



42L06NE0018 2.6868 0'SULLIVAN LAKE

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PRELIMINARY REPORT
ON THE
O'SULLIVAN LAKE AREA ONTARIO
PROPERTY
OF
SYNGOLD EXPLORATION INC.

November 1983

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MINING LANDS SECTION
J.B. Hinzer



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Summary

Syngold Exploration Inc. carried out a reconnaissance geological mapping program on its 111 claim gold property located at O'Sullivan Lake, approximately 170 miles northeast of Thunder Bay, Ontario, during August and September, 1983. The objective of this work was to evaluate the potential of the property as a host to syngenetic gold mineralization as suggested by previous work carried out on the property.

The southern 2/3 of the property is underlain by interbedded massive and pillowed andesite flows with numerous cherty and porphyritic interflow tuffites. Several granitic and felsic porphyritic sill-like intrusives are located in the center of this mafic sequence which may be the locus of a major anticlinal fold axis. North of the mafic sequence is a 1/4 mile wide succession of felsic and intermediate metavolcanic tuff and lapelli tuff which has been intruded by several narrow gabbroic sills centered on a graphitic-sulphide horizon. The northernmost portion of the property is underlain by metasediments which have been intruded by numerous pegmatites.

Structurally the rocks are strongly sheared in an east-west direction and appear tightly isoclinally folded. Faulting in both an northerly and north westerly direction displaces the stratigraphy.

Fifty rock samples collected during the course of the mapping contained anomalous gold values in the range 30 to 240 ppb. All the anomalous samples are from tuffites, felsic tuffs and felsic intrusive sills or pegmatites. These felsic volcanics and intrusive rocks together with the overlying metasediments constitute an environment similar to that which hosts the Hemlo gold deposits.

The O'Sullivan Lake property is located adjacent to the north of the Consolidated Louanna Gold Mines deposit which is currently in production. This deposit occurs in an east-west shear zone where it is intersected by a north trending fault. A similar environment occurs in the area of Pfeiffer Point on the Syngold property.

The geologic program confirms the high potential of the property for economic gold deposits and a 2 stage exploration program consisting of geological geochemical and geophysical surveys to be followed by diamond drilling is recommended. A budget of \$250,000 over 2 years will provide for this exploration program.

50 rock samples contained 0.001 oz. Au per ton or more. All the anomalous samples are from tuffite zones sheared felsic tuffs and porphyries or porphyritic and pegmatitic dykes in the metasediments.

Gold mineralization at the only producer in this area (Consolidated Louanna Gold Mines) is contained in an east-west trending shear zone in pillowed andesite intruded by several quartz porphyry sills near the intersection of a north bearing fault zone.

Reconnaissance geological mapping of Syngold's property has identified a similar setting at Pfeiffer Point. An east-west trending shear zone outlining a tight isoclinal fold axis passes through the pillowed andesite and is intruded by several quartz porphyry sills and is intersected by the same fault which passes through the mine. Several parallel faults located further east also cross this same shear zone. Weakly anomalous gold values up to 0.008 oz. Au per ton along this structure makes this a very favourable structure.

The felsic metavolcanic sequence and overlying metasediments along the upper Kawaskagama River and at Superb Lake constitute an environment similar to that found at the main Hemlo deposits. Weakly mineralized (pyritic) felsic tuffs present in this area contained above background gold values assaying up to 0.004 oz. Au per ton. Pegmatites and porphyries intruding the immediately overlying sheared metasediments contain similar gold values. The location and sampling of areas of more concentrated sulfide mineralization is well warranted.

Anomalous gold concentrations of 0.001 to 0.007 oz. Au per ton were also obtained from several carbonaceous tuffite horizons, more detailed prospecting along these structures is also warranted.

The geologic program confirms the high potential of the property for economic gold deposits and a 2 stage exploration program consisting of geological, geochemical and geophysical surveys, to be followed by diamond drilling is recommended. A budget of \$250,000 over 2 years will provide for this exploration program.

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INTRODUCTION

During the period from August 10 to September 3, 1983 the author, assisted by H. Hinzer, carried out a reconnaissance geological mapping and rock geochemical sampling program on Syngold Exploration Inc.'s 111 claim gold property located at O'Sullivan Lake, Ontario. Geochemically anomalous gold values were obtained from several pyritic, carbonatized interflow tuffs and from a 1000-2000 foot wide belt of siliceous locally pyritic metavolcanic tuffs, fragmentals and metasedimentary schists centred on the upper Kawaskagama River.

Local concentration of sulfides in interflow tuffs, within the felsic metavolcanics and metasediments along the Kawaskagama River, and in the major shear zone at Pfeiffer Point, are considered to be excellent target areas for more detailed exploration, to locate economic concentrations of gold mineralization.

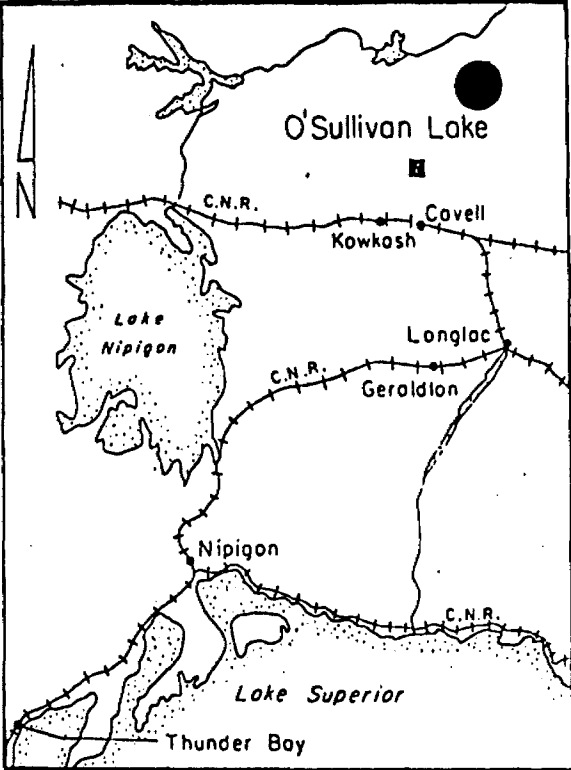
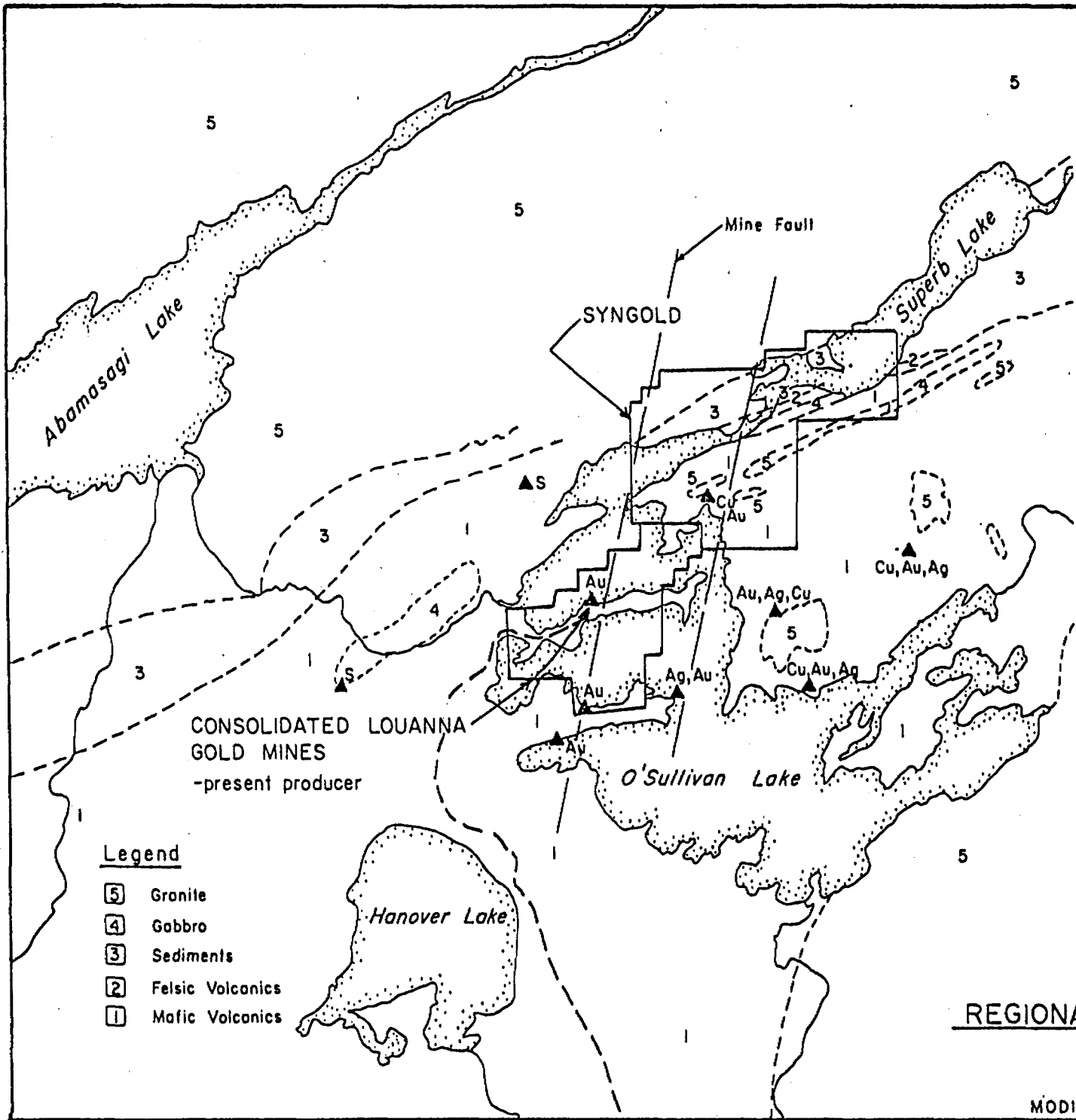
PROPERTY DESCRIPTION

Claims

The property consist of 111 contiguous unpatented mining claims located in the O'Sullivan Lake area (G-362) in the Mining District of Thunder Bay Ontario (Figure 1). The claims Nos. TB 772014-82 inclusive, TB 772084-95 inclusive and TB 772104-30 inclusive were recorded on June 15, 1983 (Appendix 2).

Property Location and Access

The O'Sullivan Lake area is situated northeast of Lake Nipigon approximately 170 air miles northeast of Thunder Bay Ontario at Lat. 50° 30' and



SCALE - 1" = 50 mi.

Property Location Map

REGIONAL GEOLOGY PLAN

1" = 2 miles

MODIFIED FROM O.D.M P-274

FIGURE 1

Long. 87° (N.T.S. 42 E12). Road access via paved secondary highways leading north from Trans Canada Highway No. 11 at Geraldton for approximately 48 miles to Cavell connect with all weather Kimberly Clarke gravel access roads. Consolidated Louanna Gold Mines Ltd. and several tourist camps are located on the east side of O'Sullivan Lake approximately 18 miles north of Cavell (Fig. 1). The claim block is easily reached by boats available from the tourist camps. For this survey O'Sullivan Lake outfitters on the Kawaskagama River was found to be best suited. Present lumbering activity north of O'Sullivan Lake has also opened a cutting road which extends just into the north-west corner of the claim block providing good winter access.

Topography

Topographic relief on the property is low. Occasional resistant gabbro ridges and eskers provide local relief up to 25 feet. Outcrop exposure is very good with over 40 percent rock exposure. Only the northern portion, north of the Kawaskagama River underlain by sediments and granite is poorly exposed.

Railway, hydroelectric power and infrastructure are located approximately 18 miles south at Nakina. Consolidated Louanna Gold Mines Ltd. adjacent to the southeast is now in production operating a small 150-200 ton per day mill. Future producers in the area may benefit from its central location.

HISTORY

Geological mapping of the area has been conducted by both federal and provincial surveys. W.J. Wilson & W.H. Collins G.S.C. 1904, P.E. Hopkins O.D.M. 1916, L.F. Kindle O.D.M. 1929, 1930 and W.W. Moorehouse 1955. Gold and copper mineralization was first discovered in the 1920's. Scattered exploration efforts between 1930 and 1945 culminated in a local staking rush when Osulake Mines Ltd. started to develop its gold showing. A shaft was sunk to the 300 foot level with development work on the 150 and 300 foot levels but operations were closed down in 1950 with no recorded production. Since that time several attempts have been made to bring the property into production.

In 1975 the shaft was deepened and the 450 level was opened up by Consolidated Louanna Gold Mines Ltd. In 1981 the latter company failed again to achieve production. Currently Mining Corp. of Canada as operator is reported to be removing 90,000 tons of material at 0.33 oz./ton on a salvage operation basis. Personal studies by the author in 1975 indicated possible geological reserves at 500,000 tons averaging better than 0.15 oz. Au per ton to the 550 foot level.

Between 1950 and the present the area has been explored for both base and precious metals by many large and small companies with little or no success.

Previous exploration on the claim group was carried out by Chimo Gold Mines Ltd. in the late 1940's. A 13 foot wide mineralized zone of sheared tuff and porphyry was reported to carry gold values. Some drilling and stripping was done but no data is available. Trans-American Mining Corporation Ltd. exposed several rhyolitic tuff bands with small quartz lenses. Results of trenching and diamond drilling done on the property in 1946 are not available. Sulmac Mines Ltd. drilled several holes in 1950's just south of the Kawaskagama River just west of Superb Lake. Results reported show up to 0.15% Cu in semi-massive sulfides associated with a graphitic tuff zone, no gold assays were taken. Amax conducted an airborne geophysical survey over the eastern part of the claim area in 1980. Although a ground follow up survey was completed no further work was recommended.

Stanford Mines Ltd. drilled one hole south of Peter Is. immediately west of the claim group in the 1960's. Drilling intersected approximately 100 feet of carbonatized felsic tuff and porphyry with minor local pyrite and graphitic beds. No assays were released. Further west similar zones were examined for Au & base metals by New Athona Mines, in the 1950's and 1970's, and Mattagami Lake Exploration Ltd. in the mid 1970's, Low Cu, Zn, Pb values were reported but no significant base or precious metal results were obtained.

GENERAL GEOLOGY

The area is underlain by Archean metavolcanics and metasediments belonging to the Wabigoon Belt. Locally interbedded massive and pillowed mafic flows are overlain by a narrow belt of felsic to intermediate tuffs and metasediments.

The volcanics are locally intruded by sills and dykes of gabbroic to granitic composition. Late stage granite massifs are located north and south of the metavolcanics. Metamorphic grade varies from greenschist in the central belt to at least upper amphibolite adjacent to the granite bodies (Map 2) - Strong east to northeast shearing dominates the structure, and numerous faults dissect the area.

Structure

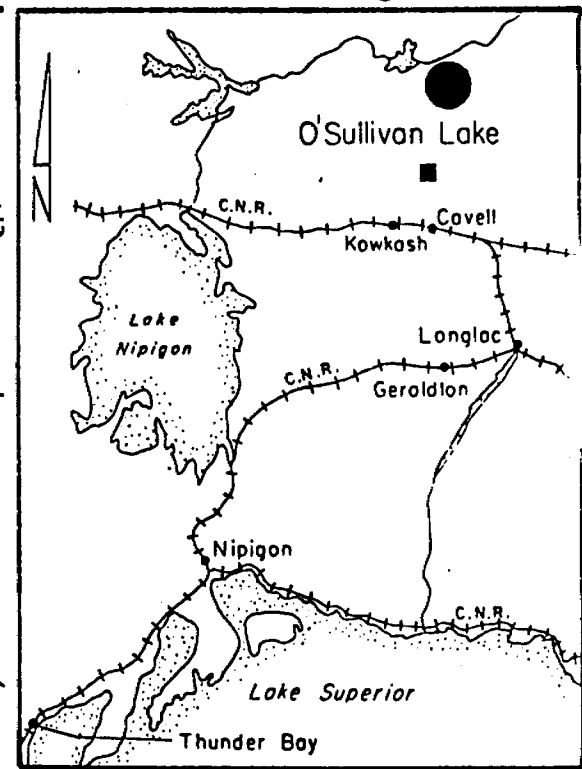
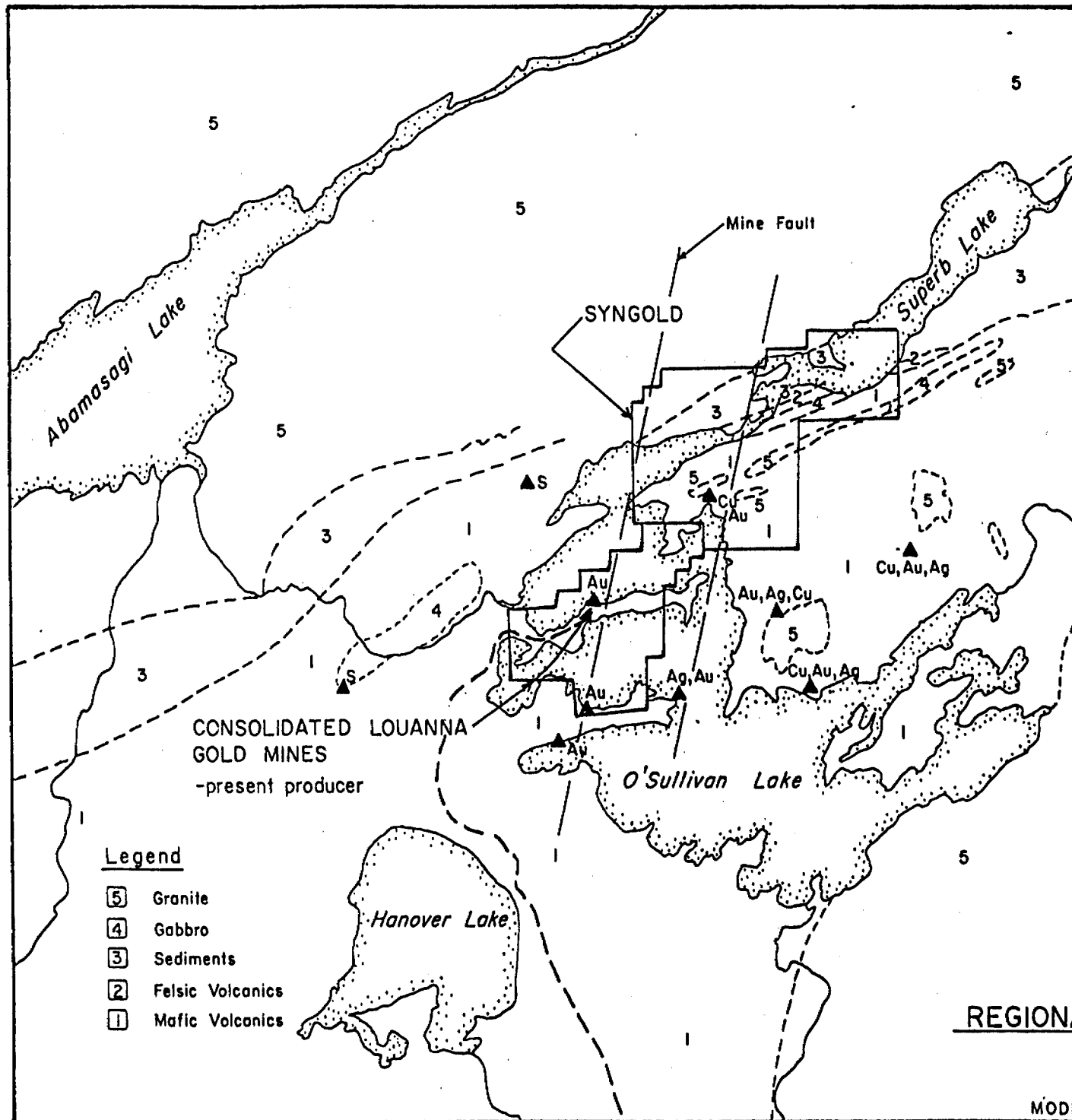
All the rocks are highly sheared in an easterly direction bearing 070° - 085° . Locally this shearing (especially in the southeast) has been turned to 030° - 045° . The presence of several identified and many other assumed north trending 010° - 030° faults especially in the southeast may account for this shift in shearing. A second set of faults with a west to northwest trend is observed in the upper portion of the property.

Evidence of tight isoclinal folding is present in many localities. One major isoclinal fold axis - and shear zone has been traced for almost $\frac{1}{2}$ mile east from Pfeiffer Point. This fold axis appears to be related to the major quartz porphyries and granite sill like intrusives in the centre of the mafic belt. From west to east increasingly lower sections of the volcanic pile are exposed.

Stratigraphy

The mafic sequence extends across almost the entire property and is volumetrically the largest rock unit exposed (Fig. 2). It consists primarily of mafic (andesitic) flows, minor tuffs, and numerous narrow interflow tuffites. A major granitic sill intrudes the eastern half of this unit near its centre. Two significant felsic porphyry sills extend across the western half of the property, one just north and one just south of the centre of the mafic sequence.

Pillowed andesite flows constitute between 65-70 percent of this sequence. Low water levels have revealed numerous additional exposures of pillowed lava



SCALE - 1" = 50 mi.

Property Location Map



Map 2

REGIONAL GEOLOGY PLAN

1" = 2 miles

MODIFIED FROM O.D.M P-274

Figure 2: Table of Stratigraphy

	<u>MAJOR UNITS</u>	<u>SUB UNITS</u>	<u>WIDTH</u>
GRANITE			
SEDIMENTS (3000')	Meta-schists and gneisses		
FELSIC SEQUENCE (1600')	Rhyolite-Dacite tuffs, lapilli tuff and porphyry tuff	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">gabbro</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">gabbro</div>	500' 300' 100' 300' 400'
MAFIC SEQUENCE (5000'+)	Pillowed and massive coarse flows - minor tuffs	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">porphyry</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px; margin-left: 100px;">granite</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 50px;">porphyry</div>	10'-200' 500'± 10'-200'

showing it to be much more extensive than previously indicated (Moorehouse 1955). Even the highly metamorphosed hornblendic andesite exhibited excellent (though highly sheared) pillow structures. Normally medium-green and fine-grained the highly metamorphosed pillowed flows exhibit numerous tiny hornblende needles aligned parallel to schistosity and a dark green-black colour.

Coarse grained massive flows make up nearly 25 percent of the sequence. Moorehouse (1955) and others described these rocks as metadiabases or diorites, but recognized that they are most likely coarse flows. As the metamorphic grade increases from south to north these flows change from coarse diorites to very coarse grained amphibolites and hornblendites.

Fine grained massive medium-green andesites which are possible fine-grained massive flows or tuffs were observed only in the southern half of the mafic sequence and comprise less than 5 percent of the sequence.

Many narrow often discontinuous lensoid interflow tuffs or tuffites were also encountered. These tuffs may be up to 40 feet wide. They are always felsic (rhyolitic) in composition and are either cherty or quartz porphyritic. Almost all of these interflow tuffs identified in the northern half of the mafic sequence are carbonaceous and many of them contain up to several percent disseminated py. These units are almost always highly sheared and fresh samples are very difficult to obtain.

Two extensive quartz and quartz feldspar porphyritic sills up to 200' wide and at least one mile in length intrude the centre of the western half of this sequence. The more massive portions exhibit chilled cherty margins with coarser centres. Blue quartz eyes are locally present. Extensive quartz and carbonate veining is evident locally in the surrounding granites but no anomalous sulfide concentration or gold values were recorded.

The central intrusive granite within the easterly half of the mafic sequence was also found to be quartz porphyritic and may represent the lower or granitic root of the porphyry system seen further west. No significant alteration was seen within or adjacent to this granite where traversed.

The felsic sequence is approximately $\frac{1}{4}$ mile wide and extends east-west across the entire property. Exposure of most of this unit is obscured by overburden cover and the Kawaskagama River. It consists of felsic to intermediate metavolcanic tuff and porphyritic tuff intruded by several major gabbroic sills. Locally intermediate lapilli tuff with felsic fragments is present. The upper third of the unit is often cherty and may be interbedded with siliceous metasediments. Diamond drilling has also confirmed the presence of a graphitic-sulfide bearing zone.

The felsic volcanics encountered are equally divided between tuffaceous and porphyritic members. The tuff is fine-grained light gray and locally carbonaceous. Disseminated pyrite up to three percent is common. Tuff units are generally up to 100 feet or more in width. Porphyritic members are usually quartz porphyritic, bluish gray in colour and may be over 100 feet in width. These rocks may be locally sheared and often have variable phenocryst content. Disseminated sulfides when present are often less than one percent.

The intermediate tuff to lapilli tuff member may contain narrow (less than 50 feet wide) andesitic to dacitic tuff interbedded with the intermediate matrix-felsic lapilli unit. These rocks are usually confined to the upper third of the felsic sequence immediately north of the gabbroic intrusives and exhibit a high degree of shearing with up to 5 percent barren sulfides locally.

The upper 100-200 feet of the felsic sequence is an intimate mixture of chert or cherty tuff and siliceous metasediments. Locally these rocks are strongly altered with epidote and K-spar associated with quartz veining and local disseminated sulfides of up to 10 percent.

The central portion of this sequence is intruded by two or three parallel to sub parallel gabbroic sills. These are usually coarse to very coarse-grained and are seen to exhibit chilled margins in places. The graphitic sulphide bearing horizon is intimately associated with these rocks and may have provided the weakness along which these sills were intruded.

The sedimentary sequence is estimated to be in excess of one half mile in width within the property boundary. Exposure is generally poor as most of the area except along the shoreline is heavily overburden covered.

The sediments for the most part are gray to brownish gray fine grained biotite schists grading rapidly into coarse biotite garnet gneisses towards the granite to the north. Within the lower 500-1000 feet of the sediments chloritic, ferruginous and siliceous metasedimentary beds may be distinguished. Pegmatite dikes are common increasing with frequency as the granite boundary to the north is approached.

Geochemistry

A total of 234 rock samples were collected in order to identify areas of anomalous gold content for detailed exploration. All of these samples were analysed for gold by the fire assay method, 11 were analysed for Na₂O, and 4 samples were analysed for Mo, and Ba (see Appendix 1). Fifty of the samples contained values ranging from 30 to 240 ppb gold. Forty-four samples were re-assayed as a check against the original results.

This data indicates that the background gold content on the property is essentially nil and the 50 samples discussed above are therefore anomalous. The average of the assay values obtained for each sample is shown on Map No. 3.

The 11 samples analysed for Na₂O were of felsic volcanic tuffs, tuffite and porphyries. Four of these samples showed some depletion in sodium. The 2 samples with Na₂O values of less than 1% Na₂O were from barren mineralized quartz veins and samples 90B and 20B which show moderate depletion were from weakly mineralized felsic tuff and porphyry respectively.

All four samples analysed for Mo contained 2 ppm Mo or less.

Barium analyses ranged from 20-660 ppm. The Ba values increase from 20 ppm at the center of the felsic sequence to 280-380 ppm at the top of the felsic sequence to 660 ppm in the overlying metasedimentary sequence.

DISCUSSION

Previously known gold mineralization in the O'Sullivan Lake area is hosted in quartz porphyry bearing shear zones within mafic volcanic flows, at the margins of local quartz porphyry dykes and within narrow cherty, porphyritic and carbonaceous interflow tuffs. The only economic concentration located to date, the Consolidated Louanna Gold Mine, occurs within a major east-west shear structure where it is intersected by a major north trending fault zone (see Map 2).

Anomalous gold mineralization was encountered on the O'Sullivan Lake Property in a similar structure near the intersection of the northern extension of the mine area fault and a major shear zone outlining an east-west trending isoclinal fold axis, at Pfeiffer Point (see Map 1).

Highly sheared pillowed volcanics intruded by quartz porphyry dykes or sills adjacent to a major coarse-grained massive flow encountered here are identical to those previously seen by the author underground at Consolidated Louanna Gold Mines. Anomalous gold values obtained from this zone and the adjacent tuffs make this a highly favourable structure, especially since at least several other parallel north-south faults cross this same shear zone.

A second zone of anomalous gold mineralization (0.004-0.006 oz. Au per ton) centred on the upper portion of the felsic sequence, has to date received no previous exploration. The setting at or near the metasediment-metavolcanic interface is similar in many ways to the Hemlo-type of gold occurrence.

Anomalous gold mineralization is found in pegmatites and porphyry dykes within the metasediments. These anomalous rock geochemical gold values should certainly be followed up.

Many of the narrow carbonated interflow tuff horizons are also anomalous in gold. Although previous exploration along these horizons failed to encounter ore grade values many additional horizons were located on the property. A detailed geological mapping and trenching program to further evaluate these zones, especially where sulfide mineralization is present certainly is warranted.

Additional geochemical studies of Na₂O, Ba and Mo values from a selected suite of samples indicated only local Na₂O depletion of some felsic tuffite horizons. No significant Mo and Ba anomalies were located.

CONCLUSIONS

- 1) Reconnaissance geological mapping and rock geochemical sampling recently completed on Syngold's O'Sullivan Lake property has outlined several geological settings which are favourable for the location of economic concentrations of gold.
- 2) The gold rock geochemical study indicated a very low background of less than 30 ppb Au. Several anomalous areas up to 240 ppb were identified on the property.
- 3) The Pfeiffer Point shear zone presents a similar geological environment to that of the producing Consolidated Louanna Gold Mine.
- 4) The felsic sequence with its weakly anomalous gold values is geologically very similar to the Hemlo gold camp.
- 5) Carbonaceous felsic interflow tuffites similar to the ones located at O'Sullivan Lake are present in most of the major gold camps.
- 6) Further detailed exploration of geochemically anomalous zones and structurally favourable environments is recommended.

RECOMMENDATIONS

An extensive two phase exploration program is recommended to fully evaluate the economic potential of this property.

Phase I will consist of extensive ground geophysical, geological, and geochemical surveys. A survey grid with lines spaced at 400 foot intervals running at right angles to a central base line bearing 065° is recommended to provide the best geophysical coupling.

Proton magnetometer and V.L.F. (Fraser Filter) electromagnetic surveys are recommended to locate zones of anomalous sulfide concentration within the felsic metavolcanics (Hemlo type model), and to trace favourable faults, shears and tuffites which may be mineralized.

Humus gold geochemistry and additional rock geochemical sampling should be combined with a detailed geological survey to locate favourable geological and anomalous geochemical environments.

Exploratory trenching of all anomalous zones from the above surveys should be carried out where possible.

Phase II a program of shallow diamond drill testing of all significant surface anomalies must be carried out to complete the preliminary evaluation.

COSTS

Phase I

Line Cutting	92 miles @ \$250	\$23,000
Proton Magnetometer	90 miles @ \$120	10,800
V.L.F. (Fraser Filter)	90 miles @ \$130	<u>11,700</u>
		\$45,500

Geological Surveys

- Mapping (travel, accom., salaries etc.)	\$25,000
- Geochemistry	7,500
- Trenching and Sampling	8,000
- Assays	4,000
- Report Preparation	<u>4,000</u>
	\$48,500

Administration \$ 3,000

Contingencies 4,000

\$ 7,000

Total Phase I \$100,000

Phase II

Diamond Drilling	
- 5,000; @ \$25	\$125,000
- Engineering	10,000
- Acc. Travel. Exp.	6,000
- Assays	4,000
- Super. Report Prep.	<u>5,000</u>

Total Phase II \$150,000

GRAND TOTAL Phase I + II \$250,000

Appendix I

ASSAYS

SAMPLE	AU OZ/TON	Au oz/ton RERUN	Na ₂ O%	Mo ppm	Ba ppm	FIELD NO.
2601	NIL					100
2602	NIL					100A
2603	NIL					101A
2604	NIL					101C
2605	NIL					101F
2606	NIL					102
2607	NIL					104
2608	NIL					105
2609	0.003	NIL				107
2610	NIL					108
2611	0.004	NIL				109B
2612	NIL					109C
2613	0.015	NIL				109A
2614	NIL					110C
2615	NIL					111A
2616	NIL					112
2617	0.003					113
2618	NIL					115
2619	NIL					116A
2620	NIL					116B
2621	NIL					116C
2622	0.003					94
2623	NIL					117A
2624	NIL					118A
2625	TRACE	NIL				118B
2626	NIL					108A
2627	NIL	NIL				119A
2628	NIL	NIL				119B
2629	NIL					119C
2630	NIL					93
2631	NIL					117B
2632	NIL					93A
2633	TRACE					93B
2634	NIL					96A
2635	NIL					96C
2636	NIL					96
2637	NIL					96D
2638	NIL					99A
2639	NIL					99
2640	TRACE					101D
2641	NIL					101E
2642	NIL					106
2643	NIL					114
2644	NIL					110E
2645	0.001					103
2646	0.002					120
2647	NIL					120A
2648	NIL	NIL			20	121
2649	NIL					127
2650	NIL	NIL	3.47		280	128

SAMPLE	AU OZ/TON	Au oz/ton RERUN	Na ₂ O%	Mo ppm	Ba ppm	FIELD NO.
2651	NIL					131
2652	NIL					130
2653	0.002					132C
2654	0.002					133B
2655	TRACE					132A
2656	0.004					132B
2657	NIL					133A
2658	0.004					134
2659	0.004	NIL	406			135
2660	0.003					135B
2661	NIL					137
2662	NIL					129B
2663	NIL	NIL				129A
2664	NIL	NIL				129
2665	NIL					125
2666	NIL					123
2667	NIL	NIL	400		380	122
2668	0.005	NIL				122A
2669	NIL					129
2670	0.001					126A
2671	NIL					139
2672	NIL					140
2673	NIL					141
2674	NIL					142
2675	NIL					144
2701	NIL					2
2702	NIL					3
2703	NIL					5
2704	0.004					6
2705	0.002					9
2706	NIL					11
2707	NIL					13
2708	NIL					14A
2709	NIL					14B
2710	NIL	Tr				15
2711	NIL					16A
2712	NIL					16B
2713	NIL					19
2714	TRACE					20
2715	0.001	NIL	0.26	41		20A
2716	NIL	NIL	2.27			20B
2717	NIL					22
2718	NIL					23
2719	NIL					25
2720	NIL					26
2721	NIL					27
2722	NIL					49
2723	NIL	NIL				49-1
2724	NIL	NIL				49-2
2725	TRACE	Tr				49-3

SAMPLE	AU OZ/TON	Au oz/ton RERUN	Na ₂ O%	Mo ppm	Ba ppm	FIELD NO.
2726	NIL	Tr				49-4
2727	NIL	NIL				49-5
2728	NIL	NIL				49-6
2729	NIL	NIL				49-7
2730	0.001					30
2731	0.004					30A
2732	NIL					32A
2733	NIL					31
2734	NIL					32
2735	TRACE					35
2736	NIL					34A
2737	0.001					37A
2738	TRACE					36
2739	NIL					37
2740	0.001					38
2741	TRACE					39
2742	NIL					40
2743	TRACE					40A
2744	0.002					41
2745	TRACE					42
2746	NIL					44
2747	NIL					51
2748	NIL					55
2749	NIL					52
2750	NIL					53
2751	NIL					43
2752	0.001					45
2753	0.002					46
2754	NIL					56
2755	0.001	NIL	0.93			69C
2756	0.004	0.004				69B
2757	NIL	NIL	4.80			69A
2758	NIL					62A
2759	NIL					62D
2760	NIL					68C
2761	NIL					63
2762	NIL					57
2763	NIL					61
2764	NIL					59
2765	NIL					60
2766	NIL					62
2767	NIL					62C
2768	NIL					66B
2769	NIL					66C
2770	NIL					67
2771	NIL					68B
2772	NIL					70A
2773	NIL	NIL				70B
2774	NIL	NIL				70C
2775	NIL	NIL				71

<u>SAMPLE</u>	<u>AU OZ/TON</u>	<u>Au oz/ton RERUN</u>	<u>Na₂O%</u>	<u>Mo ppm</u>	<u>Ba ppm</u>	<u>FIELD NO.</u>
2776	NIL					75
2777	NIL					77
2778	NIL					76
2779	0.002					77C
2780	NIL					77B
2781	NIL					79
2782	NIL					82
2783	NIL					81
2784	NIL					83
2785	NIL					82A
2786	NIL					82B
2787	NIL					85
2788	0.006	0.007				90A
2789	NIL		1.71			90B
2790	0.001					90C
2791	NIL					91
2792	NIL					92A
2793	NIL					92B
2794	0.003	NIL	4.38		<1	92C
2795	TRACE					92D
2796	TRACE					94
2797	NIL					96B
2798	NIL					99D
2799	NIL					99B
2800	NIL					99E

<u>MPL</u>	<u>AU OZ/TON</u>	<u>Au oz/ton RERUN</u>	<u>Na₂O%</u>	<u>Mo ppm</u>	<u>Ba ppm</u>	<u>FIELD NO.</u>
1000	TRACE					170A
1001	0.002-					170B
1002	NIL					170B ₂
1003	NIL					170BB
1004	0.003-					170C
1005	NIL				660	171
1006	NIL					172C
1007	NIL					172D
1008	TRACE					173
1009	NIL					180A
1010	NIL	NIL				180B
1011	NIL	NIL				180C
1012	NIL	NIL				180D
1013	NIL					180E
1014	NIL					180G
1015	NIL					182
1016	TRACE					183
1017	0.002					185
1018	0.005	NIL				186A
1019	NIL					187
1020	NIL					188A
1021	NIL					189A
1022	NIL					189B
1023	NIL					190
1024	NIL					192
1025	NIL					194A
1026	NIL					196
1027	NIL					197
1028	0.002					198A
1029	TRACE					198
1030	TRACE					199
1031	NIL	NIL	3.37			200A
1032	0.005	NIL	5.13	2		200B
1033	0.002					202
1034	NIL					203
1035	0.001					204
2676	0.001					161
2677	0.002					155
2678	TRACE					156A
2679	NIL					156B
2680	NIL					157A
2681	0.003	NIL				157B
2682	NIL	NIL				158B
2683	0.003	NIL		2		158C
2684	NIL					158E
2685	NIL					158F
2686	NIL					158G
2687	0.002	NIL				158H
2688	0.006	NIL				158I
2689	0.002					159A

SAMPLE	AU OZ/TON	Au oz/ton RERUN	Na ₂ O%	Mo ppm	Ba ppm	FIELD NO.
B 2690	NIL					162B
2691	NIL					160
2692	NIL					161A
2693	0.001					162A
2694	0.001					163
2695	NIL					164
2696	0.001					163A
2697	NIL					165
2698	NIL					166

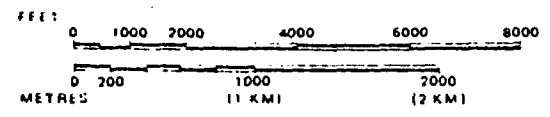
Appendix II

CLAIM MAP

- PATENT, SURFACE & MINING RIGHTS ○
- " SURFACE RIGHTS ONLY ○
- " MINING RIGHTS ONLY ○
- LEASE, SURFACE & MINING RIGHTS □
- " SURFACE RIGHTS ONLY □
- " MINING RIGHTS ONLY □
- LICENCE OF OCCUPATION ▼
- ORDER-IN-COUNCIL OC
- RESERVATION (M)
- CANCELLED (C)
- SAND & GRAVEL (S)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP 380, SEC 63, SUBSEC 1

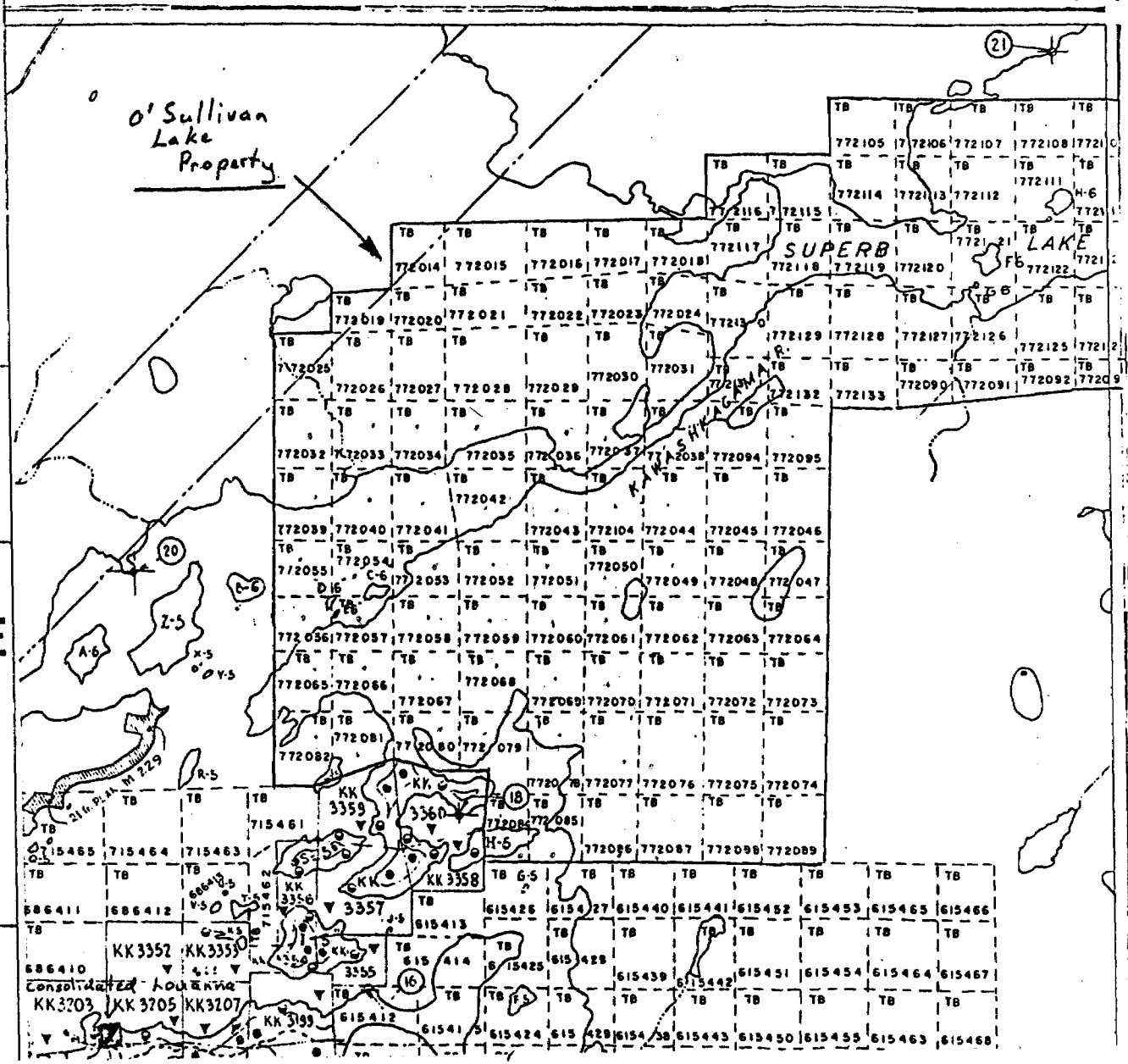
SCALE: 1 INCH = 40 CHAINS



AREA
O'SULLIVAN LAKE
 M.N.R. ADMINISTRATIVE DISTRICT
GERALDTON
 MINING DIVISION
THUNDER BAY
 LAND TITLES / REGISTRY DIVISION
THUNDER BAY



Ministry of Land
 Natural Management
 Resources Branch



XRAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO:

Re file #2,6868

INVOICE TO:
 SYNGOLD EXPLORATIONS INC
 ATTN: J. GILL
 C/O AUR RESOURCES
 330 BAY STREET, SUITE 1608
 TORONTO, ONTARIO M5H 2S8

SUBMITTED TO:
 SYNGOLD EXPLORATIONS INC
 ATTN: J. GILL
 C/O AUR RESOURCES
 330 BAY STREET, SUITE 1608
 TORONTO, ONTARIO M5H 2S8

CUSTOMER NO. 651

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
18869	09-SEP-83	14711	29-AUG-83

TERMS

TERMS NET 30 DAYS
 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

CLIENTS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		ROCK

NO. OF PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
8 BAGS	A/C	014 02357600	

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 175	AU	50,10, 7, 0, 0, 0	7.00	1225.00
2. 175	ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	481.25
			SUB-TOTAL	\$ 1706.25

Paid Oct. 14/83

MISC. CHARGES	SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
OTHER				
				BURCHARGE - RUSH SERVICE

TOTAL IN CANADIAN FUNDS \$ 1706.25

ORIGINAL INVOICE

Sy. O'Sullivan Lake Project

OK [Signature]

#005

XRAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO:

Re file # 2.6868

VOICE TO:
 SYNGOLD EXPLORATIONS INC
 ATTN: J. GILL
 C/O AUR RESOURCES
 330 BAY STREET, SUITE 1608
 TORONTO, ONTARIO M5H 2S8

SUBMITTED TO:
 SYNGOLD EXPLORATIONS INC
 ATTN: J. GILL
 C/O AUR RESOURCES
 330 BAY STREET, SUITE 1608
 TORONTO, ONTARIO M5H 2S8

CUSTOMER NO. 651

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
18904	13-SEP-83	14744	31-AUG-83
TERMS			
TERMS NET 30 DAYS 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

CLIENTS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		ROCK

NO. OF PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
	AIR CANADA	014-94524183	

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 14	CU. MO. AG. MIXED ACID DIGESTION	1, 7, 0, 0, 0, 0	3.95	55.30
2. 14	AU	2, 10, 7, 0, 0, 0	6.50	91.00
3. 14	ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	38.50
			SUB-TOTAL	\$ 184.80

Paid Oct. 14/83

MISC. CHARGES	SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES	
	27.00				\$ 27.00
OTHER				BURCHARGE - RUSH SERVICE	

Charge Trownosky Project.

TOTAL IN CANADIAN FUNDS \$ 211.80

ORIGINAL INVOICE

OK [Signature] 10/14/83 \$ 0.61

XRAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

Re file # 2.6868

INVOICE TO:
 SYNGOLD EXPLORATIONS INC
 ATTN: J. GILL
 C/O AUR RESOURCES
 330 BAY STREET, SUITE 1608
 TORONTO, ONTARIO
 M5H 2S8

COPY TO:

SAME

SUBMITTED TO:
 SYNGOLD EXPLORATIONS INC
 ATTN: J. GILL
 C/O AUR RESOURCES
 330 BAY STREET, SUITE 1608
 TORONTO, ONTARIO
 M5H 2S8

CUSTOMER NO. 651

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
19679	18-NOV-83	15315	28-OCT-83

TERMS

TERMS NET 30 DAYS
 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

CLIENTS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		PULP

NO. OF PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
	ON HAND W#14711, 14901		

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 4	MO, MIXED ACID DIGESTION	1, 7, 0, 0, 0, 0	2.15	8.60
2. 4	BA, XRF-G	7, 5, 0, 0, 0, 0	5.50	22.00
3. 43	AU	50, 10, 7, 0, 0, 0	7.00	301.00
4. 11	NA2O	101, 6, 0, 0, 0, 0	11.00	121.00
			SUB-TOTAL	\$ 452.60

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
MISC. CHARGES		SURCHARGE - RUSH SERVICE	
OTHER			

TOTAL IN CANADIAN FUNDS \$ 452.60

ORIGINAL INVOICE

O'Sullivan Lab. Project Paid Dec. 1/83 # 2

aim numbers

TB 772014, TB 772015, TB 772016, TB 772017, TB 772018, TB 772019,
TB 772020, TB 772021, TB 772022, TB 772023, TB 772024, TB 772025,
TB 772026, TB 772027, TB 772028, TB 772029, TB 772030, TB 772031,
TB 772032, TB 772033, TB 772034, TB 772035, TB 772036, TB 772037,
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TB 772080, TB 772081, TB 772082, TB 772084, TB 772085, TB 772086,
TB 772087, TB 772088, TB 772089, TB 772090, TB 772091, TB 772092,
TB 772093, TB 772094, TB 772095, TB 772104, TB 772105, TB 772106,
TB 772107, TB 772108, TB 772109, TB 772110, TB 772111, TB 772112,
TB 772113, TB 772114, TB 772115, TB 772116, TB 772117, TB 772118,
TB 772119, TB 772120, TB 772121, TB 772122, TB 772123, TB 772124,
TB 772125, TB 772126, TB 772127, TB 772128, TB 772129, TB 772130,
TB 772131, TB 772132, TB 772133

W8404-

Lead Management Subgr



Ministry of Natural Resources

Report of Work (Geophysical, Geological, Geochemical and Expenditures)

693

Instructions: - Please type or print.

Note: - If number of "mining" claims traversed exceeds space on this form, attach a list. Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. - Do not use shaded areas below.

File: 772031

The Mining Act

2.6868

Type of Survey(s) GEOCHEMICAL (ASSAY)	Township or Area O'Sullivan Lake AREA/G-36
Claim Holder(s) J. B. Hinzer	Prospector's Licence No. H 11391
Address 2005 BARKER ST. NIAGARA FALLS ONT. L2G 1Z5	
Survey Company X-RAY ASSAY LAB	Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 09 09 83 18 11 83
Name and Address of Author (of Geo-Technical report) J. B. Hinzer	

Credits Requested per Each Claim in Columns at right

Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Magnetometer	
	- Radiometric	
	- Other	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
TB	772031	12			
	772038	12			
	772037	12			
	772043	12			
	772052	12			
	772053	12			
	772056	12			
	772057	12			
	772065	12			
	772066	12			
	772081	12			
	772082	12			
	772088	14			

RECEIVED
JAN 15 1985
MINING LANDS SECTION

See work statement

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures: \$ 2370.65 + 15 = Total Days Credits: 158

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 13

Date: *Dec. 13/84*

Recorded Holder or Agent (Signature): *[Signature]*

For Office Use Only

Total Days Cr. Recorded: 123

Date Recorded: *Dec 19 1984*

Mining Recorder: *[Signature]*

Date Approved at Recorder's Office: *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: *J.B. Hinzer 2005 Barker St. Niagara Falls Ont. L2G 1Z5*

Date Certified: *Dec. 13/84*

Certified by (Signature): *[Signature]*



Ministry of Natural Resources

File _____

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
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 INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological + Geochemical
Township or Area O'Sullivan Lake Area
Claim Holder(s) J.B. Hinzer
Survey Company _____
Author of Report J.B. Hinzer
Address of Author 7005 BARKER ST NIAGARA FALLS, Ontario
Covering Dates of Survey Aug 6 to Sept 31 1983
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

see attached list

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical
- Electromagnetic _____
- Magnetometer _____
- Radiometric _____
- Other _____
Geological 14
Geochemical 6

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: May 18, 1984 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.1938

Previous Surveys

File No.	Type	Date	Claim Holder

MINING LANDS SECTION
JUN 18 1984

RECEIVED
MINING DIVISION
JUN 18 1984

TOTAL CLAIMS 111

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken Approximately 52 claims most of remaining claims are water covered

Total Number of Samples 234

Type of Sample Rock
(Nature of Material)

Average Sample Weight 1-3 lbs

Method of Collection outcrop sample

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis -150

to - 250

General _____

ANALYTICAL METHODS

Values expressed in: per cent
oz/Ton p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo As, (circle)

Others Au, Ba, Na₂O

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory X-Ray Assay Lab

Extraction Method _____

Analytical Method FIRE Assay

Reagents Used _____

General All samples for Au

11 - Na₂O

4 Ba, Mo

Claim numbers

TB 772014, TB 772015, TB 772016, TB 772017, TB 772018, TB 772019,
TB 772020, TB 772021, TB 772022, TB 772023, TB 772024, TB 772025,
TB 772026, TB 772027, TB 772028, TB 772029, TB 772030, TB 772031,
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TB 772107, TB 772108, TB 772109, TB 772110, TB 772111, TB 772112,
TB 772113, TB 772114, TB 772115, TB 772116, TB 772117, TB 772118,
TB 772119, TB 772120, TB 772121, TB 772122, TB 772123, TB 772124,
TB 772125, TB 772126, TB 772127, TB 772128, TB 772129, TB 772130,
TB 772131, TB 772132, TB 772133

Claim numbers

TB 772014, TB 772015, TB 772016, TB 772017, TB 772018, TB 772019,
TB 772020, TB 772021, TB 772022, TB 772023, TB 772024, TB 772025,
TB 772026, TB 772027, TB 772028, TB 772029, TB 772030, TB 772031,
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TB 772080, TB 772081, TB 772082, TB 772083, TB 772084, TB 772085, TB 772086,
TB 772087, TB 772088, TB 772089, TB 772090, TB 772091, TB 772092,
TB 772093, TB 772094, TB 772095, TB 772104, TB 772105, TB 772106,
TB 772107, TB 772108, TB 772109, TB 772110, TB 772111, TB 772112,
TB 772113, TB 772114, TB 772115, TB 772116, TB 772117, TB 772118,
TB 772119, TB 772120, TB 772121, TB 772122, TB 772123, TB 772124,
TB 772125, TB 772126, TB 772127, TB 772128, TB 772129, TB 772130,
TB 772131, TB 772132, TB 772133

~~772055~~
772108 }
109 } untouched
110 }
112 }

geol

$$53 \times 7 = 371 \div 107 = 3.5$$

Claim numbers

TB 772014, TB 772015, TB 772016, TB 772017, TB 772018, TB 772019,
TB 772020, TB 772021, TB 772022, TB 772023, TB 772024, TB 772025,
TB 772026, TB 772027, TB 772028, TB 772029, TB 772030, TB ~~772031~~,
TB 772032, TB 772033, TB 772034, TB ~~772035~~, TB ~~772036~~, TB ~~772037~~,
TB ~~772038~~, TB 772039, TB ~~772040~~, TB ~~772041~~, TB 772042, TB ~~772043~~,
TB 772044, TB 772045, TB 772046, TB 772047, TB 772048, TB 772049,
TB 772050, TB 772051, TB ~~772052~~, TB ~~772053~~, TB 772054, TB 772055,
TB ~~772056~~, TB ~~772057~~, TB 772058, TB ~~772059~~, TB 772060, TB 772061,
TB 772062, TB 772063, TB ~~772064~~, TB ~~772065~~, TB ~~772066~~, TB 772067,
TB ~~772068~~, TB 772069, TB 772070, TB ~~772071~~, TB ~~772072~~, TB ~~772073~~,
TB 772074, TB 772075, TB 772076, TB ~~772077~~, TB ~~772078~~, TB ~~772079~~,
TB 772080, TB ~~772081~~, TB ~~772082~~, TB ~~772083~~, TB ~~772084~~, TB ~~772085~~, TB ~~772086~~,
TB ~~772087~~, TB ~~772088~~, TB 772089, TB 772090, TB 772091, TB 772092,
TB 772093, TB 772094, TB 772095, TB 772104, TB 772105, TB 772106,
TB 772107, TB 772108, TB 772109, TB 772110, TB ~~772111~~, TB 772112,
TB 772113, TB ~~772114~~, TB 772115, TB 772116, TB ~~772117~~, TB 772118,
TB 772119, TB ~~772120~~, TB ~~772121~~, TB ~~772122~~, TB ~~772123~~, TB 772124,
TB ~~772125~~, TB ~~772126~~, TB ~~772127~~, TB 772128, TB 772129, TB ~~772130~~,
TB ~~772131~~, TB 772132, TB ~~772133~~

covered 772031
035 to 038 inc
040 - 041
043
052-053
056-057
059
064 to 066 inc
068
071 to 073 inc
077 to 079 inc
081 - 082
084 to 088 inc
111
114
117
120 to 123 inc
125 to 127 inc
130 - 131
133

$$24 \times 7 = 168 \div 43 = 3.9 \text{ day/claim chem.}$$

Mining Lands Comments

- ① - IS THE MAP SCALE ADEQUATE FOR RECONNAISSANCE MAPPING?
- ② - IS THIS NEW MAPPING OR A RECAPITULATION OF ODM GEOL. MAP 1955-2?
- ③ - HOW SHOULD TIME CLAIMED BE SPLIT BETWEEN GEOL. AND GEOCHEM. AS THE DATES ON THE BREAKDOWN OVERLAP?
- ④ DO THESE MANDAYS SEEM EXCESSIVE AS REGARDS THE MAPPING AND REPORT WRITING? ^(a) ^(b)
- ⑤ SHOULD THIS BE MORE PROPERLY ASSESSED AS A PROPERTY EVALUATION UNDER 77(19) INSTEAD OF GEOLOGY, ^{AND GEOCHEMISTRY} CREDITS? - DOUG

To: Geophysics

Comments

Approved Wish to see again with corrections Date Signature

To: Geology - Expenditures C. KUSTRA

Comments

Doug: ① map scale OK for purpose of survey ✓

② both; report reads as if the ground was walked. Map shows changes to map 1955-2 geology

③ Aug 10 - Sept 3 = 25 days geol = 13 / geoch = 12 / 25 days

I think this is OK.

④ ^(a) field mapping time, sampling, packaging of samples -

Approved Wish to see again with corrections Date NOV. 20/84 Signature C. Kustra

To: Geochemistry seems OK; maybe high a bit.

Comments

(b) report writing, library research, - 22 days - on the high side but not worth arguing about

LD ⑤ it could

Approved Wish to see again with corrections Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1. Type of Survey GEOLOGICAL

2. Township or Area O'Sullivan Lake area

3. Numbers of Mining Claims Traversed by Survey see attached sheet

4. Number of Miles of Line Cut _____ Flown _____

*5. Number of Stations Established _____

*6. Make and type of Instrument Used _____

*7. Scale Constant or Sensitivity _____

*8. Frequency Used and Power Output _____

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) 53

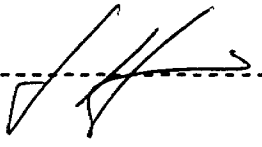
Total 8 hour Line-Cutting Days _____

Calculation

$$\frac{53}{\text{Technical}} \times 7 = \frac{371}{\text{Line-cutting}} = \frac{371}{\text{Number of claims}} = \frac{3.4}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
If otherwise, please explain _____

Dated: Oct. 28 1984

Signed: 

- Note: (A) * Complete only if applicable.
- (B) Complete list of names, addresses and dates on reverse side.
- (C) Submit separate breakdown for each type of survey.
- (D) Submit in duplicate.

Details of Assessment Work Breakdown

GEOLOGICAL

FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
geological mapping	J. Hinzer & A. Hinzer	Aug. 10 - Sept. 3 / 83	13
	7025 Barker St. Niagara Falls Ont.		13
		Total.	26

CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>
J. B. Hinzer	7025 Barker St. Niagara Falls Ont.	Sept 10 - Sept. 31 / 83
		22

DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
D. Kelsall	30 Thelma Ave #310	Sept. 15, 16, 1983	2
Drafting	Toronto Ont.	Oct. 28, 1984	1
L. Beaudoin	90 1608-330 Bay St. Toronto	Sept. 26-28 / 1983	2
Typing			
TOTAL 8 HOUR TECHNICAL DAYS			53

LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
TOTAL 8 HOUR LINE-CUTTING DAYS			

Details of Assessment Work Breakdown

GEOLOGICAL

FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
geological mapping	J. Hinzer & A. Hinzer	Aug 10 - Sept 3 / 83	13
	7075 Barker St. Niagara Falls Ont.		13
		Tot.	26

CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>
J. B. Hinzer	7075 Barker St. Niagara Falls Ont.	Sept 10 - Sept 31 / 83
		22

DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
D. Kelsall	30 Thelma Ave #310	Sept 15, 16, 1983	2
Drafting	Toronto Ont.	Oct 28, 1984	1
L. Beaudoin	1608-330 Bay St. Toronto	Sept 26-28 / 1983	2
Typing			
TOTAL 8 HOUR TECHNICAL DAYS			53

LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>

TOTAL 8 HOUR LINE-CUTTING DAYS

Claim numbers

TB 772014, TB 772015, TB 772016, TB 772017, TB 772018, TB 772019,
TB 772020, TB 772021, TB 772022, TB 772023, TB 772024, TB 772025,
TB 772026, TB 772027, TB 772028, TB 772029, TB 772030, TB 772031,
TB 772032, TB 772033, TB 772034, TB 772035, TB 772036, TB 772037,
TB 772038, TB 772039, TB 772040, TB 772041, TB 772042, TB 772043,
TB 772044, TB 772045, TB 772046, TB 772047, TB 772048, TB 772049,
TB 772050, TB 772051, TB 772052, TB 772053, TB 772054, TB 772055,
TB 772056, TB 772057, TB 772058, TB 772059, TB 772060, TB 772061,
TB 772062, TB 772063, TB 772064, TB 772065, TB 772066, TB 772067,
TB 772068, TB 772069, TB 772070, TB 772071, TB 772072, TB 772073,
TB 772074, TB 772075, TB 772076, TB 772077, TB 772078, TB 772079,
TB 772080, TB 772081, TB 772082, TB 772084, TB 772085, TB 772086,
TB 772087, TB 772088, TB 772089, TB 772090, TB 772091, TB 772092,
TB 772093, TB 772094, TB 772095, TB 772104, TB 772105, TB 772106,
TB 772107, TB 772108, TB 772109, TB 772110, TB 772111, TB 772112,
TB 772113, TB 772114, TB 772115, TB 772116, TB 772117, TB 772118,
TB 772119, TB 772120, TB 772121, TB 772122, TB 772123, TB 772124,
TB 772125, TB 772126, TB 772127, TB 772128, TB 772129, TB 772130,
TB 772131, TB 772132, TB 772133



1. Type of Survey GEOCHEMICAL
2. Township or Area O. Sullivan Lake Area
3. Numbers of Mining Claims Traversed by Survey See attached sheet
4. Number of Miles of Line Cut _____ Flown _____
- *5. Number of Stations Established _____
- *6. Make and type of Instrument Used _____
- *7. Scale Constant or Sensitivity _____
- *8. Frequency Used and Power Output _____

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) 24

Total 8 hour Line-Cutting Days _____

Calculation

$$\frac{24}{\text{Technical}} \times 7 = \frac{168}{\text{Line-cutting}} + \frac{168}{\text{Line-cutting}} \div \frac{110}{\text{Number of claims}} = \frac{1.5}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
If otherwise, please explain _____

Dated: Oct. 28 1984

Signed: 

- Note: (A) * Complete only if applicable.
(B) Complete list of names, addresses and dates on reverse side.
(C) Submit separate breakdown for each type of survey.
(D) Submit in duplicate.

Details of Assessment Work Breakdown

GEOCHEMICAL

FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
rock geochemical sampling	J. Hinzer 7005 Barker St. Niagara Falls Ont.	Aug 10 - Sept 3/84	12
"	A. Hinzer " " "	" " "	12
Total			24

CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>
J. Hinzer 7005 Barker St. Niagara Falls Ont.	Sept. 10 - 31/84	see geological

DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
			see geological

TOTAL 8 HOUR TECHNICAL DAYS 24

LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>

TOTAL 8 HOUR LINE-CUTTING DAYS _____

Details of Assessment Work Breakdown

GEOCHEMICAL

FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
rock geochemical sampling	J. Hinzer 7005 Barker St	Niagara Falls Ont. Aug 10 - Sept 3/84	12
"	A. Hinzer " "	" " " "	12
Total			24

CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>
J. Hinzer 7005 Barker St	Niagara Falls Ont. Sept. 10 - 31/84	see geological

DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
			see geological

TOTAL 8 HOUR TECHNICAL DAYS 24

LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>

TOTAL 8 HOUR LINE-CUTTING DAYS _____

Claim numbers

TB 772014, TB 772015, TB 772016, TB 772017, TB 772018, TB 772019,
TB 772020, TB 772021, TB 772022, TB 772023, TB 772024, TB 772025,
TB 772026, TB 772027, TB 772028, TB 772029, TB 772030, TB 772031,
TB 772032, TB 772033, TB 772034, TB 772035, TB 772036, TB 772037,
TB 772038, TB 772039, TB 772040, TB 772041, TB 772042, TB 772043,
TB 772044, TB 772045, TB 772046, TB 772047, TB 772048, TB 772049,
TB 772050, TB 772051, TB 772052, TB 772053, TB 772054, TB 772055,
TB 772056, TB 772057, TB 772058, TB 772059, TB 772060, TB 772061,
TB 772062, TB 772063, TB 772064, TB 772065, TB 772066, TB 772067,
TB 772068, TB 772069, TB 772070, TB 772071, TB 772072, TB 772073,
TB 772074, TB 772075, TB 772076, TB 772077, TB 772078, TB 772079,
TB 772080, TB 772081, TB 772082, TB 772084, TB 772085, TB 772086,
TB 772087, TB 772088, TB 772089, TB 772090, TB 772091, TB 772092,
TB 772093, TB 772094, TB 772095, TB 772104, TB 772105, TB 772106,
TB 772107, TB 772108, TB 772109, TB 772110, TB 772111, TB 772112,
TB 772113, TB 772114, TB 772115, TB 772116, TB 772117, TB 772118,
TB 772119, TB 772120, TB 772121, TB 772122, TB 772123, TB 772124,
TB 772125, TB 772126, TB 772127, TB 772128, TB 772129, TB 772130,
TB 772131, TB 772132, TB 772133

REGISTERED

October 15, 1984

File: 2.6868

J.B. Hinzer
7005 Barker Street
Niagara Falls, Ontario
L2G 1Z5

Dear Sir:

RE: Geological and Geochemical Survey
submitted on Mining Claims TB 772014
et al in the Area of O'Sullivan Lake

Enclosed is a copy of our letter dated August 1, 1984
requesting additional information for the above-mentioned
survey.

Unless you can provide the required data by October 30, 1984
the mining recorder will be directed to cancel the work credits
recorded on June 12, 1984.

For further information, please contact Mr. Ray Pichette
at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

S. Hurst:mc

cc: Mining Recorder
Thunder Bay, Ontario

Encl.

August 1, 1984

Our File: 2.6868

J.B. Hinzer
7005 Barker Street
Niagara Falls, Ontario
L2G 1Z5

Dear Sir:

RE: Geological and Geochemical Surveys submitted
on Mining Claims TB 772014 et al in the
O'Sullivan Lake Area

Enclosed are the plans for the above-mentioned surveys.
They are not acceptable for assessment credit in their
present form for the following reasons;

- 1) geological and geochemical plans should be drawn on a scale of not more than five hundred (500) and not less than one hundred feet (100) to one inch ✓
- 2) claim lines and claim numbers should be indicated ✓
- 3) maps should be signed by the author of the report ✓

Also enclosed are two Assessment Work Breakdown forms. ✓
Please fill one out for each survey.

Only one copy of the technical report and plans were received by this office and duplicates are required. ✓

Please forward one copy of the report and the Work Breakdown forms, and two copies of the amended maps to this office quoting file 2.6868.

For further information, please contact Mr. Ray Pichette at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario M7A 1W3

D. Isherwood:mc

cc: Mining Recorder - Thunder Bay, Ontario
Encl.

client called on 8-1-84
Sept. 30 Receipt
allow till Sept. 30 for receipt of data
R.

1984 07 10

Your File: 273
Our File: 2.6868

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

We have received reports and maps for a Geological and Geochemical Survey submitted on Mining Claims TB 772014 et al in the Area of O'Sullivan Lake,

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-1380

A. Barr:sc

cc: J.B. Hinzer
7005 Baker Street
Niagara Falls, Ontario
L2G 1Z5

1985 01 04

Your File: 273
Our File: 2.6868

Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Notice of Intent dated December 11, 1984
Geological and Geochemical Survey on
Mining Claims TB 772014 et al in the Area
of O'Sullivan Lake

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

D. Kinvig:mc

cc: J.B. Minzer
7005 Barker Street
Niagara Falls, Ontario
L2G 1Z5

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Thunder Bay, Ontario

Encl.



Recorded Holder
J.B. HINZER

Township or Area
O'SULLIVAN LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ 4 _____ days Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input checked="" type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	TB 772031 772035 to 038 inclusive 772040-041 772043 772052-053 772056-057 772059 772064 to 066 772068 772071 to 073 inclusive 772077 to 079 772081-082 772084 to 088 inclusive 772111 772114 772117 772120 to 123 inclusive 772125 to 127 inclusive 772130-131 772133

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

<input checked="" type="checkbox"/> not sufficiently covered by the survey TB 772014 to 030 inclusive 772032 to 034 inclusive 772039 772042 772044 to 051 inclusive 772054-055 772058 772060 to 063 inclusive 772067 772069-070	<input type="checkbox"/> Insufficient technical data filed TB 772074 to 076 inclusive 772080 772089 to 095 inclusive 772104 to 110 inclusive 772112-113 772115-116 772118-119 772124 772128-129 772132
---	--

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:



Ontario

Ministry of
Natural
Resources

Technical Assessment Work Credits

File
2.6868

Date
1984 12 11

Mining Recorder's Report of
Work No. 273

Recorded Holder	J.B. HINZER
Township or Area	O'SULLIVAN LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 4 _____ days Geochemical _____ days Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input checked="" type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	TB 772014 to 082 inclusive 772084 to 095 inclusive 772104 to 107 inclusive 772111 772113 to 133 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

TB 772108 to 110 inclusive
772112

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—80;



DEC 27, 1984.

1984 12 11

Your File: 273
Our File: 2.6868

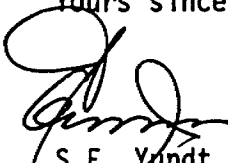
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,


S.E. Yandt
Director

Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

R.D. Isherwood:mc

Encls.

cc: J.B. Hinzler
7005 Barker Street
Niagara Falls, Ontario
L2G 1Z5

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

FILE

- Assay receipts to come to us. Will be filing P.O. of W. for costs. D.K. - Dec. 13/84



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports

1984 12 11

2.6868/273

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

1985 01 21

Your File: 693
Our File: 2.6868

Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Assaying submitted under Section 77(19)
of the Mining Act RSO 1980, on Mining
Claims TB 772031, et al, in the Area
of O'Sullivan Lake

The enclosed statement of assessment work credits
for assaying expenditures has been approved as of
the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

D. Kinvig:mc

cc: J.B. Hinzler
7005 Barker Street
Niagara Falls, Ontario
L2G 1Z5

cc: Resident Geologist
Thunder Bay, Ontario

Encl.

Recorded Holder **J.B. HINZER**
 Township or Area **O'SULLIVAN LAKE AREA**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic _____ days</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological _____ days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input type="checkbox"/> Ground <input type="checkbox"/></p> <p><input type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>\$2370.65 SPENT ON ASSAYING OF SAMPLES TAKEN FROM MINING CLAIMS: TB 772031 772035 to 038 inclusive 772040-041 772043 772052-053 772056-057 772059 772064 to 066 772068 772071 to 073 inclusive 772077 to 079 inclusive 772081-082 772084 to 088 inclusive 772111 772114 772117 772120 to 123 inclusive 772125 to 127 inclusive 772130-131 772133</p> <p>158 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT.</p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey
 Insufficient technical data filed

Mining Lands Section

File No 2.6868

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 ✓ GEOLOGICAL
 ↓ GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

- no duplicate report - must ask for it.
- map at wrong scale
- added in the numbers.
- not reviewed
- map adapted from published map?

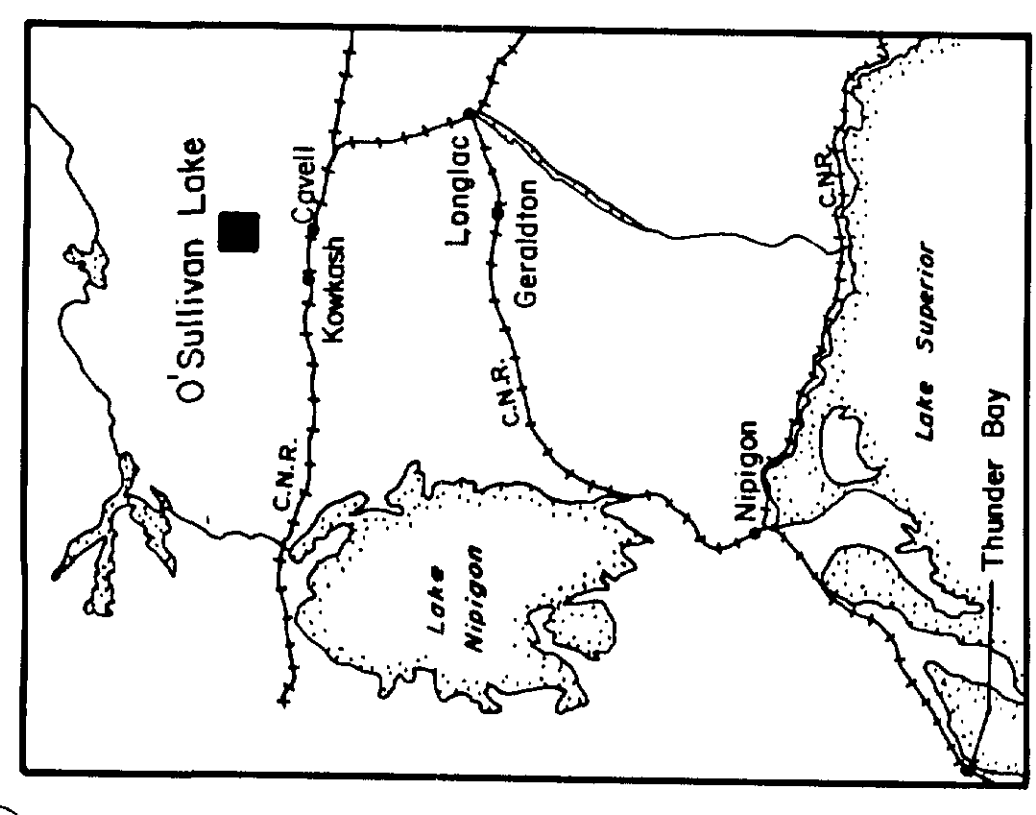
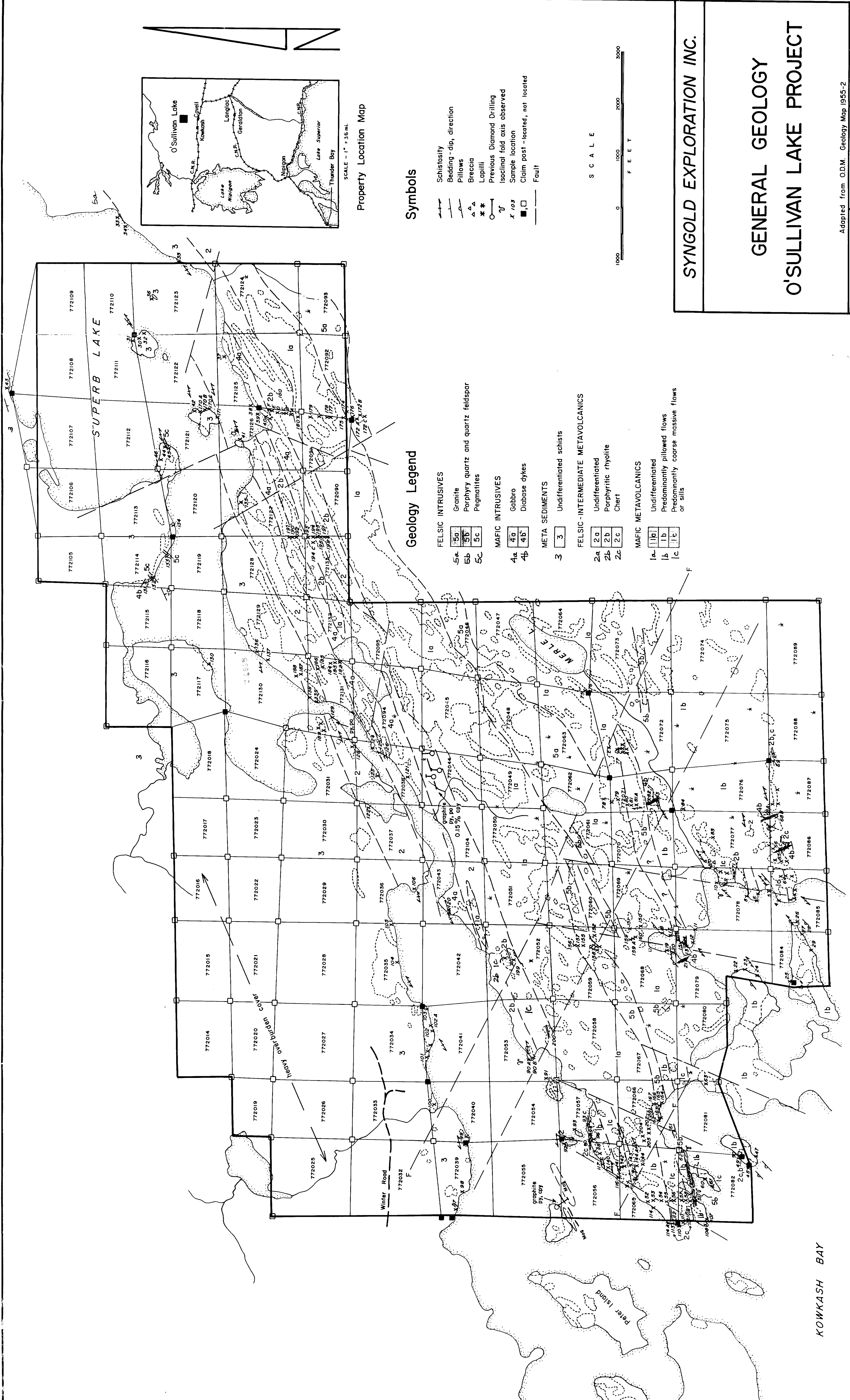
L.D. Lgd.

D. King

Signature of Assessor

Dec. 11/84

Date



SCALE - 1" = 3.5 mi.

Property Location Map

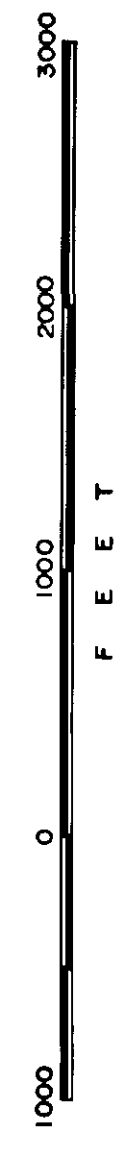
Geology Legend

- FELSIC INTRUSIVES**
 - 5a Granite
 - 5b Porphyry quartz and quartz feldspar
 - 5c Pegmatites
- MAFIC INTRUSIVES**
 - 4a Gabbro
 - 4b Diabase dykes
- META SEDIMENTS**
 - 3 Undifferentiated schists
- FELSIC - INTERMEDIATE METAVOLCANICS**
 - 2a Undifferentiated
 - 2b Porphyritic rhyolite
 - 2c Chert
- MAFIC METAVOLCANICS**
 - 1a Undifferentiated
 - 1b Predominantly pillowed flows
 - 1c Predominantly coarse massive flows or sills

Symbols

- Schistosity
- Bedding - dip, direction
- Pillows
- Breccia
- Lapilli
- Previous Diamond Drilling
- Isoclinal fold axis observed
- Sample location
- Claim post - located, not located
- Fault

S C A L E



SYNGOLD EXPLORATION INC.

**GENERAL GEOLOGY
O'SULLIVAN LAKE PROJECT**

KOWKASH BAY

Adapted from O.D.M. Geology Map 1955-2

Geology by: J.B. Hinzler

Date: Nov. 1983

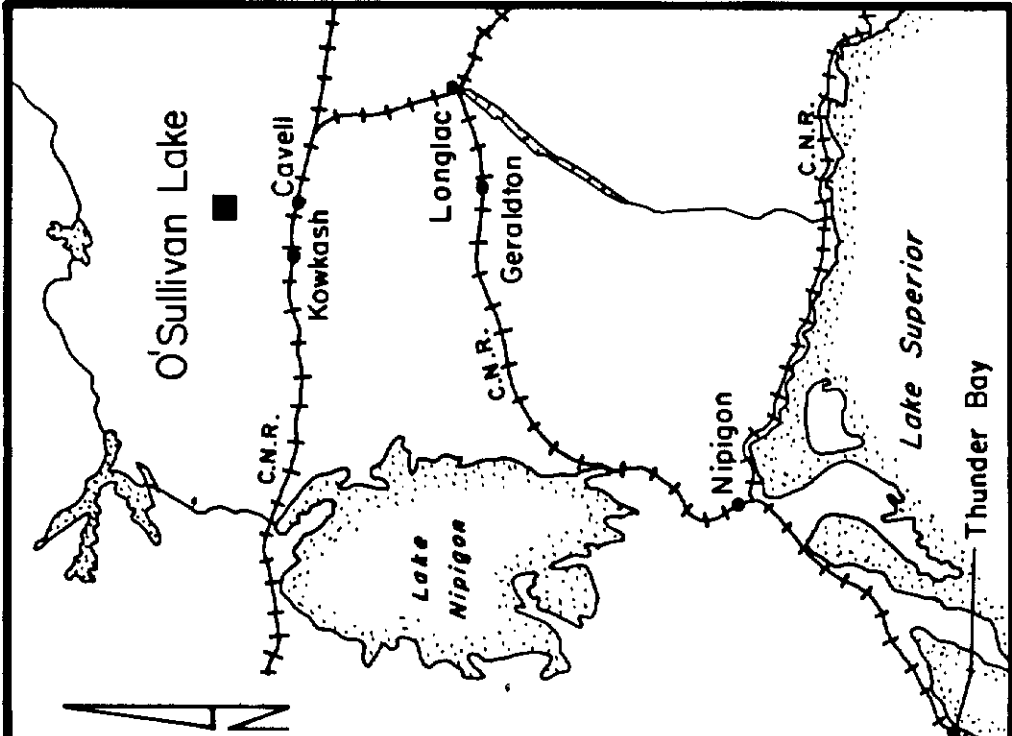
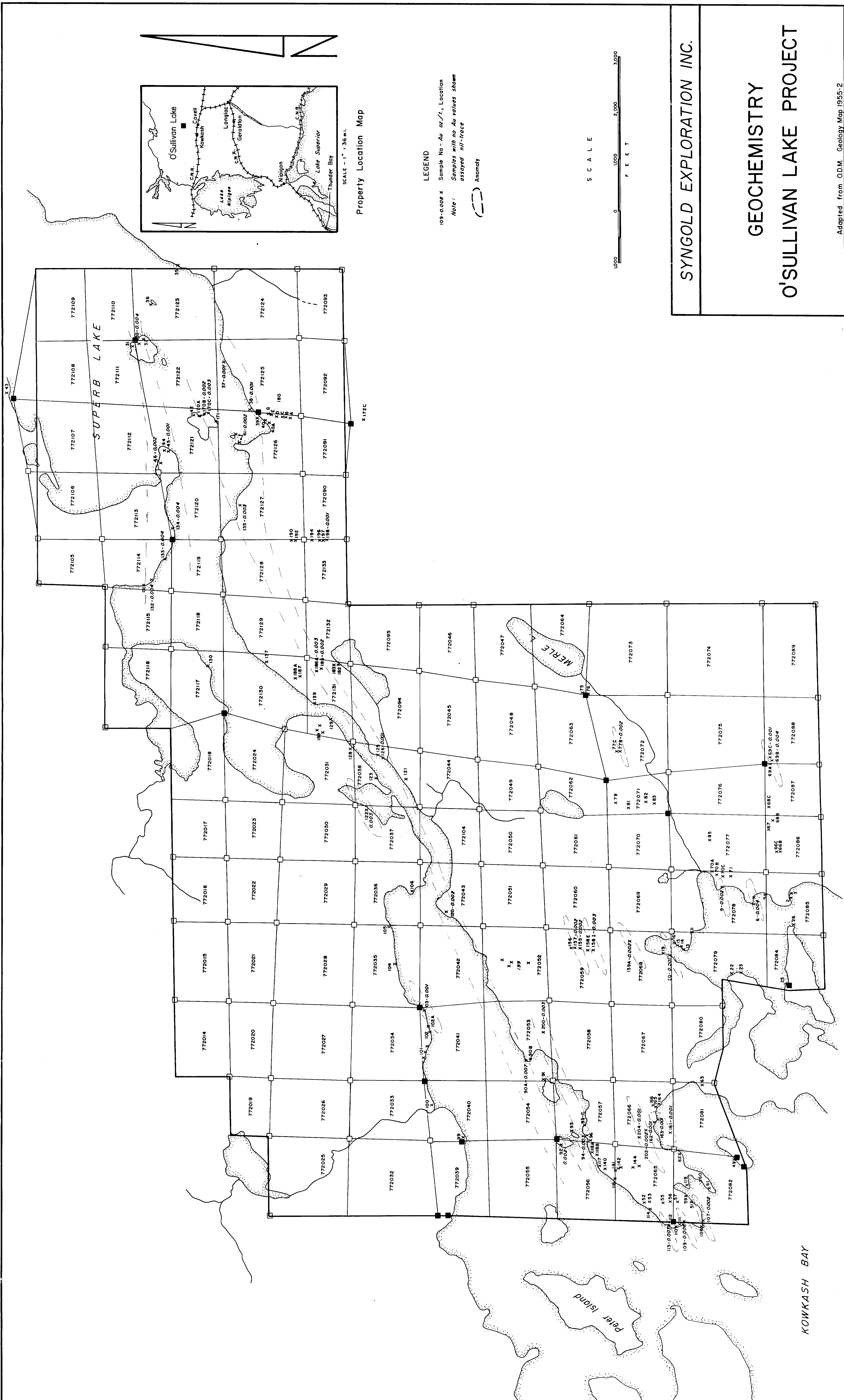
SCALE: 1" = 700'

Map no.: I.

Drawn by: D. Keisall



200

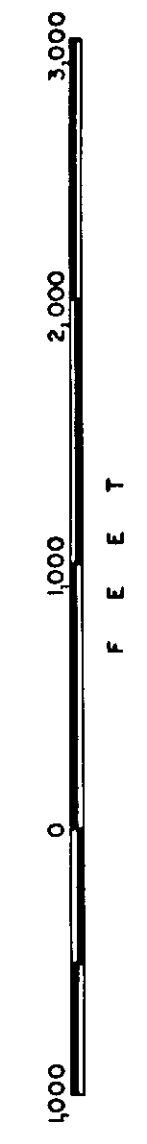


Property Location Map
SCALE - 1" = 3.6 mi.

LEGEND

- 109-0.008 X Sample No - Au. oz./t., Location
- Note: Samples with no Au values shown
- assayed nil-trace
- Anomaly

SCALE



SYNGOLD EXPLORATION INC.

GEOCHEMISTRY

O'SULLIVAN LAKE PROJECT

Adapted from O.D.M. Geology Map 1955-2

Survey by: J.B. Hinzer
Date: Nov. 1983
Drawn by: J. Breton

Map no.: 3

