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LITHOSYSTEMS LIMITED EXPLORATION FOR NATURAL RESOURCES

REPORT ON:

SUMMARY OF 1982 FIELD SURVEYS
STURGEON LAKE PROJECT PROPERTY
(OUILLETTE GOLD PROSPECT)
AREA OF BECKINGTON LAKE
PATRICIA MINING DIVISION
ONTARIO

PREPARED FOR:

MID-NORTH ENGINEERING SERVICES LTD.

AND

CANDORE EXPLORATIONS LTD.

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TABLE OF CONTENTS

																				Page
1.	Introduc	ction			•		•	•	•	•	•	•	•	•	•	•	•	•	•	1
2.	Property	y desc	ript	ion			•	•	•	•	•	•		•	•	•	•		•	3
3.	Location	n and	Acce	288	•		•	•		•	•		•							4
4.	Geology															۰,				5
5.	Gold Min	nerali	zati	ion	. ,		•			•							•	•		7
6.	Sturgeon	n Lake	Pro	ojec	t I	Pro	pe:	rty	,											8
	6.1	Previ	ous.	Dev	elo	pm	ent	t												8
	6.2	Prope	rty	Exa	mir	nat	io	1												13
	6.3	Geoph	ysio	cal	Su	rve	ys													14
	6.3.1	Line	Grid	ı.									•							20
	6.3.2	Magne	tome	eter	Sı	urv	ey	•					•							20
	6.3.3	V.L.E	. E	м.	Su	rve	У		•										•	20
7.	Further	Explo	rat	ion					•						•					22
	7.1	Field	l Su	rvey	s		•					•	•							22
	7.2	Cost	Est	imat	e				•										•	23
8.	Summary													•			•			24
	Selecte	d Refe	eren	ces							•									2.6
	Certifi	cate .			•		•		•										•	27
Tables	:																			
Table	1 Sam	ples i	from	Stu	ırg	eon	L	ake	3]	Pro	oje	ect	: I	rc	pe	rt	y			15
Figure	<u>s</u> :																			
Figure	1. Oui	llette	e Mi	nes	cl.	aim	g	ro	цр	i	1	194	16.	•	•	•	•	•	•	10
Plates	: (in po	cket)																		
Plate	1 - Magn	etic :	Surv	ey -		ota sca							u							
Plate	2 - V.L.	F. E.1	M. S	urve		- i						-			ati	æ	. 1)Y)£i	les

STURGEON LAKE PROJECT PROPERTY (OUILLETTE GOLD PROSPECT) AREA OF BECKINGTON LAKE PATRICIA MINING DIVISION ONTARIO

1. <u>Introduction</u>

In recent years exploration for gold in Archean greenstone belts in the Superior Province of the Canadian Shield has tended to focus on the discovery and evaluation of stratabound or stratiform gold-sulphide deposits. As opposed to relatively small but high grade vein systems which were the principal targets in the past, stratabound deposits present large, uniform, relatively low grade situations which are amenable to extraction by modern mining methods. The first important discovery of this class was the Detour Lake deposit found by Amoco Canada Petroleum Co. in 1974 in the Burntbush-Detour Lakes area, District of Cochrane, Ontario. The initial drilling program outlined a 10 million ton orebody with an average grade of 0.20 oz./ton of gold. The main mineralized zone consists of gold-bearing sulphidized intermediate and cherty tuffs lying between a basalt flow sequence and a horizon of ultramafic rocks. A more recent discovery of an apparently related kind of mineralization has been made in the Hemlo area near Marathon, Ontario. At the Goliath deposit surface drilling has outlined 2.5 million tons grading 0.249 oz./ ton gold (Northern Miner, Oct.23, 1982). The host rocks are reported to be a highly altered, sulphide-bearing tuff unit. In western Ontario exploration is also underway on gold mineralization of possible economic dimensions in tuffaceous metasediments and related rocks in the Shebandowan area and elsewhere. It is evident that stratabound or stratiform bodies of gold mineralization which have excellent economic potential are geographically widespread in the Archean volcanic complexes of the Superior Province and that the re-examination of many of the old gold camps in the light of new geological information may well prove to be rewarding.

In reviewing geological data on the former Ouillette gold prospect in the Sturgeon Lake area of western Ontario the attention of the writer

was drawn to evidence which points to large scale alteration and sulphidization effects within a succession of tuffaceous volcanic rocks with reported gold occurrences. The geological setting is one which is thought to be conducive to the development of stratabound gold mineralization. A brief examination of the property was carried out on behalf of Mid-North Engineering Services Ltd. of Toronto and the property was taken under option.

The purpose of this report is to summarize field investigations and surveys carried out during the 1982 field season and to recommend additional exploratory work.

2. Property description

The Sturgeon Lake Project property consists of a roughly rectangular block of 23 contiguous, unpatented mining claims in the Area of Peckington Lake, Patricia Mining Division, Ontario as follows:

PA 611973 to 611990 inclusive (18) recorded Aug.6/82
PA 611993 to 611997 " (5) " "
Total (23)

The claim group is situated about 6 miles (10 km) southeast of the settlement of Savant Lake on the Canadian National Railway. Under an agreement dated November 18, 1982 the owner, Silver Pack Resources Ltd. of Toronto, optioned the property to Candore Explorations Ltd., a Toronto Corporation. The property is held in trust for Candore by Mid-North Engineering Services Ltd.

3. Location, access, etc.

Access from the settlement of Savant Lake is gained by travelling south on Highway 599 and then proceeding easterly on the Beckington Lake road for about 64 miles (10 km.) to a creek flowing southerly into Sturgeon Lake. From this point a flagged line on the west bank of the creek follows an old winter road south and then southwest for a distance of about 14 miles (2.5 km.) to the Main Shaft on the property.

Glaciated bedrock in the area of the property has a ridge-and-swale topography which follows the regional structural grain. Low lying parts are covered by glacial overburden, swamp or small lakes but numerous ridges afford exposures of bedrock which are thickly encrusted with moss or lichens. There is a dense cover of mature coniferous forest over the entire region.

4. Geology

The Savant Lake-Crow Lake metavolcanic-metasedimentary belt is the most extensive terrain of Archean supracrustal rocks in the western part of the Wabigoon Subprovince of the Superior Province in western Ontario (6)*. It extends from the vicinity of Lake of the Woods northeasterly to Savant Lake - a distance of about 180 miles (300 km). In form it consists of a series of arcuate, interconnected greenstone belts which are surrounded by granitic batholiths or gneissic rock complexes.

The Sturgeon Lake Project property is located within a northerly striking band of metavolcanics which lies between the Lewis Lake-Robinson Lake batholiths to the west and the Jutten batholith to the east. The area has been mapped on a scale of 1 inch to 4 mile by the Ontario Geological Survey (5). The metavolcanic belt, originally called the Handy Lake Volcanics, comprises an easterly-facing and steeply dipping succession which has been subdivided into seven informal formational units designed C to I in ascending stratigraphic order. Only units C, D and E are of interest here. Formation C, which is at the base of the succession, consists of mafic to intermediate volcanics comprised of massive, pillowed and porphyritic flows with thin interflow tuff beds. These rocks are highmagnesium tholeiites. The overlying unit, Formation D, is much more heterogeneous in nature and of contrasting petrochemical character being calc-alkalic in affinity with compositions ranging from basalt to rhyolite. It is a complexly interbedded accumulation of felsic to intermediate flows, pyroclastics and volcanogenic sediments along with subvolcanic intrusive bodies. Zones of sulphidization, some of which may be sulphide-facies iron formation, appear locally.

Formation D is overlain by Formation E which consists of a sequence of intermediate flows and pyroclastics with lesser amounts of mafic flows and tuffs.

The Sturgeon Lake Project property straddles the boundary between Formations C and D which are evidently the most favourable volcanic units for gold mineralization (see section 5 below). On and in the immediate

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^{*()} numbers in brackets designate selected references.

vicinity of the property the dips of primary foliation are steeply east to nearly vertical. Regional metamorphism is of greenschist grade.

The property lies on what appears to be the axis of a local cross-fold which affects units C and D both on the property and for a distance of about 2½ miles (4 km.) to the north where the fold nose is well defined by geological mapping (5, map 2431). The existence of this structure is also supported by aeromagnetic map data (3). The fold axis strikes nearly north-south at a shallow oblique angle to the regional structural trend which changes from north-south to west of north as it is deflected around the fold nose.

The volcanic stratigraphy in the area of the fold, especially in Formation D, is extremely complicated and suggests that the fold developed around a local volcanic centre invaded by lens and wedge-shaped gabbro intrusives (5, map 2431). The impression of an isolated eruptive centre here is further strengthened by the presence of a cluster of geoph sical conductivity anomalies within the core of the fold, particularly on and near the Sturgeon Lake Project property (4). Some of these conductors are attributable to zones of sulphide mineralization which may be of volcanic-exhalative origin.

Fault systems are the only late structures which affect the Archean metasedimentary and metavolcanic rocks. Three general strike directions can be recognized: east-northeasterly to northeasterly, northwesterly and north-south.

5. Gold mineralization

The Sturgeon Lake metavolcanic belt is best known for its zinclead-copper-silver massive sulphide deposits, namely the Mattabi and Boundary Mines as well as the Lynx Lake and Creek deposits. However, during the first decade of this century the Sturgeon Lake area was the scene of intense exploration for gold. The first gold discovery was made in 1898 and about fifty additional finds rapidly followed, few of which ever went beyond the prospect stage. The St. Anthony Mine on the shore of the North Arm of Sturgeon Lake was an exception. Discovered in 1900 the main zone was up to 1100 ft. (340 m.) in length and reached a maximum of 25 ft. (7.6 m.) in width. Total production was reported to be 330,000 tons grading 0.19 oz./ton. Gold-bearing quartz veins occurred in sheared, altered porphyry peripheral to the St. Anthony stock, a small granodioite intrusive emplaced in Formation C at the base of the Handy Lake Volcanics. In general gold showings and prospects in the area appear to be restricted to Formations C and D of the Handy Lake volcanic sequence. At least seven such occurrences including the well documented Dawson-White and Richelieu prospects as well as the St. Anthony Mine appear within a six mile radius of the Sturgeon Lake Project property indicating that this sector of the volcanics is favourable to the development of significant gold mineralization.

A second period of gold exploration took place in the Sturgeon Lake area during the 1930's when the St. Anthony Mine achieved its main production.

6. Sturgeon Lake Project Property (Ouillette gold prospect)

6.1 Previous development

Nothing is known of the early history of the property but " a large number of prospects in the vicinity of Ouillette Lake" were mentioned by E.S. Moore in 1911 (2). Later development in the 1930's and 1940's is known only in a rather sketchy way from a report by T.L. Gledhill (5, p.51), as well as from various press releases to the Northern Miner (8) and from what little of the previous operator's records are on file at the Resident Geologist's office in Sioux Lookout. This data suffers from a lack of precision in locating occurrences of gold mineralization on the property and so must be regarded with considerable reservation. Nevertheless the amount of surface and underground development work that was carried out strongly suggests that at least some encouraging assay results were in fact obtained.

In the period from 1934 to 1937 (?) the property was explored by Supreme Gold Mines and the trenching and shaft sinking apparently date from this period. Extensive and numerous bedrock pits and trenches opened a series of eight or nine parallel "vein" zones which strike north-south and which extend across the entire width of the original property (see fig.1). Some of these zones show a remarkable persistance along strike, the longest being in the order of 3000 ft. (900 m.). It is not known with certainty what the original designations of all of these zones may have been. The Stewart and Contact veins, both of which were explored by shallow prospect shafts, are situated in the west-central part of the present property. The Triplex vein system apparently is the one just east of Thomas Lake and so it mostly lies beyond the limits of the present property as does the #7 zone (and "new vein"?) which is to the east of the present property boundary. The 1, 2 and 4 zones are probably exposed in those groups of trenches which are situated around and to the south of the Main Shaft just east of the tip of Mine Lake.

The Stewart and Contact veins were reported to have given assays of 0.53 oz./5 ft. and 0.39 oz./3 ft. respectively (7). Porphyry on the west side of the Contact vein was said to be mineralized over a width of

Figure 1 (overpage) - Ouillette Mines claim group in 1946 showing location of development work carried out in the 1930's. The present property boundary is approximated by a double-dashed line (1).

PAGE 9 OF 27

PAGE 10 OF 27

200 ft. (60 m.) and along a strike length of 3000 ft. (900 m.) but gold values were not cited. A number of significant gold assays were also reported from unspecified localities in the trenches elsewhere but the data is too vague to be quoted here. Of particular interest is the mention of a "centre zone" consisting of a silicified shear some 80 ft. (24 m.) wide which supposedly give an average value of 0.177 oz./ton when sampled at 10 ft. intervals.

The Main Shaft is a vertical, two compartment shaft sunk to a depth of 157 ft. (48 m.). Cross-cutting on the 125 ft. (30 m.) level intersected a vein 37 ft. (11 m.) east of the shaft and this vein was followed by drifting to the north and south. The vein maintained a 4 ft. (1.2 m.) width for 30 ft. (9 m.) north of the crosscut but narrowed rapidly to the south. Extension of the drifting to the southeast again encountered the vein (or a parallel one) of comparable width. The vein material was said to be massive quartz with ribbon texture mineralized with sulphides and tourmaline. Other vein minerals included native gold, ankerite, chalcopyrite and pyrite. Gold values were localized near sheared vein contacts. No assays from the underground workings are available and no production was realized.

In 1945 Ouillette Mines Ltd. obtained the claims from the then inactive Supreme Gold Mines. Four diamond drill holes were put down in 1947 on what was thought to be a mineralized zone about 3000 ft. (900 m.) in length and passing north-southerly through the Main Shaft. Drill hole No.4 about 1200 ft. north of Mine Lake intersected mineralized zones with narrow, very low (< 0.10 oz./ton) to trace gold values; no information is available on the other drilling. Apparently no further work was done and Ouillette Mines surrendered its charter in 1958.

The area remained dormant until 1969 when Selco Exploration Co. Ltd. and others carried out magnetometer and conductivity surveys on and around the present property.* In 1970 Selco drilled 5 shallow holes, 242 D-1 to -5, with a total length of 772.5 ft. (235 m.) to test various conductive zones in the search for base metal deposits following the Sturgeon Lake

^{*} Ont. Geol. Survey Assessment Files: 2;573, 2.626, 2.764 and 2.18
Area of Beckington Lake.

discoveries.** The exact locations of these holes has not yet been established but all appear to have been situated within the eastern part of the present property. The holes intersected a complicated assemblage of mafic volcanics, diorite, intermediate to felsic tuffs and wide silicified zones with pyrite and pyrrhotite mineralization belonging to Formation D. The results of this drilling are highly significant with regard to the presence of favourable host rocks for gold mineralization on the property. All of the holes except D-5 intersected considerable widths of intense alteration, quartz veining and/or sulphide mineralization in sheared intermediate to felsic volcanics. Drill holes D-1 and D-2 (on former PA 201062) appear to have intersected the sulphide-bearing conductive zone which extends southerly from the Main Shaft (see section 6.3.3 below). D-1 gave a continuous section of 53.6 (16.3 m.) of tuff and lapilli tuff mineralized with disseminated pyrite and pyrrhotite including a central zone of 18.9 ft. (5.8 m.) of grey quartz with minor pyrite and pyrrhotite. D-2 about 500 ft. (152 m.) to the north and on the same zone gave an intersection of 40.4 ft. (12.3 m.) of silicious tuff mineralized with 10% pyrite and a little pyrrhotite. D-3 (on former PA 201064) produced an intersection of 40.5 ft. (12.3 m.) of highly silicified tuff mineralized with pyrite and pyrrhotite. This hole was situated near the east boundary of the present proporty opposite the north end of Mine Lake and demonstrates the presence of more than one altered and sulphidized zone of substantial size. Apparently no gold assays were made on core from any of these holes.

It is the presence of these highly favourable lithologies over significant widths in the Selco drill holes along with the overall geological setting and past exploration history that prompted the writer to recommend an examination of the property.

^{**} Ont. Geol. Survey Assessment Files: drill reports no.13, 14 and 18.

Area of Beckington Lake.

6.2 Property examination

From October 23 to 26 of this year the writer carried out an examination of the former Ouillette gold prospect on behalf of Mid-North Engineering Services Ltd. Mr. D. Pearl and Mr. E.M. Hall of Toronto provided very able assistance in the field at this time. General geological observations were made on and in the vicinity of the property and these showed that extensive alteration in the form of silicification, sulphidization and carbonatization commonly affect the intermediate to felsic volcanic rocks and to a lesser extent, the mafic varieties and metagabbros as well. Shearing is best developed in the felsic volcanics and varies from moderate to intense. It tends to be north-southerly in orientation and with a nearly vertical to steep easterly dip suggesting an origin in the cleavage fan of the local cross-fold structure.

Much of the time in the field was spent in locating and sampling the old pits and trenches, many of which are partly filled in and afford such poor bedrock exposure that samples taken were often far from representative. Only a few of the literally dozens of these excavations were examined and emphasis was placed on the Stewart and Contact zones on the west side of the property as well as on the zone extending south from the Main Shaft. Both locations seem to be broadly similar in character as sulphide mineralization occurs in sheared, altered felsic volcanics, porphyries and greenschists close to the contact with massive gabbros in both cases, however, geological relationships are evidently quite complex and not easily resolved by cursory studies.

At the Stewart and Contact zones sparce, disseminated pyrite and lensy quartz veins occur in a sheared to massive pinkish to buff porphyry which may be a subvolcanic intrusive. Somewhat similar lithologies appear on the dumps at the Main Shaft and there are all gradations between massive porphyry and intensely altered varieties which are essentially quartz-sericite-pyrite rocks. These latter range from massive to schistose and pyrite, sometimes with pyrrhotite, is invariably present. Usually the more intensely sheared varieties have a higher sulphide content (up to 80%)

indicating that sulphide emplacement or redistribution is closely related to structural factors. Veins of white to sheared greyish quartz inhabit the sulphide zones and are, in part, of replacement origin.

From about 500 to 700 ft. (150-200 m.) south of the Main Shaft a series of three bedrock trenches discontinuously expose sheared, silicified and sulphidized felsic volcanics for 340 ft. (100 m.) across strike. The largest of these trenches cuts across a 75 ft. (23 m.) wide sulphide zone which probably is the "sulphide vein" mentioned in some of the old reports. Repeated bands of intense shearing and accompanying sulphidization can be seen across the width of the trenched interval. Original textures are largely obliterated by shear effects; some of the mineralized rocks are quite massive and possible are of intrusive origin but near the top of the section (to the east) good pyroclastic textures are preserved.

A total of 49 grab and chip samples with an average weight of

2.2 lb. each were taken during the property examination (see table 1).

All were submitted to Cochenour Fire Assay in Cochenour, Ontario for gold
and silver assays and a number of duplicate samples were analysed by

Technical Service Laboratories for gold using the atomic absorbtion
method. All of the samples returned trace to nil amounts of gold and the
results are consistent within the limitations of the two analytical methods
used. Of interest are the anomalously high silver values obtained in

25 (51%) of the samples; most occur in sulphide-rich examples. While
these initial assay returns are not particularly encouraging, it should be
pointed out that the sampling program was of a very preliminary nature and
included only a few of the total number of pits and trenches on the property.

6.3 Geophysical surveys

During the latter part of November and early December of this year a picket line grid was cut over the Sturgeon Lake Project property and magnetometer, radiometric and V.L.F. EM surveys were carried out. The contractor was Mr. E.M. Hall of Toronto.

PAGE 15 O

- 412

Auoz/t hgoz/t Sample No. Location Sample type/Lithology ppm. E82 - 401 Triplex Vein ? - 700' N. Mine Lake 0,28 0.04 grab - vn.qtz., 10% amph., trace 5% py. - 402 Stewart Shaft 16" chip - qtz. vn. at trace nil shaft collar - 403 trace nil grab - shr. qtz., amph. ribbons 2% py. - 404 grab - like 403, tr. sulph. trace 0.18 - 405 Contact Shaft 0.22 grab typ.porph., nil sulph. trace - 406 nil grab - typ.porph., tr.py. trace - 407 0.04 grab - like 405 0.14 trace - 408 0.20 0.01 grab - qtz. vn. in porph. trace - 409 traco 0.10 grab - like 408, tr.py. -410trace 0.12 grab - qtz. vn. in gns., tr. py. - 411 trench 1+15 N. Contact Shaft nil trace grab - gns. + qtz. vn.

0.30

trace

LITHOSYSTEMS LTD.

grab - like 411, tr. sulph.

TABLE 1 - Samples from Sturgeon Lake Project Property

TABLE 1 - Samples from Sturgeon Lake Project Property

Sample No.	Location	Au */t	Ag * Au ** oz/t ppm.	Sample type/Lithology
E82 - 413	pit 1+30 N, 6+15 E Stewart Shaft	trace	0.14	grab - qtz. vn. in gns.
- 414	pit 0+85 S, 0+75 E Stewart Shaft	trace	nil	grab - qtz. + gns.
- 415	et . H H	trace	nil	grab - gns. 10% py at vn. contact
- 416	pit 1+10 S, 2+65 E Stewart Shaft	trace	nil	grab - qtz., tr. sulph.
- 417	99 H H	trace	nil.	grab - qtz., amph.
- 418	11 10 41	trace	0.14	grab - porph.
- 437	pit 6+85 S, 2+65 E Stewart Shaft	trace	0.14 0.02	grab - silic. porph., tr. sulph.
- 419	Main Shaft dump	trace	nil	grab - qtz. carb vn.
- 420	60 80 60	trace	nil	grab - qtz., tr. sulph.
- 421	11 11 14	trace	0.24	grab - ser. sch., 20% py., 10% qtz.
- 422	41 11 11	trace	0.50 0.04	grab - silic. porph., 50% p

PAGE 17 OF 3

- 433

Auoz/t Agoz/t Sample No. Sample type/Lithology Location ppm. E82 - 423 Main Shaft dump 0.24 grab - qtz. - ser. sch., trace 20% py. 0.72 grab - silic. porph., - 424 0.02 0.14 75% py. - 425 grab - shr. porph., 5% py. 0.20 trace - 426 grab - silic. ser.sch., trace 0.30 20% py. grab - silic. felsic volc., - 427 nil trace tr. py. - 428 nil grab - qtz., tr.py. trace nil grab - alt volc. + qtz.-- 429 trace carb.vn. - 430 nil trace grab - qtz. - 431 0.01 nil 0.09 grab - qtz. - ser. sch., 25% py. - 432 nil grab - typ. gns., qtz.trace carb. vn.

0.64

trace

0.02

grab - py.

TABLE 1 - Samples from Sturgeon Lake Project Property

LITHOSYSTEMS LTD.

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Auoz/t Agoz/t Sample No. Location Sample type/Lithology ppm. E82 - 434 Main Shaft dump trace nil grab - qtz. tr. py. - 435 trace nil grab - qtz. - ser.sch., 20% py. - 436 pit E shore Mine Lake 1+25 N of Main Shaft nil grab - qtz. trace - 438 trench about 5+00 S of Main Shaft 0.90' chip - felsic sch., py. trace nil - 439 0.20 0.01 4.4' chip - shr. porpy., trace sulph. 0.5' chip - like 438 - 440 0.26 trace 0.04 0.14 2.4' chip - like 439 - 441 trace - 442 nil 10.3' chip - silic. porph., py. trace - 443 4.0' chip - qtz. -ser.-py. 0.10 0.10 trace 3.0' chip - silic. sch., py. - 444 0.14 trace 0.03 - 445 0.06 0.3' chip - qtz.vn. trace - 446 nil 5.9' chip - silic. sch., py. trace

TABLE 1 - Samples from Sturgeon Lake Project Property

LITHOSYSTEMS LTD.

TABLE 1 - Samples from Sturgeon Lake Project Property

Sam	mple 1	No.	I.c	catio	n	Au	ož/ _t	Agoz/t	Au ** ppm.	Sample type/Lithology
E82	2 - 44	47	trench a			tr	ace	nil		5.0' chip - qtz py ser.sch.
	- 44	48	**	••	**	tr	ace	0.08		5.0' chip - like 447
	- 44	19	11	19	u	tr	ace	nil		6.0' chip - like 447
Abbrevi	ation	ns								
alt.		alte	red		qtz.		quai	rtz	typ.	= typical
amph.	25	amph	ibole		sch.	=	schi	st	volc.	= volcanic
carb.	=	carbo	onate		ser.	-	seri	cite	vn.	<pre>= vein, veinlet</pre>
gns.	=	gree	nstone		shr.	=	shea	red		
porph.	=	porpl	hyry		silic.	-	sili	cified		
po.	=	pyrrl	hotite		sulph.	-	sulg	hides		
py.	•	pyri	te		tr.	=	trac	e		

- * Cochenour Fire Assay (fire assay method)
- ** Technical Service Laboratories (atomic absorbtion method)

6.3.1 Line Grid

The entire property was covered with a picket line grid having a true north-south base line and a line spacing of 100 metres. Stations along the lines were established at 50 m. intervals. The total length of the picket line grid including base and tie lines is 41.95 km.

6.3.2 Magnetometer survey

A total field magnetic survey was carried out using a Geometrics G816 proton magnetometer. Readings were taken at 10 m. intervals on each line. Data control during the survey was accomplished by running closed loop traverses through a network of control stations giving an estimated accuracy of + 25 gammas. After correction for diurnal effects readings were reduced by a factor of 59,000 gammas, plotted and contoured as shown in plate 1.

The total field map shows an intricate array of more or less well defined, northerly trending magnetic highs and troughs which reflect the lithostratigraphic order and structural grain of the metavolcanic succession. An analysis of the implications of the magnetic map data is best deferred until a detailed geological map of the property has been prepared.

6.3.3 V.L.F. E.M. Survey

A very low frequency (V.L.F.) electromagnetic survey was also made using a Ronka EM-16 instrument tuned to broadcast station NSS (Annapolis, 21.4 kz.). The operator faced northeasterly to obtain readings in all cases and these observations were taken on 20 m. spacings on all lines. Unfiltered profiles are presented in plate 2.

In all a total of 14 conductive zones can be recognized. The majority strike more or less north-south and are probably of structural-stratigraphic significance. Two well defined colinear zones near the west boundary of the property extend from 3+00 to 5+00 N between 9+00 and 10+00 W. These coincide with an elongated magnetic high and likely signify an horizon of sulphides near the top of Formation C.

Another conductor extends southerly from the Main Shaft between 2+00 and 5+00 S. It is certainly the electromagnetic expression of the sulphide zone described previously. Other north-south trending conductors have no obvious relationship to magnetic expression and are of uncertain origin at present. Relatively straight diagonally-directed conductive zones which strike either northeasterly or northwesterly are probably faults.

Additional geophysical data in the form of a radiometric survey was also obtained and will be reported on when geological mapping has been completed.

7. Further exploration

7.1 Field surveys

The next steps in the exploration of the Sturgeon Lake Project property should be to:

- (i) carry out horizontal loop electromagnetic (H.L.E.M.) surveys over the conductive zones which have been detected by the EM-16 survey,
- (ii) map the geology of the property on a scale of 1:2500, and,
- (iii) systematically sample the numerous pits and trenches on those parts of the mineralized zones which have not yet been investigated.

H.L.E.M. data over the known conductive zones will serve to sharpen the locations of the conductor axes and help to establish which of these are attributable to the presence of sulphide mineralization. A total of 25 km. of surveyed lines will be required. A coil spacing of 100 m. should be optimum for this purpose although coil separation may be varied if circumstances warrant.

Probably the most important information which could be obtained at this stage of the project would come from detailed geological mapping. This would help to resolve the overall structure and volcanic stratigraphy on the property and show how the various mineralized zones are related to these factors. Correlation of geological and geophysical information will also work in the same direction to produce a clearer picture of the overall geological environment and give a more meaningful basis from which to assess the potential for stratiform or stratibound gold mineralization in this part of the Archean volcanic complex.

Mapping will be slow due to the present of a thick layer of moss on all outcrop surfaces which will necessitate stripping as mapping progresses. The field geologist will require two helpers to prepare outcrops and to assist with sampling. Time requirements for this part of the work will be about 45 days.

Systematic sampling of the numerous pits and trenches on the property will serve to identify which mineralized zones may have significant gold values and whether or not a gold-sulphides relationship exists. Since the assumed target is stratiform or stratabound gold mineralization, gold values found in quartz veins are not of direct exploration significance but would serve only as an indicator of favourable stratigraphic horizons within the volcanic succession.

If the results of this stage of the project give sufficient encouragement a program of diamond drilling on geologically and geophysically defined targets can be planned.

7.2 Cost estimate

	The cost of the program described above is estimate	ed as follows:
(i)	H.L.E.M. survey; 25 km. @ \$125. per line km	\$ 3,125.00
(ii)	geological mapping, data analysis, reporting; 50 days @ \$350. per day	17,500.00
(iii)	board and lodging; 45 days at \$60 per day	2,700.00
(iv)	local labour; 2 men x 30 days x \$75	4,500.00
(v)	assaying; 200 samples x \$10	2,000.00
(vi)	transportation;	575.00
(vii)	misc. supplies, drafting, etc	1,000.00
	subtotal	\$ 31,400.00
	contingencies (11.5%)	3,600.00
	Total project cost	\$ 35,000.00

8. SUMMARY

- 1. The Sturgeon Lake Project property consists of a group of 23 contiguous, unpatented mining claims 6 miles (10 km.) southeast of the settlement of Savant Lake in the Patricia Mining Division of western Ontario. The property is favourably situated within a belt of Archean metavolcanic rocks known as the Handy Lake Volcanics. Numerous gold prospects and one past producer, the St. Anthony Mine, are located in the vicinity of the property. The present property covers the largest part of a former gold property developed in the 1930's and 1940's which is known as the Ouillette gold prospect. Previous development work consisted of a two compartment Main Shaft with limited drifting and crosscutting on the 125 ft. level, prospect shafts in two other areas called the Stewart and Contact zones, as well as numerous pits and trenches which expose a number of other north-south striking mineralized zones with reported gold values. No gold production has been obtained from the property. At present the property is owned by Silver Pack Resources Ltd. and is under option to Candore Explorations Ltd. of Toronto.
- 2. Geological research and a property examination by the writer have indicated a favourable situation for the development of stratiform or stratabound gold mineralization such as that discovered recently in the Hemlo area near Marathon, Ontario. Of particular interest are impressive widths of highly altered, silicified and sulphidized felsic pyroclastic rocks intersected in four shallow drill holes put down in 1970 by Selco Exploration. These give direct evidence of favourable host rocks for gold mineralization but no gold assays are available from the core. Gold values reported from quartz veins in the various mineralized zones on the property have not yet been substantiated by the limited amount of surface sampling which has been carried out.
- 3. Exploration work by Candore on the property to date includes the cutting of 41.95 km. of line grid as well as magnetometer, V.L.F. and radiometric surveys. The V.L.F. survey revealed the presence of 14 conductive zones.

4. It is recommended that the next phase of the project comprise horizontal loop E.M. surveys over the known conductors, detailed geological mapping and sampling of the numerous pits and trenches on the property.

The estimated cost of this work is \$35,000.00.

All of which is respectfully submitted by

LITHOSYSTEMS LTD.

B.A. Edmond, P. Eng. President

at Mississauga, Ontario.

SELECTED REFERENCES

- (1) Huycke, W.D., 1946, Surveyed Map Development to Date (Ouillette Mines); Ont. Geol. Surv. Assessment files.
- (2) Moore, E.S., 1911, The Sturgeon Lake Gold Field; Ont. Bureau Mines, vol.20, pt 1, p.133-157 + map 20 C.
- (3) Ont. Dept. Mines & Geol. Surv. Canada, 1961,
 Sturgeon Lake, Kenora and Thunder Bay
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 sheet 52 /2.
- (4) Palonen, P.A. & Speed, A.A., 1975, Backington Lake Area,
 District of Thunder Bay; Ont. Div. Mines
 Prelim. Map P.1035.
- (5) Trowell, N.F., 1981, Geology of the Beckington Lake Area,
 District of Thunder Bay' Ont. Geol. Surv.
 Report 200, 62 p + map 2431.
- (6) Trowell, N.F. et.al., 1980, Preliminary geological synthesis of the Savant Lake Crow Lake metavolcanic metasedimentary belt, northwestern Ontario and its hearing upon mineral exploration; Ont. Geol. Surv. Misc. Paper 89, 30 p.
- (7) von Hessert, C., 1982, Report to Silver Pack Resources on the Beckington Lake Gold Prospect, Patricia Mining Division, Ontario; private rept., 20 p.

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CERTIFICATE

- I, Brian A. Edmond, resident at 2445 Homelands Drive in the City of Mississauga, Province of Ontario DO CERTIFY THAT:
- I hold degrees of Bachelor of Applied Science in Mining Engineering (1960) and Master of Applied Science in Geology (1964) both degrees having been taken at the University of Toronto at Toronto, Ontario. Further I was Dana Fellow of Mineralogy at Yale University in New Haven, Connecticut, U.S.A. for the academic year 1964-65.
- 2. I have been a member in good standing of the Association of Professional Engineers of the Province of Ontario since 1961.
- I have continuously practiced my profession as an Economic Geologist in the exploration for base and precious metals, uranium, oil and gas principally in Canada and the United States since 1965.
- 4. I carried out an examination of the Sturgeon Lake Project property (Ouillette gold prospect) and related engineering work as described in this report.

Dated at Mississauga, Ontario, this 28th day of December, 1982.

B.A. Edmond, P.Eng.



2J02NE0043 52J02NE0050 BECKINGTON LAKE

Magnetometer, V.L.F.

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File



Type of Survey(s)_

Ministry of Natural Resources

GEOPHYSICAL - GEOLOGICAL - GEOGHEMICAL TECHNICAL DATA STATEMENT

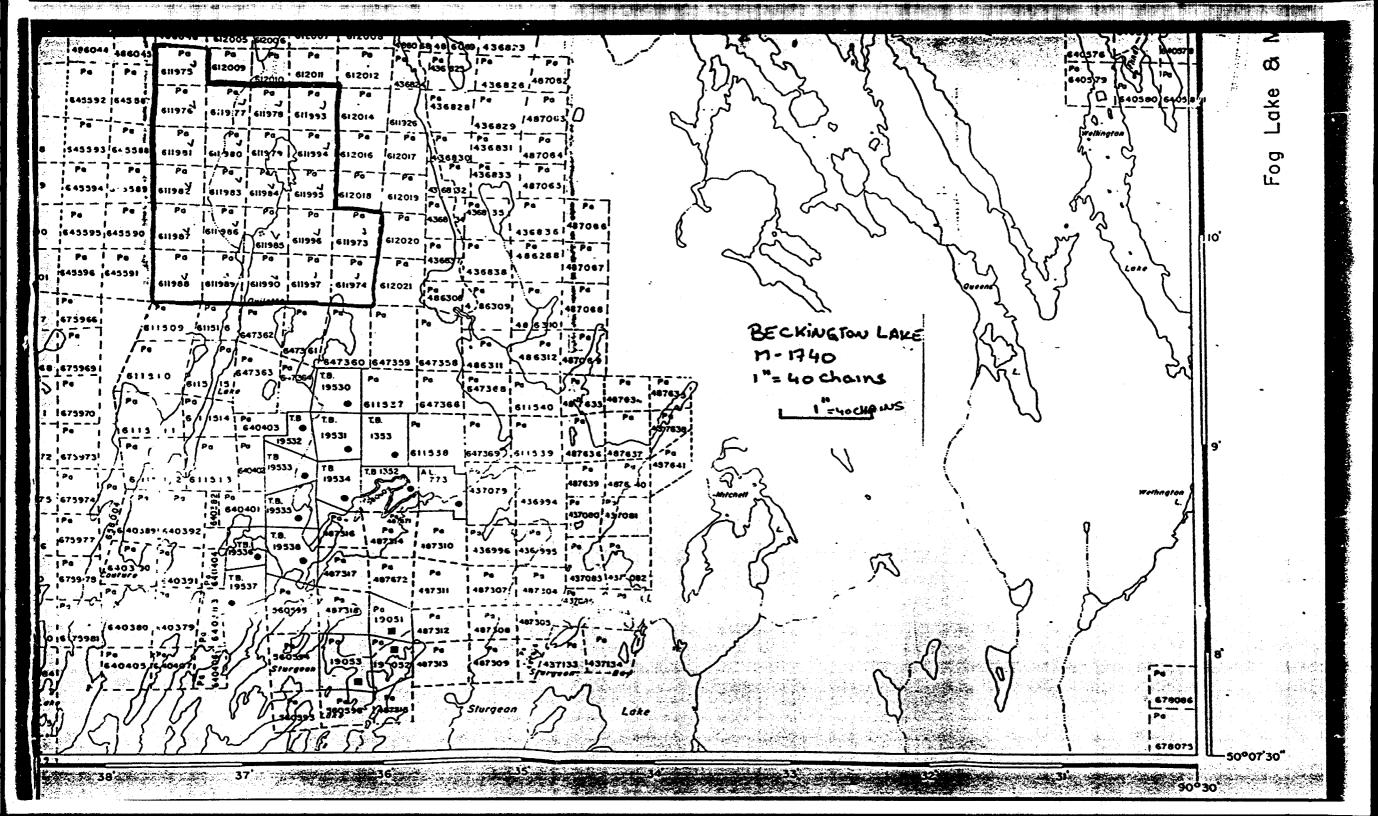
TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATIO", CONCLUSIONS ETC.

Township or Area Of Beckington Lake M1740 Mid-North Engineering Sorvings Ltd MINING CLAIMS TRAVERSED								
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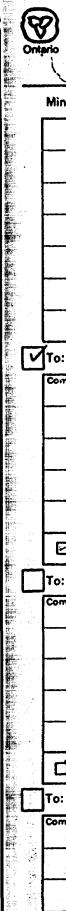
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Brian Asm. Edmond, P. Eng. 2445 Homelands Dr. Un. 21,	1
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April 29, 1983	

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Ministry of Natural Resources

Geotechnical Report **Approval**

June 28/83

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Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2TO

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic & Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims (611973 et al in the Area of Beckington Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

A. Barr:sc

cc: Mid-North Engineering Services Ltd
Toronto, Ontario

cc: Mr. Brian A. Edmond Mississauga, Ontario

SEE ACCOMPANYING MAP(S) IDENTIFIED AS

525/02NE-0050 # 1-2

LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE

(X)

