MAR 19750006: ATHABASCA

Received date: Dec 31, 1975

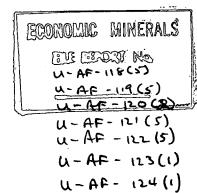
Public release date: Jan 01, 1977

DISCLAIMER

By accessing and using the Alberta Energy website to download or otherwise obtain a scanned mineral assessment report, you ("User") agree to be bound by the following terms and conditions:

- a) Each scanned mineral assessment report that is downloaded or otherwise obtained from Alberta Energy is provided "AS IS", with no warranties or representations of any kind whatsoever from Her Majesty the Queen in Right of Alberta, as represented by the Minister of Energy ("Minister"), expressed or implied, including, but not limited to, no warranties or other representations from the Minister, regarding the content, accuracy, reliability, use or results from the use of or the integrity, completeness, quality or legibility of each such scanned mineral assessment report;
- b) To the fullest extent permitted by applicable laws, the Minister hereby expressly disclaims, and is released from, liability and responsibility for all warranties and conditions, expressed or implied, in relation to each scanned mineral assessment report shown or displayed on the Alberta Energy website including but not limited to warranties as to the satisfactory quality of or the fitness of the scanned mineral assessment report for a particular purpose and warranties as to the non-infringement or other non-violation of the proprietary rights held by any third party in respect of the scanned mineral assessment report;
- c) To the fullest extent permitted by applicable law, the Minister, and the Minister's employees and agents, exclude and disclaim liability to the User for losses and damages of whatsoever nature and howsoever arising including, without limitation, any direct, indirect, special, consequential, punitive or incidental damages, loss of use, loss of data, loss caused by a virus, loss of income or profit, claims of third parties, even if Alberta Energy have been advised of the possibility of such damages or losses, arising out of or in connection with the use of the Alberta Energy website, including the accessing or downloading of the scanned mineral assessment report and the use for any purpose of the scanned mineral assessment report so downloaded or retrieved.
- d) User agrees to indemnify and hold harmless the Minister, and the Minister's employees and agents against and from any and all third party claims, losses, liabilities, demands, actions or proceedings related to the downloading, distribution, transmissions, storage, redistribution, reproduction or exploitation of each scanned mineral assessment report obtained by the User from Alberta Energy.





URANERZ EXPLORATION & MINING LTD.

GEOPHYSICAL ASSESSMENT REPORT

DISCUSSION OF AIRBORNE MAGNETIC

SURVEY RESULTS

N. W. ATHABASCA AREA, NORTHERN ALBERTA

PROJECT # 71 - 41

E. R. ROCKEL

TABLE OF CONTENTS

		PAGE
1.	INTRODUCTION	1
2.	DISCUSSION OF RESULTS	2
3.	CONCLUSIONS AND RECOMMENDATIONS	2
Figure # :		3 4
Map # 1 Map # 2 Map # 3 Map # 4	Airborne Magnetometer Survey Airborne Magnetometer Survey Airborne Magnetometer Survey Airborne Magnetic Contour Map	:

1. INTRODUCTION

The survey area is located approximately between latitudes $58^{\circ}45'$ and $59^{\circ}20'$ and longitudes $109^{\circ}15'$ and $110^{\circ}0'$ in a 15 km band (approx.) along the north shore of Lake Athabasca.

The dispositions surveyed are:

```
No. 189
          Loc. Rge. 1
                         Twp.
                               118 W. 4 Mer.
                               119 W. 4 Mer.
          Loc. Rge. 1
                         Twp.
                         Twps. 117 + 118 W. 4 Mer.
No. 190
          Rges. 1 + 2
No. 191
          Rges. 2 + 3
                         Twps. 117 + 118 W. 4 Mer.
          Rges. 3 + 4
No. 192
                         Twps. 116 + 117 W. 4 Mer.
                         Twps. 114 + 115 W. 4 Mer.
No. 193
          Rges. 4 + 5
No. 194
          Rge. 5
                         Twp.
                               113 W. 4 Mer.
                               114 W. 4 Mer.
          Rge. 5
                         Twp.
          Rge. 6
                         Twp.
                               113 W. 4 Mer.
                               114 W. 4 Mer.
          Rge. 6
                         Twp.
No. 195
          Rges. 2,3,+4
                         Twps. 117 + 118 W. 4 Mer.
```

The disposition holders are:

Uranerz Exploration & Mining Ltd. : 33 1/3% Inexco Mining Company : 33 1/3% Saskatchewan Mining & Developement Corp. : 33 1/3%.

The Survey took place in the period from September 7 to September 16, 1975 and was carried out by:

Jim Campbell - Pilot

Brain McFarlane - Aircraft Engineer

Ed Lalande - Geophysicist-Operator

Ed Rockel - Senior Geophysicist-Navigator and Supervisor.

Equipment used in the survey was:

Cessna 337 fixed-wing aircraft carrying

- 1 Gam-2 spectrometer
- 1 GSA-64 NaI sensor
- 1 RCM-8 recorder
- 2 PC-16 inverters
- 1 G-803 airborne magnetometer system
- 1 HP-7130 A recorder
- 1 45-F direction finder and
- 1 AA-200 radar altimeter.

Sensitivity of the magnetometer was set at $1\ \text{gamma}$ with a repetition rate of $0.5\ \text{seconds}$.

The survey was conducted at a mean terrain clearance of 60 meters with survey lines flown at $\frac{1}{2}$ km intervals from photomosaic maps.

2. DISCUSSION OF RESULTS

The most apparent magnetic phenomenon is a major change in magnetic intensity, on sheets number 1 and 2, signifying a change in magnetic susceptibility from one zone of intensity to the other. The susceptibility change is outlined by lines " A-A". Lines " F-F" indicate discontinuities in the magnetic contours which may have structural implications.

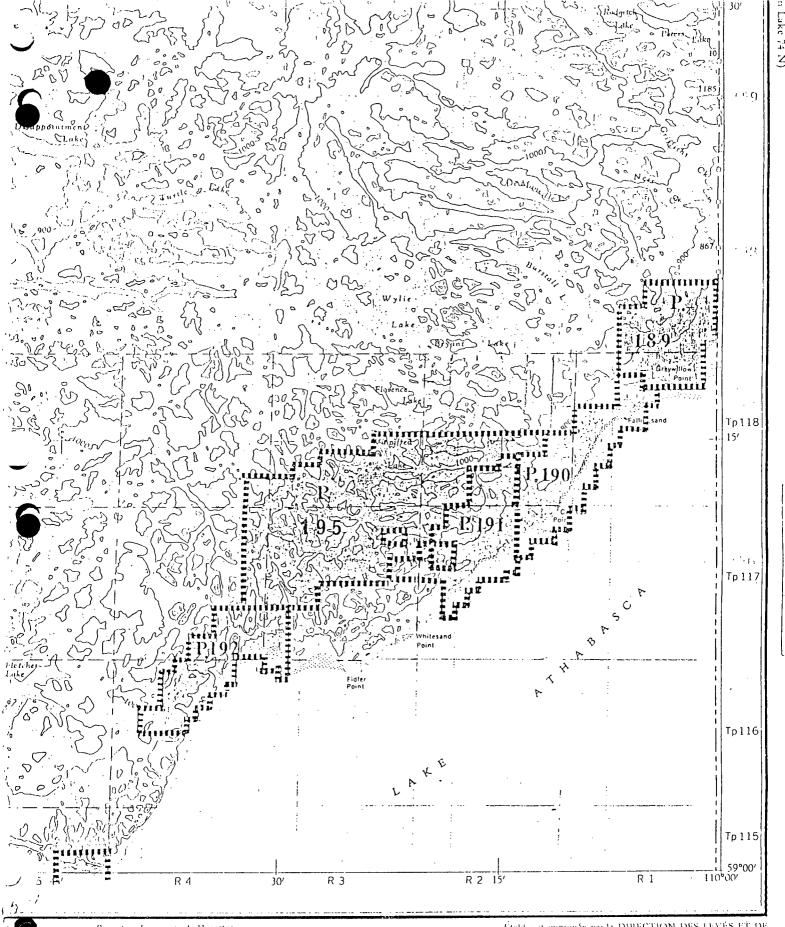
3. CONCLUSIONS AND RECOMMENDATIONS

The major magnetic susceptibility change "A - A" is interpreted as a contact between non-magnetic sedimentary rock and more magnetically active gneissic or granitic basement rock.

The structural features " F - F" are believed to be faults or fracture zones which appear to have displaced the rock change interface along its length. The feature F - F on Map # 4 is interpreted as a questionable fault zone. The contours here indicate a wide area of disturbance.

Re - assessment of the radiometric results with particular reference to the interpreted faults at the rock contact should provide additional basis for determining priorities for ground follow-up.

Attention should be given to any anomalies near the questionable fault on Map # 4.



Projection Transverse de Mercator
Réseau géodésique nord américain moiré (1927)
É quidistance des courbes 100 pieds
Etévations en poets au dessus du riveau moyen de la mer
Déclinar en magnétique au centre de la fruidte en 1963-27°34' Est

Utable et imprinde par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DES MINES ET DES RELEVÉS TECHNIQUES en 1963, d'acrès les photographies acrenies prises en 1965. L'avaux exécutés sur le terrain et vérification des ouvrages en 1957.

Cos carpos contiendos se se los los conocides distribution des cartes.

Figure # 1 1975006 2 /

DA	AL	BE	RTA	EDITION 3-4	1 - 250),000
3	l R5		:! R 4	30' R 3		W.4 Mer.
Lake		12	3	,€gg!	İ	
		がかない。 大学のでは、 大学のでは	Burntwood	- C		Pt Brule
				C		and a second sec
2	Thetter Pt	ucas Ucas Ulstands	*	\$	Stone Pt ()	
Pte Basse	Bustard Island		A A		Service .	
1· ····	-KE	700±				
	•					
Goose	J Big	Old	Fort PL	Moose PI Bay		
	Indian Village 1			Willow, and the state of the st		
FWYAN JOHC		98	34. 34. 34. 34. 34. 34. 34. 34. 34. 34.			
VE 201				The state of the s		
	The second	; !	(;, c, \)	The state of the s	 ,	

QUARTZ MINERAL EXPLORATION PERMIT NO.

192

This permit was cancelled and the Research Council

has not as yet received any reports for it.

SEE REPORT

189

QUARTZ MINERAL EXPLORATION PERMIT NO. 195

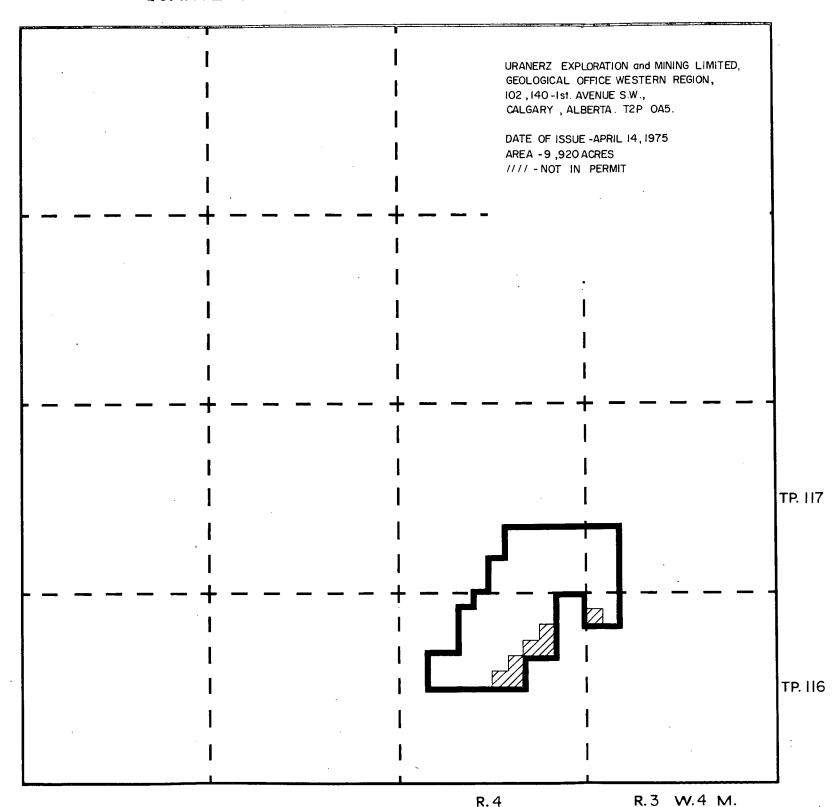
This permit was cancelled and the Research Council

has not as yet received any reports for it.

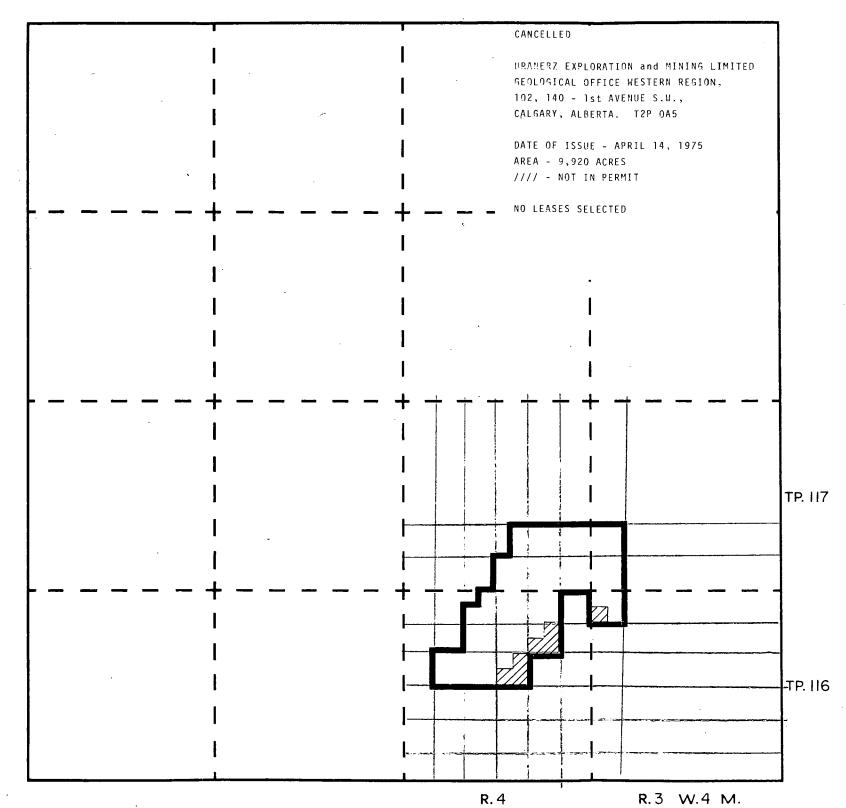
U-AF-124(1)

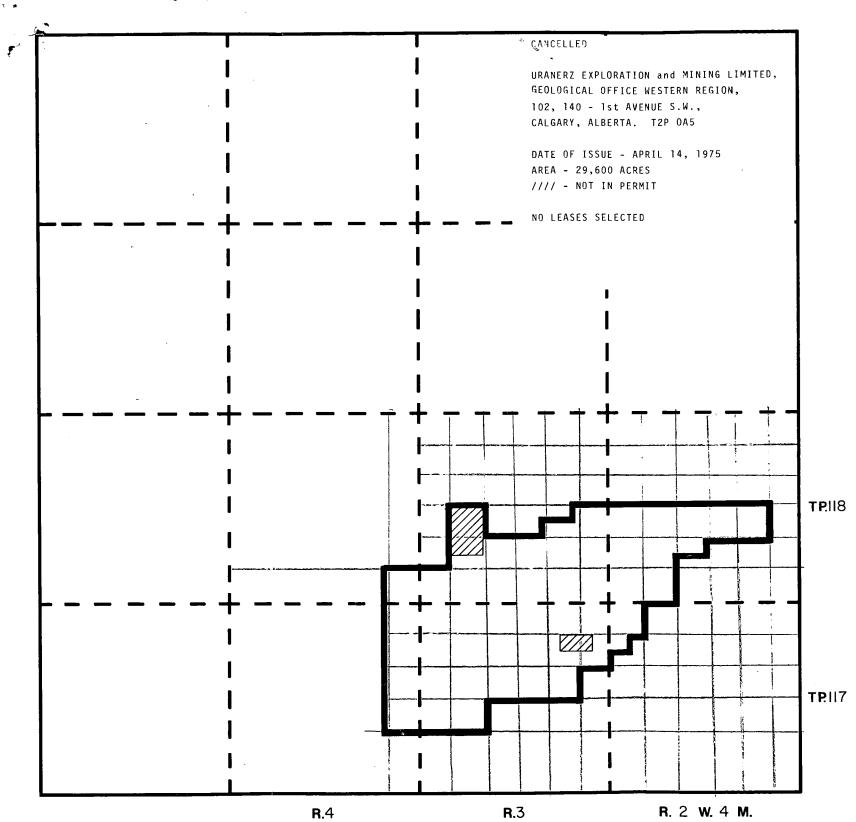
see seport parmit

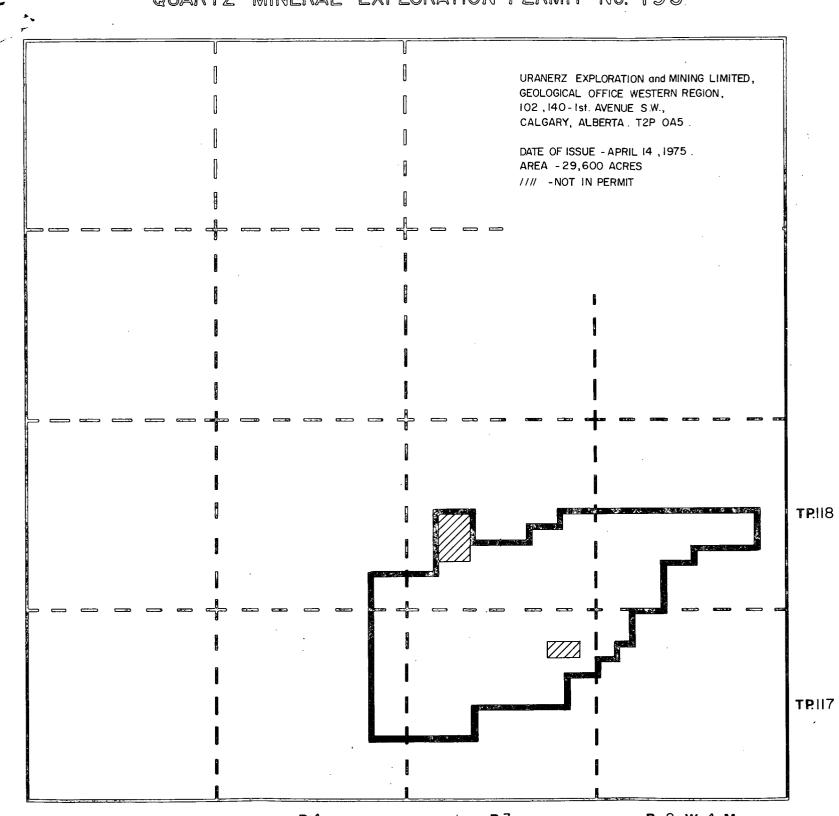
QUARTZ MINERAL EXPLORATION PERMIT No. 1922



QUARTZ MINERAL EXPLORATION PERMIT No. 1926







R.4

R.3

R. 2 W. 4 M.

