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Re Prospect Examination, Section 28, Shedden tp.

A copper prospect owned by Gene Solomon of Spanish, Ontario, was examined on September 11, 1970. About 4 hours were spent examining outcrops on the property and examining core from two EXT holes drilled recently.

The prospect is located in the NE $\frac{1}{4}$  of Section 28 of Shedden township, about 2 miles west of Spanish. It is accessible by road. For regional geology refer to ODM map P.318.

The cupriferous quartz veins occur at a contact between quartz-sericite-talc-biotite-garnet schists of the Spragge gp. and a meta-granophyre. They are about  $\frac{1}{2}$  mile east of a projection of the Cutler batholith and  $\frac{1}{3}$  mile south of the Murray fault. As shown on the attached sketch, lineaments which may be subsidiary fractures from the Murray fault, cross the property.

The contact between the quartzitic schists and the meta-granophyre appears to be conformable with a little drag folding. Bedding planes in the schist dip vertically to very steeply north and the schistosity dips vary from vertically to steeply south. Vein structures follow both the contact and the schistosity.

Vein widths, as indicated on the plan, range up to 2.5' with estimated grades as high as 8% copper, but the average is closer to 1% copper across 4". In general, the copper values are proportional to width, and inversely proportional to the distance from the sedimentary contact.

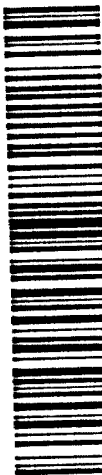
Veins occur both in the granophyre and at the contact. The veins in the granophyre are podiform, irregular, randomly

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SEP 11 1964

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oriented, slightly pegmatitic and barren of sulphides. Veins at the contact have sharper boundaries than those in the granophyre and are generally much richer in copper as well as more persistent. A few thin (less than 1") stringers of quartz are found in the quartzitic schists.

The most easterly vein exposed is of interest because it extends into the granophyre at an angle to the contact. At its west end it grades into a coarse pink felsic quartz-rich phase of the granophyre. Towards the contact it changes from barren quartz with up to 15% feldspar to a copper-bearing quartz vein.

Messrs. Solomon and McCormick were advised to explore the vein eastwards with a view towards establishing a greater width there. Because this area is beneath thick gravel overburden, this will necessarily involve geophysical prospecting and drilling. Lines at 200' intervals were suggested as control for a vertical loop e.m. survey.

#### ORE CONTROLS

- a) Contact between meta-granophyre and schists.
- b) Schistosity.
- c) Granophyre is apparent source of quartz veins.
- d) Subsidiary fractures from the Murray fault may be important. One of these parallels the east vein.
- e) Grade and vein width are proportional.

#### POTENTIAL

If the vein exposed at the east end of the prospect extends for 300' or 400' and becomes wider, there is a reasonable possibility of locating perhaps 10,000 tons of high-grade (5-10%) copper ore suitable for a small worker.

POSSIBILITIES:

If any of the lineaments noted above (ore control (d) ) can be traced northeast to an intersection with the Murray fault within the more brittle Spragge volcanics, then a possible Pater-type of situation might occur.

DRILL LOGS

DH#1 -90°

Located in pit and collared on vein.

Footage	Petrography	Est Cu.
0-2.5	Quartz vein. 10% py, 20% cp, 25% micaceous stringers. Sulphide minerals are coarse and fill fractures in quartz.	7% Cu. (est)
2.5-17.0	Biotite-rich metaquartzite at 2.5' grades to clean v.f.g. quartzite or meta-siltstone at 17.0'. C.A. less than 5°.	
17.0-21.7	L.C.	
21.7-22.3	Sericite schist. Fine to mg. and talcose. Low core angle.	
22.3-24.2	L.C.	
24.2-46.0	Sericite-quartz-talc schist. CA 15° to 25°. 40 to 80% m.g. to c.g. sericite, noticeable talc, 10% biotite. Lower contact gradational.	
46.0-51.5	Biotite-sericite-quartz schist. 4" quartz vein at 49.0' is barren. CA on schistosity is 20°.	
51.5-52.0	Red v.f.g. to f.g. quartzite. Possibly baked.	
52.0-52.5	Soapstone. Mainly talc.	

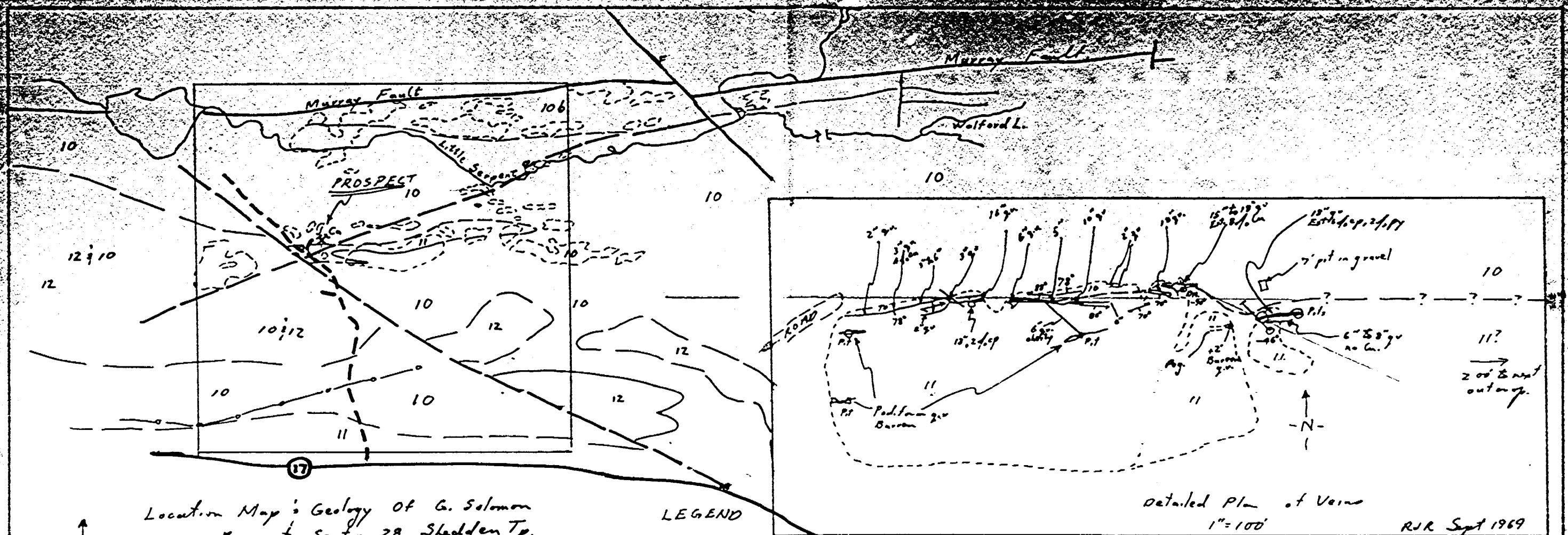
EOH

DH#2	Brg. 335° astronomic. Plunge -46°	
0-42	Mg. sheared granophyre or meta-granophyre. Amphibolitic with 15% quartz augen.	
4.2-5.6	Quartz vein. Pegmatitic. 15% pink m.g. feldspar and tr. cp.	
5.6-9.2	F.g. to m.g. sheared meta-granophyre as above. No sulphides.	
9.2-11.2	Quartz vein. 5% pink feldspar 3% py, 5% cp.	1.5% Cu (est)

DH#2, cont'd.

- 11.2-25.3 F.g. to m.g. meta-gabbro or meta-diabase. Schistose. C.A.  $45^{\circ}$  @ 13.0'. Becomes finer grained toward 25.2, although there are some m.g. sections about 6" long in the last 5'. Lower contact broken and ground.
- 25.3-36.0 F.g. grey quartzite with minor biotite. C.A.  $50^{\circ}$  to  $55^{\circ}$  on banding and schist.
- 36.0-64.5 Sericite-talc-biotite schist. C.A.  $50^{\circ}$ .

EOH



Location Map's Geology of G. Solomon  
Copper Prospect, Section 28, Shalden Tp.  
Section Outline Shown.

Scale: 1" = 1/4 mile

Traced From Preliminary Map P. 318  
by J. A. Robertson.

Traced By R. J. Rupert.

LEGEND

- Fault
- Linear
- 12 - Cutler batholith.
- 11 - Metadiabase & Metagranophyre
- 10 - Spragge Gp.  
quartzite schist.
- 106 - Spragge Gp. metaconglomerate.

Detailed Plan of Veins

1" = 100'

RJR Sept 1969

1" = 100'

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52.0-52.5 (SOAPSTONE)

DD #2 (DD #2)

335° - 46°  
(335° - 46°)

0-4.2 mg sheared granos  
0-4.2 phyre auger of qtz

4.2-5.6 q.v. - pegmatitic  
4.2-5.6 15% pink feldspar  
Tr cpi.

5.6-9.2 f-mg sheared meta-gphyx  
5.6-9.2 no sulphide

9.2-11.7 (qu 5 of red f. spn)  
(9.2-11.2) bot + (3% r)  
(5% p)

11.7-25.3 (A 43° @ 13.0  
11.2-25.3 meta gabbro

(BECOMES  
fg @ 20.0  
to 25.2  
There are some  
6' to 1'  
gradational  
in last 5')

25.3  
(25.3 Broken +)

25.3-36.0 fg  
qtz + minor  
DIST. CA 50°  
-55° on bedding

36.0-61.0  
CA 50°

FOR CLEARER DETAILS  
OF DD #2 SEE  
SAME INFORMATION IN RPT AT FRONT  
(BY REPORT)  
- THESE ARE POOR, ROUGH NOTES.

OC

Handwritten notes in the top left corner, including "100/100" and "100/100".

OC

Handwritten notes: "100/100", "100/100", "100/100".

Handwritten notes: "100/100", "100/100", "100/100".

Handwritten notes: "100/100", "100/100", "100/100".

Handwritten notes: "white bands", "100/100", "100/100".

Handwritten notes: "100/100", "Sample 2".

OC

gphy or gphy or meta...

Handwritten notes at the bottom center, including "gphy or gphy or meta..." and "100/100".

C



Deagle Twp (M. 750)

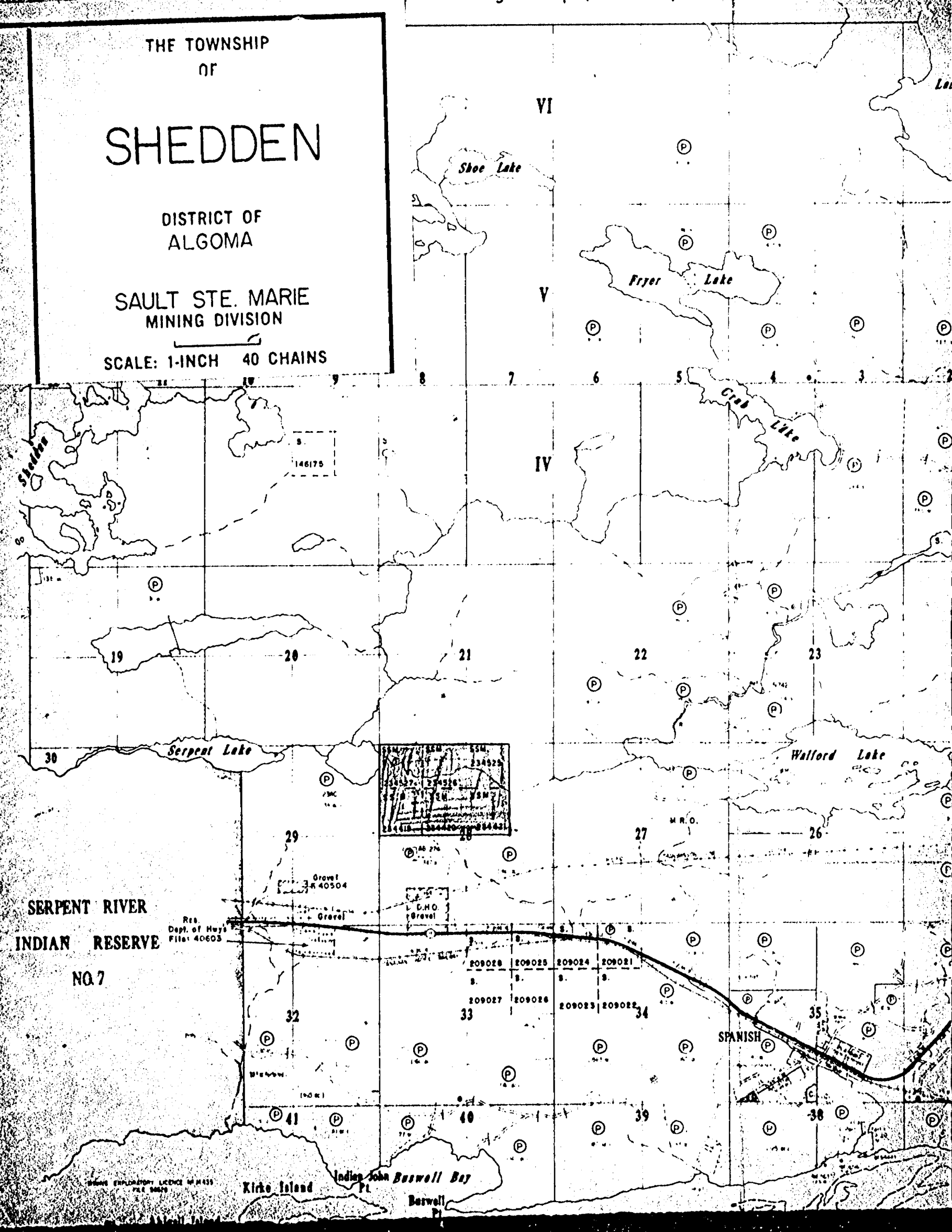
# THE TOWNSHIP OF SHEDDEN

DISTRICT OF  
ALGOMA

SAULT STE. MARIE  
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

Lewis Twp (M. 988)



SERPENT RIVER  
INDIAN RESERVE  
NO. 7

SPANISH

Kirke Island  
Indian John Buswell Bay  
Berwell Pt.

SAULT STE. MARIE MINING DIVISION  
FILE 40603



209028	209025	209024	209021
209027	209026	209023	209022