



41P09SE0606 2.175 SPEIGHT

010

GEOLOGICAL & GEOCHEMICAL SURVEY

THE PROPERTY

The property consists of sixty (60) contiguous claims of which fifteen (15) were covered by the survey. Those claims covered were 265280-83, 264595-98, 264600-03 and 264593. The property is located in Speight Township, District of Timiskaming, Ontario.

Access to Speight Township can be gained by three possible ways (1) by taking a boat from Mountain Chutes down the Montreal River to Spring Lake and Spray Creek to Mendelssohn Lake which gives good access to Speight Two. (2) a second route is by a logging road which runs from Elk Lake to a point west of the property. However, the exact location and condition of the road is unknown by the author. (3) the quickest means of access is by float equipped aircraft from New Liskeard which can land on any of the lakes covered in the claim group.

The topography of the McKenzie Lake section can be described as being flat with steep drops over the diabase slope. In the Munro Lake section a steep diabase ridge runs between McKenzie Lake and Mendelssohn Lake. Areas of detailed examination were confined to (approx.) lots 5 and 7 of Con. 5, Speight Twp.

LINECUTTING

A total of 8.86 miles of picket line were cut over the width of the claim group between July 9 and July 20, 1970 under contract to Martin J. Sullivan of Kirkland Lake.

A common base line was intended to serve the two groups of cross lines, however an error in sighting caused an off set on the western, or, McKenzie grid. A second base line was out in approx. 800 ft. north of the No. 1 base line on the McKenzie Lake grid.

These lines were cut in mid summer, and, are clean and well defined.

#### REGIONAL GEOLOGY

With the exception of a small inlier of presumed Archean granite east of Munro Lake all of the bedrock is Proterozoic in age (McIlwaine 1970) this formation was not observed or encountered by the author.

The two mapped areas are underlain by the Lorrain formation of the Huronian supergroup. This consists of a fine to medium grained pink sandstone. Intruding into the sandstone is a fine grained greenish gray Nipissing diabase sill.

#### ECONOMIC GEOLOGY

There are two occurrences of silver in the claim group. These occurrences are found in the carbonate veins in the Nipissing diabase.

On claim No. 264592 of the McKenzie Lake grid is found the Taylor shaft and trenching complex. A sample taken from an 8" calcite-quartzite vein in the enlarged trench No.1 revealed 1-3% Co, .5-1% Mg, .1-.2% Ni and .1 oz/ton for Ag.

The only other occurrences of mineralization encountered on the McKenzie Lake grid was cobalt and eruthrite in trench No. 2. The assay values ran only 1.5% Cobalt from a vein 12" wide.

South of Munro Lake between lines 0 and 4 West samples of trench and vein material were taken by J.L. Tindale during initial inspection of the showing. These assayed 181, 157 and 154 oz. of silver per ton. Ontario Government inspection and subsequent assay of this showing in 1969 revealed 130.5 and 349.6 oz. of silver per ton.

Associated with this showing are minor amounts of cobalt, chalcopyrite and galena. The vein is 3"-5" wide dipping at 75° with a strike of 55° east of north. This vein was followed for 30 ft. by trenching.

It should be noted that only minute amounts of silver were visible.

#### TRENCHING

Trenching on the McKenzie grid was conducted over a length of some 300 ft. and primarily carried out on previous trenching. The work consisted of cleaning out, deepening and creating fresh exposures for channel sampling. In all, four trenches were created working east from the Taylor shaft.

A veining system has been traced for 100 ft. and possibly 150 ft., thus explaining the two shafts put down at the beginning of the century.

On the Munro Lake grid trenching was put down on previous work located between lines 0 and 4 west. Some 500 ft. were covered by trenching, however, only 100 ft. can be assumed to cover the veining system which gave the high silver values. Three pits and trenches were put in on previous work but failed to reveal anything of interest.

CONCLUSION

Silver mineralization occurs in the Nipissing diabase sill. Further exploration should be carried out to determine size, grade and lateral extent of this mineralization.

October 26, 1970

*J. L. Tindale*  
*March 1971*  
Bryan Hugh Wilson  
*Bryan H. Wilson*



A circular professional seal for J. L. Tindale, a Registered Professional Engineer in the Province of Ontario. The seal features a central 'S' and the text 'REGISTERED PROFESSIONAL ENGINEER', 'J. L. TINDALE', and 'PROVINCE OF ONTARIO'.

REFERENCES

1. Ontario Dept., of Mines, Preliminary Geological Map No. 573 McIlwaine 1970

2.175

RECEIVED

MAR 5 1971

PROJECTS  
SECTION

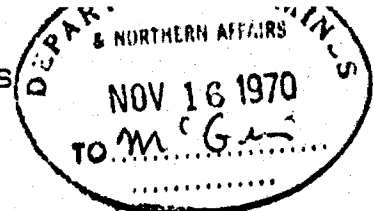
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TELEPHONE 7-3010



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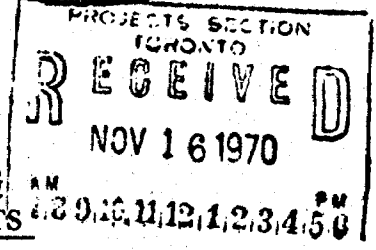
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DEPARTMENT OF MINES AND NORTHERN AFFAIRS  
MINING LANDS BRANCH  
OFFICE OF THE MINING RECORDER



Fred W. Matthews,  
Supervisor, Projects Section,  
Ontario Department of Mines,  
Whitney Block,  
Parliament Buildings, Toronto.

NOTIFICATION OF RECORDING  
OF ASSESSMENT WORK CREDITS



Date of Recording of Work .... November 13th, 1970 .....

Recorded Holder .... Castlebar Silver and Cobalt Mines Ltd. ....  
..... 1601 - 8 King Street East, Toronto, Ontario.  
(address)

Township or Area .... Speight Township .....

Type of Survey and number of Assessment Days Credits per claim	
GEOPHYSICAL Airborne <input type="checkbox"/>	Ground <input type="checkbox"/>
Magnetometer .....	days
Electromagnetic .....	days
Radiometric .....	days
.....	days
GEOLOGICAL .....	480 days
GEOCHEMICAL .....	240 days
SECTION 84 (14) .....	days

Mining Claims  
40 days Geological and 20 days Geochemical on each of mining claims L265280 to L265283 incl., L264592, L264593, L264595, L264596, L264597, L264600, L264601, and L264603.

*For Geochemical see 2.174*

NOTICE TO RECORDED HOLDER

- Survey reports and maps in duplicate must be submitted to the Projects Section, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to Projects Section with this letter.

*[Signature]*  
Mining Recorder.

c.c. Castlebar Silver & Cobalt Mines Ltd  
1601 - 8 King Street East,  
Toronto, Ontario.

Barber Twp.

THE TOWNSHIP  
**CLAIM MAP**  
**SPEIGHT**

2-175

DISTRICT OF  
 TIMISKAMING

LARDER LAKE  
 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	X
CANCELLED	C.

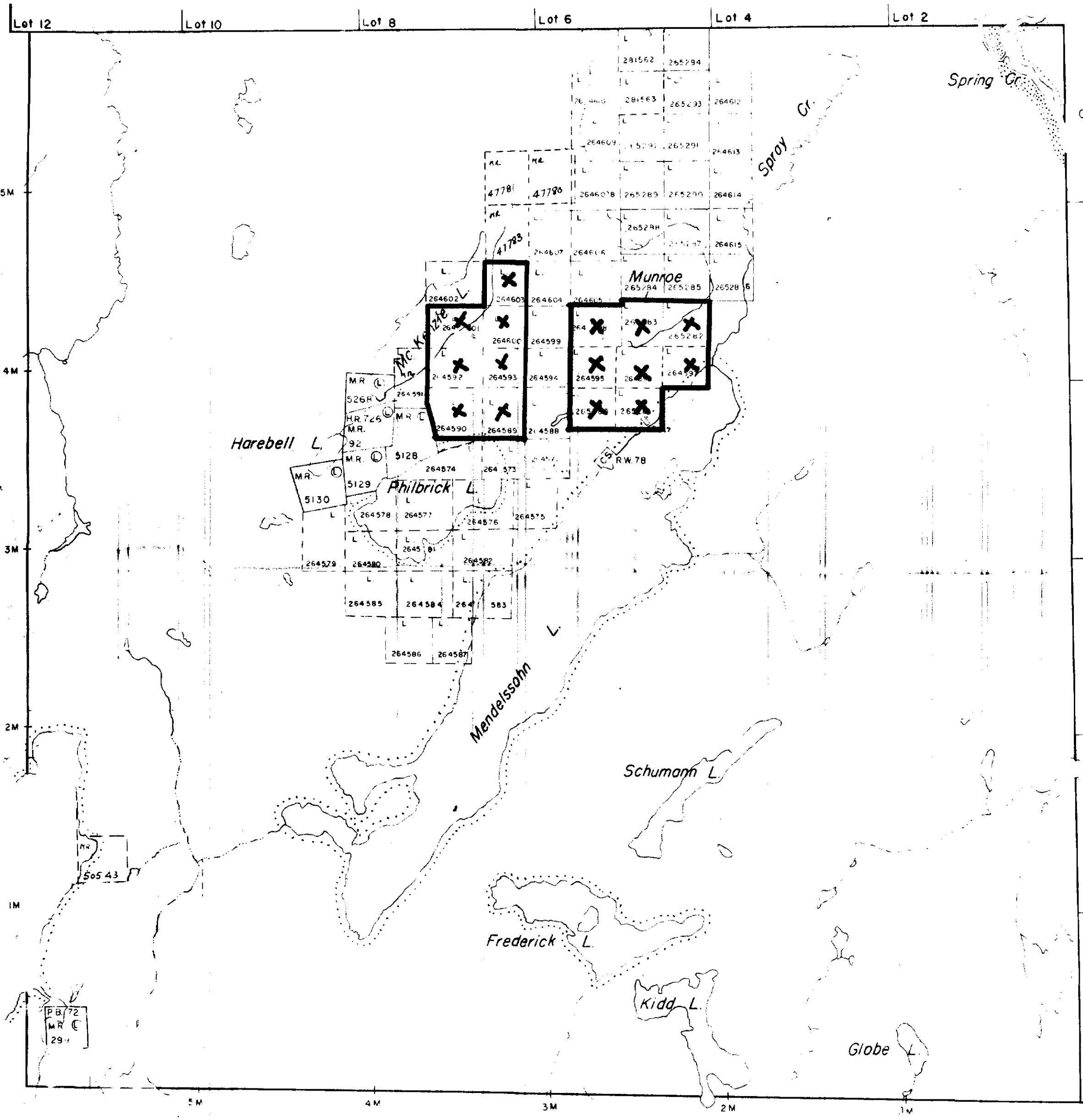
NOTES

400' Surface rights reservation around all lakes and rivers.  
 Timagami Forest Reserve shown thus: [dotted line symbol]

**DATE OF ISSUE**  
**FEB 17 1971**  
 ONT. DEPT. OF MINES  
 AND NORTHERN AFFAIRS

PLAN NO.- M-249

**ONTARIO**  
**DEPARTMENT OF MINES**  
**AND NORTHERN AFFAIRS**



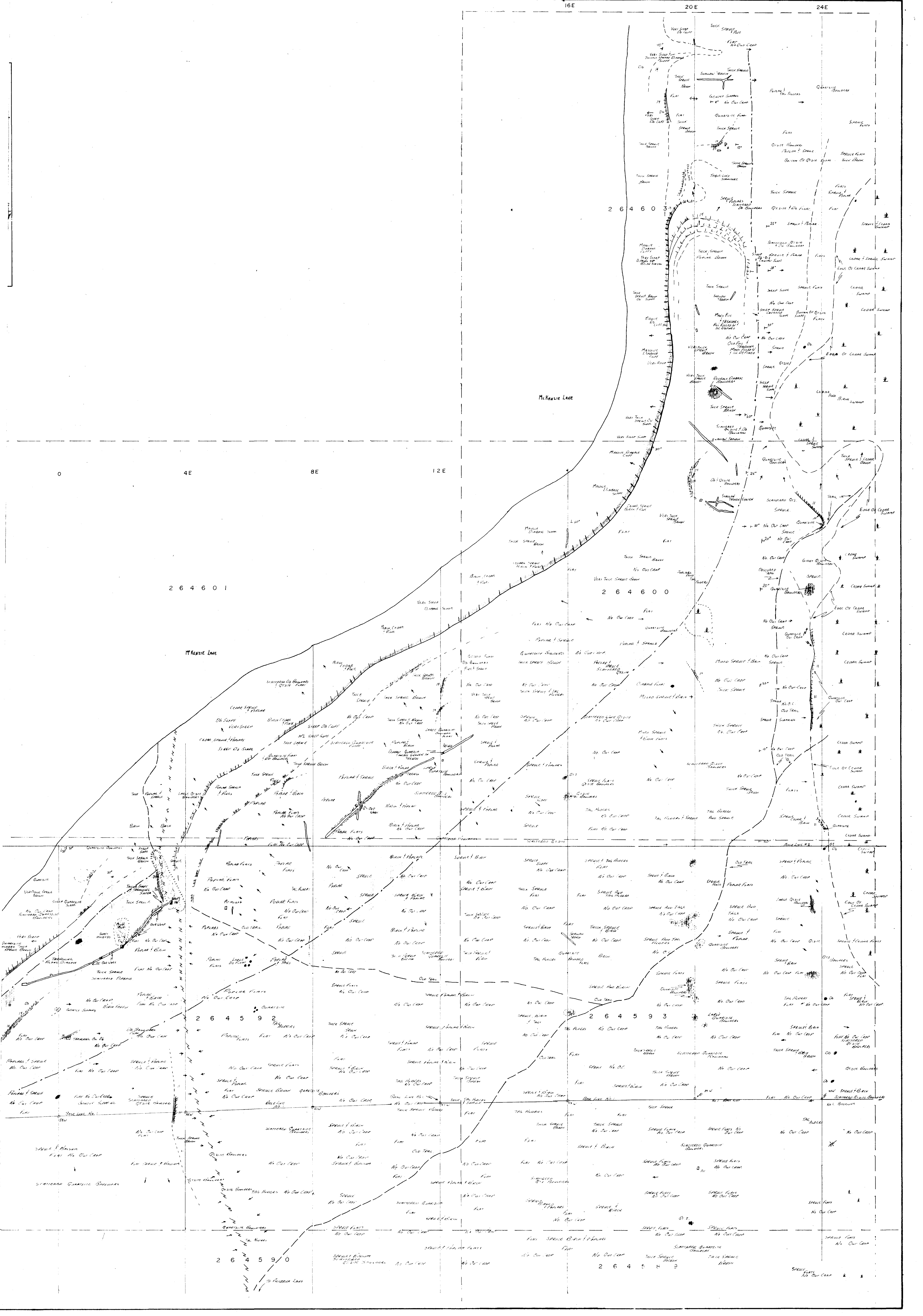
Banks Twp.

Auld Twp.

Van Nostrand Twp.



41P095E0606 2-175 SPEIGHT



264601

264600

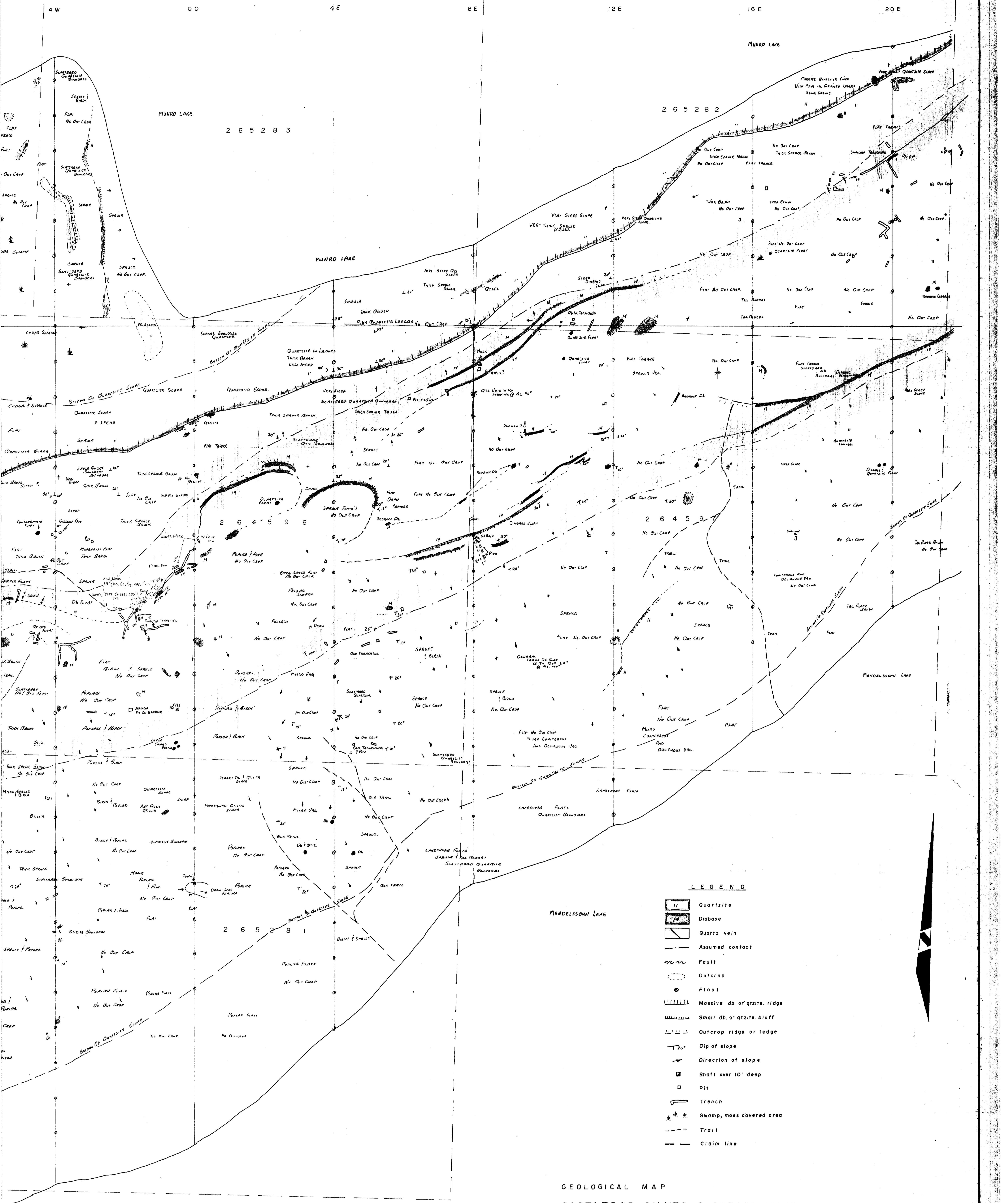
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264590

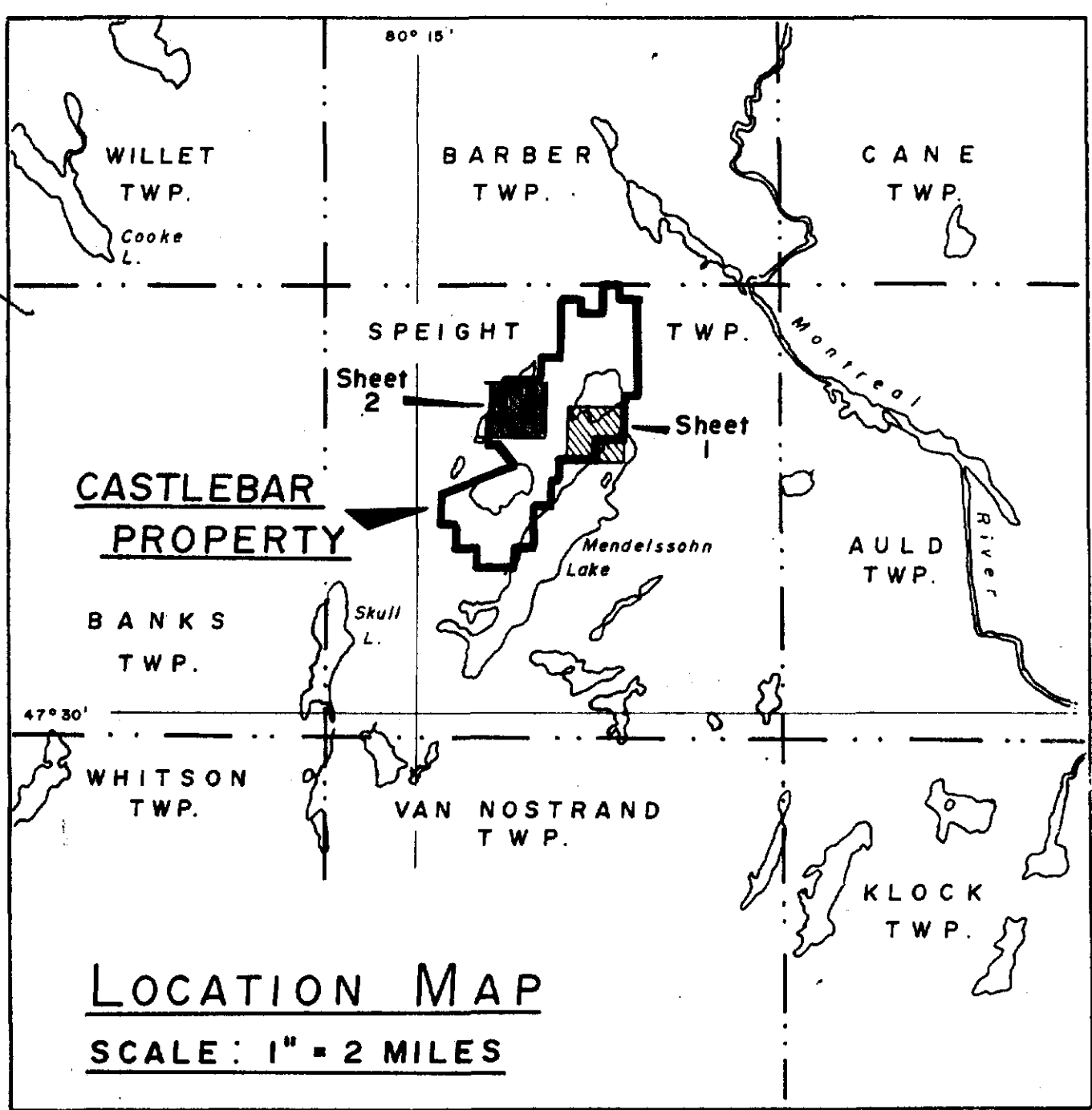
264589





GEOLOGICAL MAP  
**CASTLEBAR SILVER & COBALT MINES LTD.**  
 SPEIGHT TWP., ONTARIO  
 SCALE: 1" = 100'  
 B. WILSON, J. L. TINDALE

*Duncan R. McLean Oct 26, 1970*  
 AUG. 19 - SEPT. 12, 1970  
 2-175  
 SHEET I.



*J. H. Hall*  
*Byron A. Hall*  
 Surveyors  
 Oct 1970

SHEET 2.



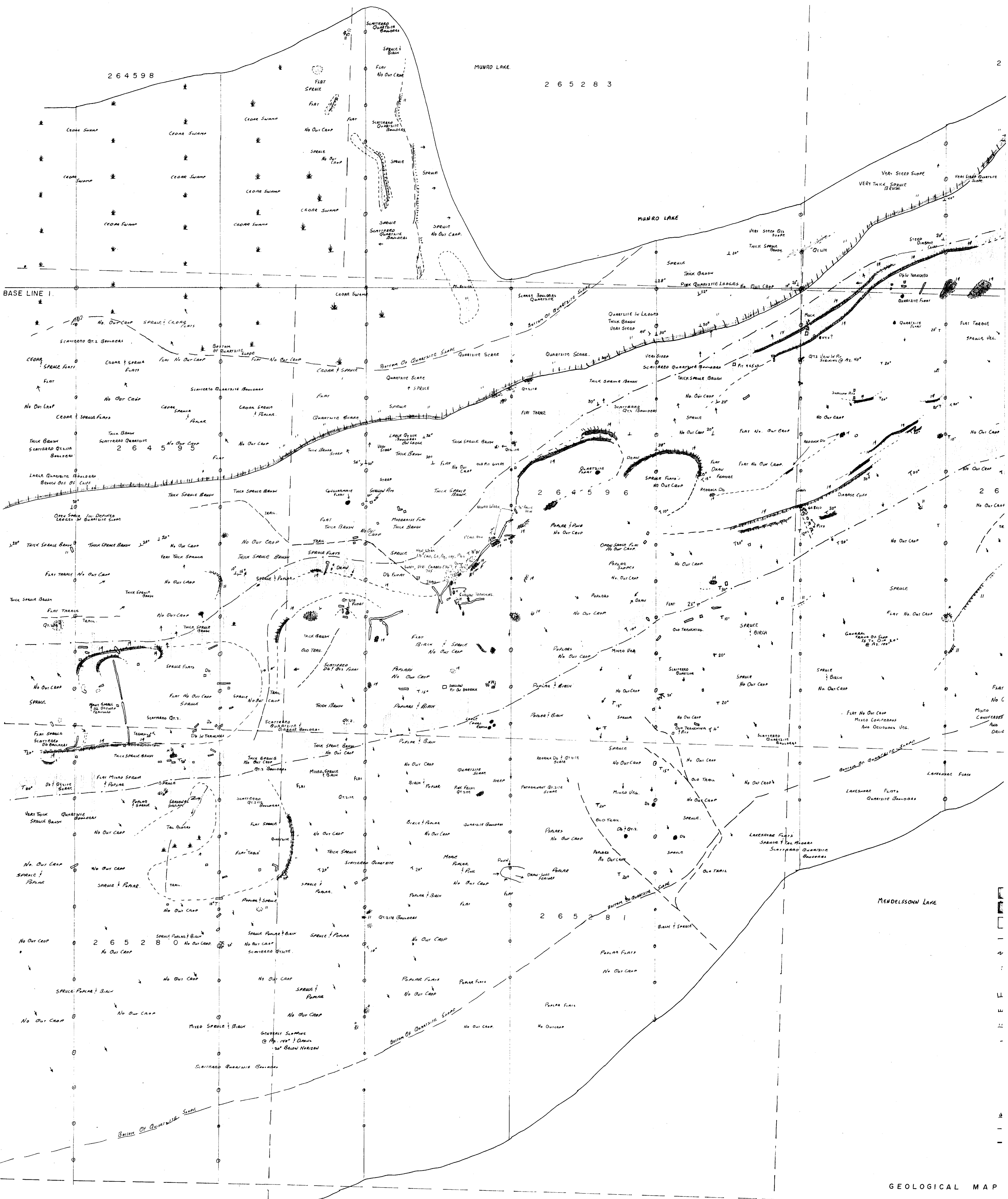
264598

265283

MUNRO LAKE

MUNRO LAKE

BASE LINE I.



GEOLOGICAL MAP  
 CASTLEBAR SILV  
 SPEIGHT TWP.  
 SCALE: 1" = 100'  
 B. WILSON, J. L. TINDAL

