



42G07SW0018 63.2678 CARGILL

010

Suite 1101, 302 Bay Street,  
Toronto 105, Ontario

December 1, 1969.

Mr. Eric Rockingham, Manager,  
Union Carbide Exploration Ltd.,  
123 Eglinton Avenue East,  
Toronto 12, Ontario.

Dear Mr. Rockingham:

Submitted herewith is a report on:

MAGNETOMETER SURVEY  
CARGILL TOWNSHIP  
PORCUPINE MINING DIVISION  
ONTARIO

Twelve claims were staked to cover part of a possible carbonatite in Cargill Township in the Porcupine Mining Division of Ontario on February 20th, 1969. Immediately after staking, a grid system comprising 15.5 miles of picket lines was established. Concurrently with the line cutting a magnetometer survey was completed which delineated the western part of the carbonatite and showed that a regional northeast trending fault intersects the northwestern part of this feature.

The magnetometer delineated ring structures and outlined cone sheets which comprise this feature. It is thought that both the cone sheets and ring dyke may be mineralized.

Two diamond drill holes are suggested to test this mineralization.

CLAIMS:-

Twelve claims were staked in the northwest corner of Cargill Township on February 20th, 1969 and these claims were

recorded on February 24th, 1969. The location of the following listed claims are shown on the attached map:-

Claims:

P-101956	P-101960	P-101964
P-101957	P-101961	P-101966
P-101958	P-101962	P-101967
P-101959	P-101963	P-101968

MAGNETOMETER SURVEY:-

Immediately after staking work was commenced by the cutting of fifteen and a half (15.5) miles of picket lines at a maximum line spacing of 400 feet. Initially picket lines were established on an azimuth of 270°, but as the survey progressed additional north-south lines were established to define the arcuate pattern of the underlying rock. Mr. W. J. Richards of Sault Ste. Marie was the chief line cutter.

As soon as a picket line was cut and taped, it was covered with a magnetometer survey employing a Sharpe Fluxgate, model MF-1, magnetometer which measured the vertical magnetic intensity with a sensitivity of 10 gammas. All field observations were corrected for diurnal and reduced to a local datum. The results of this survey are shown on the attached plans as vertical field values in gammas on approximately 804 stations and as a contoured interpretation of these data. Mr. E. J. Lalonde of Capreol was the party chief in charge of this survey.

INTERPRETATION:-

The concentric system of cone sheet, ring dykes and fenitized zones are well delineated by intensity differences. The outer core or ring dyke and the fenitized zone on Claims 101956, 101961 and 101966 may possibly contain metals and should be tested by diamond drilling.

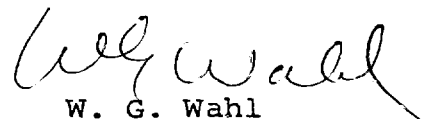
A broad shear zone trends northeasterly through these claims. The northwestern edge of this zone is marked by a northeast-trending, linear, magnetic anomaly caused by a diabase dyke. The small magnetic anomalies are caused by masses of unsheared rock within the zone and may be referred to as tectonic fish.

The low uniform magnetic pattern in the northwestern part of the claim group is caused by a granite or granite gneiss bedrock.

All of which is respectfully submitted.

Sincerely yours,

W. G. WAHL LIMITED

  
W. G. Wahl

Cumming Twp.

THE TOWN OF  
**CLAIM MAP**  
**CARGILL**

DISTRICT OF  
COCHRANE

PORCUPINE  
MINING DIVISION

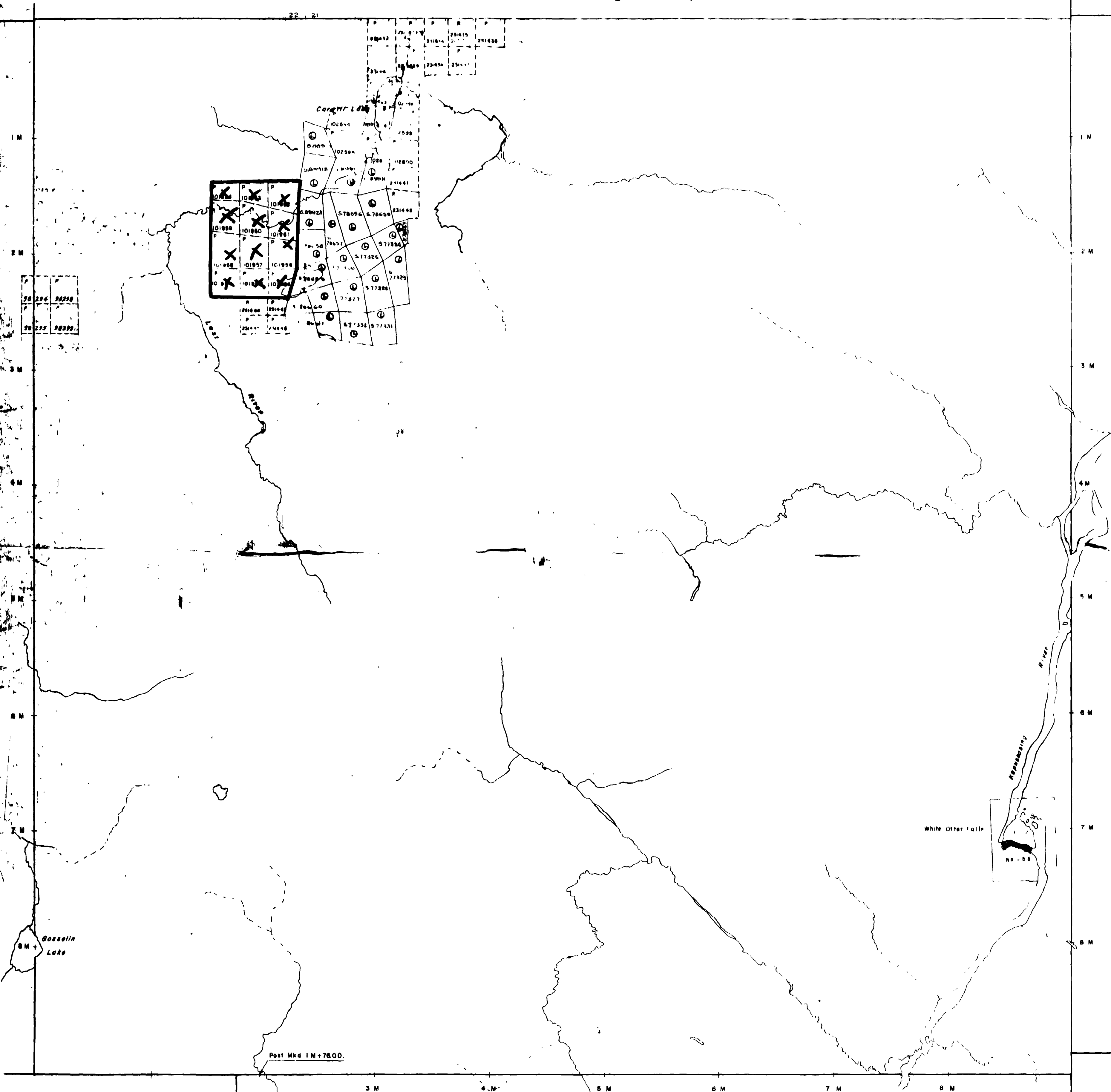
SCALE 1 INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓞ
LOCATED LAND	Loc
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	— — — — —
IMPROVED ROADS	— — — — —
KING'S HIGHWAYS	— — — — —
RAILWAYS	— — — — —
POWER LINES	— — — — —
MARSH OR MUSKEG	— — — — —
MINES	⚡
CANCELLED	C.

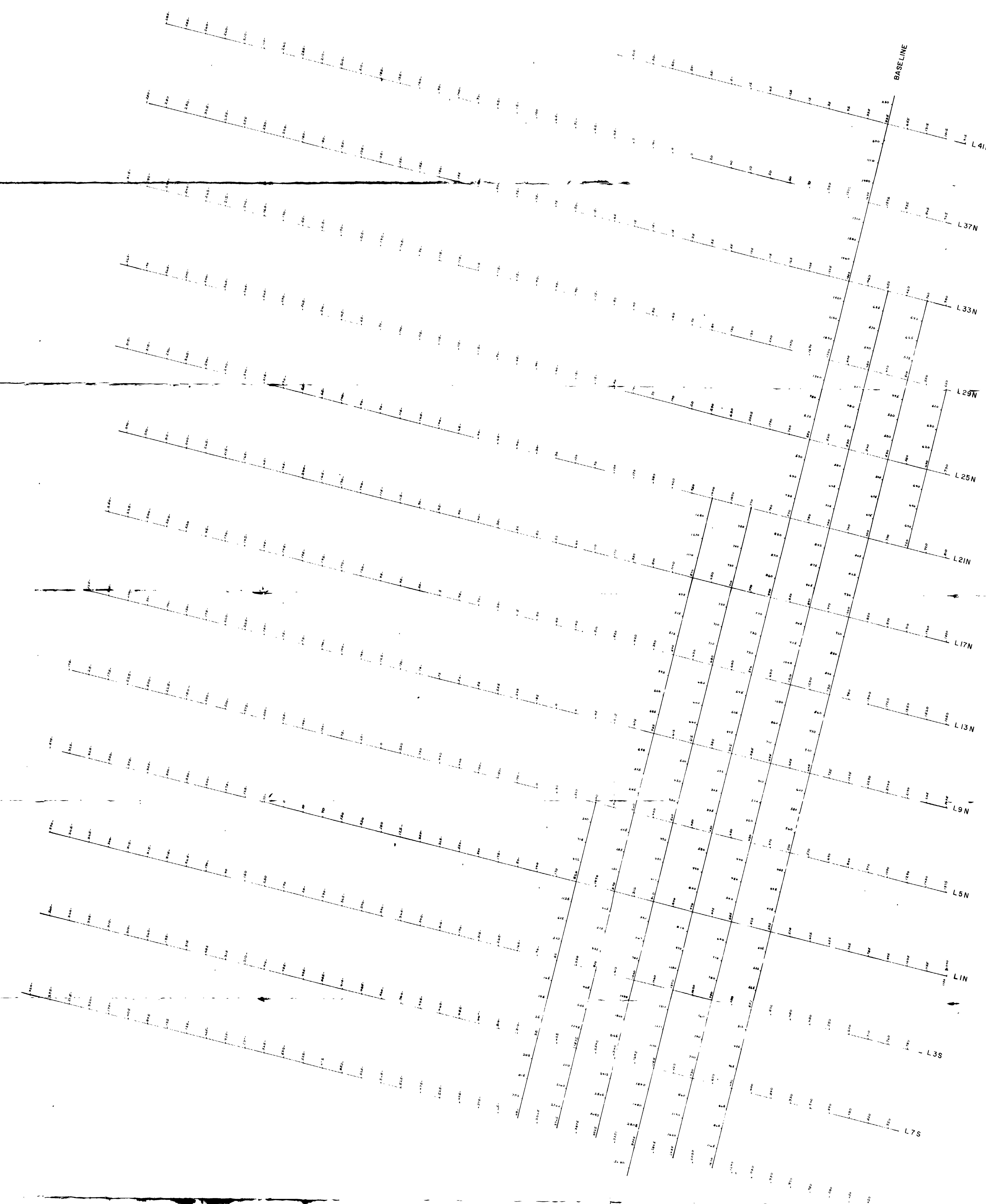
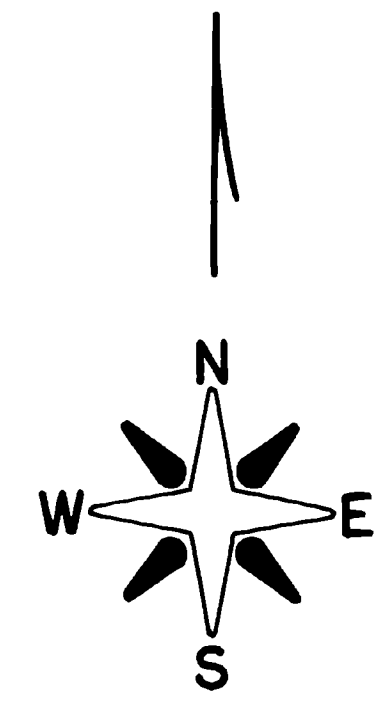
NOTES

Water Power Reserve No. 13 on White Otter Falls to Spruce Falls Power & Paper Co. Ltd. File 3610 - Vol. 2  
400' Surface Rights reservation around all Lakes and Rivers



Sulman Twp.



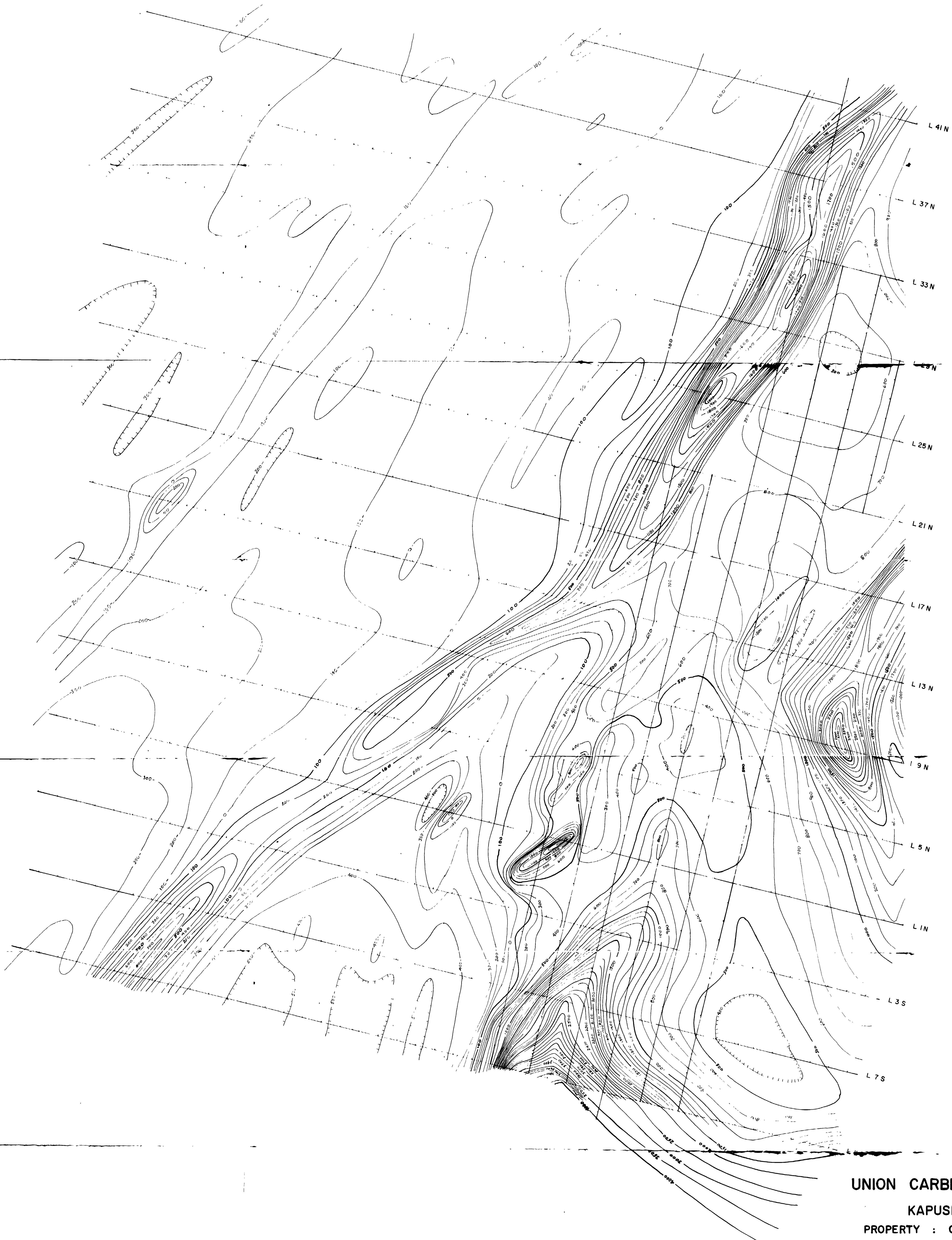
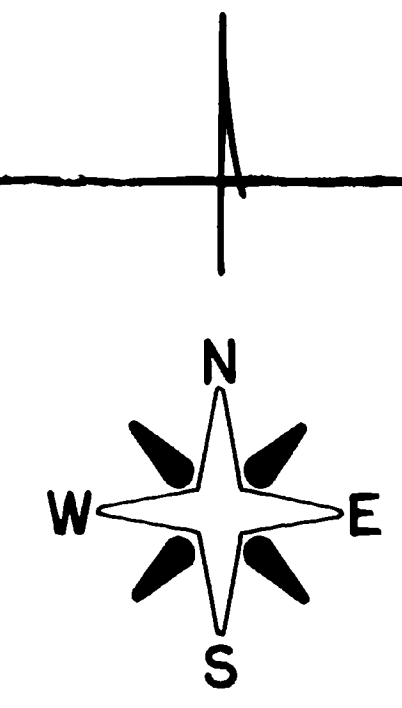


UNION CARBIDE (CANADA) MINING LTD.  
KAPUSKASING AREA, ONTARIO  
PROPERTY : CARGILL TOWNSHIP  
MAGNETOMETER SURVEY  
VERTICAL FIELD VALUES IN GAMMAS

SCALE : 1" = 200'  
DATE : MAR. 3, 1969  
DRAWING NO. : 1

W.G. WAHL LTD.  
DRAWN BY :  
APP'D : *W.G. Wahl*





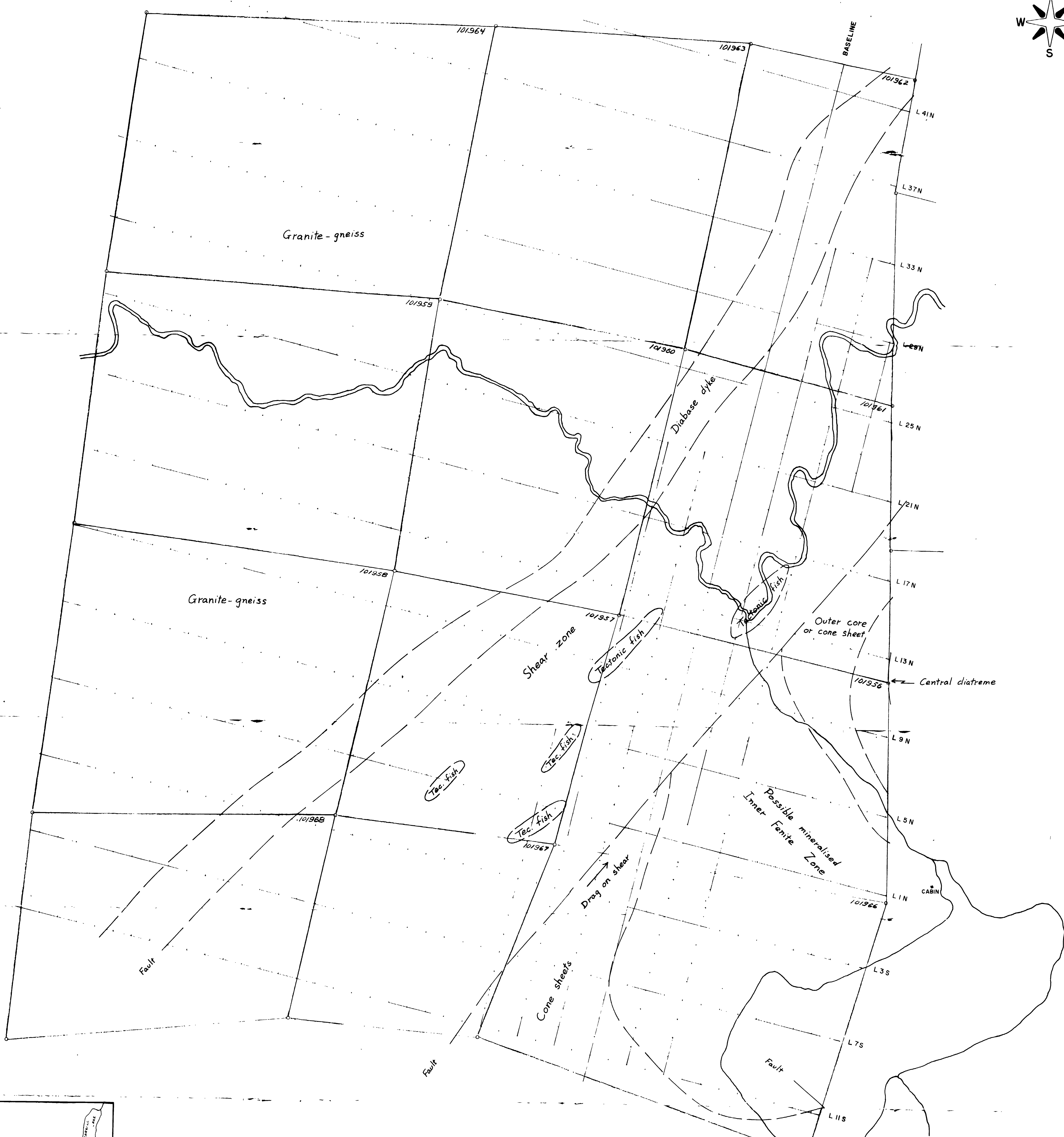
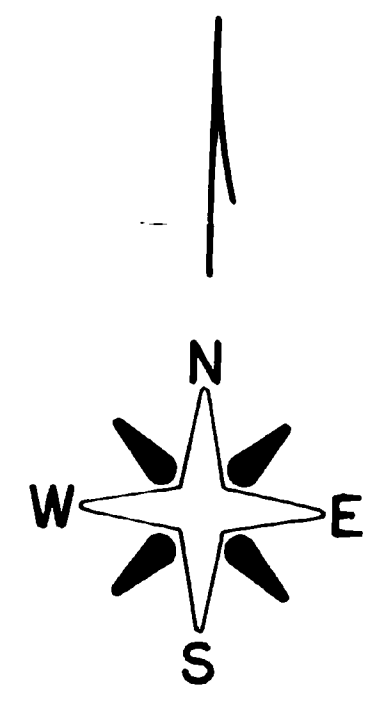
UNION CARBIDE (CANADA) MINING LTD.  
KAPUSKASING AREA, ONTARIO  
PROPERTY : CARGILL TOWNSHIP

SCALE : 1" = 200'  
DATE : MAR. 3, 1969  
DRAWING NO. : 2

W.G. WAHL LTD.  
DRAWN BY :  
APP'D BY : *W.G. Wahl*







UNION CARBIDE (CANADA) MINING LTD.  
KAPUSKASING AREA, ONTARIO  
PROPERTY: CARGILL TOWNSHIP  
GEOLOGY FROM MAGNETOMETER SURVEY

SCALE: 1" = 200'  
DATE: MAR. 3, 1969  
DRAWING NO.: 3

W.G. WAHL LTD.  
DRAWN BY: ...  
APP'D BY: *W.G. Wahl*

