creek. (See appendix A.)

Attempts to establish a link between deposits of silica flour and airborne magnetic data and terrain or vegetation has not proved of value to date. The flour is believed to emanate from a dolomite, however surface reconnaissance of the district has resulted in six samples of dolomite, each of which as hand specimens, appear different. Thin section interpretation is currently being carried out on these specimens.

002

ALLUVIAL GOLD

Panned concentrate sampling of Tertiary alluvials in the southern part of the exploration licence is in progress.

To date, five composite samples each of 200 kg have been manually panned down. Using a binocular microscope the gold has been separated from the concentrate and then weighed on an electronic micro balance. (See appendix A.)

Results to date have not been encouraging. Where yields might be approaching an economic level, (0.25 PPM) the reserves of auriferous alluvials appear to be limited.

Further work is to be carried out on these alluvials with priority being given to the identification and sampling of the older gravels and wash zones of an earlier drainage system.

003

GENERAL

With the exception of the Longback 1 anomaly, it is considered that all the magnetic targets on the licence area have been adequately tested by Geopeko.

Some sections of the Longback 1 core were tested for the additional elements of Ni, Cr and Co. The four samples tested gave the following range and mean values:

	RANGE (PPM)	MEAN (PPM)
Ni	100-175	141
Cr	65-115	87
Co	30-70	45

These values are within the range of normal background to be expected in the black shales and dolomitic shales intersected at Longback 1. The potential for economic concentrations of these metals associated with the pyrrhotite in the Longback 1 anomaly is virtually eliminated. (See appendix B.)

Goldfields Exploration carried out some preliminary sampling at the Longback 1 and in the S.E. portion of the E.L. (See appendix C.)

COMINEX

EXPLORATION EXPENDITURE

EXPLORATION LICENCE 37/82

PERIOD 1.4.85 TO 31.3.86

Motor vehicle running cost	-	\$11 102
Accommodation & meals	-	3 070
Equipment hire	-	1 772
Contract Labour	-	700
Geological services	-	914
Reference materials	-	315
Government fees	-	779
Airfares & Freight	-	133
Consumable stores	-	405
Administration	-	1 551
		<hr/>
		\$20 741
		<hr/> <hr/>

I, Hugh Desmond NOLAN of Carlton Beach Road, Dodges Ferry, declare that the above expenditure of \$20,741 was incurred by COMINEX in carrying out exploration on Exploration Licence 37/82 in the period 1st April, 1985 to 31st March, 1986.

Signed  .....

H. D. NOLAN

 .....

Justice of the Peace

FUTURE EXPLORATION

- 1. Proving of silica flour reserves located to the north of existing leases and continued evaluation of the potential for additional occurrences within the licence area. This work will include reconnaissance mapping and surface sampling and when appropriate, occurrences will be auger drilled and analysed to determine purity.
- 2. Continued panned concentrate sampling of alluvials in the southern part of the exploration licence.
- 3. A joint venture partner will be sought with a view to re-evaluation of the ground magnetic data at the Longback One anomaly previously drilled by Geopeko.

4. Assessment of the protential for a Carlin type mineralisation occurrence in the southern ~~position~~ of the licence area.  
 Existing ~~areas~~ are: <sup>PORTION</sup>

*INDICATORS*

- a) Silica development associated with the Cambrian and Precambrian dolomites in the general area of alluvial gold.
- b) Lacy agate and jasper float occurrence in particular areas of alluvial gold concentration. (eg. Lincolns, Doodie and nearly Middletons Creek).
- c) Organic material with associated pyrite in silica flour overlying dolomite bedrock.

Typical criteria for the Carlin type of mineralisation is the association of gold with silicified carbonates, associated jasper zones and the presence of anomalous amounts of organic material.

006

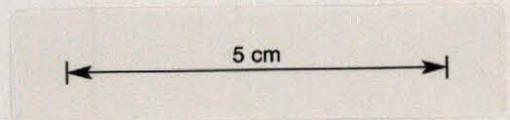
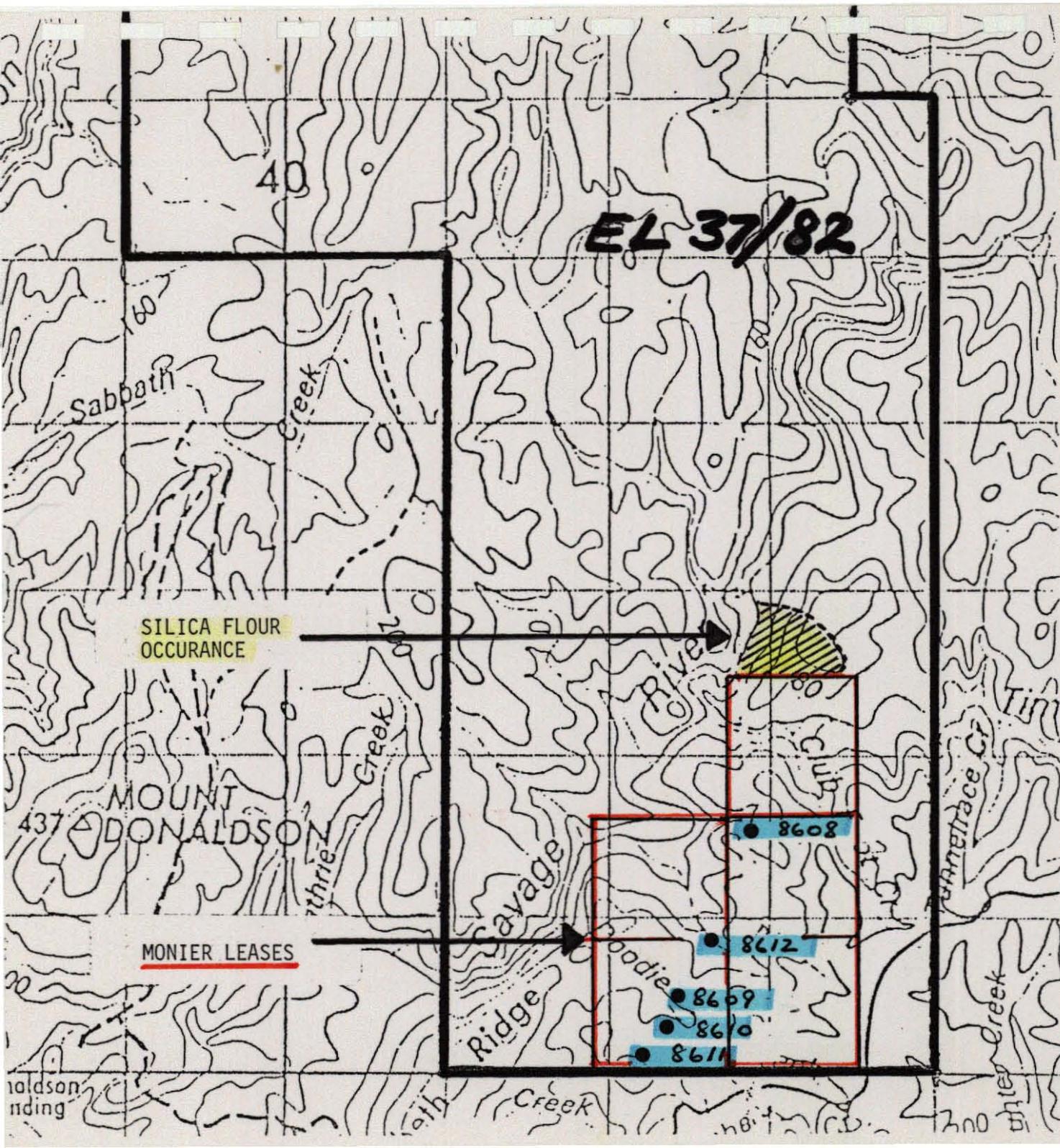
- EXTENSION OF  
SILICA FLOUR OCCURANCE

- ALLUVIAL GOLD SAMPLING  
(200Kg composite samples)

<u>SAMPLE</u>	<u>AU (PPM)</u>
8608	0.15
8609	0.19
8610	0.23
8611	0.25
8612	0.10

039007

APPENDIX A





008

# ANALABS

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

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## ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.0 08 3554

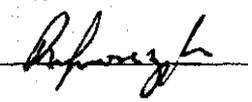
4.3.86

1 OF 2

TUBE No.	SAMPLE No.	Ni	Cr	Co					
1	LR 1 8601	175	115	70		DEPTH.			
2	LR 1 8602	170	90	45		70 <sup>m</sup>			
3	LR 1 8603	120	80	30		130 <sup>m</sup>			
4	LR 1 8604	100	65	35		190 <sup>m</sup>			
5						250 <sup>m</sup>			
6									
7									
8									
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23									
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25									

LONGBACK (1)  
SPLIT CORE

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 

SIGNATURE:  WITNESS: .....  
 NAME: 23.2.81

009

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: AC-PR-MS

PROJECT: GENERATION

PROSPECT: LONGBACK (NOLAN)

SAMPLE STORAGE REQ'D:

LABORATORY: ANALABS

DATE DISPATCHED: 1/86

1:250,000 SHEET: PIRMAN

TYPE OF SAMPLE: ROCK CHIP

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

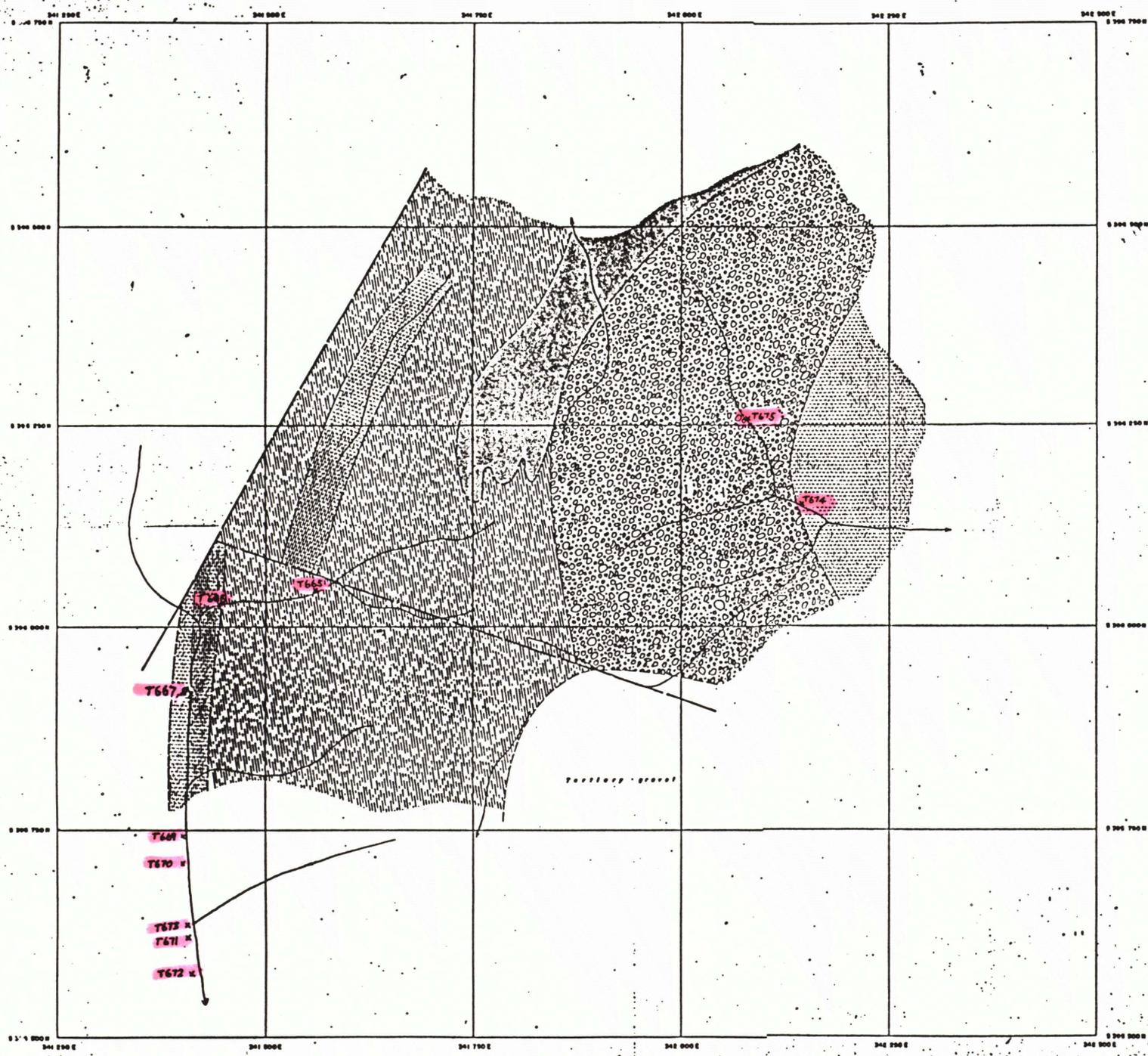
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES (ppm)								
				Au	Ag	As	Bi	Ba				
T 665	S 396 04S N	341 550 E	Bedded, pyritic black carbonaceous shale.	0.015	<0.1	10	<1	555				
T 666	038N	446E	Petrographic sample. Banded light-medium grey, very fine-grained sediment. Possibly calcareous, probably silicified.									
T 667	S 395 901 N	341 407 E	Silicified? dolomite. Minor black chalcite along fractures.	<.008	"	<1	"	<20				
T 668	533N	406E	Calcareous siltstone/dolomite. Silicified (partly) and possibly brecciated.	"	"	"	"	"				
T 669	744N	402E	Moderately silicified, very fine-grained, pale grey calcareous siltstone/dolomite. Very fine quartz veins occur also.	"	"	"	"	"				
T 670	713N	403E	Soft, weakly silicified calcareous siltstone.	"	"	"	"	"				
T 671	604N	408E	Silicified calcareous siltstone/dolomite. Veinlets of quartz present.	"	"	"	2	"				

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APPENDIX C





INTERPRETATION GEOLOGY

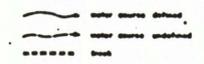
ROCK TYPES



GEOLOGICAL KEY



TOPOGRAPHIC FEATURES



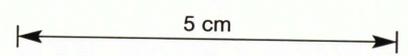
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FIG. 2. INTERPRETATIVE GEOLOGY, LONGBACK 1 MAGNETIC ANOMAL E.L. 37/82. (Pemberton, 1984).

The locations of the GFEL. sample are shown.

SCALE (APPROX.) 1:7,000



012

## GOLD FIELDS EXPLORATION PTY. LTD.

## SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *ASC/AR*PROJECT: *GENERATION*PROSPECT: *EL 37/82 (NOLAN)*

SAMPLE STORAGE REQ'D:

LABORATORY: *ANALABS*DATE DISPATCHED: *AUG. 83.*

1:250,000 SHEET:

TYPE OF SAMPLE: *ROCK CHIP*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES (ppm)					
			Au	Ag	As	Cu	Pb	Zn
T 655	On road to Doodie Creek	Grey siltstone	0.015	<0.1	2	62	1	137
T 656	" "	Green-brown, massive buff. Slightly magnetic.	<0.022	"	<1	130	<1	76
T 657	Doodie Ck/Savage R.	Grey-green, fine-grained basic volcanic. Partly weathered. ? basalt.	<0.005	"	"	94	"	97
T 658	Brookside Workings	Partly silicified, grey carbonate. Some apparent breccia textures, quartz veined.	"	"	"	7	1	16
T 659	Down stream from T 658.	Grey-black shale with disseminated pyrite and pyrite in beds and on joint faces. Clasts of green-grey volcanic and siliceous pyritic rock.	"	"	2	60	4	85
T 660	Timbs Ck/Savage R.	Green basic volcanic, moderately-strongly magnetic. Contains magnetite (coarse) crystals.	"	"	1	162	<1	102
T 661	On road to Timbs Ck.	Crenulated, slightly magnetic grey siltstone.	"	"	2	140	2	119

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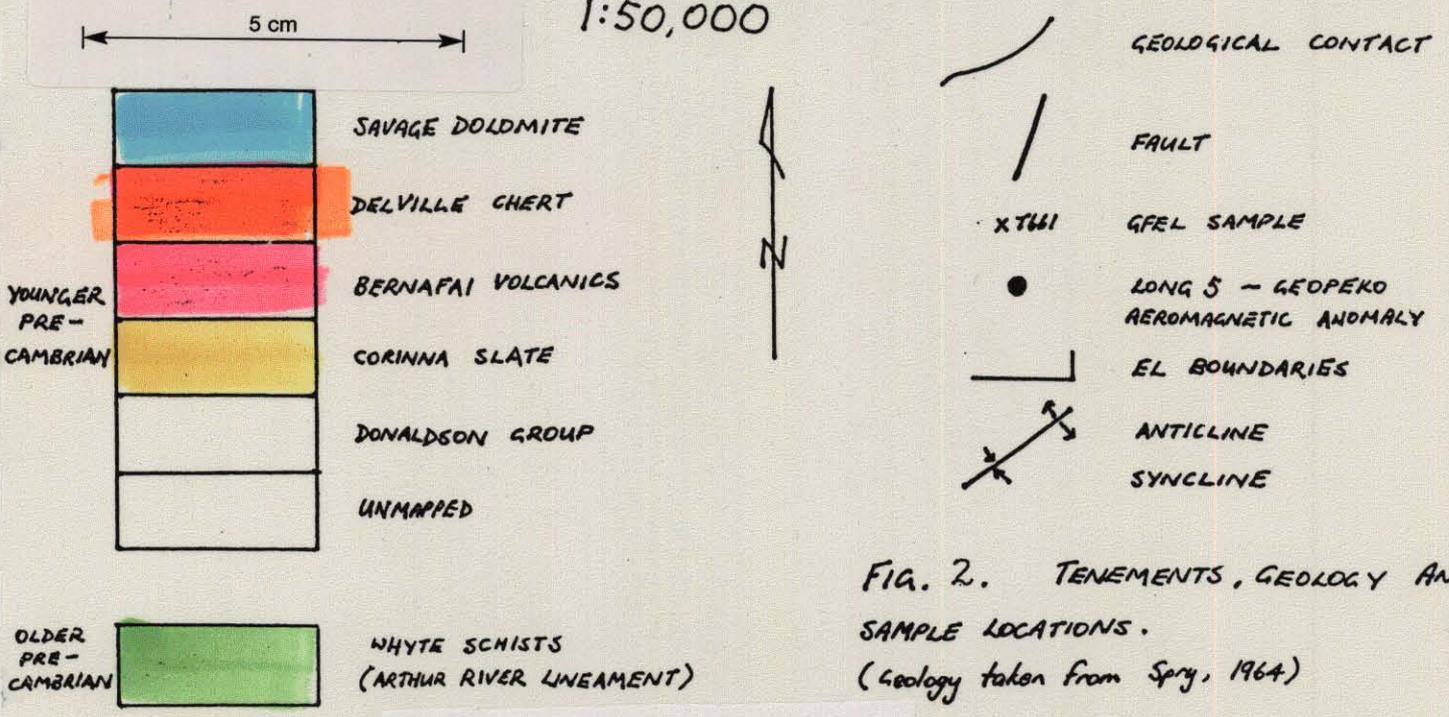
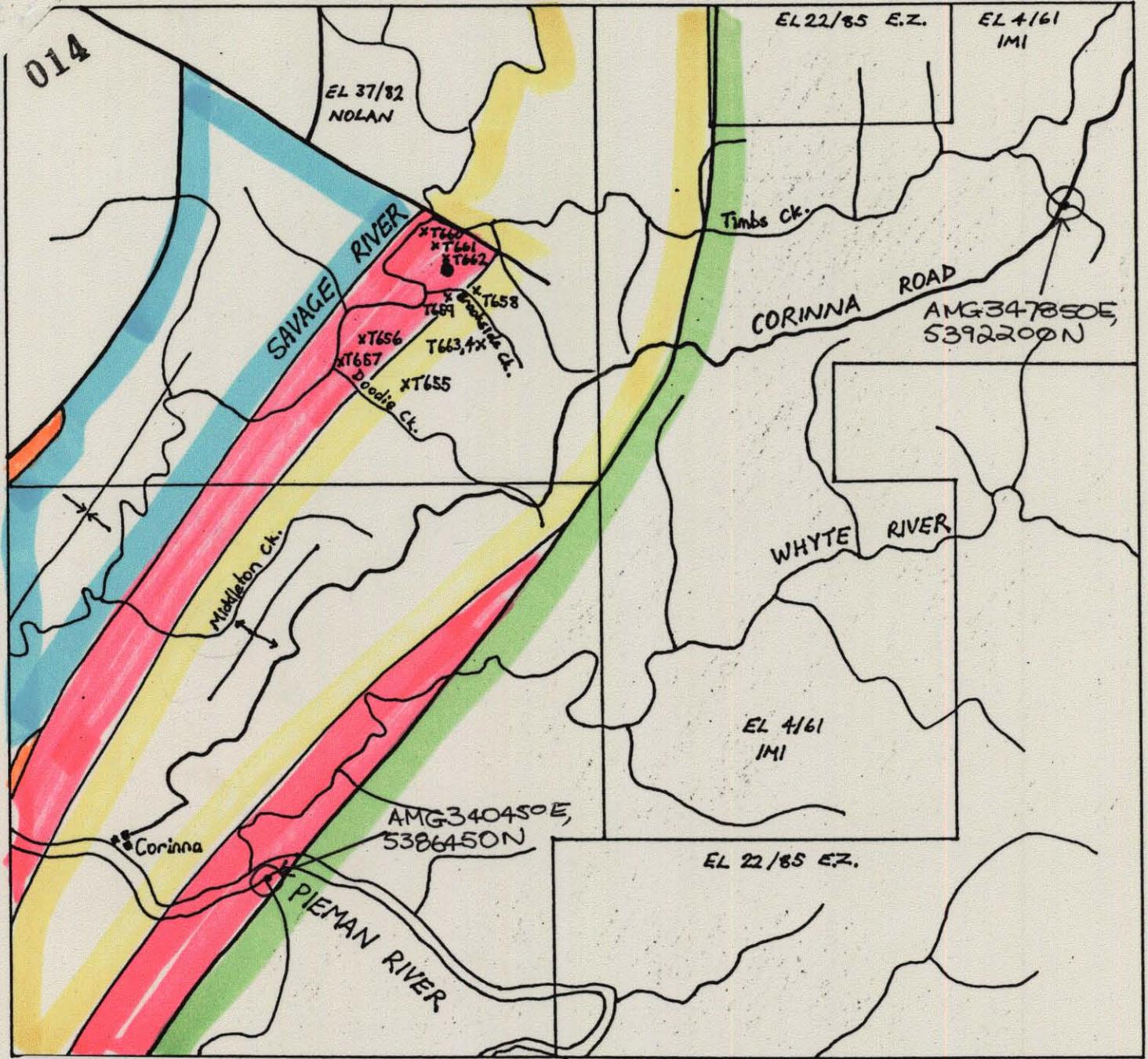


FIG. 2. TENEMENTS, GEOLOGY AND SAMPLE LOCATIONS.  
(Geology taken from Spry, 1964)

AMG REFERENCE POINTS ADDED