



REPORT ON
CUTTING AND POLISHING TESTS
ON GRANITE BLOCKS

from

MINING CLAIM Pa 909490

PATRICIA MINING DIVISION

ONTARIO

2.12008

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SEP 28 1989

MINING LANDS SECTION

prepared by:

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September 11, 1989

INTRODUCTION

Several granite blocks were collected from a rockcut on claim Pa 909490 in the fall of 1988 and shipped to Nelson Granite in Vermilion Bay for cutting and polishing. The claim is part of a group of claims comprised of claims Pa909490, Pa909491, Pa1017914 and Pa1082662. This report summarizes the results of this work and the comments made concerning the stone.

RESULTS

Cutting and Polishing Characteristics

- similar to other granites

Rock Integrity

- 'a tight, compact granite'

Colour

- the pinkish cast of the stone is considered detrimental by Nelson personnel

Market

- no ready market is known to exist for this stone
- a market would have to be developed
- with all other things being equal, a minimum of several years would be required to develop a significant market for this stone

RECOMMENDATION

A stripping and trenching programme is required to further evaluate the potential of the property. Work should be concentrated in the area already outlined as containing the least volume of stone with a pinkish caste.

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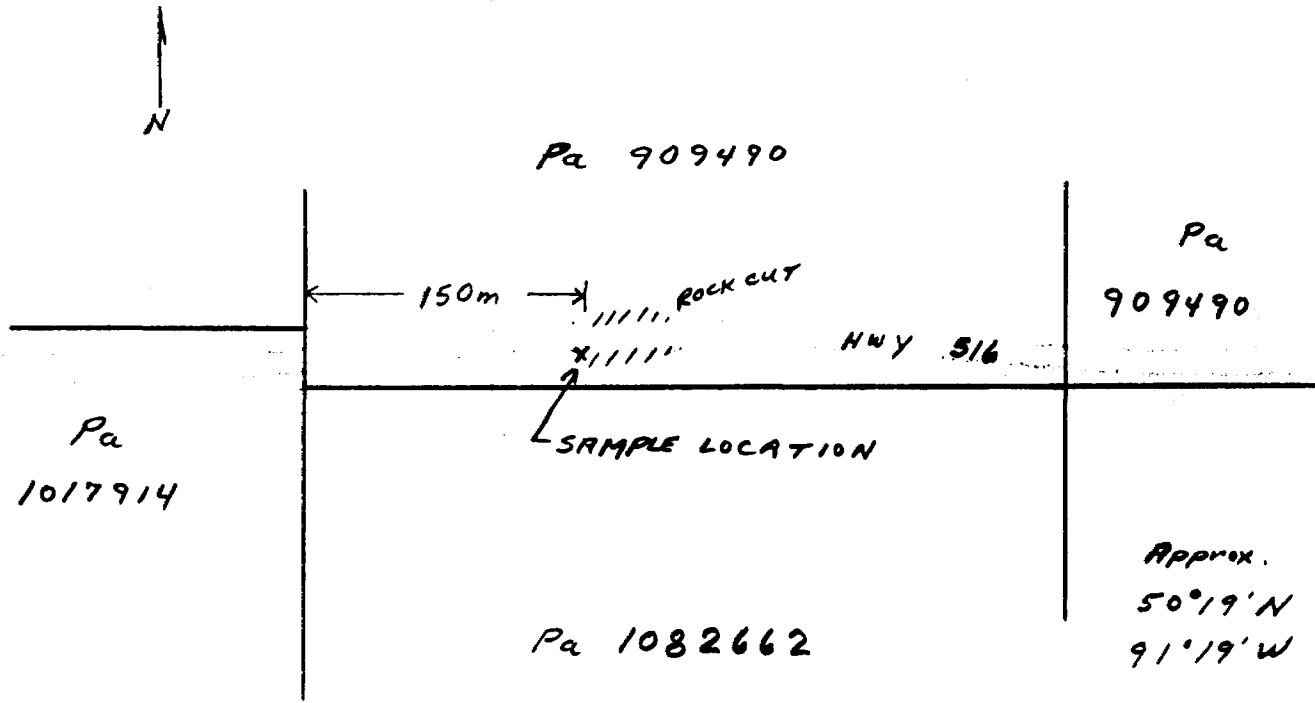
LUNDMARK PROPERTY

NIMMEWIN LAKE AREA

PATRICIA MINING DIVISION, ONTARIO

MINING LANDS SECTION

LOCATION OF HWY 516 - 1988



Map of the area shown above, including the location of the sample location, was prepared by the author and is being submitted to the Mining Lands Section for their information. The location of the sample location is shown on the map of the area shown above. The location of the sample location is shown on the map of the area shown above.

W. B. B. B. B.
[Signature]
 Nov. 11, 1988

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REPORT ON

MINING LANDS SECTION

CUTTING AND POLISHING TESTS

ON GRANITE BLOCKS

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MINING CLAIM Pa 909490

PATRICIA MINING DIVISION

ONTARIO


prepared by:

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December 18, 1989

INTRODUCTION

Several granite blocks were collected from a rockcut on claim Pa 909490 in the fall of 1988 and shipped to Nelson Granite in Vermilion Bay for cutting and polishing. This report summarizes the results of this work and the comments made concerning the stone.

LOCATION AND ACCESS

The Lundmark granite property is located about 56 km east of Sioux Lookout, Ontario. The claims straddle Highway 516, a paved all-weather road, linking Sioux Lookout and Highway 599 north of Savant Lake. The main line for Canadian National Railways passes through Sioux Lookout. Sioux Lookout is located in northwestern Ontario about 70 km by paved road north of Highway 17, the Trans-Canada Highway.

THE CLAIMS

The property consists of four claims: Pa 909490, Pa 909491, Pa 1017914 and Pa 1082662.

The claims are owned by Mr. H. Lundmark of Thunder Bay, Ontario.

GEOLOGY

The claims are located within a contact zone between a mafic intrusion to the south and metasediments to the north. The extent of the zone is unknown but appears to strike north northeast and have a width in excess of one km.

All rocks exposed on the claims are granite. They are medium to coarse-grained and consist of 15 - 35% bluish quartz, 5 - 10% hornblende, with the remainder being feldspar.

Xenoliths of hornblende with lesser biotite are present throughout the granite. They occur as black clots 2 to 10cm thick and 5 to 40cm long. They likely represent remnants of the original metasediments. The xenoliths are less common on the western part of the claims.

Joint patterns have not been mapped in detail due to the lack of exposure. Outcrops indicate blocks 4'x4'x8' are present in the eastern part of the claims although most blocks would be from 2'x3'x4' to 2'x4'x8'.

Joints in the granite seem to more widely spaced on claim Pa 1017914. Stripping is required before the jointing can be accurately measured.

The feldspar in the granite ranges from pink through white to very pale green. The feldspar crystals are zoned and the colours are developed within the various layers. The colour appears to be due to iron oxides. The oxygen fugacity at the time of deposition determining the composition of the iron oxide and thus the colour (D. Janes, pers. comm.). White is the dominant colour. Various shades of pink are present, often as indistinct horizons 2 to 10m thick within the overall bluish grey granite. The pale green colour is very faint and is not noticeable without very close inspection.

SAMPLES

Four pieces of the granite were collected from the south side of the rock cut on Pa 909490. The blocks were loosened during the blasting of the rock cut.

The total weight was estimated at 3 tons. The largest block was about 3'x3'x4'.

The samples were shipped to Nelson Granite at Vermilion Bay, Ontario for cutting and polishing tests.

RESULTS OF TESTS

The following comments are based on a discussion with Mr. C. Nelson, of Nelson Granite.

Cutting and Polishing Characteristics are similar to other granites. No surprises would be expected from working with this stone. Plucking was not considered a problem. The stone took a good polish.

The rock was described as 'a tight, compact granite'. This expression is defined to indicate a stone which has low porosity, is strong and without a tendency to spall or granulate while being worked.

The Colour of the stone was predominantly bluish grey. The slight pinkish cast of the stone was considered detrimental. This observation is based on the lack of this shade of colour being used commercially at present.

No Market is known to exist at present for this colour of stone. A market would have to be developed for this particular colour of stone. A minimum of several years would likely be required to develop a significant market for this stone.

DISCUSSION

The lack of a ready market for this stone will require considerable time and money to introduce this stone to the market. This may be done by the property owner, or by dealing the property to one of the established granite firms.

In either case, it will be necessary to first demonstrate that a long-term supply of suitably sized blocks of uniform colour and texture are available.

RECOMMENDATIONS

A stripping and trenching programme is required to expose the bedrock. This will permit the detailed mapping of the joints to determine block size and the variations in colour and texture, and thereby, the potential of the property to produce commercial blocks.

The stone is considered to be more of a decorative stone than a building stone. Inquiries should be made to determine the interest in utilizing the stone as 'accent' pieces, such as in sills, furniture, etc.

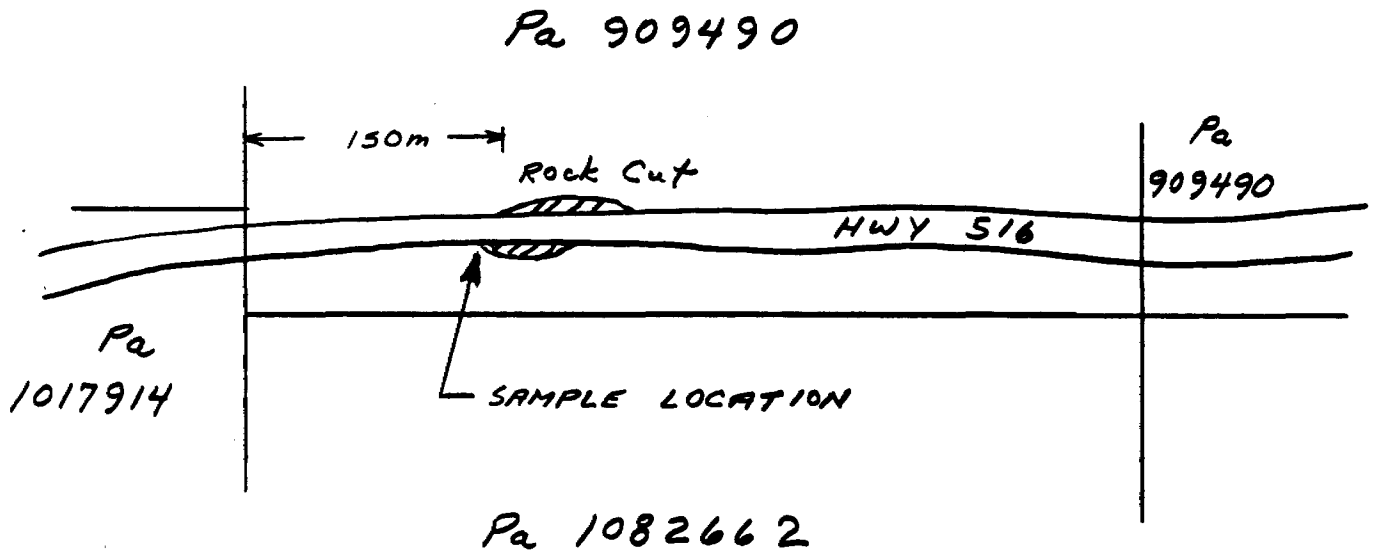


Fig. 1 LOCATION MAP

LUNDMARK GRANITE PROPERTY
 Kimmewin Lake Area
 Patricia Mining Division
 Ontario

scale 1:1,600,000
 (1" = 25 miles)

LUNDMARK GRANITE PROPERTY
KIMMEWIN LAKE AREA
PATRICIA MINING DIVISION, ONTARIO
LOCATION OF BULK SAMPLING - 1988
(not to scale)



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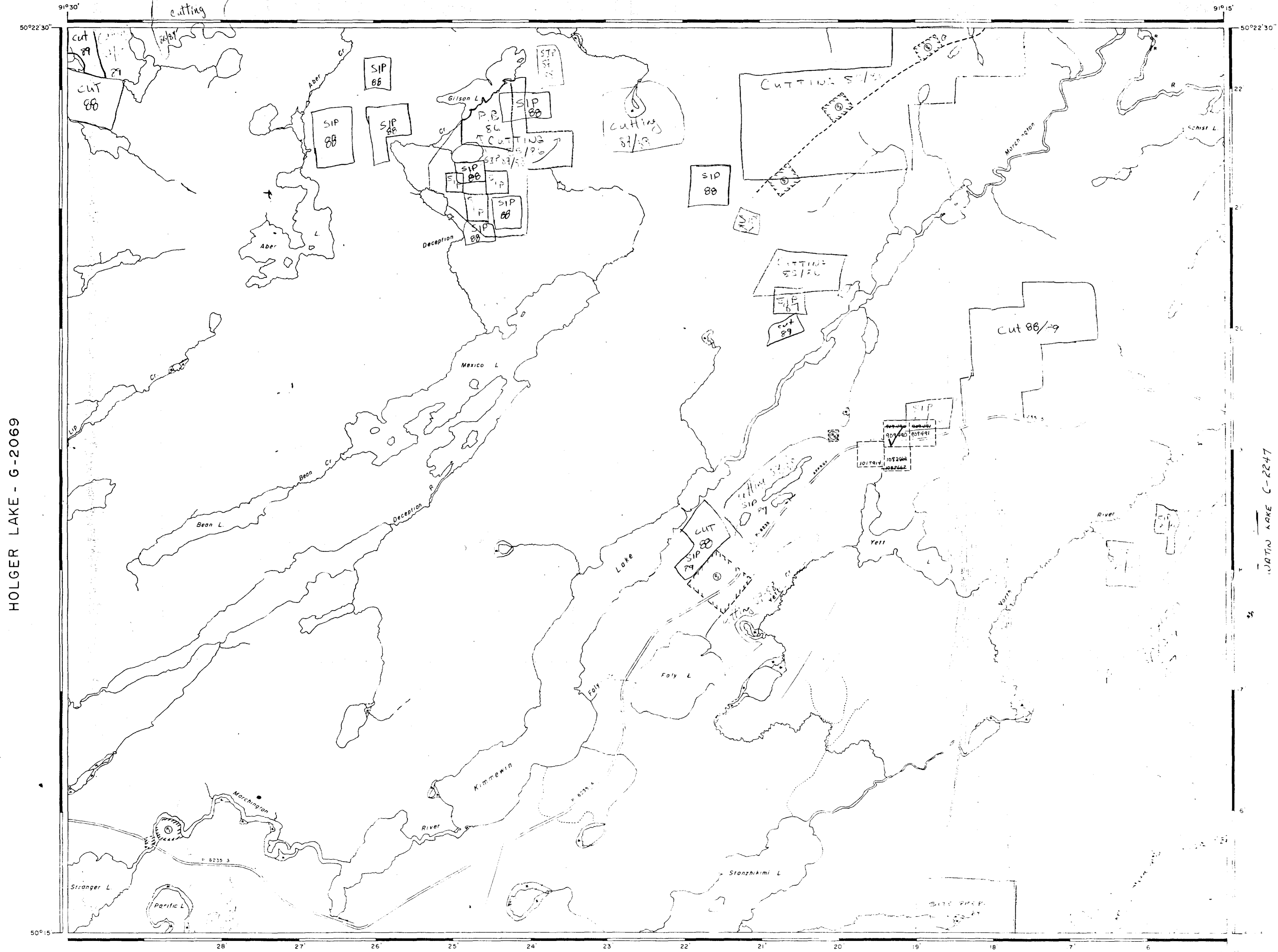
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NO INFORMATION DELETED :

HIGHSTONE LAKE - G-2066



HOLGER LAKE - G-2069

BADSHOT LAKE - G-1944

LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 380 SEC. 63 SUBSEC. 1

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

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 S.R.O. SURFACE RIGHTS ONLY
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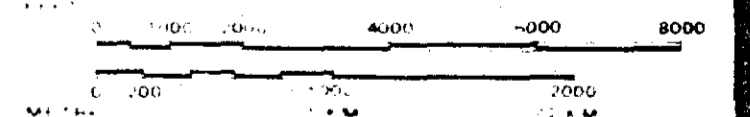
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①		16/2/72	S.R.O.	163474
②	514-43	14/7/80	S.R.B.M.R.	163475

SAND & GRAVEL

③	M.T.C. GRAVEL PIT	1F-15
④	M.N.R. GRAVEL RESERVE	1F-22
⑤		1F-23
⑥		1F-24

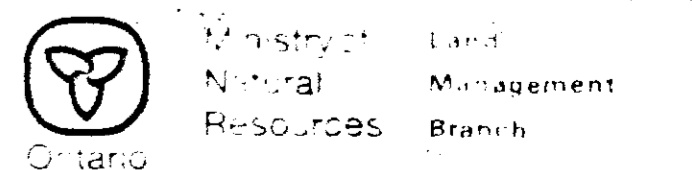
Sept 19, 1984
 Nov 20/87
 Dec 1/87
 Oct 4/89

SCALE 1 INCH = 40 CHAINS



AREA KIMMEWIN LAKE

M.N.R. ADMINISTRATIVE DISTRICT
 SIOUX LOOKOUT
 MINING DIVISION
 PATRICIA
 LAND TITLES / REGISTRY DIVISION
 KENORA



Date: FEBRUARY, 1984

Number: G-2090

