



41P01SW0002 0012A1 DELHI

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Report on the

SHANNON CLAIM GROUP
(Claims 8-51647-55 inclusive)
(Claims 8-51977-85 inclusive)

Delhi Township, Sudbury Mining Division
Province of Ontario

by

L. R. Simard and F. C. Knight

Toronto, Ontario

November 24, 1950.

Report on the
SHANNON CLAIM GROUP
(Claims S-51847-88 inclusive)
(Claims S-51977-88 inclusive)

SUMMARY AND RECOMMENDATIONS

The property consists of a compact group of 18 claims adjoining to the south of the property of Delhi Temagami Gold Mines Limited in Delhi Township, Ontario. It is easily reached from Temagami by aircraft flying from Temagami to Obabika Lake, thence by a tractor road which crosses the northeastern part of the property. Lakeland Airways operates a satisfactory service for this purpose, based at Temagami on the Ontario Northland Railroad.

The group is of interest because of its location adjacent to, and geological similarity to the property of Delhi Temagami Gold Mines Limited on which work proceeding at the present time has outlined quartz veins in the Nipissing diabase carrying appreciable amounts of galena, gold and silver. Also, a very small amount of prospecting has revealed that quartz veins are present on the property some at least of which are sparsely mineralized with galena and chalcopyrite.

The Shannon Group is underlain by banded tuffs of Cobalt age, and Keewatin agglomerates and lavas, all intruded by a sill of Nipissing diabase. Geological mapping on the property did not indicate the full thickness of the diabase sill.

A feature which may be related to structural conditions consists of a zone some 700 feet wide trending from the southwest corner of Claim S-51984 to the northeast corner of Claim S-51851 for a known length of 3400 feet. In this zone there were observed no fewer than twenty quartz veins, steeply dipping and varying in width from four to twelve inches with the lateral extent at present unknown. Sulphide mineralisation consisting of pyrite, chalcopyrite and galena was noted in some of the veins.

It is considered that this zone merits further investigation by surface work and diamond drilling. This boring program might be carried out with an X-Ray type of machine; the purpose being to probe for the extension, both laterally and at depth, of the known veins; and secondly, to determine if such veins carry sulphide mineralization of commercial importance. A further program of vertical diamond drilling might later be carried out to investigate claims S-51648 and S-51654 for the easterly extension of both the diabase and the quartz bearing zone, beneath the overlying sedimentary formations.

SHANNON CLAIM GROUP

PROPERTY

The property consists of a compact group of 18 claims numbered S-51647-65 inclusive and S-51977-95 inclusive.

LOCATION

The claim group is located in the north central portion of Delhi Township, Ontario lying to the south of the property of Delhi Temagami Gold Mines Limited which it adjoins.

ACCESS

The property is accessible from Toronto by either motor road or by the Ontario Northland Railroad to Temagami, thence by Lakeland Airways' plane to either Wakimika or Obabika Lakes in Delhi Township. A good trail leads from the former, across the Delhi Temagami property to within one-half mile of the north boundary of the Shannon Claims; and a tractor road from Obabika Lake to the Delhi Temagami camps crosses claims S-51647 and S-51653 in the northeast corner of the group.

TOPOGRAPHY

The eastern and western portions of the claim group are generally high with large outcrops exposed to the northwest on claims S-51985, S-51984 and S-51652; and to the southeast on claims S-51649, 51655, 51978 and 51977. The central portion of the group occupies a low area in which the presence of beaver dams along the creeks has caused the flooding of a large acreage.

GEOLOGY

The property is underlain by bedded tuffs, agglomerates and lavas of Keewatin age, all intruded by a sill of Nipissing diabase.

The tuffs, where exposed, appear to be thin bedded and generally flat lying with dips ranging from 10° to rarely steeper than 30°. The

agglomerates and lavas are exposed on outcrops in the southeastern part of the property and appear as isolated masses within the tuff areas.

Hipissing diabase is exposed for a large area on claims S-51982, 51984, 51985, 51651 and 51652. This diabase generally appears in the area as a flat lying sill, conformable to the beds, but locally, may show cross cutting relations and tend to be more steeply dipping. Diamond drilling on the Delhi property to the north has indicated the sill to dip north at approximately 40° in the area of the vein system.

A study of hand specimens of the diabase strongly suggests a gradational change to coarse basic type granite in localized areas within the sill mass.

STRUCTURE

There appears to be a pattern of major faulting trending in a north-south direction in the area. This is indicated by the general topographical features of the area as a whole and by local features. On the claim group two such faults are assumed, based on a study of adjacent escarpments and relief but in no place was such actual faulting exposed on outcrops. These faults, as indicated on the accompanying geological plan, lie roughly, first, along the claim line between S-51985 and 51652 where it is thought to follow the creek bed for some distance; and second, along line 64 East where the feature has been outlined by a series of steep scarps and steep narrow gullies.

Secondary structures are indicated by a series of steeply dipping quartz filled fractures, individually trending N-60°-70°-E or almost due east. These lie on a zone some 700 feet wide trending from the southwest part of claim S-51984 to the northeast corner of S-51651. The zone appears to lie along the southern edge of the exposed diabase sill but a few of the individual quartz stringers have been observed passing into the overlying

sedimentary formations. The present known length of this zone across the property is 3400 feet.

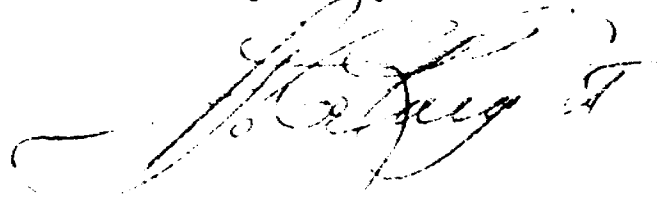
MINERALIZATION

Sulphide mineralization consisting of small amounts of pyrite, chalcopyrite and galena were observed in the quartz vein described under structures above. The veins individually vary in width from four inches to about one foot and although not yet traced for long distances on surface because of overburden, where exposed they appear quite strong.

WORK DONE

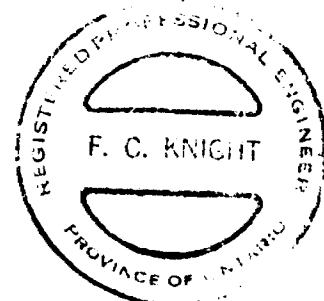
Work completed on the claim group to the present time consists of a small amount of prospecting and the establishment of a system of picket lines gridding the property to afford control for surveys and other later work, and a geological survey.

Respectfully submitted



F. C. Knight
for
L. R. Simard
Consulting Geologist.

Toronto, Ontario
November 24, 1960.



APPENDIX

SHAMON CLAIM GROUP

CONTRACT LINE CUTTING

Cutting Period - October 23 - November 12 inclusive
Total distance cut - 13.8 miles
Contractor A. Skreeky - Kearns, Ontario

Time Breakdown

<u>Man days</u> <u>Cutting</u>	<u>Hrs/day</u>	<u>Total</u> <u>Hours</u>	<u>Total Hours</u> <u>and Factor</u>	<u>Equivalent</u> <u>8 hr. days</u>	<u>Remarks</u>
55	10	550	2200	275	Cutting and Chaining

GEOLOGICAL MAPPING

Mapping Period - November 13 - 18 inclusive
Mapping Party - F. C. Knight - Toronto, Ontario
A. Skreeky - Kearns, Ontario
F. Potts - Bear Island, Ontario
G. Michao - Bear Island, Ontario

Time Breakdown

<u>Man days</u>	<u>Hrs/day</u>	<u>Total</u> <u>Hours</u>	<u>Total Hours</u> <u>and Factor</u>	<u>Equivalent 8 hr.</u> <u>day</u>
24	8	192	768	96

DRAUGHTING, MAPS, REPORTS, ETC.
(F.C. Knight, A. Skreeky)

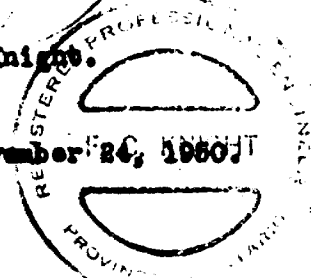
Time Breakdown

<u>Man days</u>	<u>Hrs/day</u>	<u>Total</u> <u>Hours</u>	<u>Total Hours</u> <u>and Factor</u>	<u>Equivalent 8 hr.</u> <u>day</u>
8	8	64	256	32

Toronto, Ontario

F. C. Knight
F. C. Knight

November 24, 1960



400' Surface Rights Reservation
around all Lakes and Rivers.

SHELBURNE

H.S. Shannon

Delhi Township

ACADIA

New Delhi Minn Ltd
(1956)

Delhi (Tongoni) Minn Ltd
(1947)

Wakumika

Shannon, H.S.
(1957)

New Nor 30

S63-97

S63-99

S63-101

S63-100

TRS 3165	TR 4090	TR 4091	TRS 8827
TR 4092	TR 4093	TRS 8828	
	TRS 3530	TRS 3829	

Lake

River

River

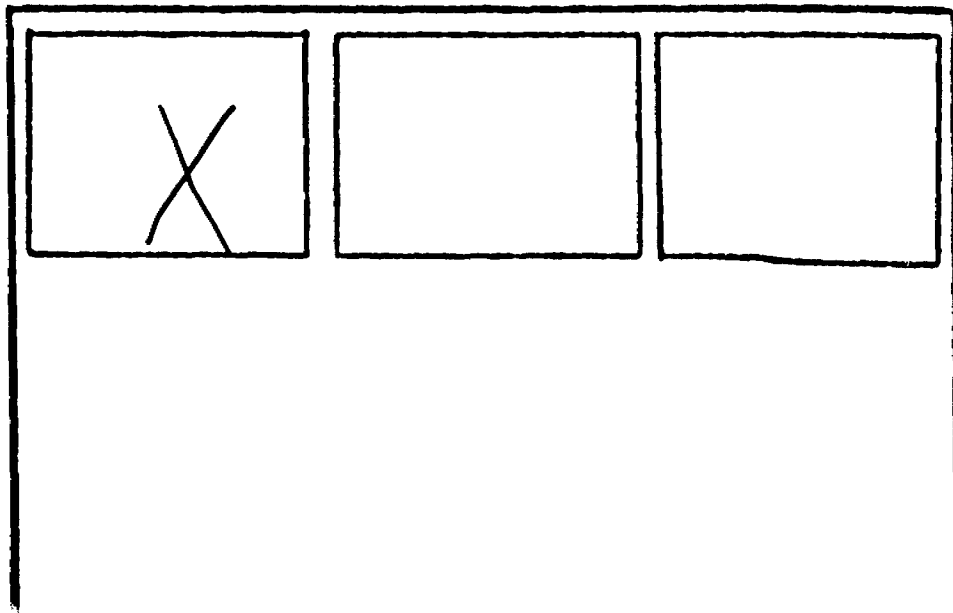
Oba

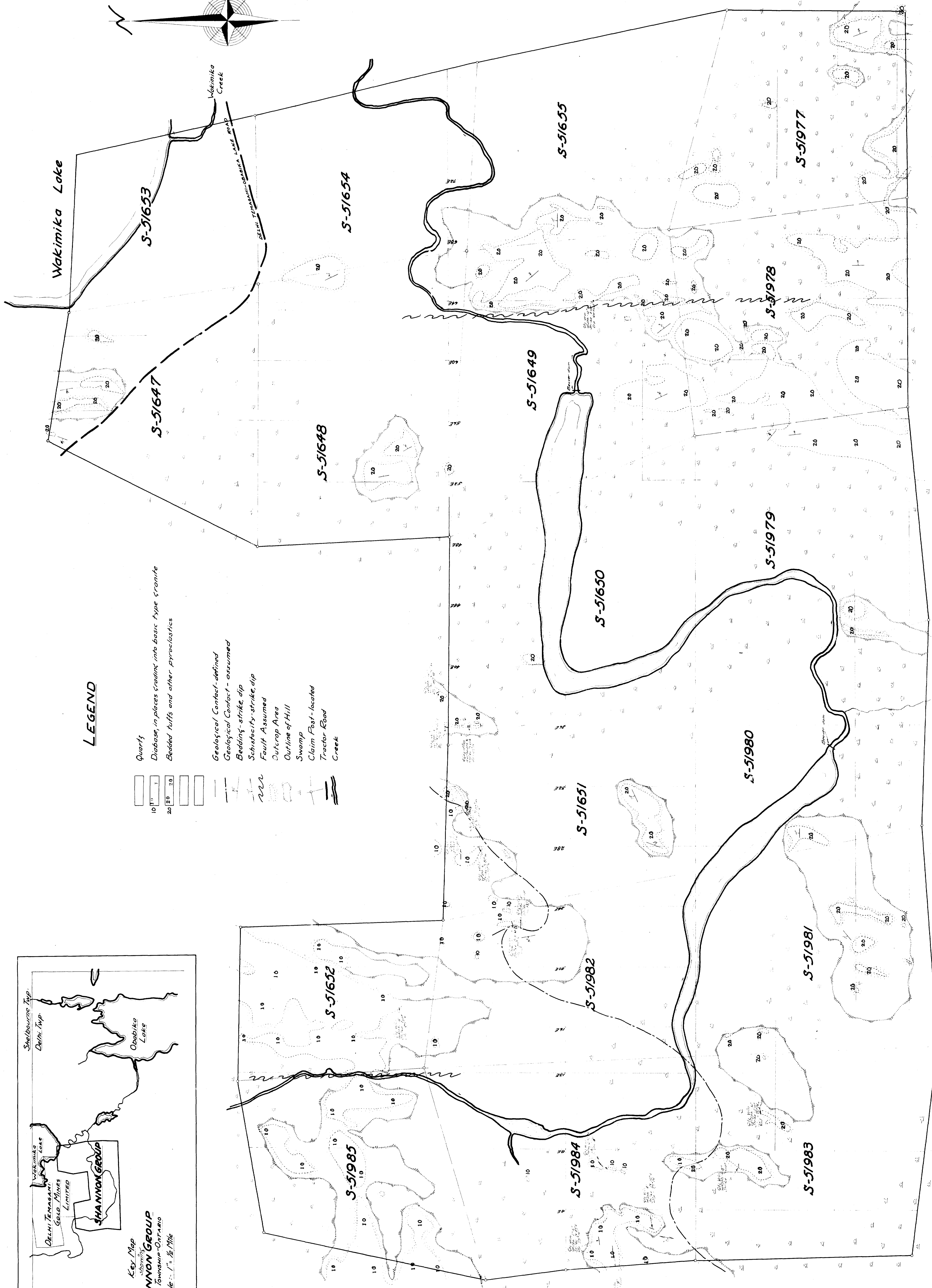
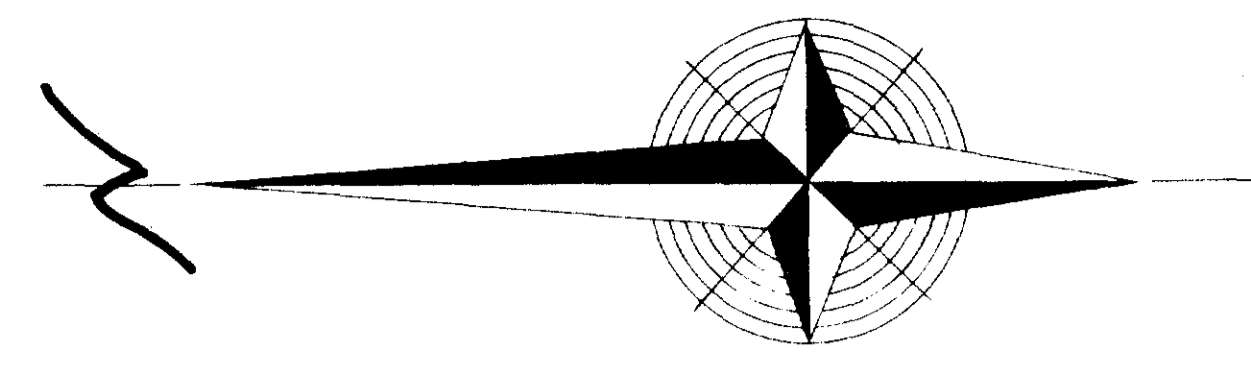
Obabuka

INI

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
DEWHT-0012-A1 #1

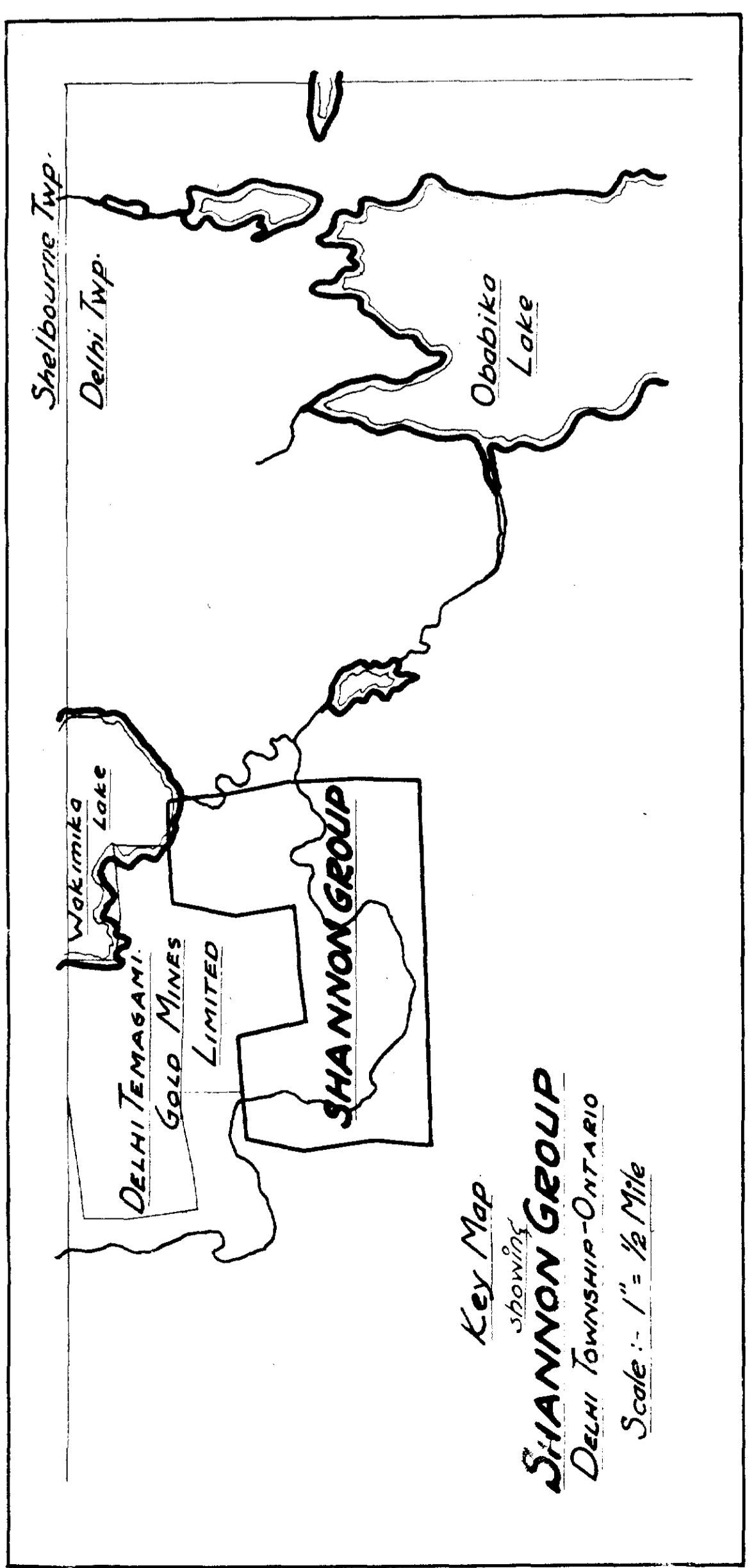
LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)





LEGEND

- Quartz
- Diabase, in places trending into basic type granite
- Bedded tuffs and other pyroclastics
- Geological Contact - defined
- Geological Contact - assumed
- Bedding - strike dip
- Schistosity - strike dip
- Fault Assumed
- Outcrop Area
- Outline of Hill
- Swamp
- Claim Post - located
- Tractor Road
- Creek



SHANNON GROUP
 DELHI TEMAGAMI - SUDBURY MINING DIVISION - ONTARIO
SURFACE and GEOLOGICAL PLAN

Scale - Feet

DELHI-0012-A1 #1