

63.3239

PROJECT PROPOSAL

SAS LAKE PROPERTY



31M05NE0089 63.3239 BUCKE

INTRODUCTION:

010

Geological and geophysical work to date indicate that diamond drilling is warranted, on several geophysical targets, to explore for base metal sulphide deposits and silver veins.

PROPERTY:

The Sas Lake property is situated in Bucke and Coleman townships, immediately west of the town of Cobalt. The claim boundaries and recorded numbers are shown in Figure 1.

GEOLOGY:

The basement rocks of the area, where exposed, are Archean felsic and intermediate volcanics, in a steeply-dipping homoclinal sequence which probably faces south. These rocks strike westward, under a hundred feet or more of flat-lying conglomerates and greywackes of the Proterozoic Gowganda Formation. On the basis of geophysical surveys, one old drill hole, and examination of the basal conglomerate, Archean felsic volcanics are interpreted to constitute most of the basement rocks of the property. Figure 2 summaries the geology of the area.

GEOLOGY continued

The exploration targets on the property are (1) base metal massive sulphide deposits in Archean felsic volcanics, and (2) Cobalt-type silver veins related to mineralized Archean interflow sediments.

GEOPHYSICS:

The following geophysical surveys have provided useful data: magnetics, vertical loop E.M., horizontal loop E.M., horizontal shootback (C.E.M.), induced polarization (I.P.) and Turam. The latter survey seems to substantiate several vertical loop conductors, with more accuracy, and in addition, reveals several new conductors of interest. Conductor C was known from vertical loop and shootback E.M. methods, but was more clearly defined by horizontal loop E.M. The geophysical anomalies are shown on the accompanying map. They may represent either massive sulphide bodies in the Archean rocks or fault zones with silver veins in the Gowganda Formation. Conductors A, B, E, G, J, and K have low priority, on the basis of geological interpretation.

RECOMMENDATIONS:

1. Geophysics: The Turam conductors should be confirmed and detailed by the horizontal loop E.M. method.

RECOMMENDATIONS continued

2. Drilling: A program of diamond drilling is recommended to test the following conductors: C, L, M, N, P and R.

The thickness of the Gowganda Formation is estimated at 100 to 300 feet over all these conductors, except C (where Archean rocks outcrop). This necessitates drilling to intersect the conductors at a depth of about 350 feet. The locations and lengths of the holes are proposed in Table 1. An estimate of expenses is given in Table 2.

SCHEDULE:

The horizontal loop survey should be completed by November 30. Drilling could begin early in December and completed after Christmas, or the entire job delayed until January. It is noted that access to holes SL-6 to SL-9 requires that the swamps be frozen; moreover, any follow-up drilling on conductor C would have to be done from the lake ice.

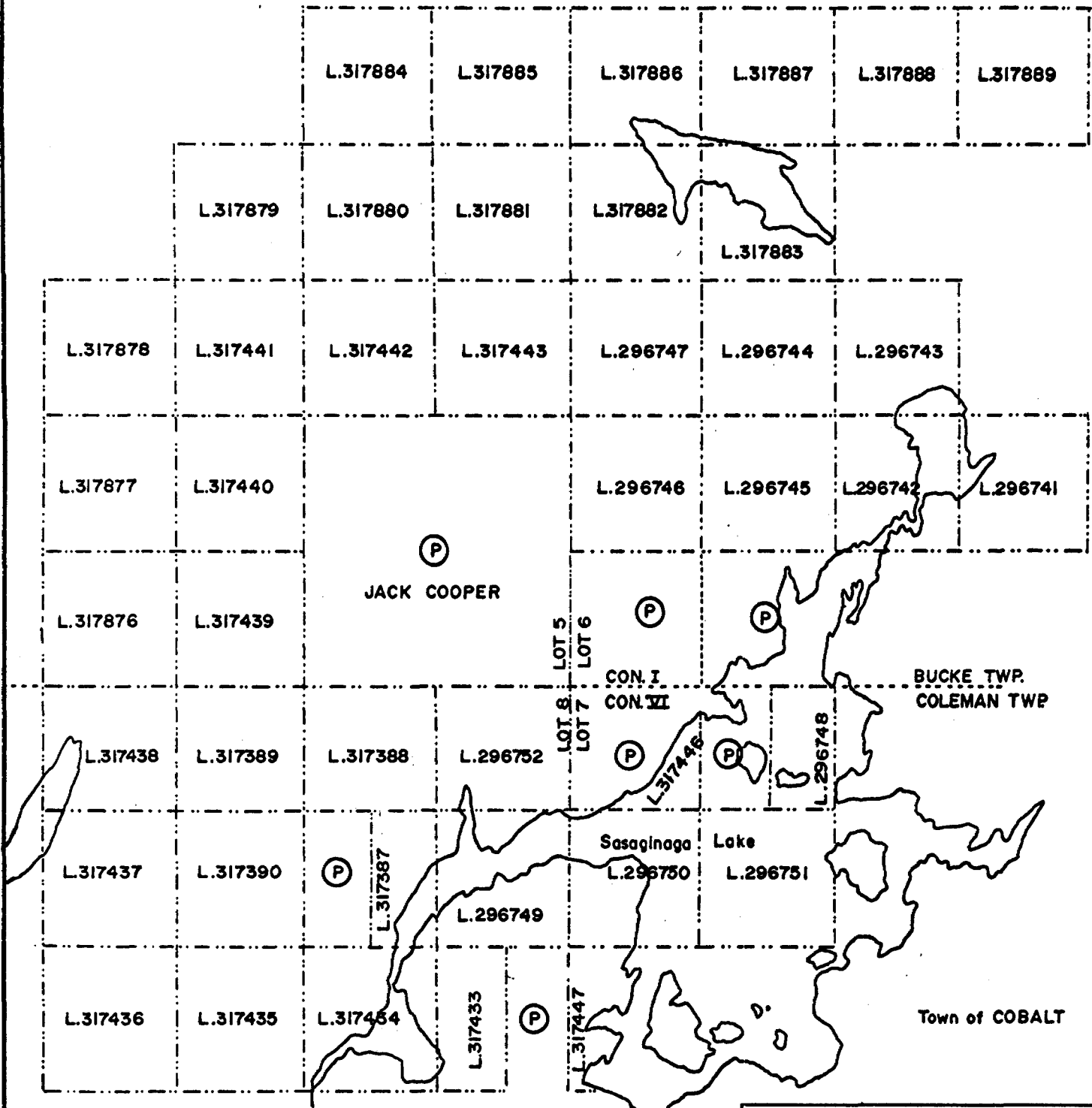
The entire program as recommended should be completed before March, 1973.

David F. Fisher
David F. Fisher, M.Sc.,
Geologist

TABLE 1: PROPOSED DRILL HOLES

Hole	Conductor	Location	Bearing	Dip	Length (ft)
SL-4	L	100+00W 8+10S	180°	-70°	450
SL-5	C	67+30W* 10+50S	320°	-50°	250
SL-6	M	73+00W 15+20N	0°	-70°	450
SL-7	N	64+00W 13+20N	0°	-70°	400
SL-8	P	43+00W 39+50N	0°	-70°	450
SL-9	R	43+00W 45+50N	0°	-70°	450
					<hr/> 2,450
Further tests if warranted (4 holes)					1,550
					<hr/> 4,000

* measured from Base Line 3



RECORDING DATES

L.296741- L.296747	June 4, 1971	L.317433- L.317438	June 29, 1971
L.317387- L.317390	June 4, 1971	L.317446- L.317447	June 29, 1971
L.296748- L.296752	June 9, 1971	L.317876- L.317889	July 23, 1971
L.317439- L.317443	June 21, 1971		

(P) Patented claim

ST. JOSEPH EXPLORATIONS LIMITED
TORONTO, CANADA

SAS LAKE CLAIM GROUP
FIGURE 1

SCALE: 1" = 1/4 mile

APPROX LAT & LONG OF
LOWER RT. COR OF DWG
47° 23' 32" LATITUDE
79° 41' 02" LONGITUDE

PROJECT NO	1120	SHEET NO	
		OF	
REPORT NO		NTS	31 M/E

FIGURE 2

SAS LAKE PROPERTY
(COBALT)

GEOLOGY 1" = 1/4 mile

