



31C15NW8613 2.3428 CLARENDON

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MINING LANDS SECTION

SELCO MINING CORPORATION LIMITED

CLAIM EO. 527161

CLARENDON TOWNSHIP, ONTARIO

GEOCHEMICAL REPORT

I.G.L. Sinclair
Toronto, Ontario
July, 1980

INTRODUCTION

During May 1980 a geochemical soil survey was conducted over claim EO-527161 in Clarendon Township. Several old pits and trenches, occur within this claim and are believed to have been dug to test the gold content of quartz veins in marble. The geochemical survey reported here was planned to detect anomalous concentrations of gold and arsenic in soil which might be related to the presence of auriferous quartz veins. The samples were also analyzed for zinc since sphalerite mineralization is known to occur within marble in this part of Clarendon Township.

LOCATION, DESCRIPTION & ACCESS TO PROPERTY

This claim is located in the last East of Lot 28 in the Ninth Concession of Clarendon Township. It can be reached by driving northwards for half a mile on a gravel road which leaves Highway 506 one and a half miles east of the village of Fernleigh.

PROPERTY OWNERSHIP

The claim is held by Selco Mining Corporation.

GEOLOGICAL SETTING

The claim is underlain by rocks of the Grenville Supergroup - mainly dolomitic marbles in the southern half of the claim and biotitic paragneiss in the northern half. These rocks strike in a north-easterly direction and dip steeply to the north-west.

GEOCHEMICAL SURVEY

As is shown on the accompanying plans, B horizon soil samples were collected at 30m intervals along lines 100m apart. Samples were sent to the laboratories of Bondar-Clegg & Co. in Ottawa where they were dried and sieved; the -80 mesh portion was retained for analysis.

Zinc was determined by atomic-absorption after Aqua Regia digestion, gold by the combined fire assay/atomic absorption technique, and arsenic by colorimetry after $\text{HNO}_3/\text{HClO}_4$ digestion.

DISCUSSION OF RESULTS

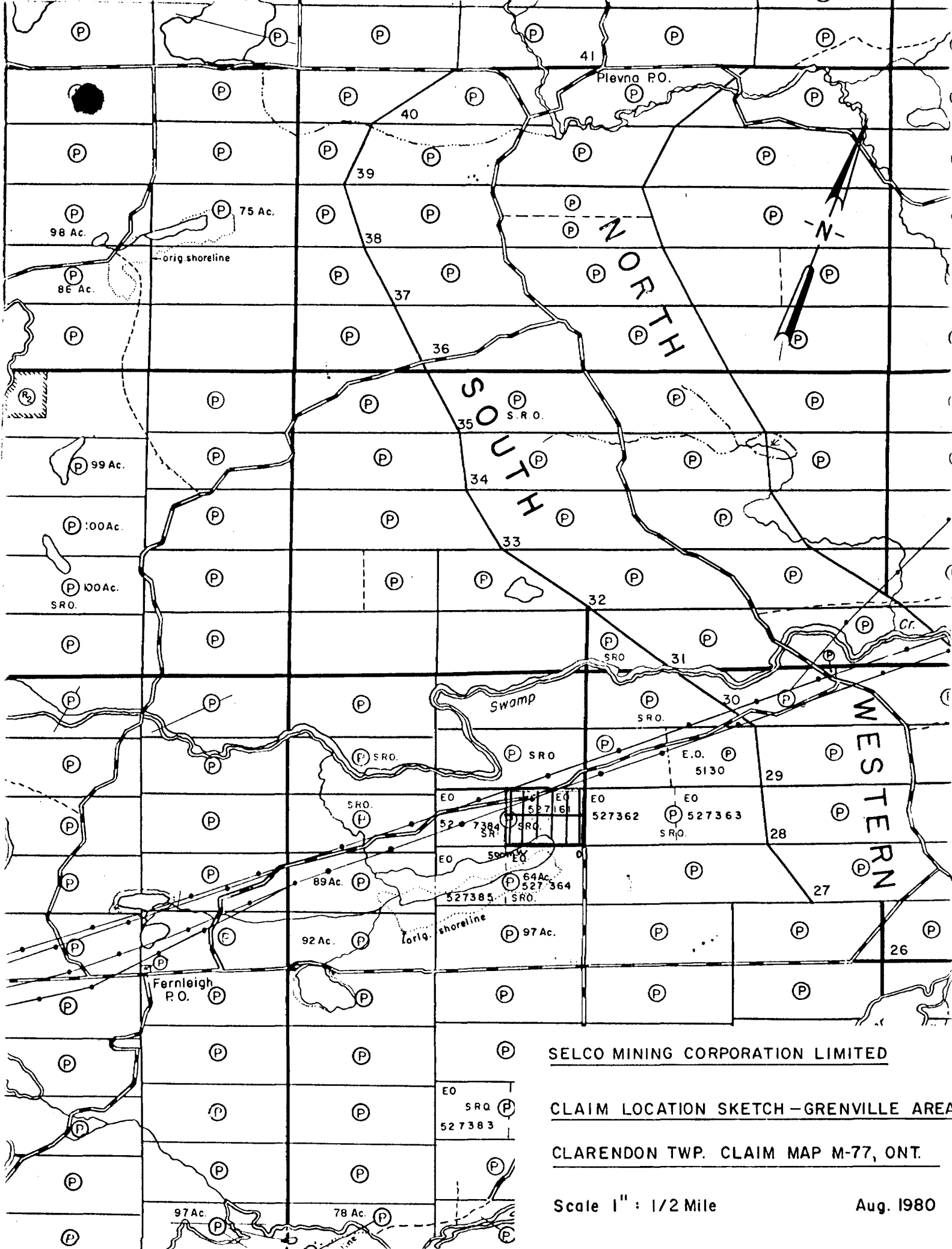
Metal values obtained during this survey are generally low and do not suggest the presence of any zones of economic mineralization within the claim. Previous work by Selco in

in this part of southern Ontario has shown that values of several hundred parts per billion gold can be expected in the vicinity of significant gold mineralization, and values of greater than 1000 ppm zinc in the vicinity of even minor sphalerite mineralization. Not enough data is available to establish a threshold for arsenic in this environment but the lack of correlation between anomalous values of this element and those of gold, is certainly discouraging.

No further work on the claim is suggested by the results of this survey.


I. G. L. Sinclair

July, 1980
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SELCO MINING CORPORATION LIMITED

CLAIM LOCATION SKETCH - GRENVILLE AREA

CLARENDON TWP. CLAIM MAP M-77, ONT.

Scale 1" : 1/2 Mile

Aug. 1980

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken EO 527161

Total Number of Samples 80

Type of Sample B-Horizon Soil
(Nature of Material)

Average Sample Weight 50 grams

Method of Collection Spade

Soil Horizon Sampled 'B'

Horizon Development Fair

Sample Depth 5 to 15 cm

Terrain Rolling Woodlands

Drainage Development Sluggish Streams

Estimated Range of Overburden Thickness 0 to 5m

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis -80

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m. Zn As
p. p. b. Au

Cu, Pb, (Zn) Ni, Co, Ag, Mo, (As)-(circle)

Others Au

Field Analysis (~~_____ tests~~)

Extraction Method ~~_____~~

Analytical Method ~~_____~~

Reagents Used ~~_____~~

Field Laboratory Analysis

No. (~~_____ tests~~)

Extraction Method ~~_____~~

Analytical Method ~~_____~~

Reagents Used ~~_____~~

Commercial Laboratory (Zn, Au, As tests)

Name of Laboratory Bondar-Clegg

Extraction Method See

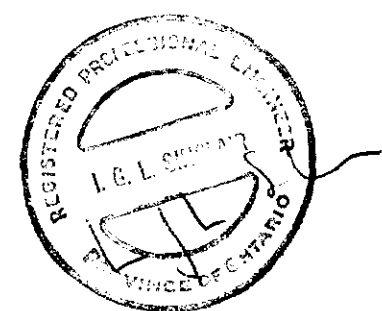
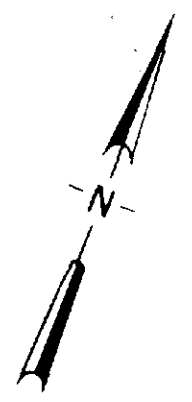
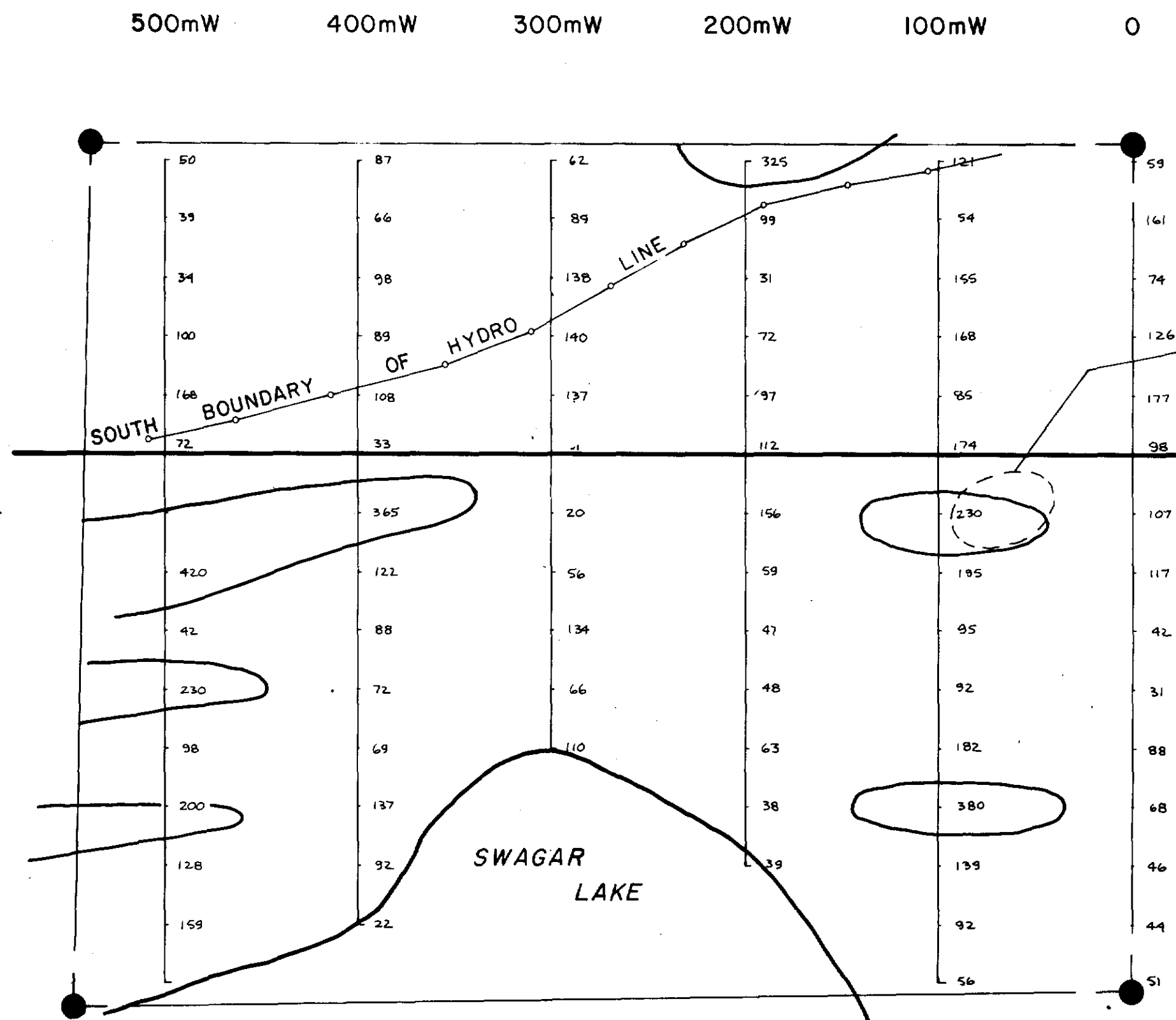
Analytical Method Below

Reagents Used _____

General (1) Zn-Determined by A.A after Aqua Regia Digestion

(2) Au - Determined by the combined fire-assay/A.A. method

(3) As - Determined by colorimetry after HNO₃/HClO₄ digestion.



GRENVILLE AREA
CLARENDON TWP. - CLAIM E0527161

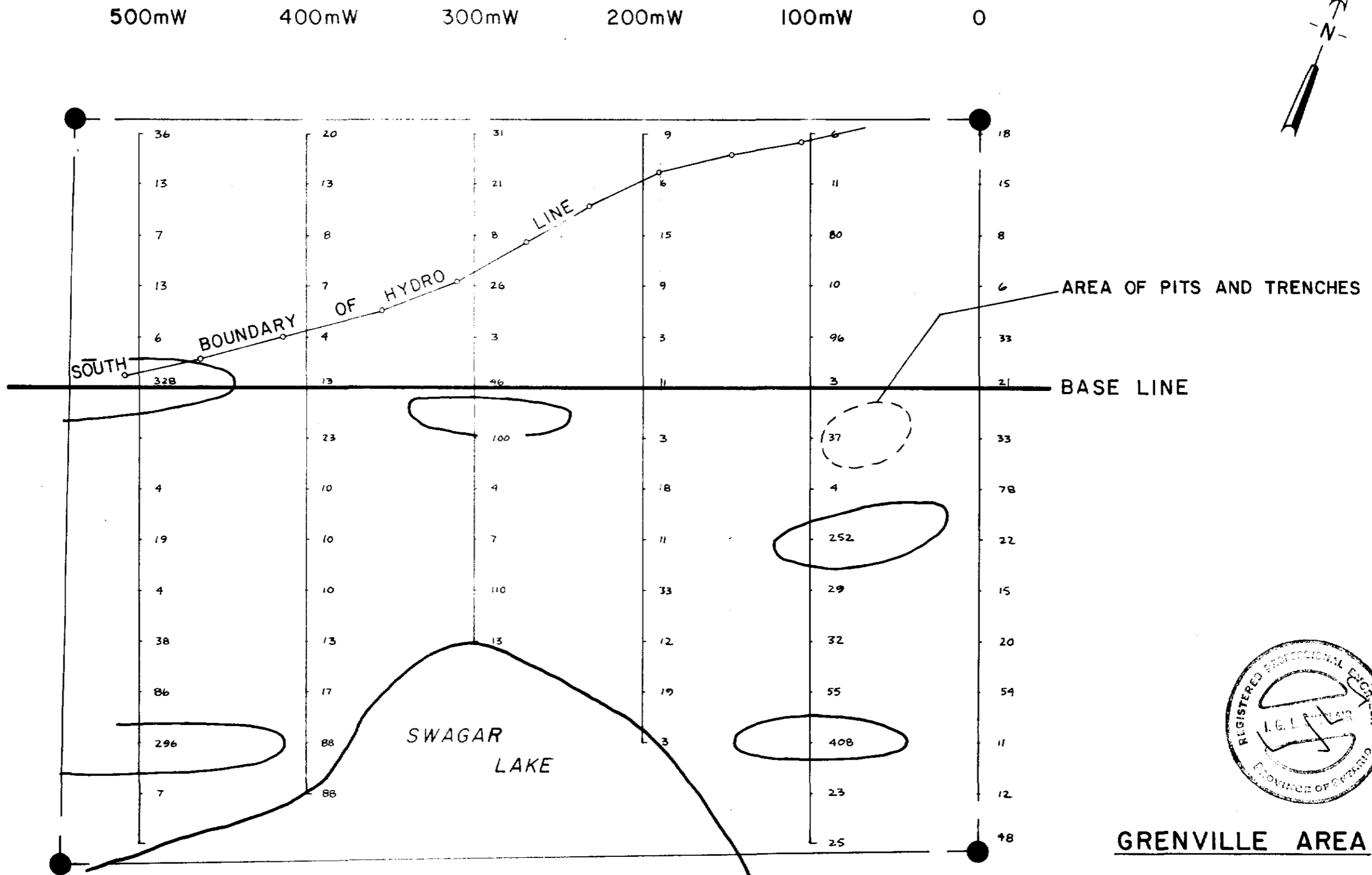
CONTOURS: AT 200 p.p.m. Zn

SCALE: 1:2500

GEOCHEMICAL SURVEY
Zn CONTENT OF 'B' HORIZON SOILS
in p.p.m. (-80 MESH)

SM2999





00p.p.m. As

SCALE : 1:2500

CLARENDON TWP. - CLAIM E0527161

GEOCHEMICAL SURVEY
As CONTENT OF 'B' HORIZON SOILS
in p.p.m. (-80 MESH)

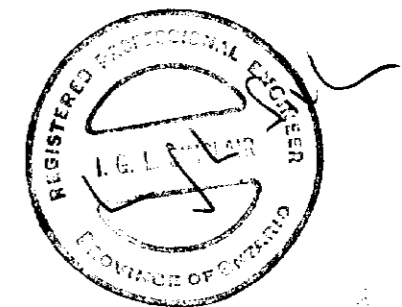
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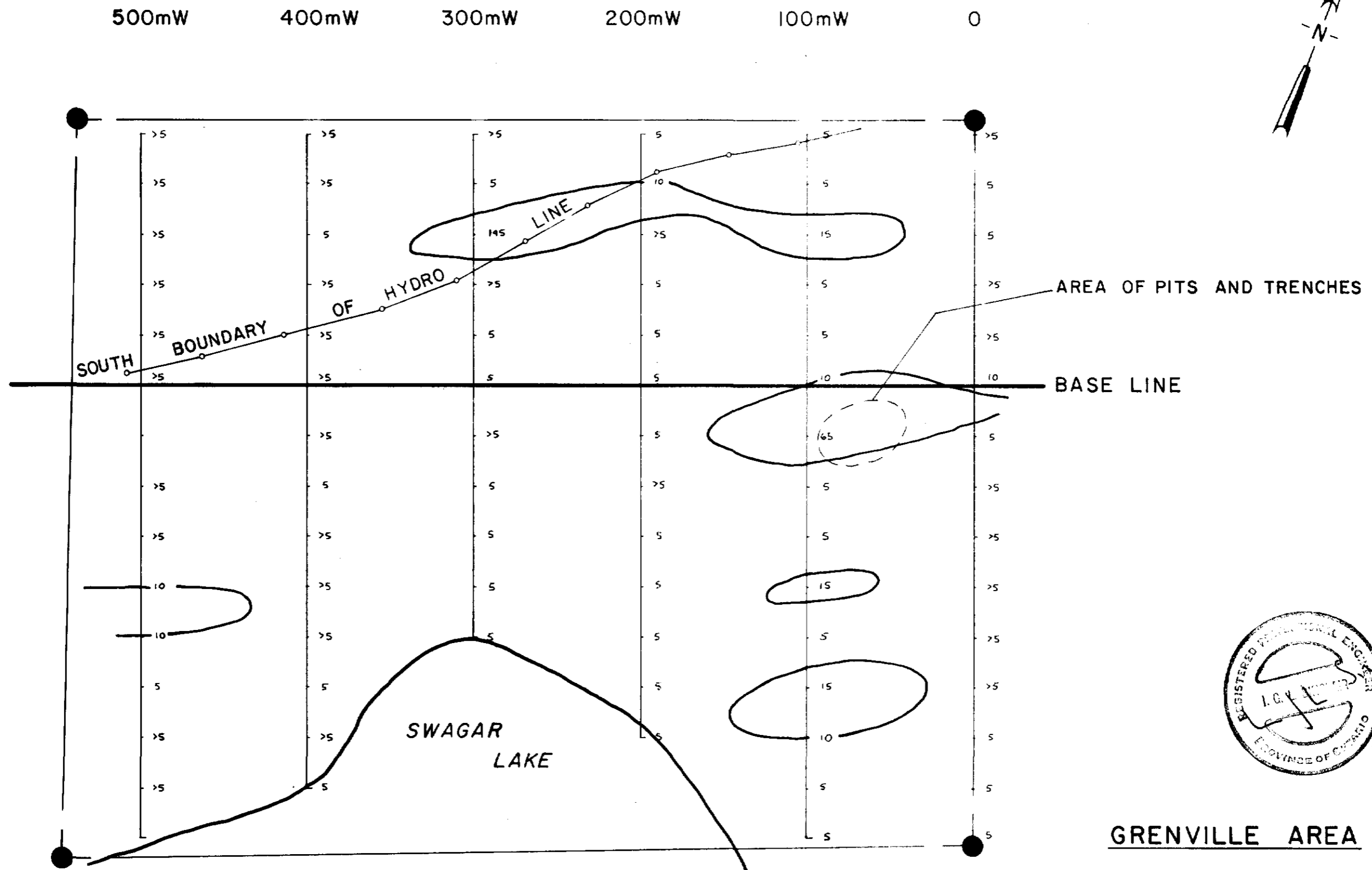
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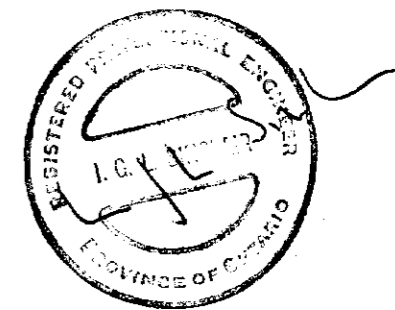


GRENVILLE AREA



CONTOURS: AT 10 p.p.b. Au

SCALE: 1:2500



GRENVILLE AREA

CLARENDON TWP. - CLAIM E0527161

GEOCHEMICAL SURVEY
 Au CONTENT OF 'B' HORIZON SOILS
 in p.p.b. (-80 MESH)

SM 3001

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