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REPORT

ON AN

AEROMAGNETIC SURVEY

SOUTH TIMMINS AREA

ONTARIO

AMAX MINERALS EXPLORATION LIMITED

May, 1980

A. Watts Geophysicist

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INTRODUCTION

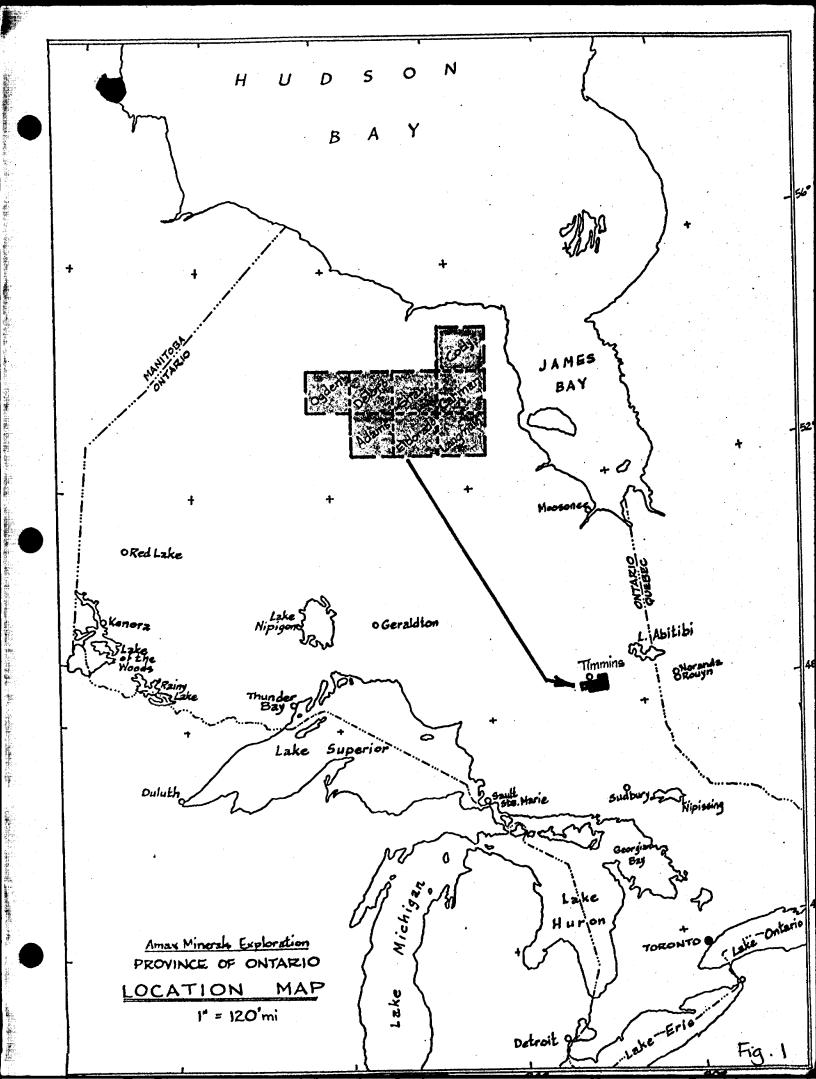
During the month of December 1979, Aerodat Limited undertook an aeromagnetic survey, covering varying proportions of Deloro, Ogden, Shaw, Langmuir, Carman, Cody, Eldorado and Adams Townships, Northern Ontario for Amax Minerals Exploration Limited.

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The purpose of the survey was to improve on the fragmentary geophysical information available on the above mentioned townships, and to provide a high-quality database for further mineral exploration activity in the area.

Key personnel present for the duration of the survey were; A. Watts and L. Lebel, Amax staff geophysicists, and W. Boyko, operating manager for Aerodat Limited. Other personnel involved were:

R. Roussain	-	Amax Geologist
M. Watt	-	Helicopter Pilot
W. Courier	-	Dataman
D. Hayward	-	. Equipment operator/navigator



SURVEY PROCEDURE

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The survey was flown at a line spacing of 200 metres. Survey airspeed averaged 120 km/h, and the aircraft -(Bell 206 Jet-Ranger helicopter) maintained an average terrain clearance of 70 metres, with the magnetometer sensor located 15 metres below the helicopter, approximately 55 metres above ground.

Survey equipment consisted of a Barringer AM-104 proton precession magnetometer, an Aerodat-Perle data acquisition system, a Hoffman radar altimeter, a Geocam 35 mm flight path camera, and a Barringer 8-channel analogue recorder. All geophysical data were also recorded digitally on magnetic tape.

Flight path was recorded manually by an experienced navigator, and also automatically be 35mm Geocam continuous strip camera. A base station magnetometer was established in the area to monitor local diurnal fluctuations.

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DATA PRESENTATION

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The aeromagnetic data is presented in computer contoured plan form. The data has been contoured at a nominal 20 gamma interval. Where steep magnetic gradients are encountered, over serpentinite and iron-formation for instance, the contouring interval is 100 gammas. No filtering has been carried out on the magnetic data.

The survey was flown in 6 contiguous blocks, flight direction varying between blocks so as to maintain orthogonality with anticipated geological strike. Thus the data are presented on six separate maps. Matching of contours in the overlap region between maps is good. An index map condensing the six separate 1:15 000 maps into a single 1:50000 maps, is also presented in the report.

DISCUSSION OF RESULTS

The most striking feature resulting from the aeromagnetics is the number of strongly magnetic geologic features present within the survey block. In general these represent ultramafics (serpentinite) and iron-formation units belonging to the Deloro group, and "Keweenawan and Matachewan diabase dykes.

For convenience sake, discussion of the survey has been divided into the six contiguous survey blocks constituting the survey, with an overall summary added at the end. BLOCK 1

This block can clearly be divided into a magnetically quiet northern extremity, and an active southern two-thirds, the well-defined E.W. trending magnetic low, demarcating the boundary between the two, being interpreted as the Porcupine-Destor Fault. Thus the magnetics indicate. a marked contrast in magnetic properties between the Tisdale group north of the Porcupine-Destor and the Deloro group to the south.

Immediately south of the Porcupine-Destor magnetic break is a sub-paralleling linear magnetic high, which is fairly continuous across the whole of Block 1. The source of this magnetic unit is interpreted as one of the numerous oxide iron-formations present within the Deloro group.

The highly magnetic U-shaped feature north of Shaw Lake appears to be caused by a combination of an E.W. trending diabase dyke, which is quite continuous across the entire survey area, and N.S. to N.W trending lenses of ultra-mafics (serpentinite).

The featureless S.E. portion of Block 1 is thought to represent felsic to intermediate volcanics, which extend into Block 2, of which they occupy a major part, and also Blocks 5 and 6.

BLOCK 2

The ultra-mafics unit mentioned in Block 1 extends southward into Block 2 and is abruptly terminated by a fault about 2½ kilometres into the Block.

This fault appears to have sinistral displacement, the ultramafics being shifted eastward. A much distorted NW trend can be discerned from the ultramafics in the southern half of this block, severe faulting and several crosscutting diabase dykes creating a succession of erratic highs and lows. The signature of the major E.W. trending diabase dyke at the south end of Block 2 is effectively masked where it cuts across the ultramafic unit.

BLOCK 3

This block is noteable for its geometric pattern of N.S. and E.W. crosscutting diabase dykes. The N.W. strike of ultramafics in Block 2 appears to have swung around to an approximate E.W. strike and the hinge of a regional fold is implied as strike direction on Block 4 is approximately NE. The magnetically benign north and central portions of Block 3 appear to be caused by a felsic intrusive.

BLOCK 4

This block is almost entirely dominated by strong anomalies reflecting numerous ultramafics lenses occupying a general N.E. trend. Some weak N.S. incursions into the ultramafics in the extreme south of the block probably represent weakly magnetic Matachewan quartz diabase dykes. Again highly magnetic Keewanawan dykes are evident tracking across the N.W. corner of the block.

BLOCK 5

The general geologic strike as portrayed by the magnetics in this block is similar to that in Block 2 i.e. N.W, and appears to have outlined the eastern limb of the fold structure suggested in the discussion of Block 3. Government geologic mapping in this area indicates that the magnetic N.N.W. trending features in this block arise from both iron-formation and ultra-mafic sources, but it does not appear possible to distinguish between the two units on the basis of the magnetics. Diabase dykes of E.W. and N.N.E. orientation are pervasive throughout this block, as is the case throughout most of the survey area. The relatively inactive eastern portion of Block 5 probably relates to a metasedimentary source as this rock type has been identified immediately west of Nighthawk Lake.

BLOCK 6

Geologic strike swings abruptly from N.N.W in Block 5 to E.N.E. in Block 6. It should be noted that this is the only Block in the survey area in which diabase dykes do not form a prominent pattern. The majority of linear magnetic features in this block would appear, because of relative continuity, to be caused by iron-formation rather than serpentinite as most ultramafic occurrences in the survey area are rather irregular and lensoid in shape.

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SUMMARY AND CONCLUSIONS

The survey has successfully outlined, with a high degree of resolution, numerous magnetically anomalous geologic units and in the process resolved at lease two major structural features i.e. the Porcupine-Destor Fault, and the major fold structure passing through Blocks 2,3,4,5.

A more detailed examination would undoubtedly produce more structural information, but such an examination is beyond the scope of this report, in which an attempt has been made to assess the aeromagnetic data on a regional basis.

The base-metal potential of the survey area aside, there is an obvious gold exploration attraction, the two northernmost Blocks (5 and 6) forming the most logical follow-up areas, located as they are just south of a multitude of old and existing gold mines.

This aeromagnetic survey should provide an invaluable database for future mineral exploration activity in the area.

Respectfully submitted

a. Watta

A. Watts, Geophysicist Qualification # 2.2910

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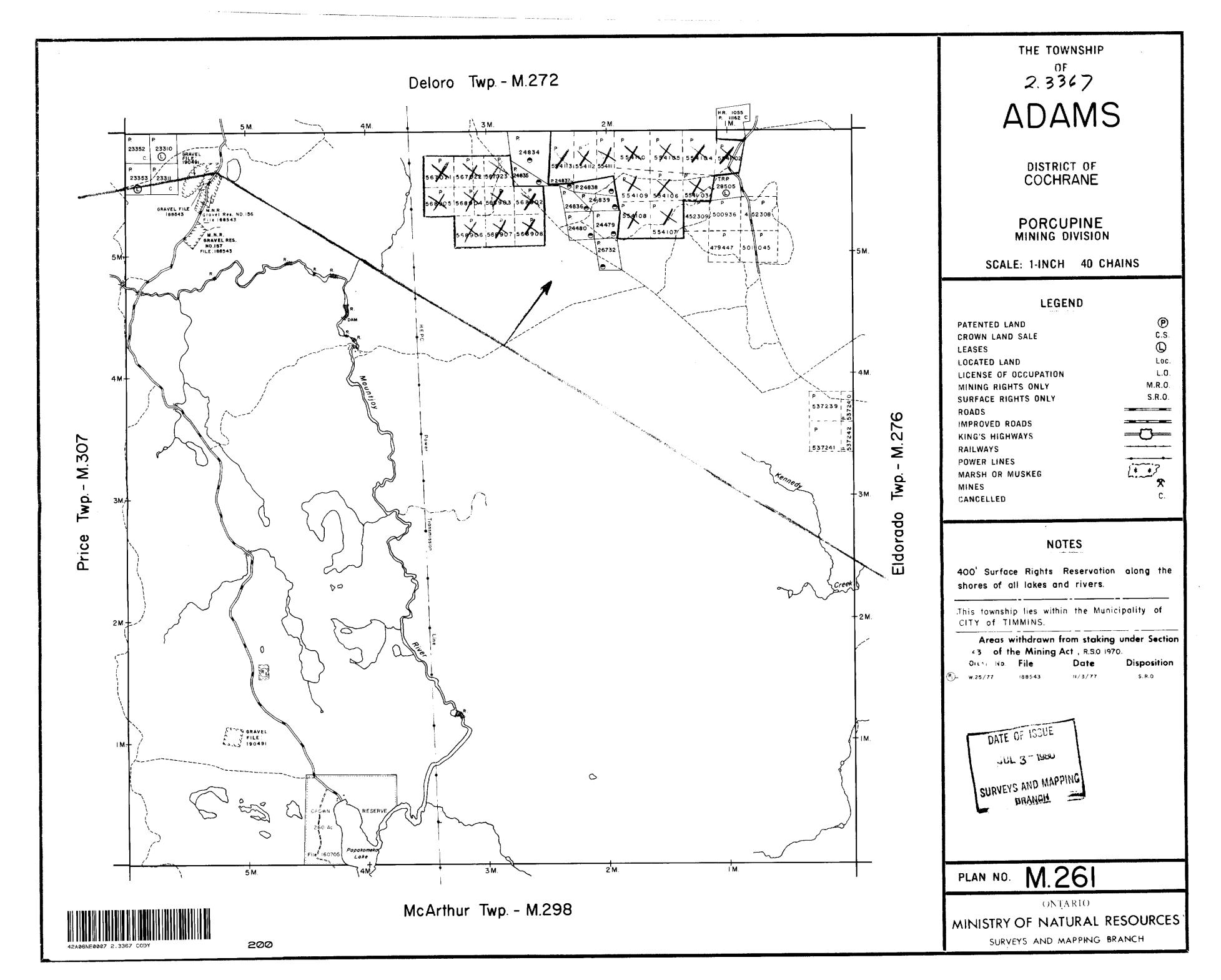
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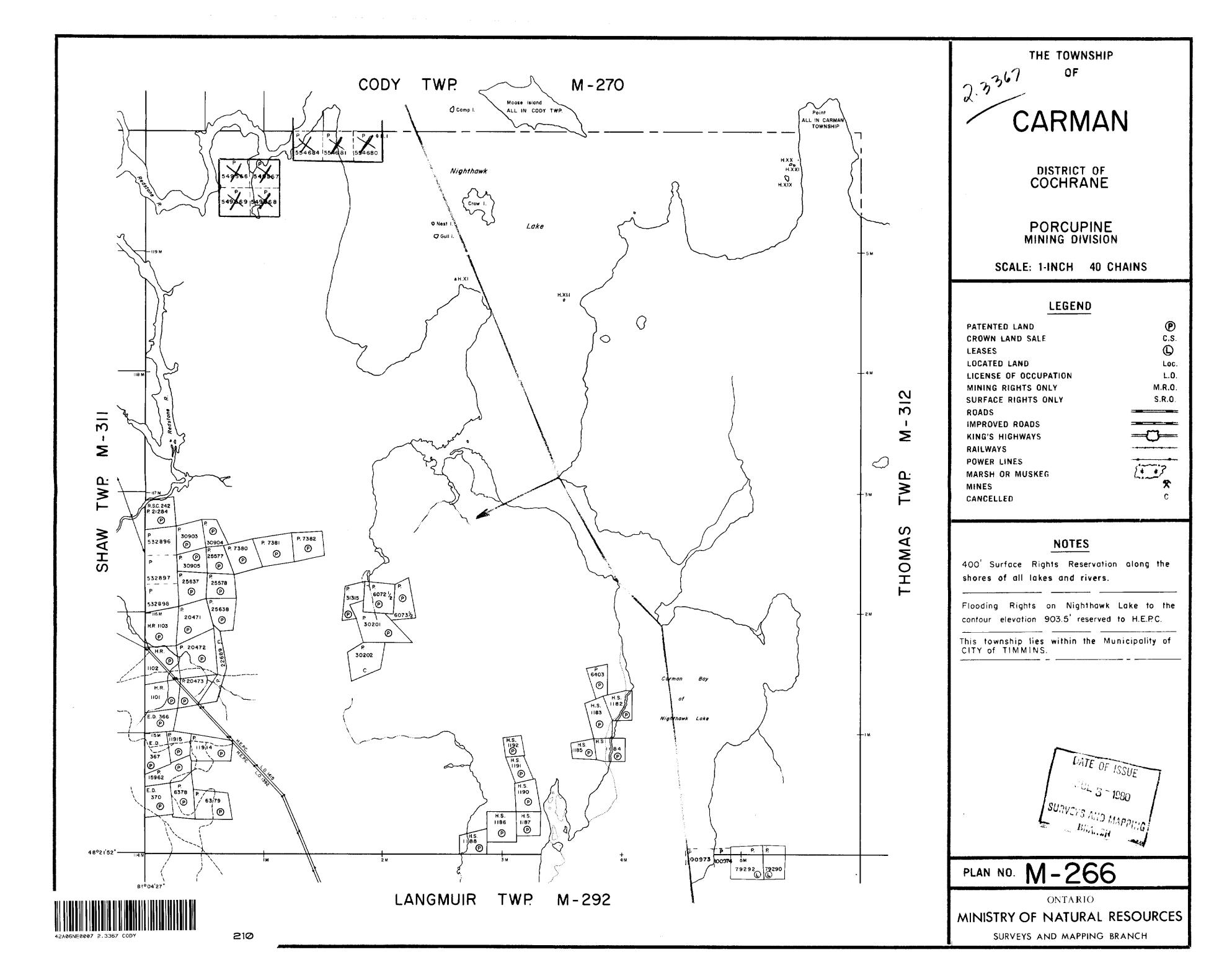
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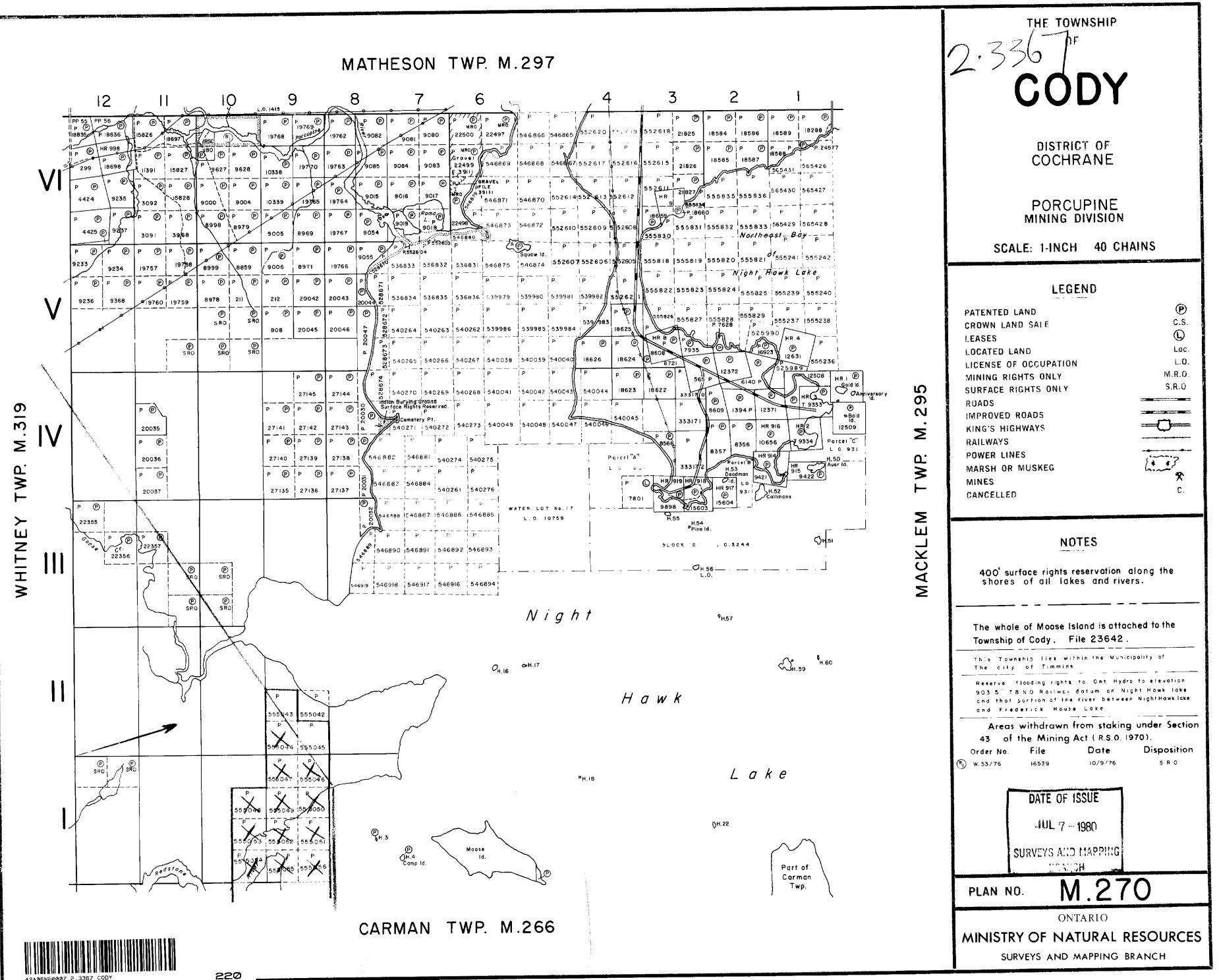
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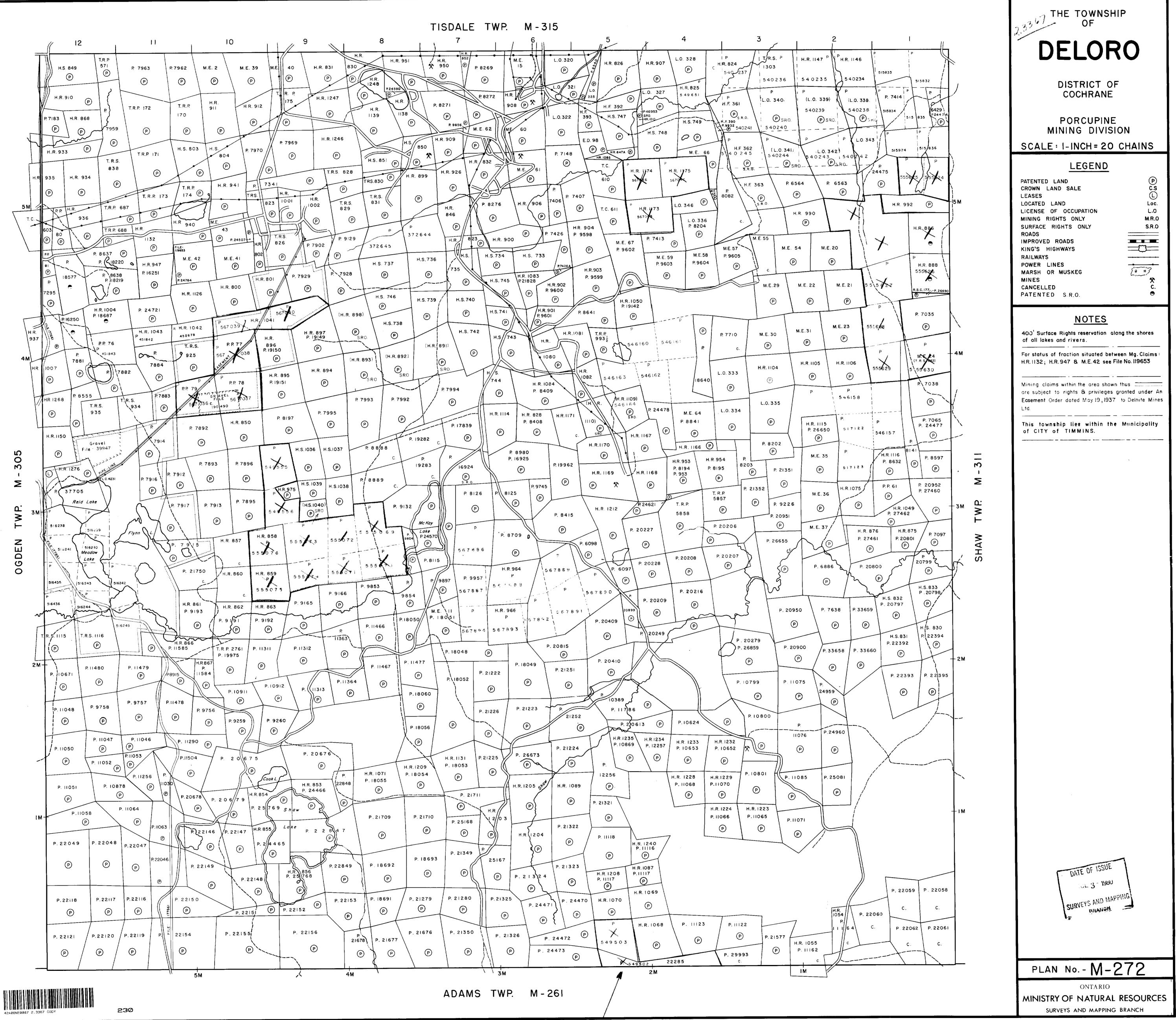
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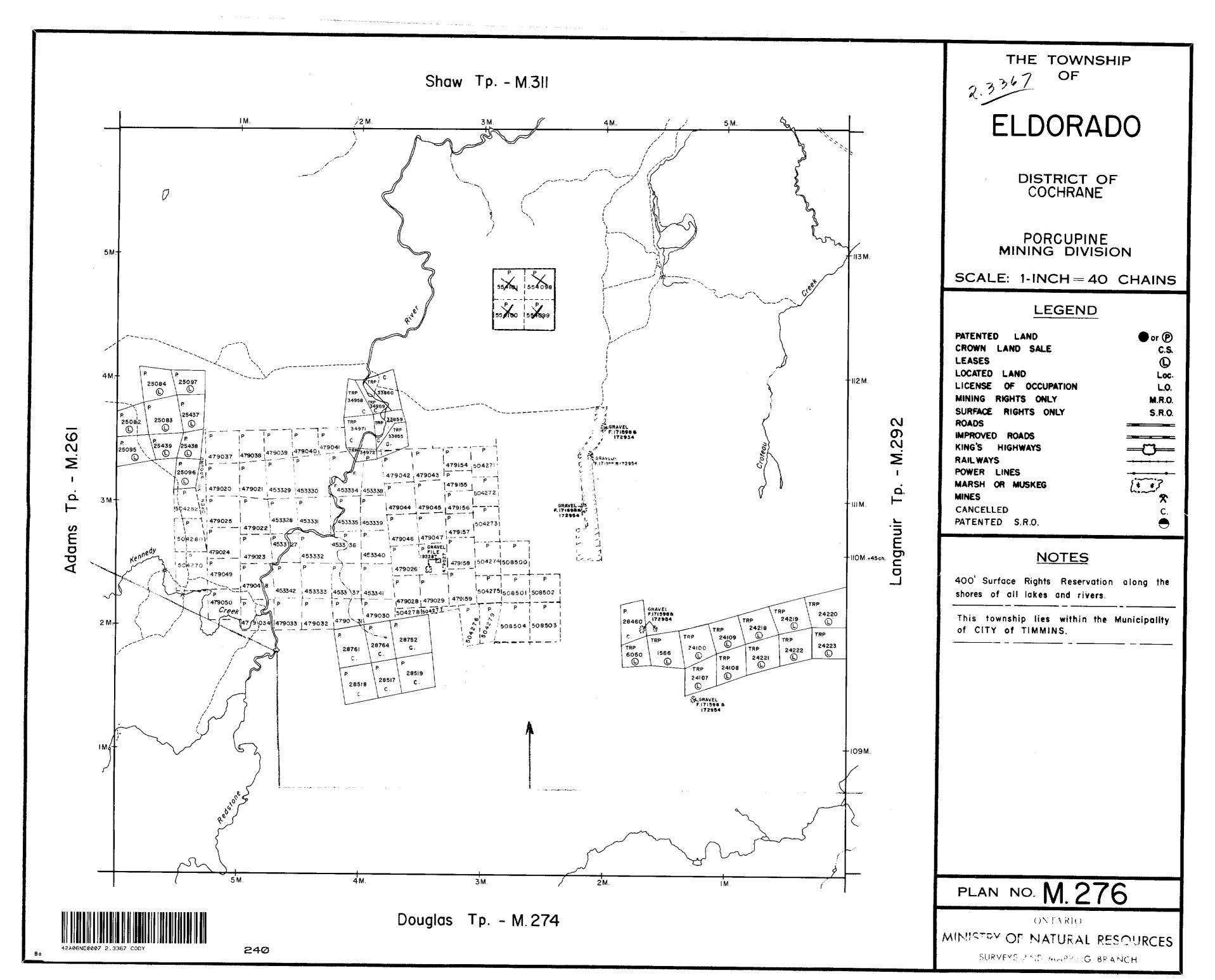
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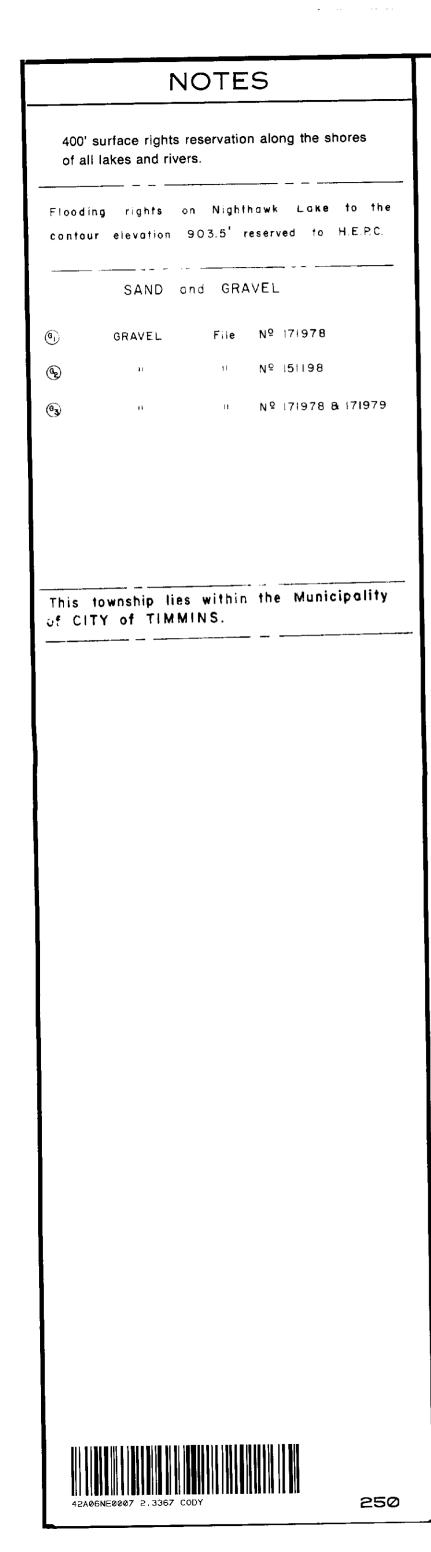


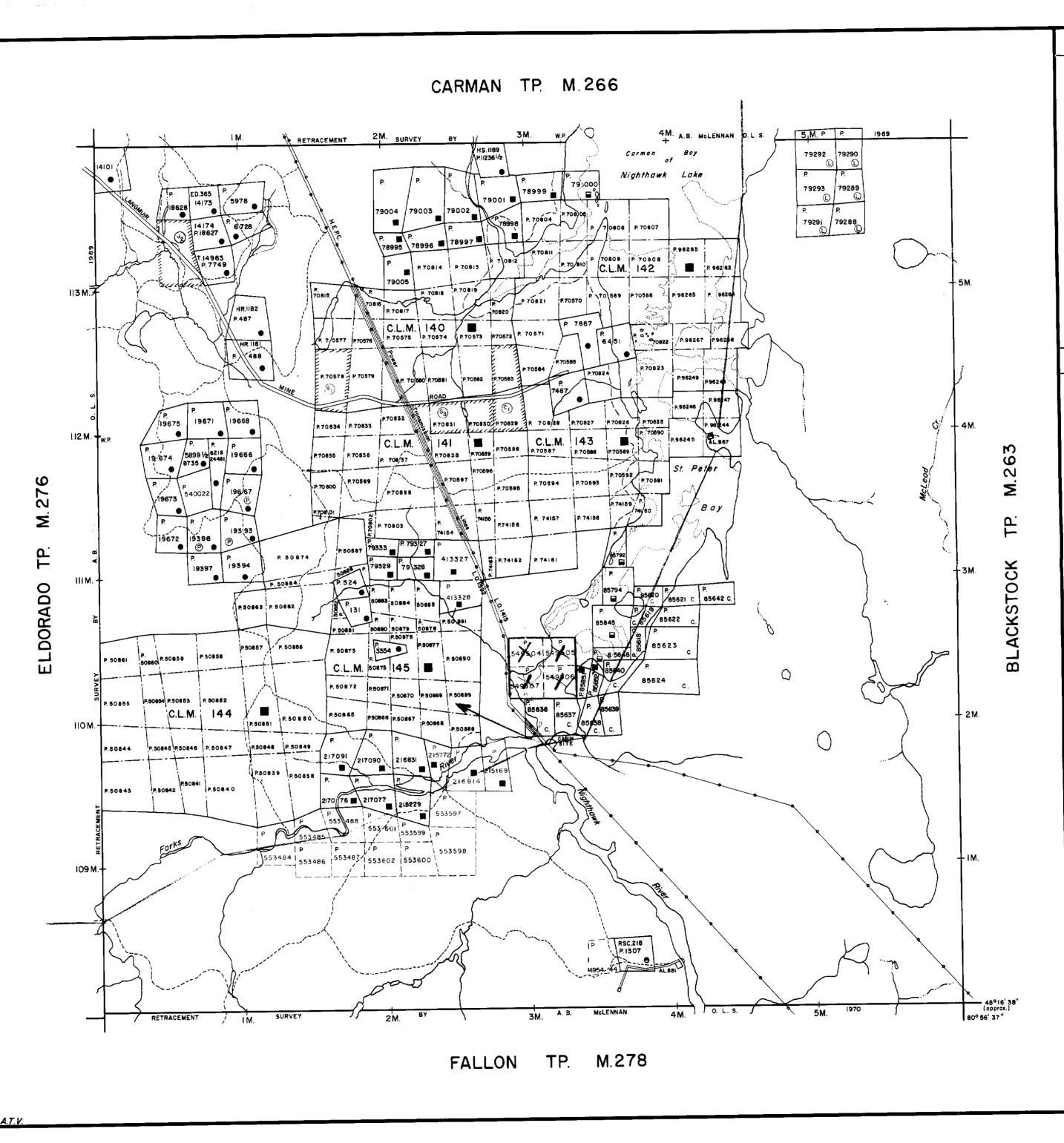






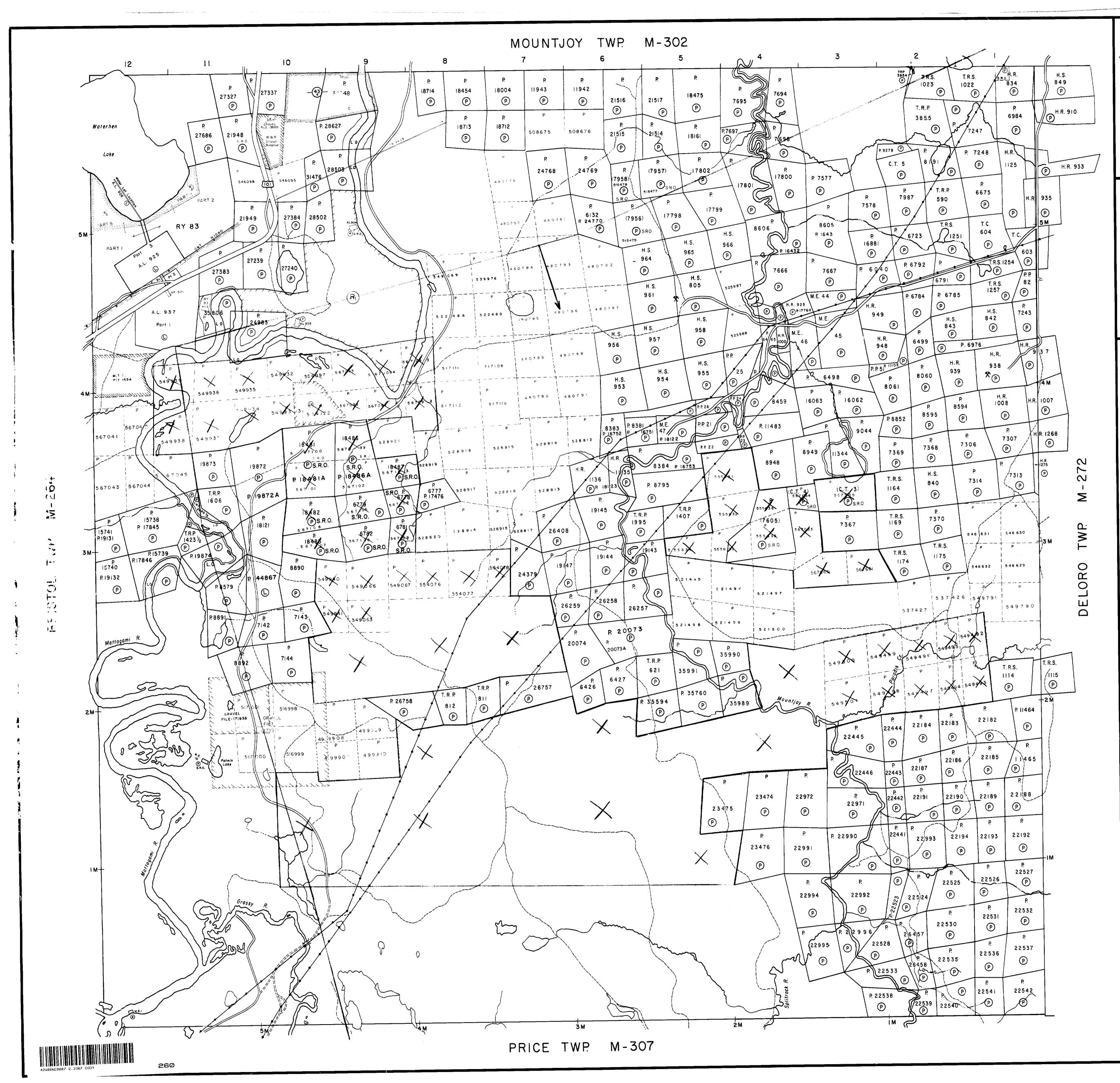




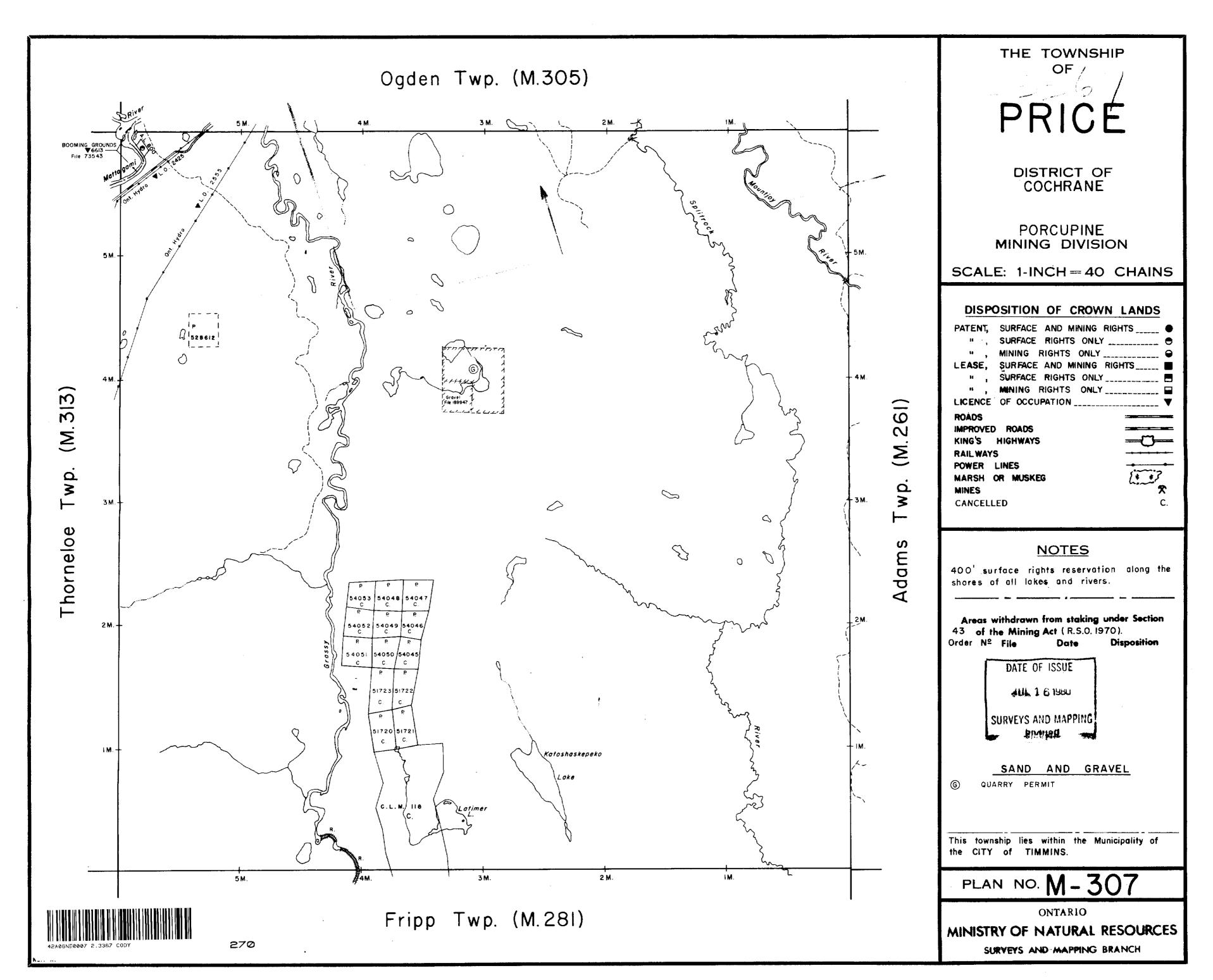


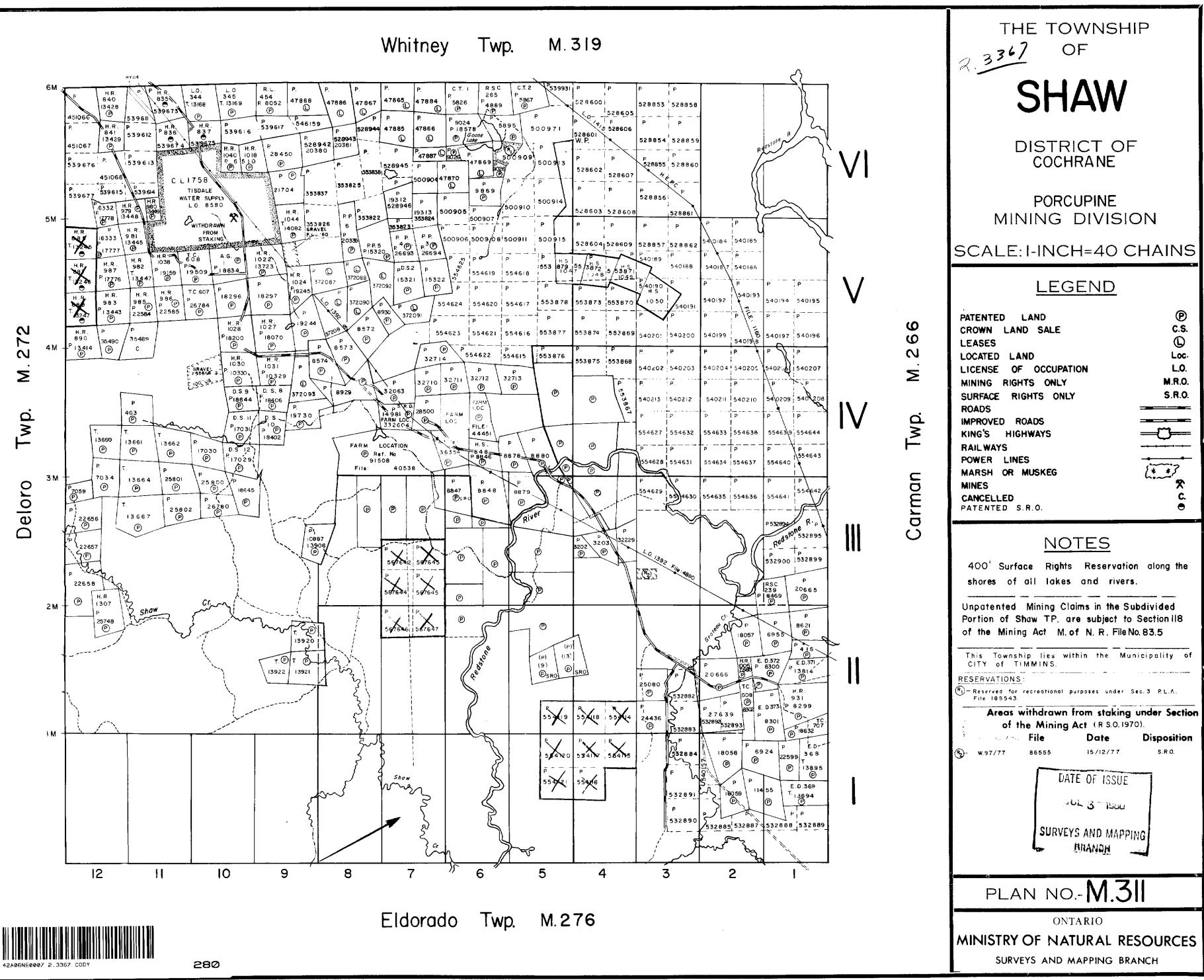
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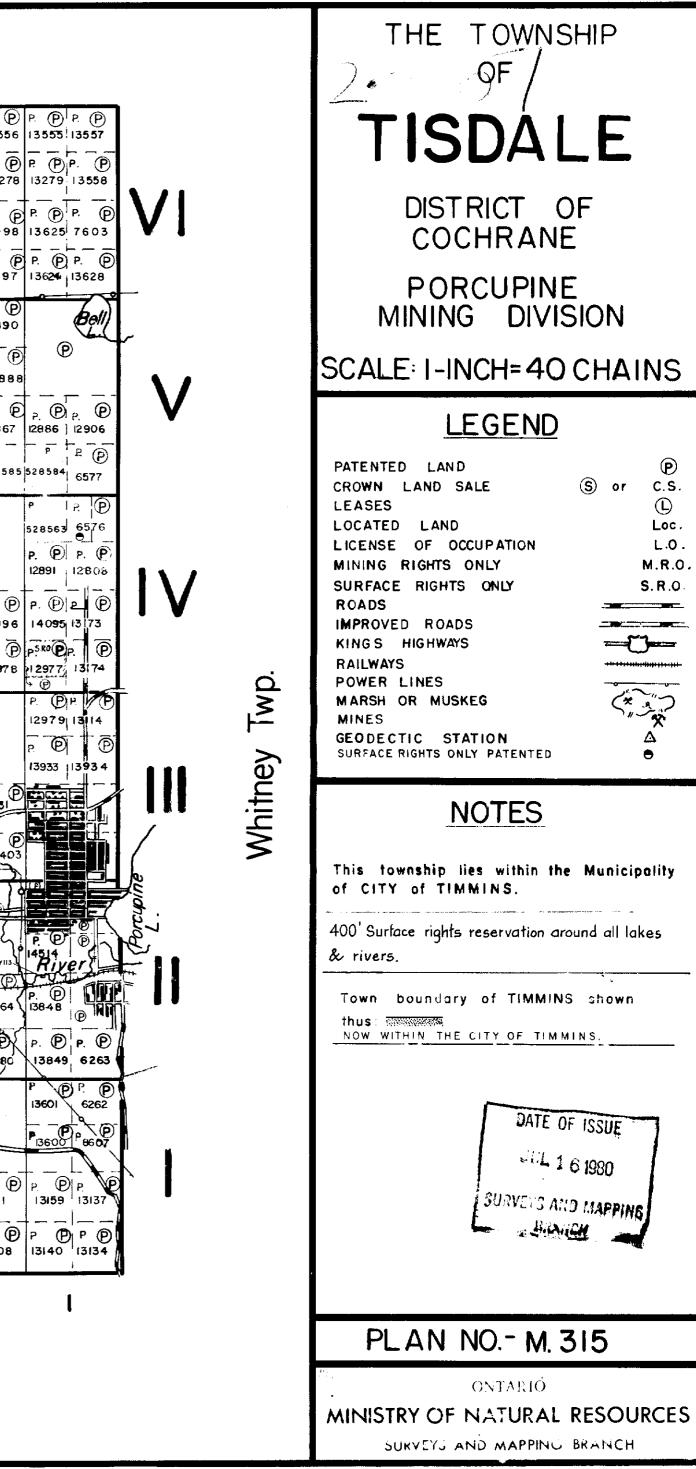


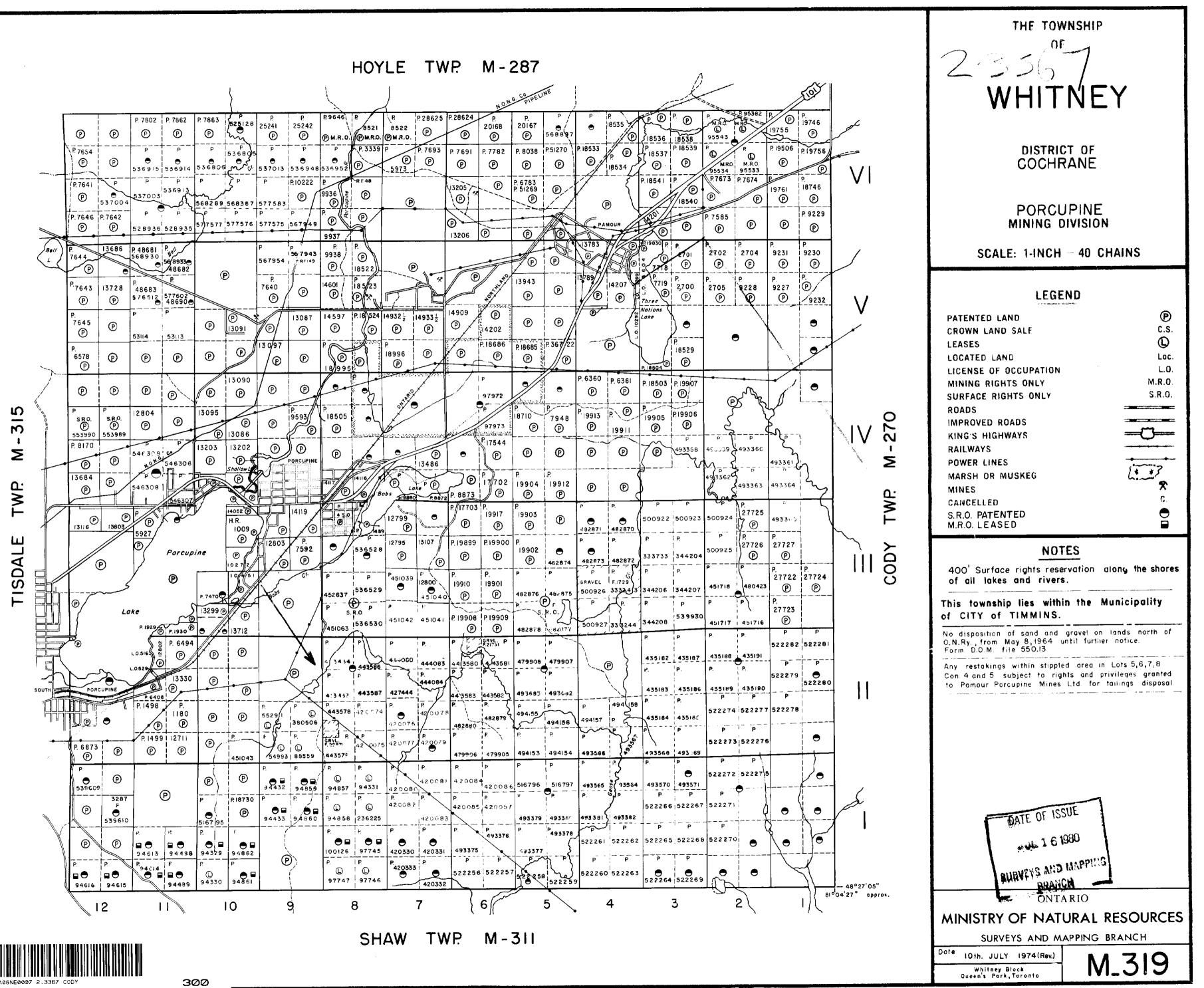
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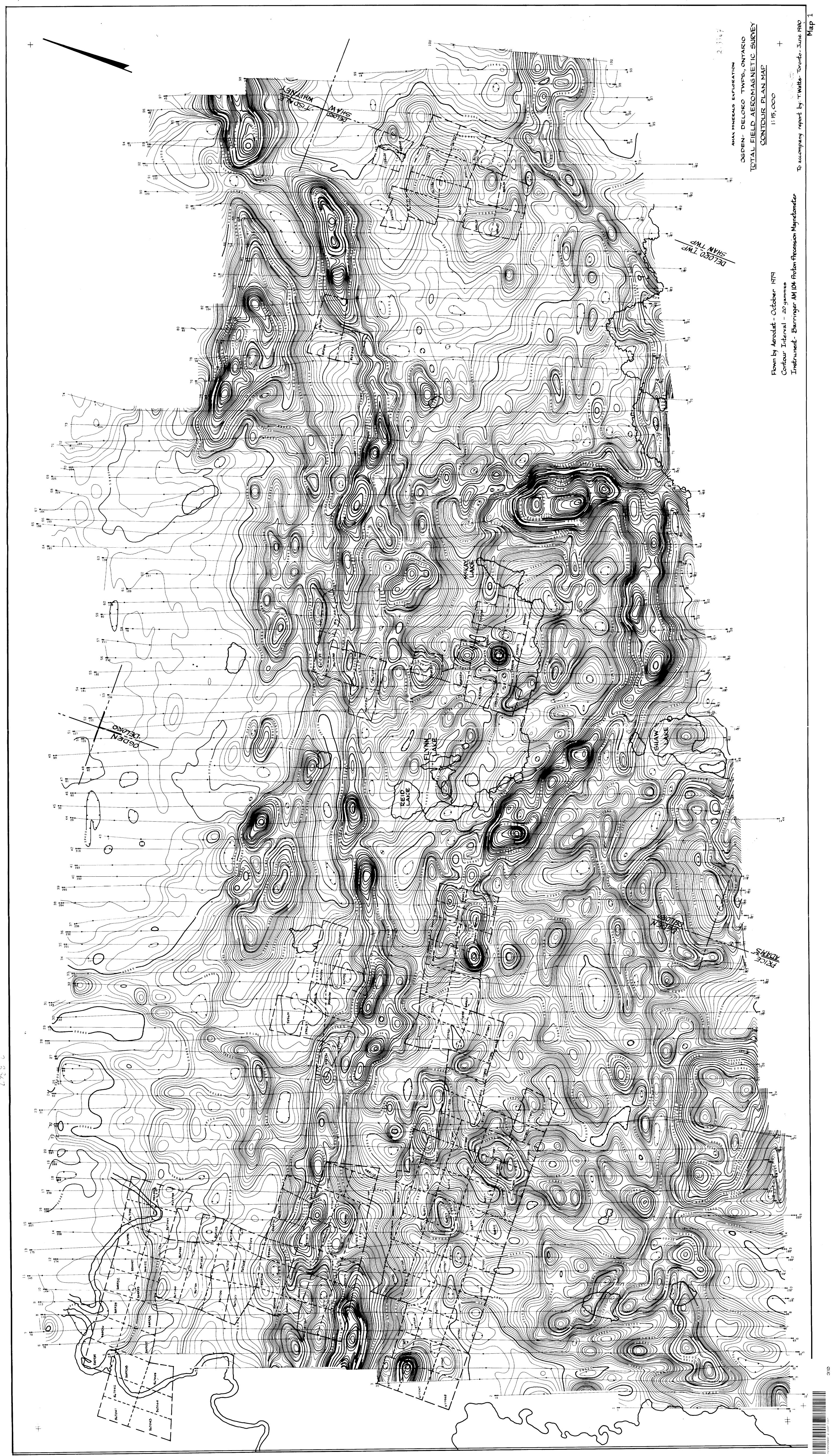


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