

# MAR 19770008: OLD FORT POINT

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REPORT ON  
QUARTZ MINERAL EXPLORATION PERMIT 204

AT  
OLD FORT POINT  
LAKE ATHABASCA, ALBERTA

WORK PERFORMED DURING THE PERIOD  
JANUARY 26, 1976 - JANUARY 26, 1977

BY  
J.W. MacLeod, P. Eng.

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Permit No. 204

## SUMMARY

During March and April 1976, a radiometric survey using a SRATT scintillometer was carried out over portions of quartz mineral exploration permit 204 located 20 miles southeast of Fort Chipewyan.

Snow cover reduced the radiation count by 40%, but the survey was effective in locating a low order anomaly indicated by a previous aerial survey.

A similar order anomaly was tested on permit 199, adjoining ground, and found not to be due to mineralization in the underlying rocks so further follow up of this anomalous condition is not recommended.

## PROPERTY

Quartz Mineral Exploration Permit No. 204 covers the following land:

Sec. 19, 20, 28-33	TWP.110	R4 W4 M
Sec. 4, S 1/2 5, 6, SW1/47,		
SE1/4 9; 10, 11, 12,		
S1/2 13 14 & 15	TWP.111	R4 W4 M

The permit was issued on January 26, 1976 and covers approximately 9,920 acres.

GENERAL

The property is located on the south shore of Lake Athabasca, 20 miles southeast of Fort Chipewyan and 40 miles northwest of Amoks' Cluff Lake uranium mine in Saskatchewan.

This is a sand and muskeg covered area with relief less than 50 feet above the lake level of 700.

The target of mineral exploration in this area is uranium mineralization close to the regolith between the Athabasca Sandstone and the basement complex where substantial orebodies have been demonstrated to occur at Cluff Lake, Key Lake and Rabbit Lake, to the east in Saskatchewan. A similar geological setting hosts the Australian deposits. Delimiting factors within this horizon appear to be structure in the basement rocks in the vicinity of favourable host rocks.

The initial step in the exploration for uranium in any area is the radiometric survey and the area of Permit 204 was covered by aerial work in 1969, the results of which are available at the Alberta Research Council offices. This work indicates a northwest trending anomaly, covered by the adjoining Permit No. 199 and a single line high close to the south boundary of Permit 204.

SCINTILLATION SURVEY

The radiometric work on Permit 204 was carried out in March and April with a SRATT model SP-2 scintillometer. No operational problems were encountered at temperatures of  $-25^{\circ}$  with the battery pack carried inside a parka. Experience on the adjoining Permit 199 suggest that readings taken over snow cover of 1 - 2 feet report at 60% of those with no snow or frost.

Reconnaissance lines were run to the north of Permit 199 to test for the extension of this anomaly onto Permit 204 without obtaining any above background readings of 10 - 15 counts per second.

Reconnaissance followed by flagged east-west grid lines at 200 meter interval and readings at 25 meter stations located the aerial anomaly on the boundary between Permit 204 and 203. Here, with background again 10 - 15 c.p.s., readings of plus 30 may be considered anomalous. The accompanying plan shows the major portion of this anomaly to occur over Permit 203.

CONCLUSIONS

The low order anomaly located could be due to three sources; change in underlying rock composition, radioactive boulders in the overburden or uranium mineralization.

From experience on the adjoining ground where a minimum thickness of 500 feet of sandstone cover has been demonstrated the only logical answer for the anomaly is transported boulders which are unlikely of economic significance.

RECOMMENDATIONS

Radiometrics is not a practical exploration tool where cover of mineralization in excess of 500 feet can be expected.

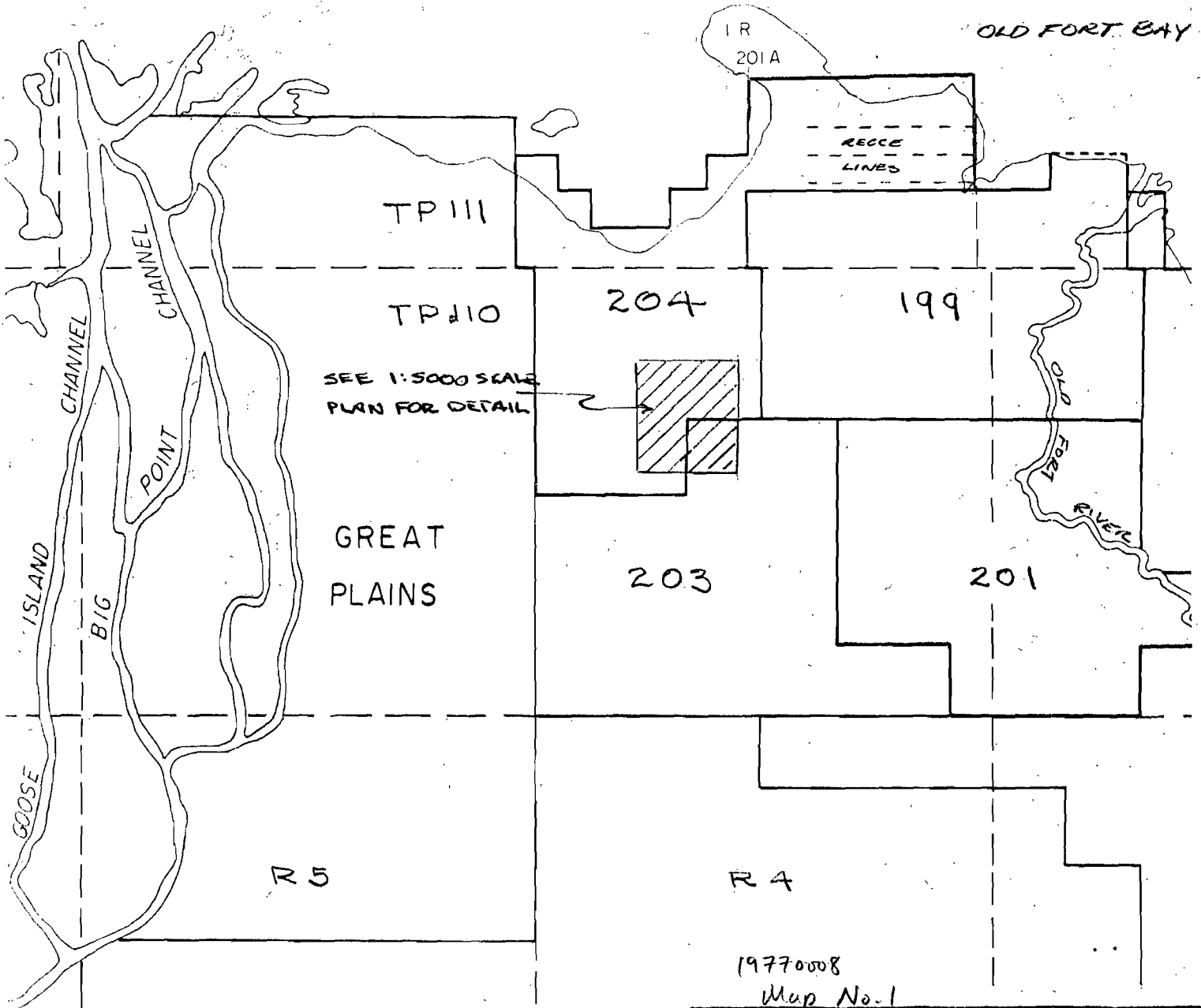
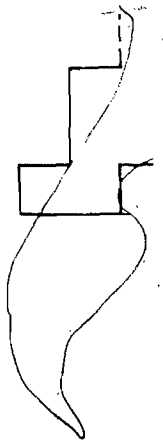
Further exploration in this area will depend on the depth to the regolith which may possibly be defined by resistivity or seismic methods. To determine the feasibility of this approach tests should be first carried out in the vicinity of the drill holes on the adjoining Permit No. 199.

Respectfully submitted,

J.W. MacLeod, P. Eng.

Vancouver, B.C.  
January 17, 1977

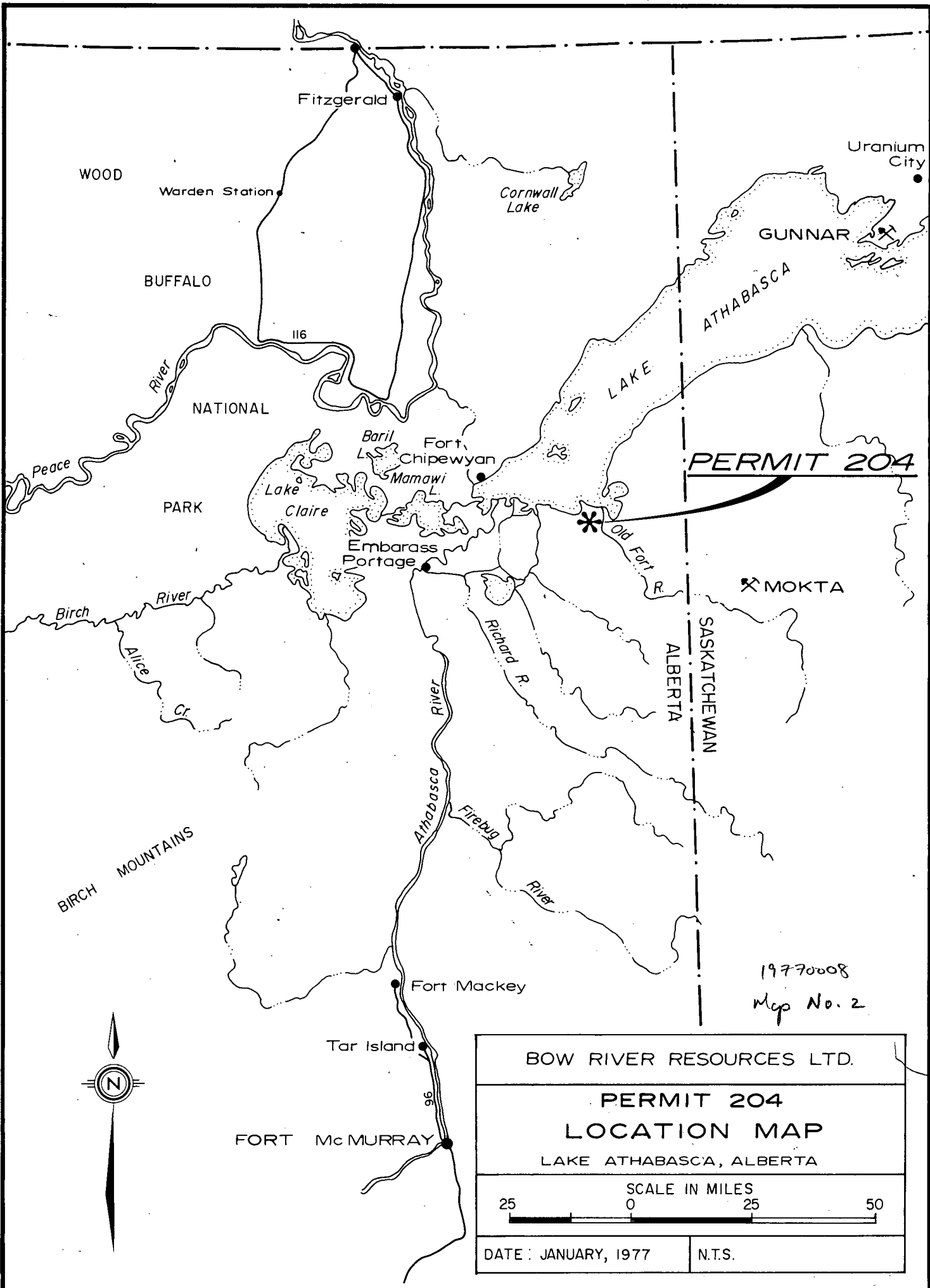
LAKE ATHABASCA



19770008  
Map No. 1

<b>MERV ENGINEERING CORP.</b>	
<b>PLAN OF PERMIT 204</b>	
<b>DRAWN BY: J.W.M.</b>	<b>SCALE: 1" = 2 miles</b>
<b>DATE: JAN. 17, 1977</b>	<b>N.T.S. :</b>





WOOD

Warden Station

Fitzgerald

Cornwall Lake

Uranium City

BUFFALO

GUNNAR

ATHABASCA

116

LAKE

NATIONAL

**PERMIT 204**

Peace River

Baril Lake  
Fort Chipewyan  
Mamawi

Old Fort R.

PARK

MOKTA

Birch River

SASKATCHEWAN  
ALBERTA

Alice Cr.

Richard R.

Athabasca River

BIRCH MOUNTAINS

Firebug River

Fort Mackey

19770008  
Map No. 2



Tar Island

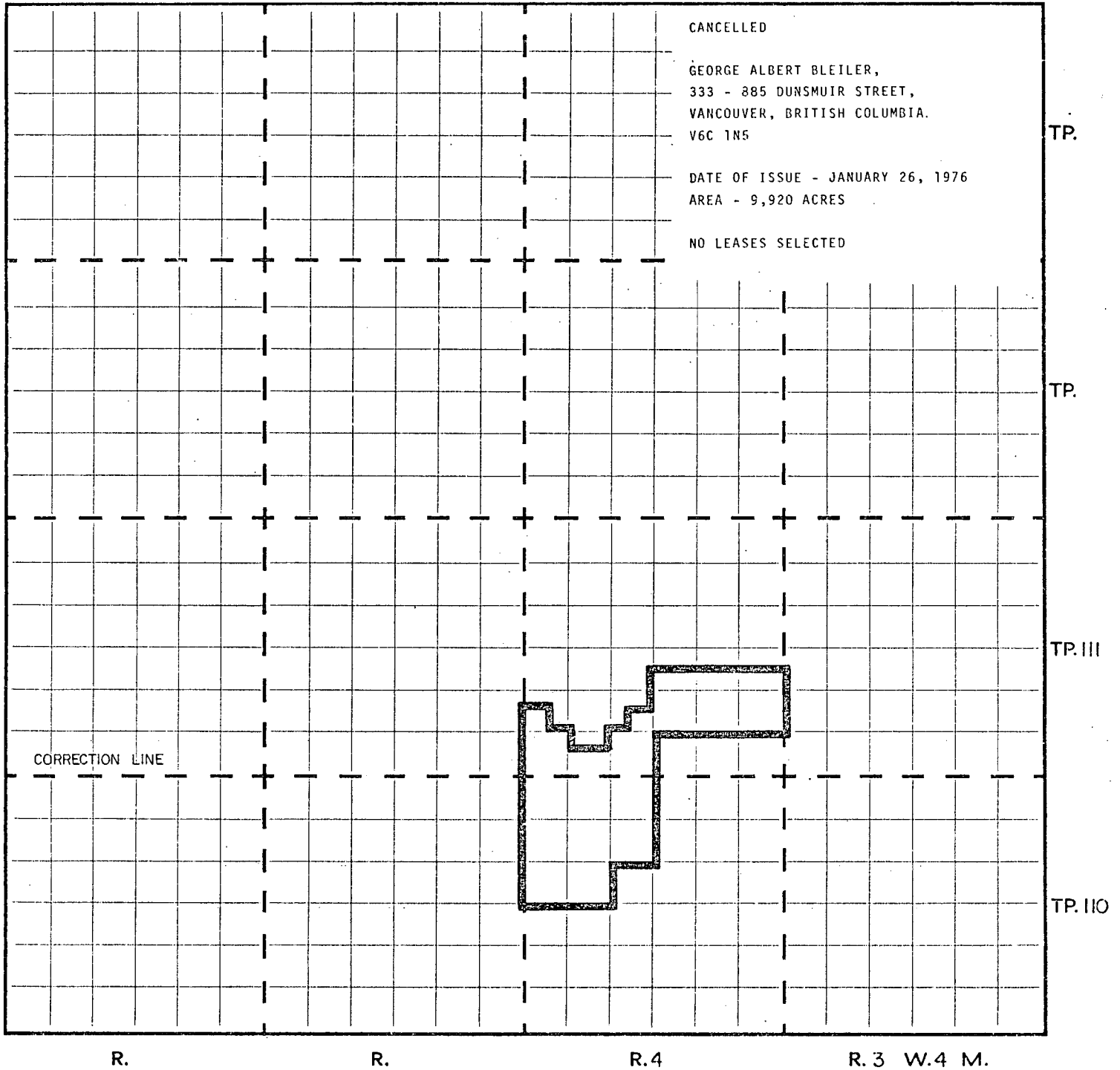
BOW RIVER RESOURCES LTD.	
PERMIT 204	
LOCATION MAP	
LAKE ATHABASCA, ALBERTA	
SCALE IN MILES	
25	0 25 50
DATE: JANUARY, 1977	
N.T.S.	

FORT McMURRAY

96

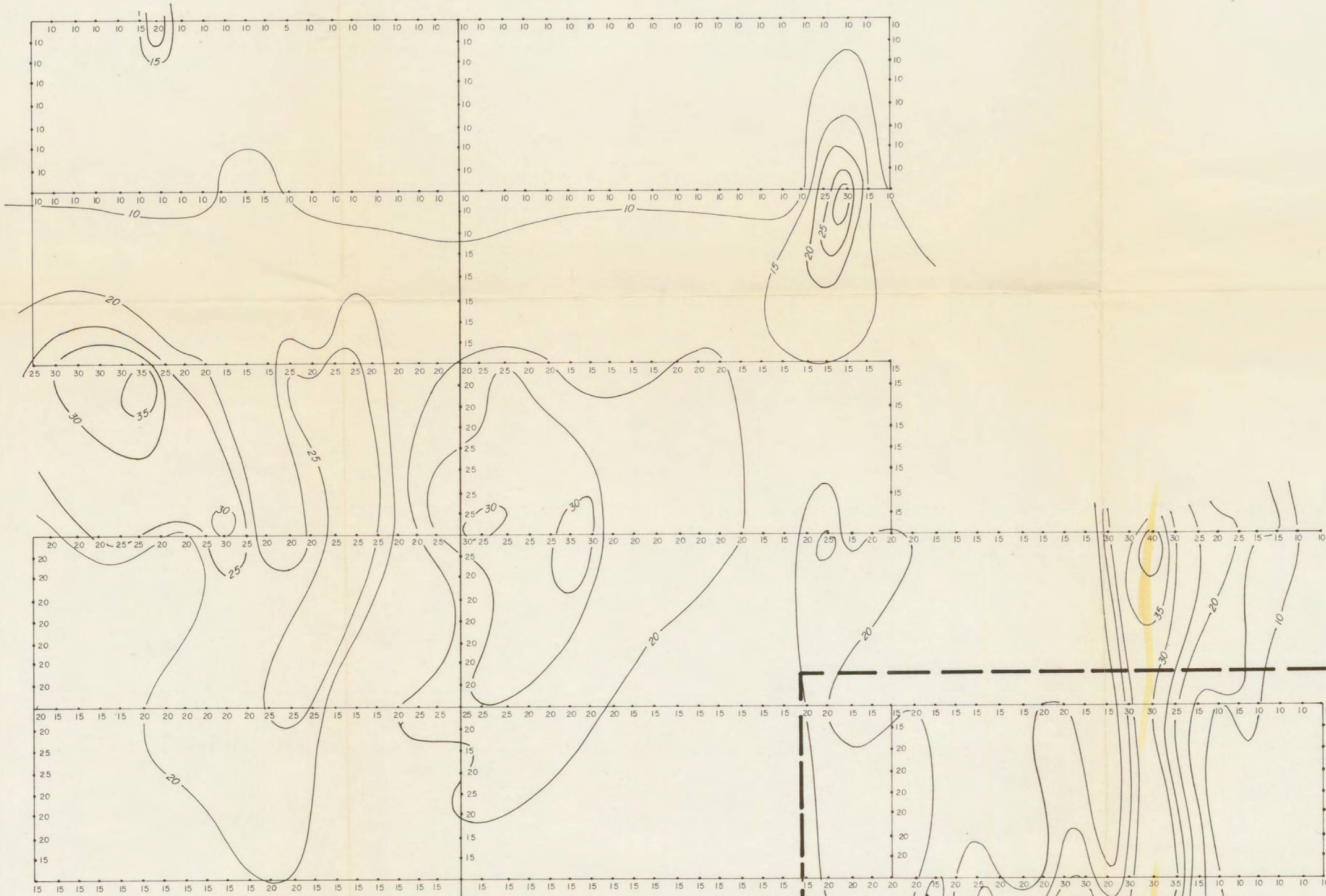
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# QUARTZ MINERAL EXPLORATION PERMIT No. 204





WEST 500 400 300 200 100 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 EAST

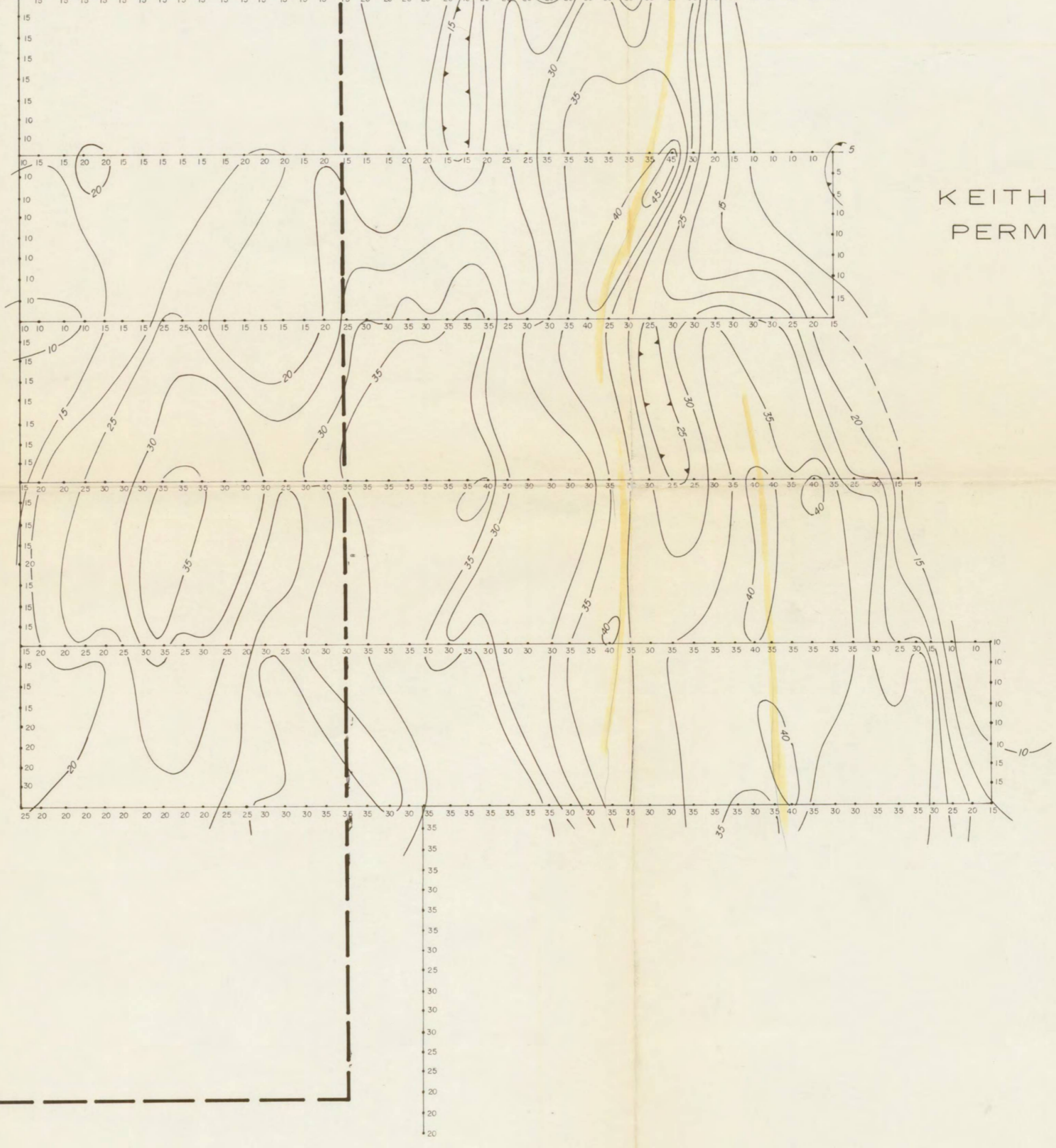


— L. 10 N.  
 — L. 8 N.  
 — L. 6 N.  
 — L. 4 N.  
 — L. 2 N.  
 — L. 0

BOW RIVER PERMIT 204

KEITH COPPER PERMIT 203

100 METRES



— L. 2 S.  
 — L. 4 S.  
 — L. 6 S.  
 — L. 8 S.  
 — L. 10 S.  
 — L. 12 S.  
 — L. 14 S.

ROAD

BOW RIVER RESOURCES LTD. & KEITH COPPER LTD.	
LAKE ATHABASCA, ALBERTA	
PERMIT 203 & 204	
SCINTILLOMETER SURVEY	
DRAWN BY : J. W. M.	SCALE : 1 : 5000
DATE : January - 1977	N.T.S.

Readings in counts per second