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42K02SE0001 OP93-643 SQUAW LAKE

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Final Report Empress Lake Property NTS 52 - G - 15 Sturgeon Lake Area

Dec 1993

Don Cross

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1.0 PROJECT LOCATION:

The property is located approximately 35 kilometres southeast of Savant Lake, Ontario. The center of the property is located at Latitude 50°00'30" and Longitude 90°35'00" between Vista and Empress Lakes on the southern part of the Squaw Lake G-3140 and the northern part of the Quest Lake G-2556 Claim Maps, and on NTS Sheet 52-G-15.

Access to the property from Savant Lake is via travelling 2 kilometres south on Highway 599 to the MTO Building and turning left onto the Vista Lake Road. Travel approximately 30 kilometres to the north of Vista Lake and at Vista Lake the right branch for another 3 kilometres to the northern property boundary. (figure 1-2)

The project area has extensive overlying glacial deposits with the greatest relief along the syenite ridges and the area contains extensive blowdown from wind storm which occurred in the mid 1980's.

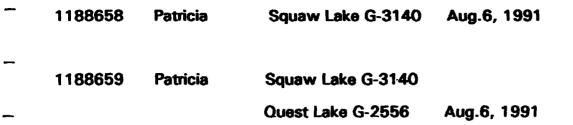
2.0 **PROPERTY DESCRIPTION:**

The property consist of three unpatented mining claims totalling 704 ha. and is located in the Patricia Mining Division. (see Figures 7.1-7.2)

CLAIM NO. MINING DIVISION CLAIM MAP SHEET RECORDED

1188646 Central Patricia Squaw Lake G-3140

Quest Lake G-2556 Aug.6, 1991



3.0 PROPERTY HISTORY:

The history of the property from research of assessment files at MNDM revealed that no previous work has been filed on the area surrounding and inclining the claims.

Evidence of prospecting, for gold and sulphide has concentrated to the west and south of the property dating back to the early 1900's. Prior to the Mattabi Cu-Zn discovery in the 1970's. the most extensive exploration has been on the belt of banded iron formation to the south near Sassafras Lake for iron ore deposits. After the Mattabi discovery, exploration switched to base metals within the volcanicsedimentary rocks to the west of the property.

In 1990, a government O.G.S. airborne EM-Mag survey was released and delineated linear magnetic highs with weak EM anomalies on the property covered by Maps 81490 and 81491. (see Figure 3)

In 1991, prospector Adam Benderite discovered gold mineralization associated with iron formation horizon near Div Lake located 14 kilometres due south of the property. Grab samples from the main showing yielded values up to 0.254 oz/to gold. Sporadic exposures of gold-bearing arsenopyrite mineralization are evident over widths of 90 metres and a strike length of 175 metres from mechanical stripping conducted by Adam Benderite.

The Div Lake property was optioned to Hemlo Gold Mines Ltd. west of Empress Lake to Mountairy Lake totalling 30 kilometres of strike length. Noranda the operator for Hemlo Gold Mines Ltd. completed an exploration program in 1991-1992 of geological mapping, prospecting, soil geochemistry, geophysical surveys (mag VLF-IP), trenching and a limited diamond drill program. No results of Norànda's program have been released to the public to our knowledge and the option dropped.

4.0 **PROPERTY GEOLOGY:**

The property geology is essentially Archean syenite (porphyritic biotitehomblende-quartz syenite) called the Vista Lake Intrusion is crescent-shaped and about 5.6 kilometres wide at the centre, thinning gradually to migmatite on the east and sedimentary rocks including iron formation, to the west and south.(Rogers, 1964)

The Empress Lake property lies near the contact with the sedimentary rocks and contains large included bands of geophysically interpreted iron formation and meta sediments are schist and gneiss and have been metamorphosed to amphibolite grade. The iron formation observed to the west and south of the property is of the lenticular, banded, of banding, magnetite content, width, and is interbedded, interfingered, and grades out along strike into the enclosing sedimentary schist and gneiss.

A body of medium-grained quartz monzonite is located at the south end of Empress Lake The area was mapped by Roger D.P. from the O.G.S. in 1964 as Metionga Lake Area, Geological Report No. 24, Maps 2044 (East and West Half), Scale 1 in = 1 mile and Trowell, N.F. in 1983 as Geology of the Squaw Lake-Sturgeon Lake Area, District of Thunder Bay, O.G.S. Report No 227, Map 2420, scale 1:31,680. (see figures 4 and 5)

5.0 CONCLUSIONS AND RECOMMENDATIONS.

Following the receipt of \$10,000 grant in lieu of the 20,000 applied for it was decided to scale down this year's program.

The program decided upon consisted of prospecting and sampling the anomalous magnetic area before contemplating the rest of the program. It was felt that if the prospecting program came up with an anomalous gold zone and or veins the remaining funds could be concentred on these zones.

Ten man days were spent prospecting and sampling the anomalous magnetic trends.

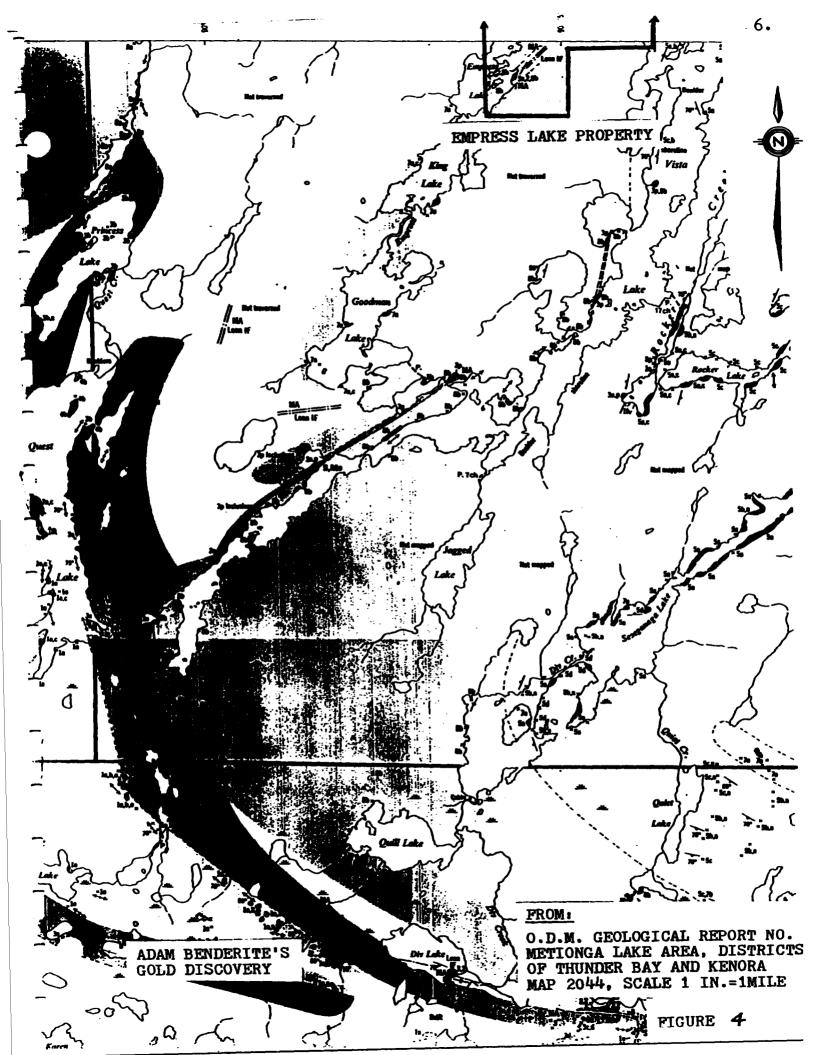
Very little actual outcrop was noted except in the southern part of the claim block near the northern of Empress Lake. At lot of frost heaves were noted along the magnetic trends and consisted of angular blocks of meta sediments and lean iron formation. In most cases these appeared to be from near surface exposures although there is a lot of glacial moraine material in the immediate area.

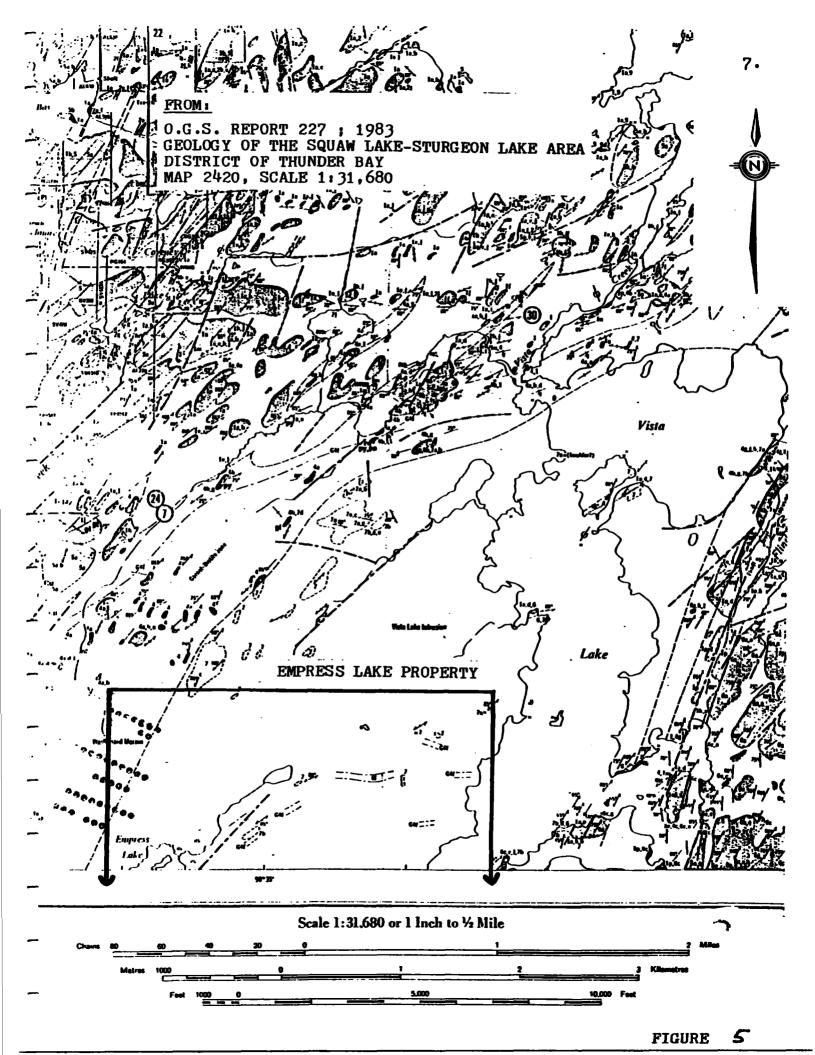
A total of 41 samples were panned for there gold content from rusty (gossan) lean iron formation with or without quartz veinlets. No visible gold was noted in any of the 41 samples. Three samples were submitted for assay where small gold specs were suspected. In all three cases sample Nos. 16851 to 16853 and failed to return any gold values when fire assayed.

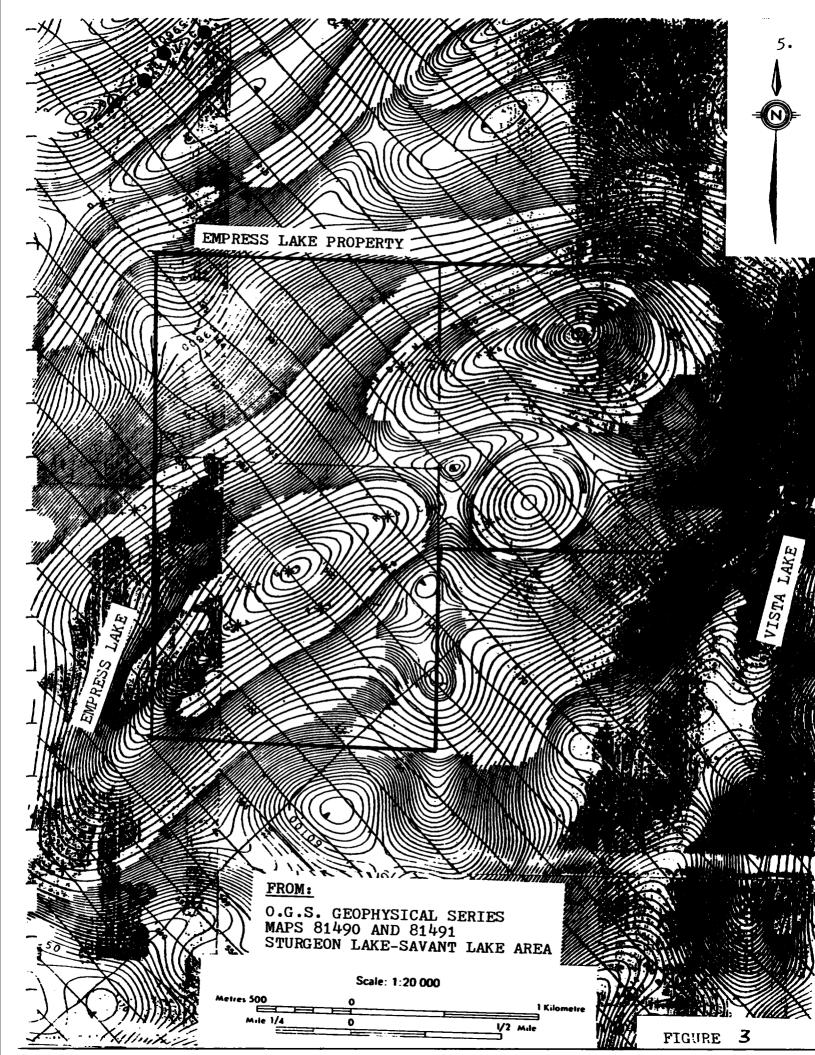
Following the negative prospecting results the program was abandoned.

It is recommended no further work for gold be contemplated along this short section of the belt.

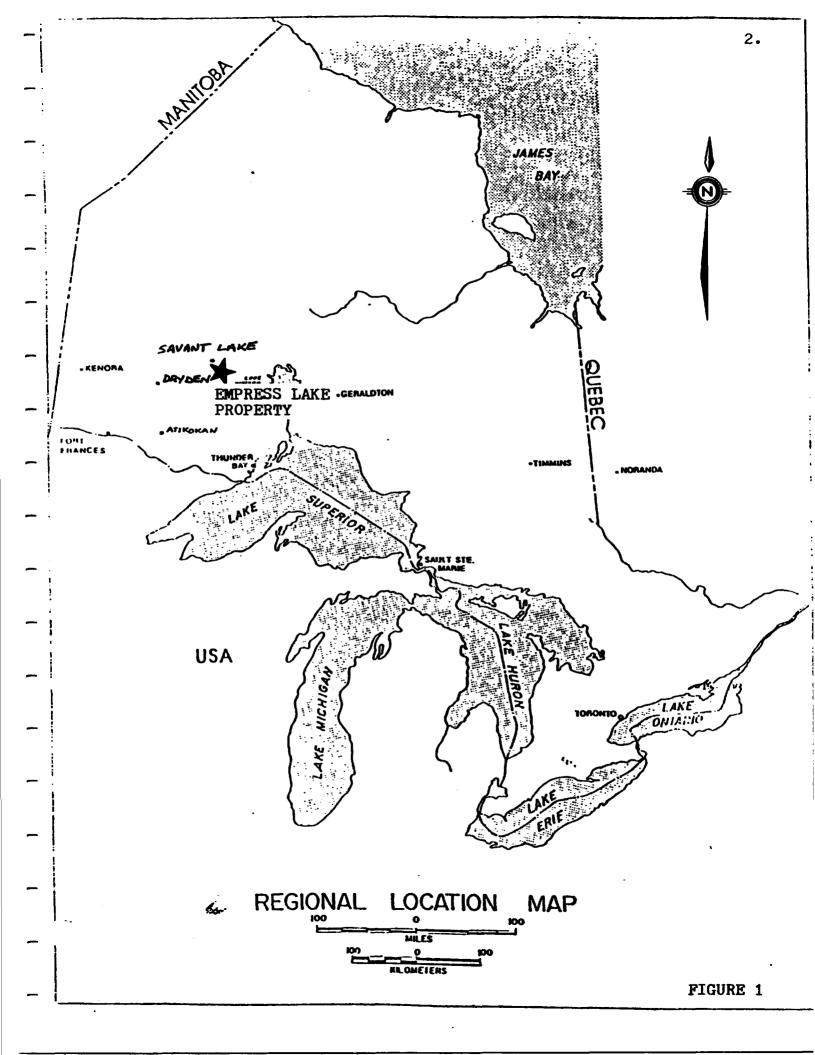
Submitted by Don Cro

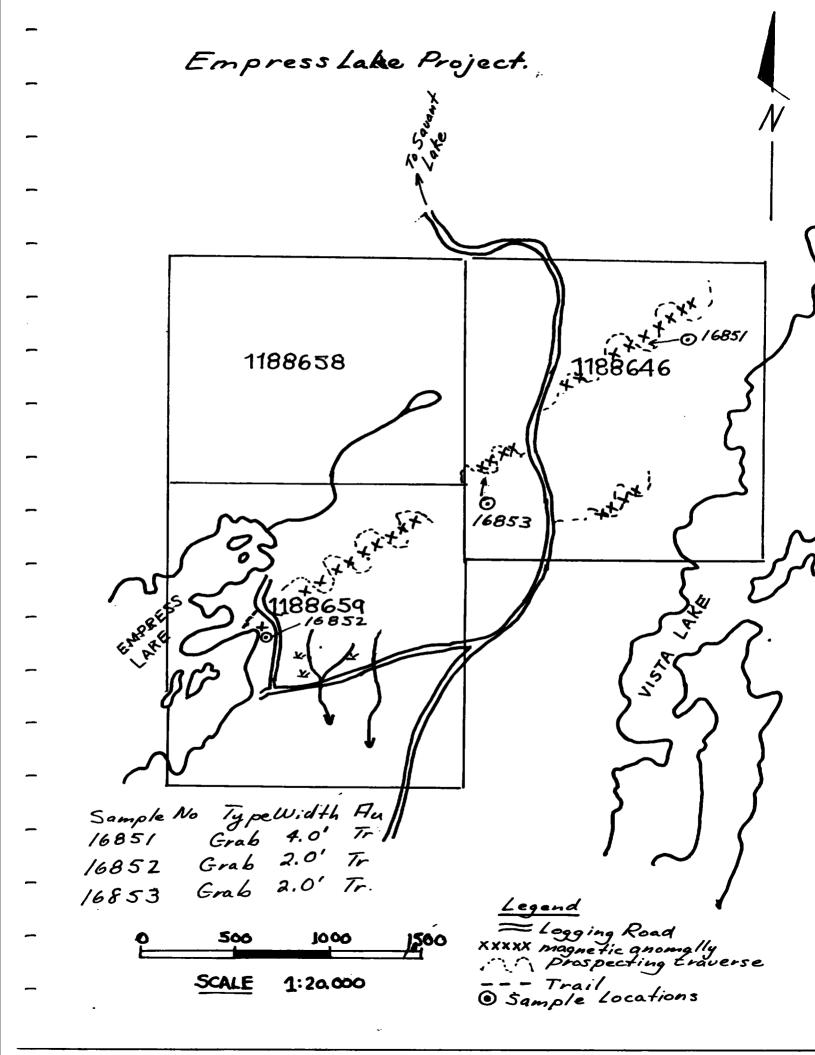












La Fontaine Project Summers Twp NTS 42E 12/SW Thunder Bay Mining Division

Don Cross

PROJECT LOCATION:

The claim group is located in Summers Township and is in the Thunder Bay Mining Division , NTS 42 E 12/ SW near the town of Beardmore. The town of Beardmore is located approximately 80 km west of Geraldton on Trans Canada Highway 11 and 120 kms northeast of the city of Thunder Bay. Access to the property is via a bushroard to the west from Beardmore. A four wheel drive truck takes you into the group and travel within the claim block was by a four track vehicle along a series of old and new roads.

This series of roads is in relatively good shape and made prospecting and the retrieval of samples very easy.

PROPERTY DESCRIPTION:

The Summers Township property consists of 49 contiguous claims:

1068871 to 1068879 inclusive91077737 to 1077742 inclusive61148395 to 1148396 inclusive2

1174237 to 1174247 inclusive 11

1174252 to 1174272 inclusive 21

49 claims

GEOLOGY:

The property consists of interbey/dded mafic meta volcanics meta sediments and a few narrow bands of banded iron formation. The BIF noted were within the meta volcanics. For the most part the BIF are strongly oxidized and show some carbonate alteration. The general strike of the package is N 70° E and dips vary from vertical to 70 ° to the north.

Chlorite alteration is prevalent in the meta volcanics and numerous chloritic shears were noted. I/some instances along the chloritic shears minor amounts of disseminated pyrite was noted and in a couple of instances the pyrite content was

20% over a narrow width.

The meta volcanics are generally green massive to pillowed basalts and are fine to medium grained.

The meta sediments for the most part are foliated grey wackes to mudstones. Very little sulphides were noted in the metasediments.

PROPERTY HISTORY:

The history of the property is long and complex but very well covered by the Beardmore-Geraldton Historical Research Project 5823 published by the Ontario Ministry of Northern Development and Mines. The sections of the report which cover this property are

(1) <u>Buffalo Beardmore</u> Occurrence (19) Alternate Names Fox Occurrence Broadview Gold Mines.

page 152 to 157

(2) Anglo-Beardmore Gold Mines Occurrence (6) Alternate Names Sandenise Gold Mine Boardview Gold Mine

page 144 to 147

(3) Dome Occurrence Occurrence (99)

Alternate Names Thorco Occurrence

Buffalo Beardmore

Snadenise Gold Mines

Boardview Gold Mines

pages 190 to 194.

1993 Program and Results

In follow up to what had been done over the years and in light what had been found in recent trenching it was decided to carry out a sampling program and prospecting program.

The work program consisted prospecting and taking a numerous pans from the more interesting mineralized areas of the both old and new trenches. Where gold was detected a sampling program was undertaken and the area was prospected to see if we could find any extensions.

In the area of the Grey beard showing the strike of the vein system was first brushed out and then panned and sampled.

In total four areas were selected from the initial panning program namely Trench #01, Trench #02, The Grey beard showing and the Arseno Trench area in the Western part of the claim block. In all approximately 60 pans were taken from both quartz and rust zones in the trenches. Following this twenty -One (21) samples were submitted to the Bourlamaque assays lab for fire assaying with gravimetric finish. The result on the whole were disappointing with only one assay sample number 00304 from trench one giving anything close to economic grades. (.250 opt Au across 3.0 feet).

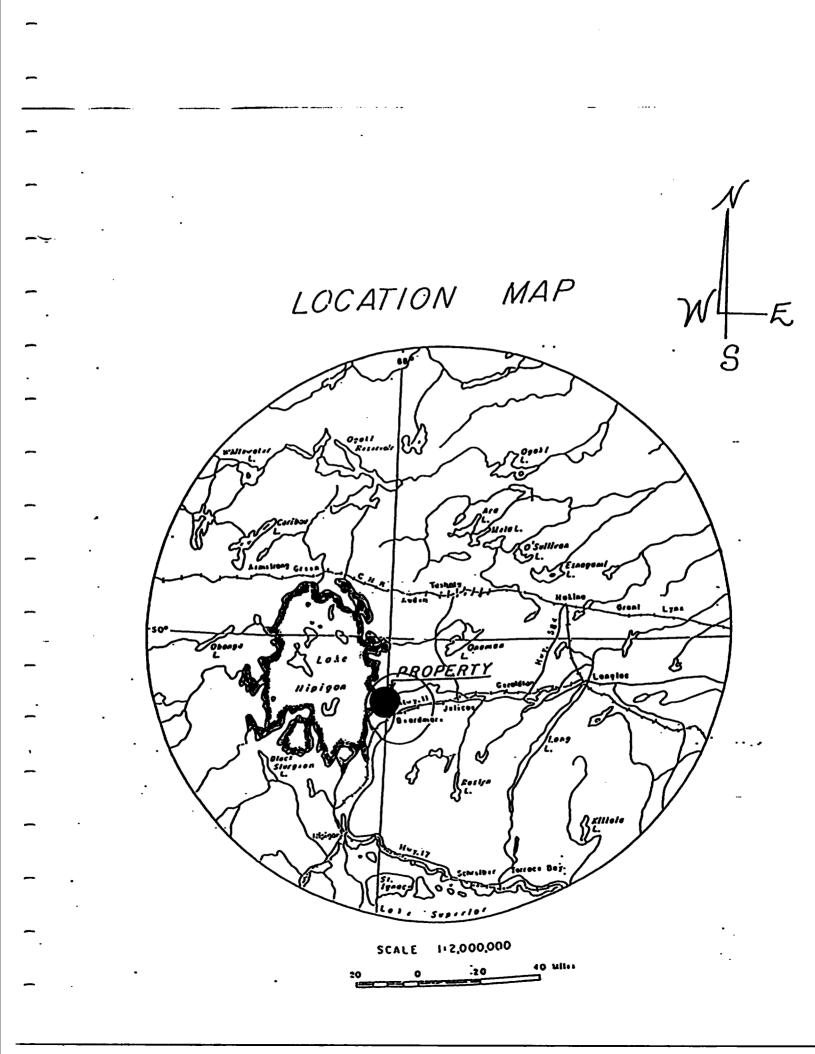
RECOMMENDATIONS AND CONCLUSIONS.

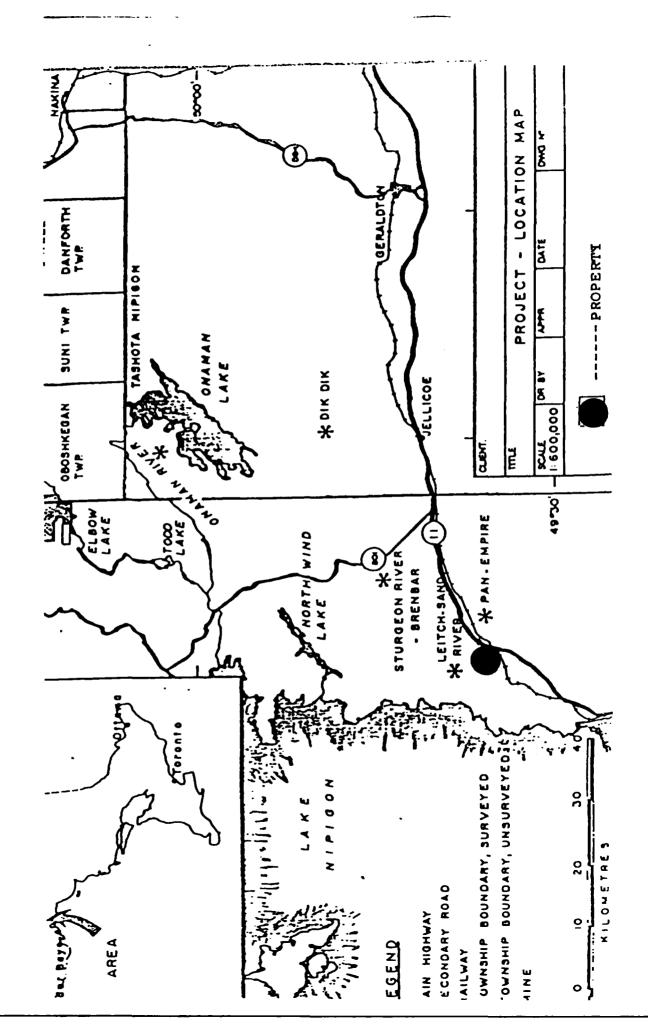
Following the negatives results the program was abandoned. Although there is gold mineralization on the property the mineralized zones and veins are very narrow and do not appear to have the possibilities of making any significant tonnage.

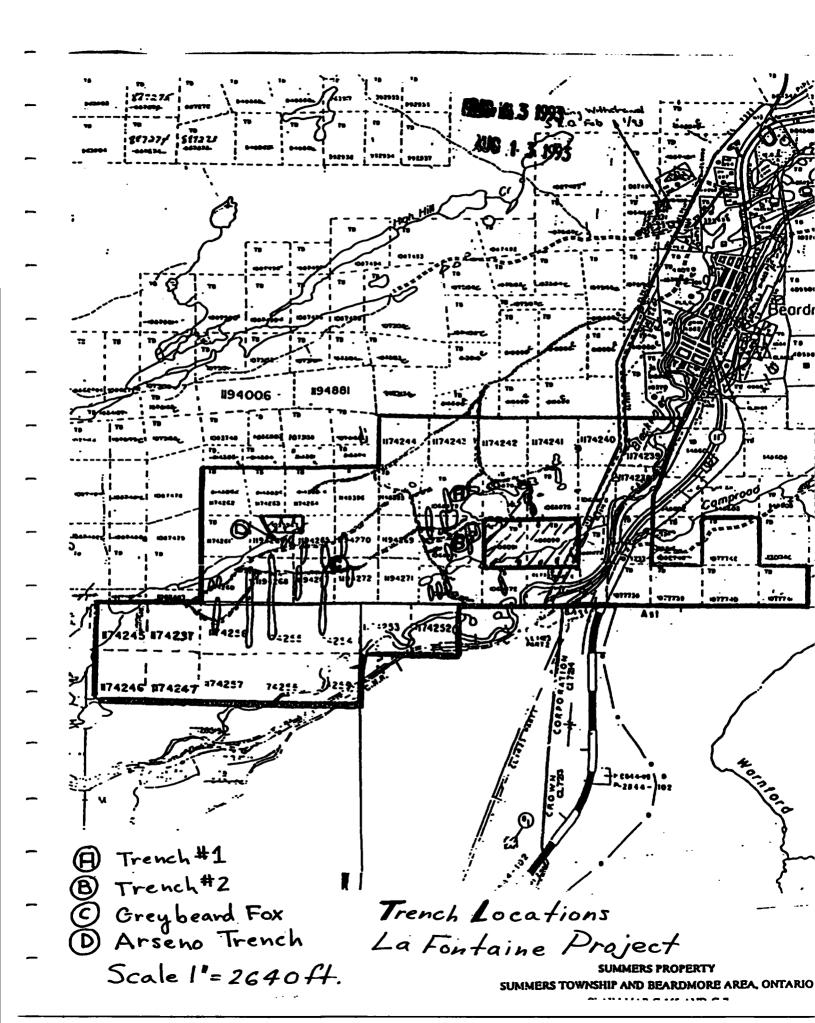
Gooddrilling results (ODM Report 5823) from the GreyBeard Fox zone completed in the 1930's are very hard to equate to our recent sampling program, regardless I feel no further work need to be completed on this zone.

Any future work on the property should be confined to the yet untested large airborne conductors. These zones might give the tonnage needed.

Submitted by Don Cross 10

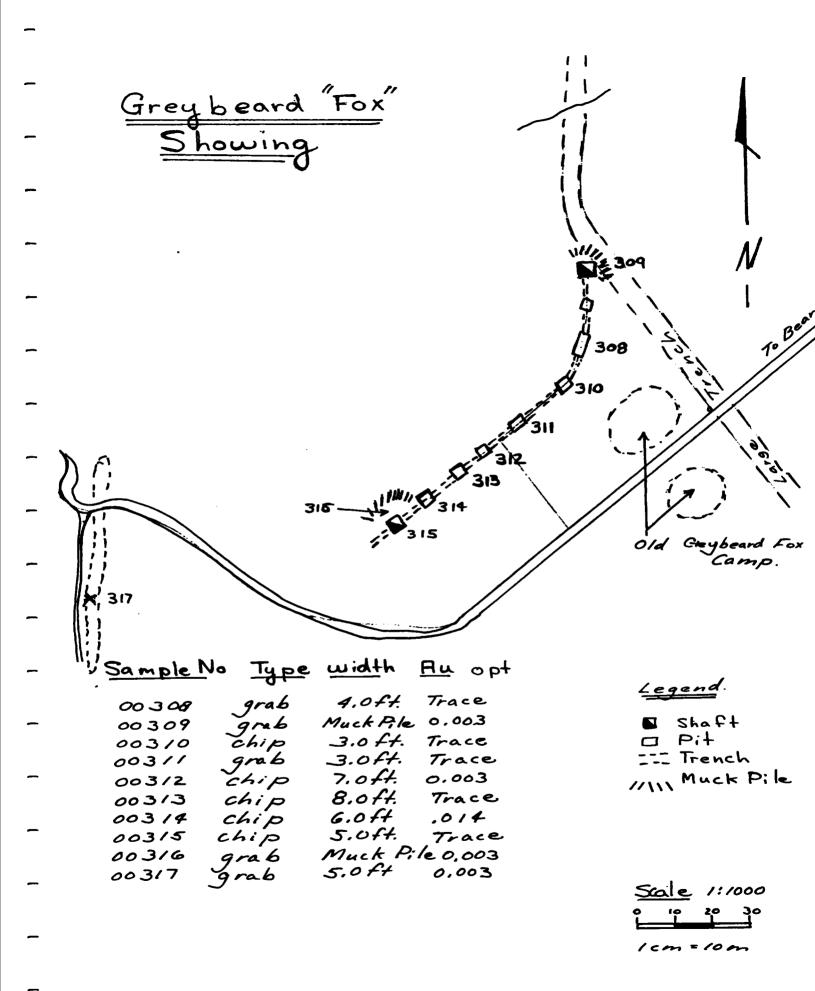




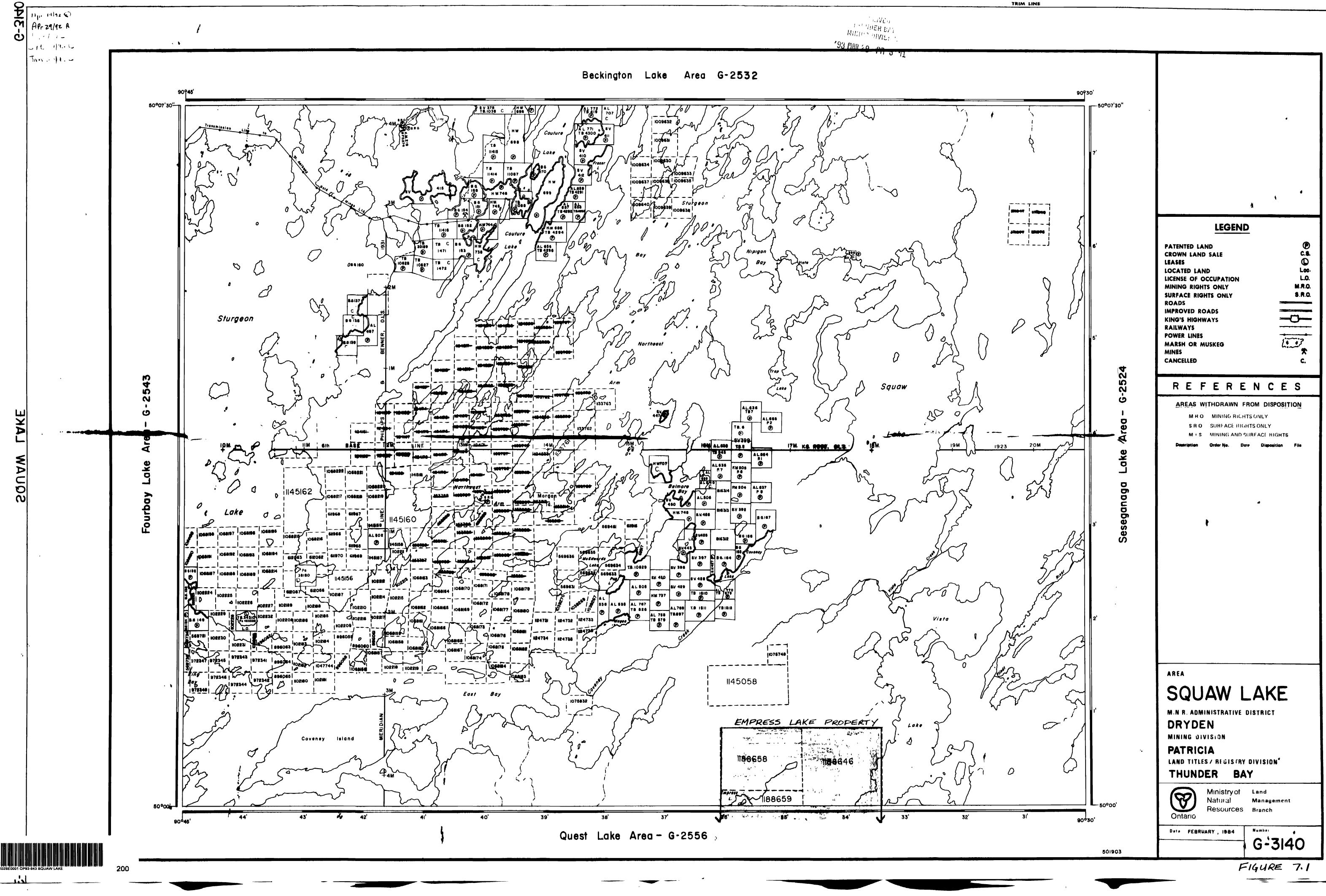


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_	Sample No. Type width Au (opt)	
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—	00302 chip 2.0 ft Trace	
-	00308 chip 2.0ft Trace 00304 chip 3.0ft 0.250	
	00305 chip 4.0ft 0.008	
-	00306 Chip 1.5++ 0.003	
	00307 chip 18.074 0.030	
-	Legend	-Scale
	Trench Trench	o /o Zo 30
-	Road	1 cm = 10 m.
	x Sample	10 m = 10 m.
~	180° strike-dip	

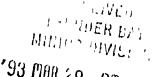
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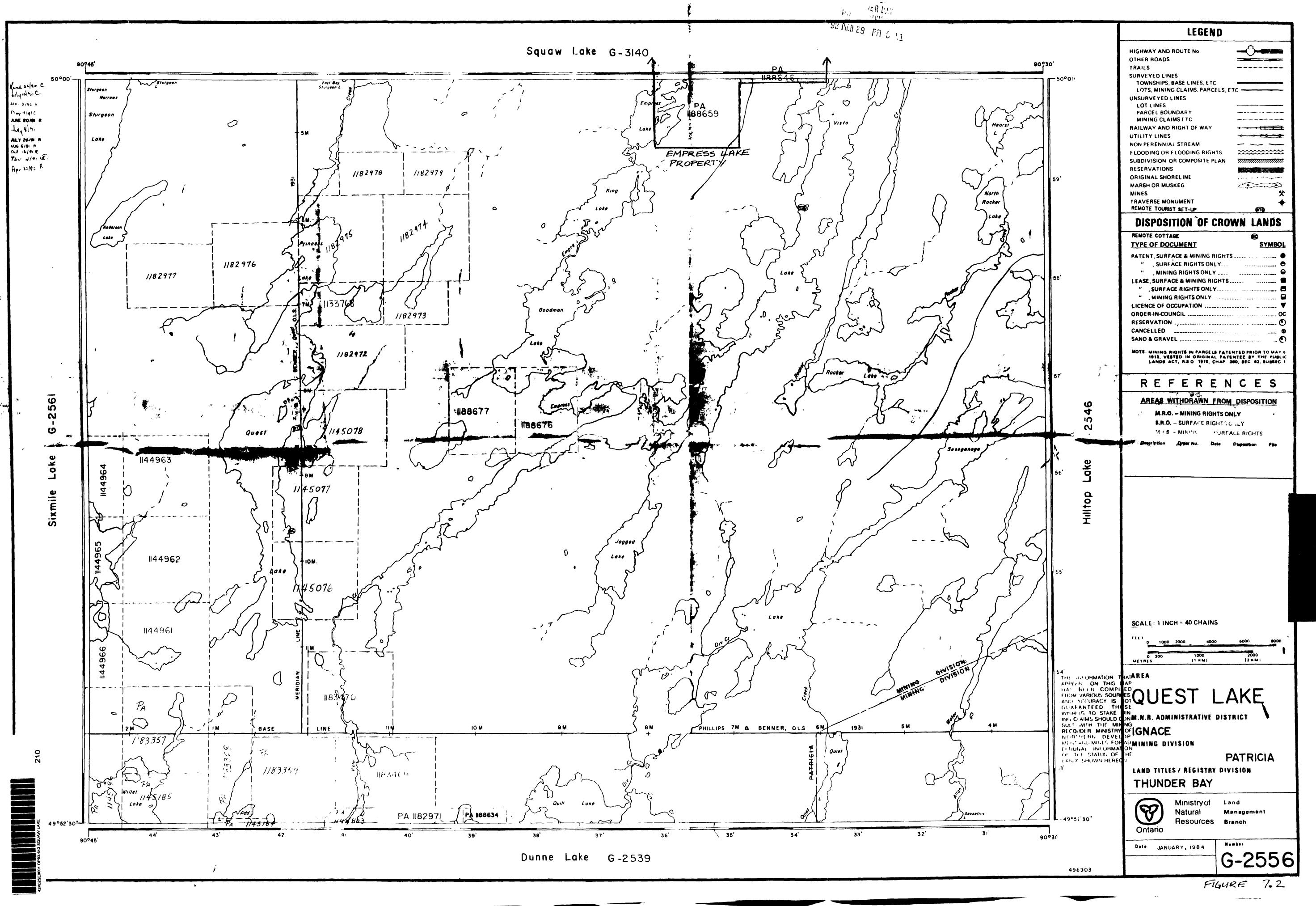
V/ NZ / lcanics tion) SY. (carb. alt Ж 321 ATE Rd to Beard more BIF otz veining Inetevolcanics 320 Sample Sketch Arseno Trench Area Sample No. Type Width Aulopt,) 8.0F+ chip D. 048 00318 chip 4.0 Ft 00319 Trace 00320 grab Dump Trace grab 00321 Gossan. Trace Legend. : Trench Shaft In Damp ->-> Creek = Road Scale BIF Banded Iron Formation lcm = 20m



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