

42A04NW0025 2.7055 SEWELL

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REPORT ON SOIL AND HUMUS GEOCHEMICAL

· SAMPLING PROGRAM

SEWELL 1-81

SEWELL TOWNSHIP

PORCUPINE MINING DIVISION

RECEIVED AUG 1 G 1984 MINING LANDS SECTION

PETER S. LEBARON

NORANDA EXPLORATION CO. LTD

Jul. 2.6335

AUGUST 8, 1984 TIMMINS, ONTARIO NTS. <del>41-0-10</del> *42-5-01-NE* 

### REPORT ON SOIL AND HUMUS GEOCHEMICAL

### SAMPLING PROGRAM, SEWELL 1-81

### INTRODUCTION

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During the period May 19 to June 10, 1983, a geochemical survey consisting of humus and soil sample collection was carried out on Noranda Exploration claim group Sewell 1-81.

A total of 440 humic and 749 soil samples were collected and analysed for Au, Ag, As, Cu and Zn.

### PROPERTY DESCRIPTION

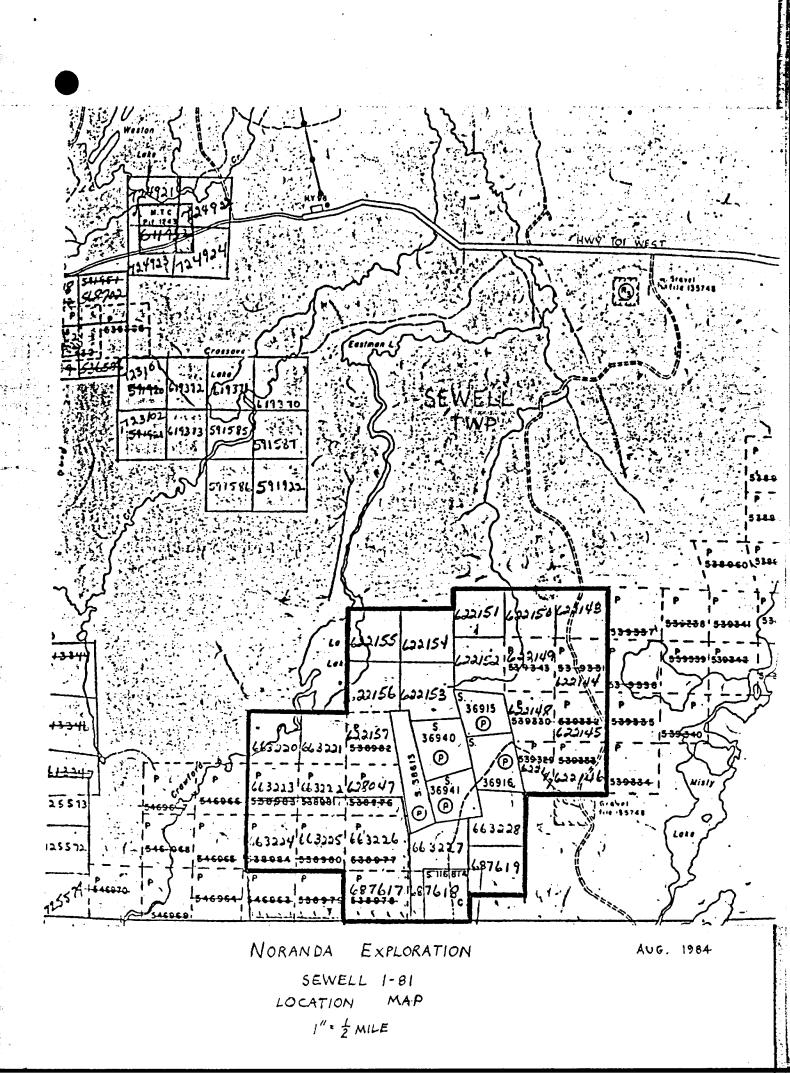
The claim group consists of 33 contiguous mining claims as follows:

536915, 536916,536940, 536941, 538613- Patented628047, 622143 to 622157 inclusive- Expire Oct. 7, 1984663220 to 663228 inclusive- Expire Oct. 26, 1984687617 to 687619 inclusive- Expire Feb. 14, 1985

The survey covers all claims except 687617 to 687619, but for assessment purposes, only that part of the survey covering the remaining 25 unpatented claims (663220-228,622143-157,628047) is considered in this report.

### LOCATION AND ACCESS

The property is located in south-central Sewell Township, about 36 miles southwest of Timmins. A dry-weather bush road crosses the eastern part of the claim group about 3 miles south of HWY 101 west.



### PREVIOUS WORK

1945 - 47	geological mapping, trenching, magnetic survey, and diamond drilling (14 holes, total of 3,870 ft) by Mining Corporation.
1980 - 83	Noranda Exploration: 1980 - 2 dd holes, total of 497 ft. 1981 - 4 dd holes, total of 1,097 ft; limited mag, I.P. and E.M.
	<ul> <li>1982 - 4 dd holes, total of 1,579 ft; limited I.P.</li> <li>1983 - 7 dd holes, total of 2,937 ft; stripping of outcrop area.</li> </ul>

### GENERAL GEOLOGY

Very little rock is exposed on the property, but diamond drilling indicates the area in the vicinity of the gold showing on patented claim 536916 to be underlain by strongly amphibolitized, partially recrystallized intermediate to mafic volcanics and intrusives.

These vary from fine-grained schists to coarse-grained gabbroic rocks, commonly with gradational contacts suggesting a metamorphic origin for the different textures. Coarse-grained rocks can be seen to become increasingly altered to chlorite-sericite schists in shear zones in diamond drill core.

Gold is associated with quartz veining and fine, disseminated pyrite in east-northeasterly-trending shear zones within the volcanic assemblage.

### TOPOGRAPHY AND DRAINAGE

Terrain in the survey area is quite flat, with local relief of less than 50 ft. Overburden appears to consist mainly of lodgement till, probably in the range of 20 to 50 ft deep, overlain by sandy soil.

The property is well-drained with the exception of one swampy area bordering a creek running east-west just north of the patented claims.

Much of the property has been cleared by logging operations in recent years and a heavy growth of alders and young poplar has developed between the remaining areas of poplar and spruce forest.

### SURVEY PROCEDURE

On the 25 unpatented claims covered by the survey, a total of 298 humus and 669 soil samples were taken at 100 ft intervals (where possible) on lines spaced at 400 ft. A total of 27 line miles were traversed during the survey.

Humus samples consist of black, partially decomposed organic material - mainly leaves, needles and grasses - which were collected by hand, taking care not to include any soil particles.

The soil samples were taken from the "B" horizon at a depth of 8 to 15 inches with long-nose shovels and placed in 8"x4" paper bags. The soil is generally yellow-brown, sandy loam.

### SAMPLE ANALYSIS

Humus samples sent to X-Ray Assay Laboratories Limited, Don Mills, Ontario were analysed for Au, As, Cu, and Zn. Gold and silver content were determined by neutron activation; copper and zinc by plasma emission spectrometry. Additional samples sent to Chimitec Ltee, Ste. Foy, Quebec, were analysed for Cu, 2n and Au by neutron activation.

All soil samples were analysed for Au, Cu, and Zn by the Noranda Exploration laboratories in Bathurst, New Brunswick, using atomic absorption spectrometry after dissolution in acid.

Total number of analyses are as follows:

Humus: 298 analyses for Au, Cu, Zn 180 analyses for As

Soil: 669 analyses for Au, Cu, Zn 87 analyses for As

### SURVEY RESULTS

Although several isolated high values were obtained from both soil and humus samples, no significant geochemical anomalies are apparent. A complete statistical analysis of results has not been done, but an examination of the plotted values leads to the following observation:

1) Humus samples: Cu - background 10 to 20 ppm; two anomalous values of 60 and 65 ppm on L20E/2+00N and 0+00 B.L.

Zn - wide range of background values: 20 to 100 ppm; several possibly anomalous values of up to 250 ppm; one anomaly of 400 ppm on L8E/22+00N. Au - background 1-5 ppb; several scattered anomalous values of 14-19 ppb; the value of 187 ppb on L0/1+00N lies beside a trench on the main gold showing.

As - background 1-10 ppm; one anomalous zone on L16W, 20N (36ppm) and 21N (120ppm).

2) Soil Samples: Cu - background 1-10 ppm, maximum value is 22 ppm; no definite anomalies.

2n - background 10-30 ppm, maximum value is 109 ppm on L24W/12+00S.

Au - background 0 ppb; several scattered anomalous values of 10 to 50 ppb; one high value of 420 ppb on L36E/23+00N.

As - background of 0-20 ppm; one possibly anomalous value of 55 ppm on L4/3+00N.

All humus and soil anomalies cover only one line and one or two adjacent stations and all are one - element anomalies. The lack of response in the area of the main gold showing on patented claim 536916 suggests that soil and humus sampling may indicate bedrock concentrations of gold (and/or Cu-Zn) but that poor results do not necessarily indicate an absence of bedrock mineralization.

### CONCLUSIONS

The anomalies obtained from humus and soil sampling on the property do not warrant follow-up diamond drilling or additional sampling. The lack of response near a known gold showing exposed at surface indicates that humic and soil geochemical surveys in this area are not effective in defining bedrock mineralization.

Peter Stellarian

Peter S. LeBaron August 7,1984.

### APPENDIX (Labour and Analysis Costs)

Costs of sampling and sample analysis on the 25 unpatented claims to be considered for assessment work credits are as follows:

Labour: 2 men x 10 days = 20 man-days

Sample Analysis:

- 1) Humus: 118 samples (Chimitec) @ \$9.85/sample (Au,Cu,Zn) 180 samples (X-Ray Labs) @ \$11.25/sample (Au,As,Cu,Zn) Total 298 samples - \$3,187.30
- 2) Soil: 582 samples (Noranda Bathurst Labs) @ \$4.25/sample (Cu,Zn,Au) 87 samples (Noranda Bathurst Labs) @ \$4.50/sample (Cu,Zn,Au,As)

Total 669 samples - \$2,865.00

TOTAL COST OF SAMPLE ANALYSIS: \$6052.30 (967 samples)



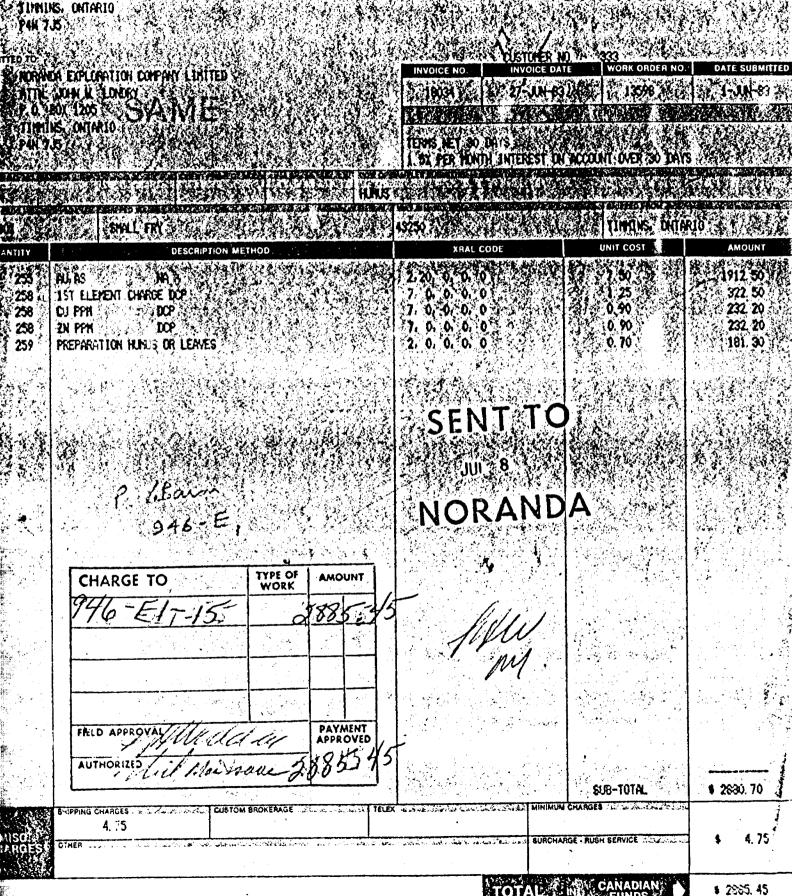
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1885 LESLIE STREET . DON MILLS ONTARIO M3B 3J4 . (416) 445-5755

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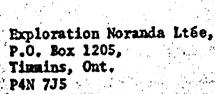
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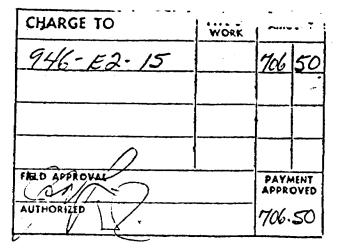
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Your File: Our File: 2.7055

Mr. Bruce Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

We have received reports and maps for a Geochemical Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 628047 et al in the Township of Sewell.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-6918

A. Barr:sc

cc: Noranda Exploration Company Limited Suite 400 55 Yonge Street Toronto, Untario M5E 1J4

cc: Noranda Exploration Company Limited P.O. Box 1205 Timmins, Ontario Attn: R.C. Denommee. Noranda Exploration Company, Limited (no personal liability)



## noranda

August 14, 1984

S.E. Yundt, Director, Land Management Br., Ministry of Natural Resources, Whitney Block, Room 6643, Queen's Park, Toronto, Ontario. M7A 1W3

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MINING LANDS SECTION

Attn: Ray Pichette

Dear Sir:

Enclosed please find reports and maps for Geophysical Surveys, Geology and Geochem for Lougheed 1 to 4, Sewell and Bowyer Twps. submitted under Special Provisions.

Hoping this material meets with your approval.

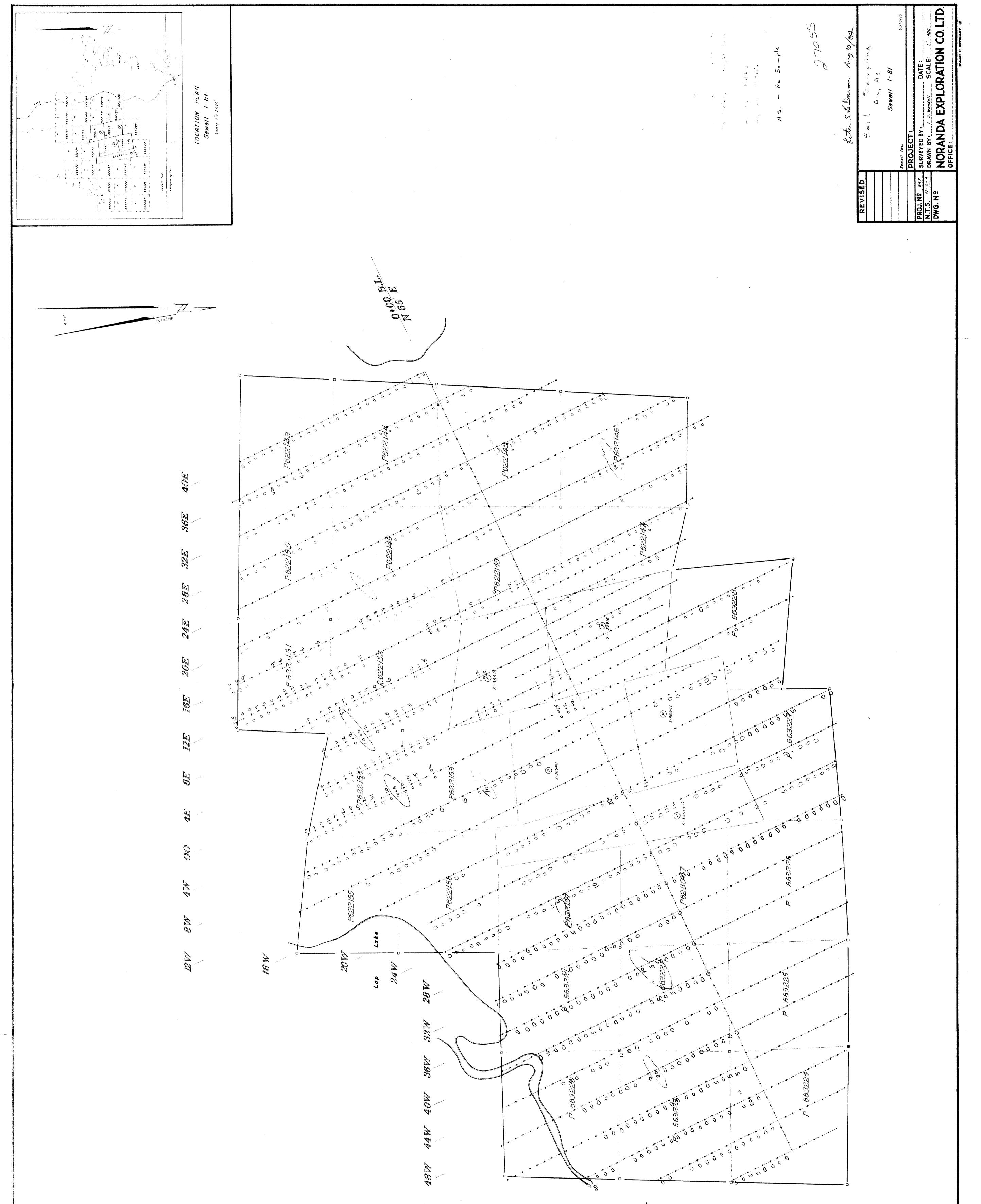
Yours truly,

NORANDA EXPLORATION CO. LTD.

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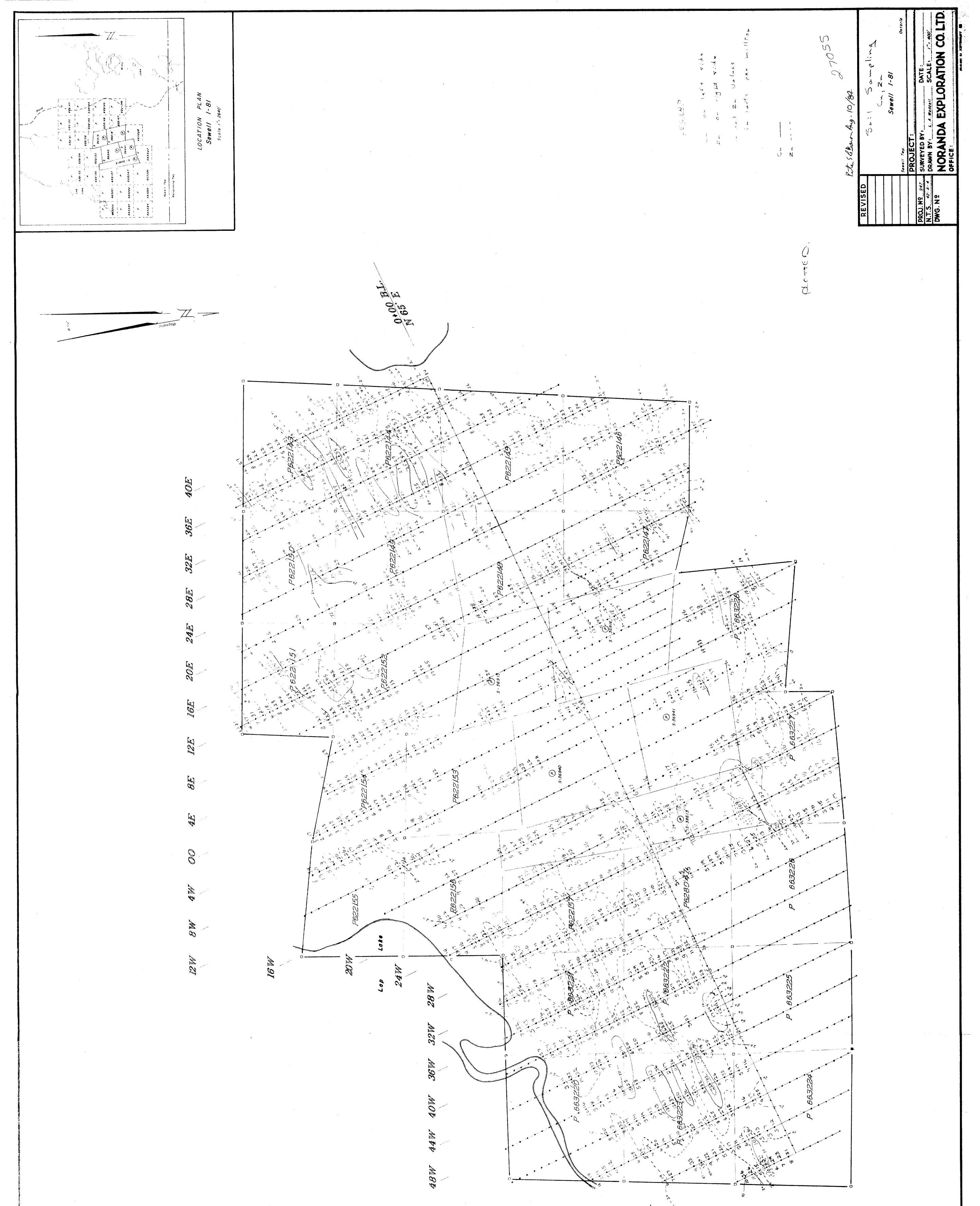
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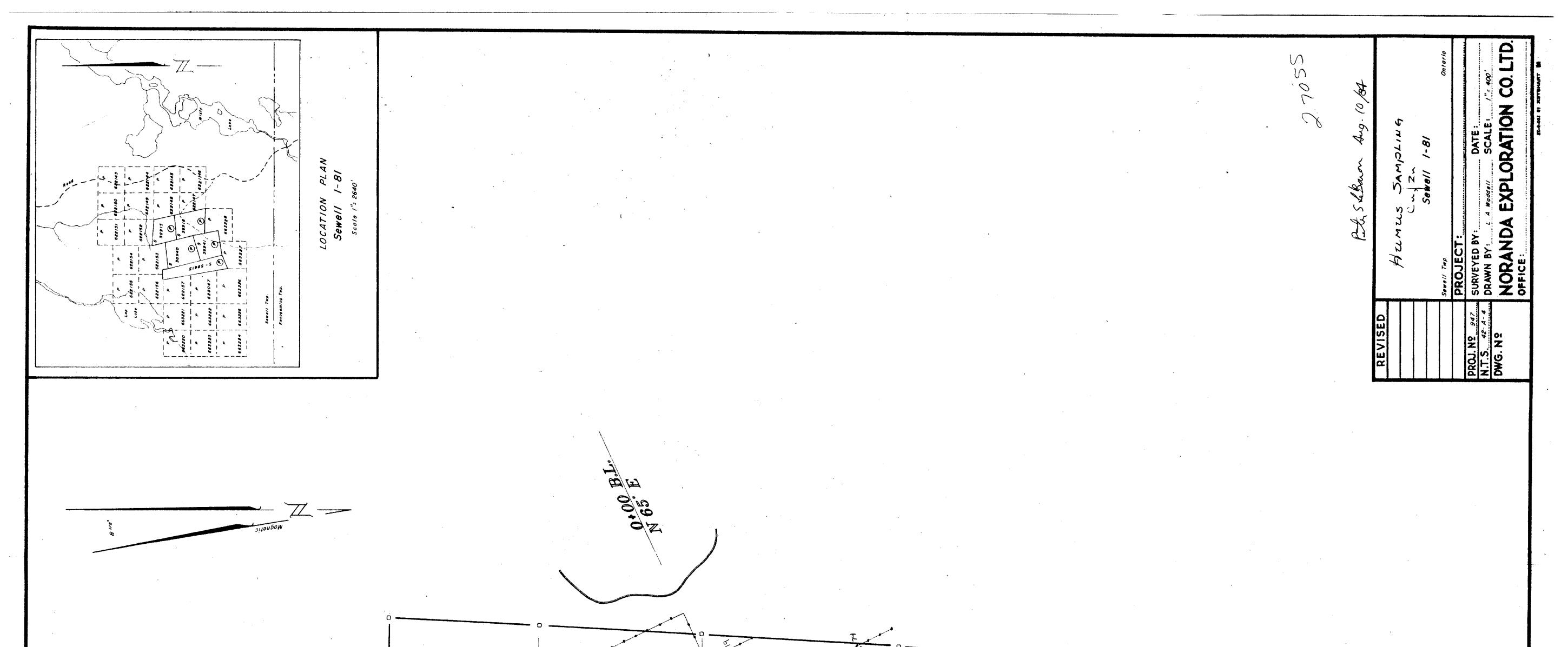


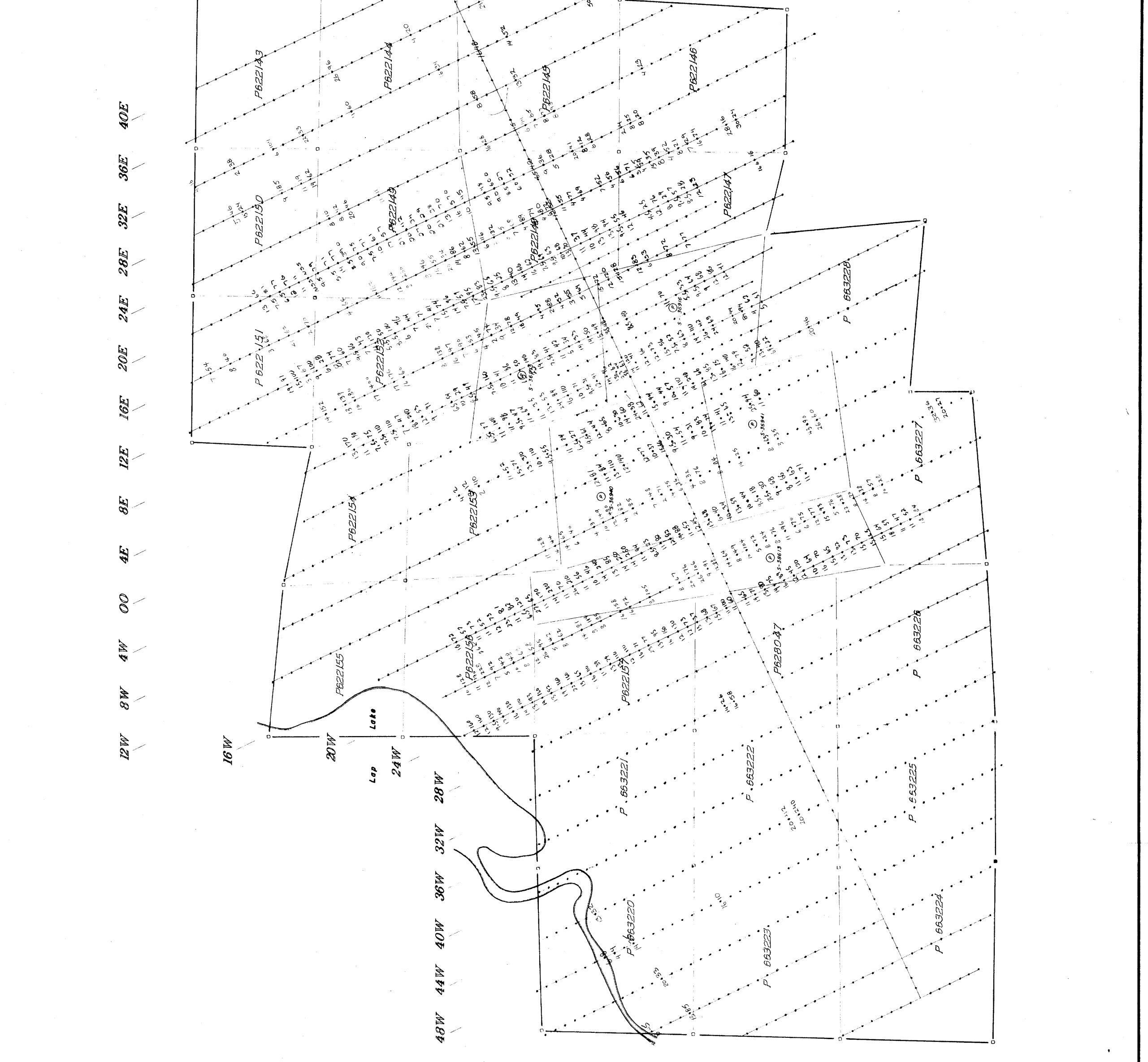
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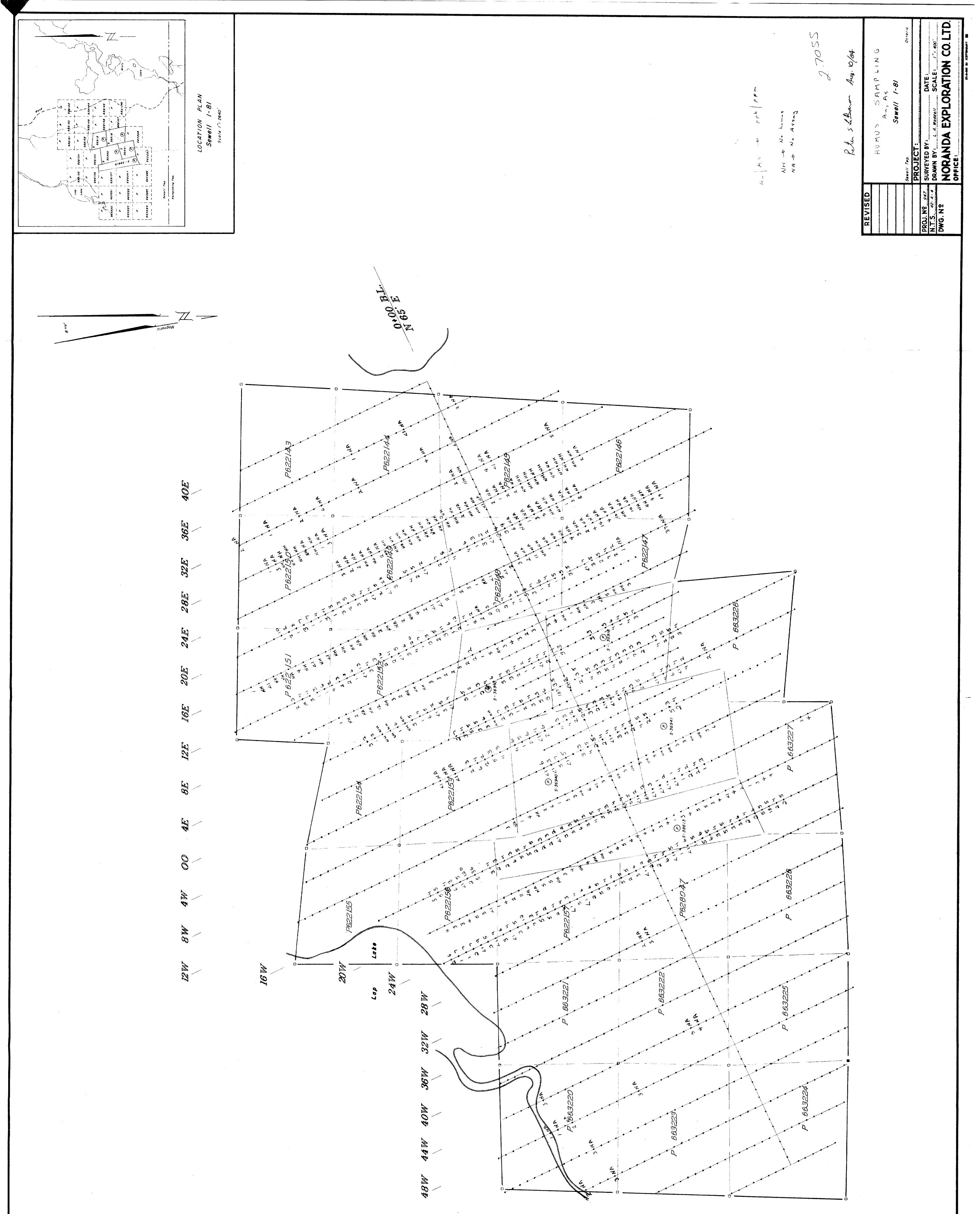
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