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REPORT
 ON
 DIAMOND DRILLING
 KASAGIMINNIS LAKE PROPERTY
 KENORA MINING DIVISION
 PATRICIA PORTION
 ONTARIO
 FOR
 POWER EXPLORATIONS INC.

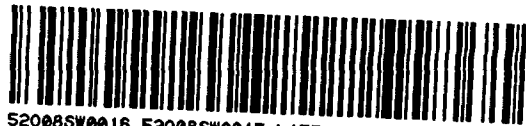
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March, 1987

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1.0 SUMMARY

The Kasagiminnis Lake Property held under a Joint Venture Agreement between Moss Resources Ltd. and Power Explorations Inc. is located 16 miles south-southwest of the town of Pickle Lake in the Dempster - Pickle Lakes greenstone belt.

During the current diamond drilling program, intersections of potentially economic gold mineralization were obtained in 3 holes. The results of the present program suggest that the gold mineralization encountered may be associated with geophysically indicated fault-shear structures warranting further exploration.

A three-phase exploration program is recommended for the property. Phase I of the proposed program would involve an induced polarization survey over selected areas, followed by trenching and mapping to define additional structures and horizons with potential for gold mineralization. Phase II would involve 6,000 feet of diamond drilling. Phase III would consist of additional diamond drilling contingent upon the results of Phases I and II.

2.0 INTRODUCTION

The following report describes the results of the 1986-87 diamond drilling program on the Kasagiminnis Lake Property in the Ochig Lake Area, Ontario. The property is located 16 miles south-southwest of the town of Pickle Lake (Fig. No. 1) in the Patricia Mining Division, District of Kenora, Northwestern Ontario.

The present program was carried out by Geocanex Ltd. Concurrently, geophysical surveys including ground magnetics and VLF-EM were carried out over the lake portions of the property. Midwest Drilling was the diamond drilling contractor.

The property consists of 80 contiguous mining claims. All work was done on a cut picket line grid. The grid has an east-west trending baseline with perpendicular lines cut at 400 foot intervals across the strike of the local stratigraphy. Several tie lines were cut to ensure control on long picket lines.

The personnel involved in the program were:

R. Higginson	Geologist, Party Chief	Oro Stn., Ont.
L. Jones	Geologist	Collingwood, Ont.
J. Drew	Field Assistant	North Bay, Ont.
S. Morton	Field Assistant	Coldwater, Ont.

Drill targets were chosen from compiled geological, geochemical and geophysical data obtained during the 1986 summer programs. Quartz veining, alteration (shear-fault

zones) and mineralized horizons were sampled February 28, from the drill core and submitted for assay. All sample descriptions and assays as well as detailed drill logs and drill sections are included in this report.

The present drill program was carried out between December 10 to 20, 1986 and January 6 to March 2, 1987.

The property is on strike with, and six miles to the east of, Lac Minerals - Hasaga Property which has reported reserves of 200,000 tons of ore grading 0.19 ounces of gold per ton.

3.0 PROPERTY DESCRIPTION

The Kasaqiminnis Lake property consists of 80 contiguous mining claims in the Ochig Lake area, Patricia Mining Division, Northwestern Ontario (Fig. No. 2). The claim numbers and recording dates are as follows:

<u>Claim Numbers</u>		<u>Recording Date</u>
Pa 786788 - 786812 inclusive	(25)	April 30, 1984
Pa 786827 - 786836 inclusive	(10)	April 30, 1984
Pa 786841	(1)	April 30, 1984
Pa 786843	(1)	April 30, 1984
Pa 786849	(1)	April 30, 1984
Pa 769510 - 769524 inclusive	(15)	April 30, 1984

769535 - 769554 inclusive	(20)	April 30, 1984
786858 - 786862 inclusive	(5)	April 30, 1984
769574, 769575	<u>(2)</u>	April 30, 1984
Total 80 Claims		

The claims are held under a Joint Venture Agreement between Moss Resources Ltd. and Power Explorations Inc., of 804-34 King Street East, Toronto, Ontario, M5C 1E5.

4.0 LOCATION ACCESS AND SERVICES

The northern most boundary of the property is approximately 16 miles south-southwest of the town of Pickle Lake. The eastern boundary is approximately 3.5 miles west of Highway 599 at the northern boundary of the Osnaburgh Indian Reserve (No. 63B) and 4.5 miles northwest of the Indian settlement of New Osnaburgh.

The property can be reached by float/ski plane or helicopter from Pickle Lake, or by winter road from Highway 599, four miles north of the boundary of the Osnaburgh Indian Reserve.

Pickle Lake is a mining and transportation centre with a population of approximately 350. UMEX (Union Miniere) operates a 4,000 TPD copper-nickel mine and concentrator, seven miles northwest of Pickle Lake with 14,000,000 tons of ore grading 1.6% copper and 0.2% nickel. The mine is presently closed due to depressed base metal prices. Consequently, there is abundant vacant housing in town.

Pickle Lake is connected by paved Highway 599 to Savant Lake and the Canadian National transcontinental railway line, 90 miles to the south, and Ignace and Trans Canada Highway 17, 180 miles south. Electricity is supplied by a hydro line connecting Pickle Lake to Ear Falls generating station. Air, ground and water transportation for local use are readily available in town. Pickle Lake is also serviced by regular NorOntair flights from Thunder Bay.

5.0 PHYSIOGRAPHY AND VEGETATION

Outcrop exposure constitutes 7 to 10% of the property, which is extensively covered with glacial/fluviol material consisting primarily of sand and boulders. Eskers, drum-linoid ridges and sandhills cover most of the property. Vegetation on the overburden varies from open poplar to thick birch, spruce and alder forests. Low lying areas and submerged sand plains are poorly drained with muskeg, black spruce, or cedar and alder swamps.

A more detailed analysis of the surficial geology can be obtained from Paradis and Rampton, 1986., and the geology maps (map pocket).

6.0 PREVIOUS WORK

Little previous work has been done on the property. In the early 1970's, the property was covered by a regional airborne geophysical survey for UMEX. This company

subsequently drilled two anomalies on the property. No assay results were reported.

In 1984 Moss Resources Lt. staked the current claim group. An airborne VLF-EM and magnetics survey by Terraquest Ltd. covered the property in 1985.

In the spring of 1986, Moss Resources Ltd. signed a Joint Venture Agreement with Power Explorations Inc. Subsequently, Geocanex Ltd. was contracted to complete mapping and geophysical programs which were undertaken during the summer of 1986 (Higginson, 1986, Medd, 1986).

7.0 REGIONAL GEOLOGY AND ECONOMIC MINERALIZATION

The Pickle Lake area is located within the Uchi Subprovince, a part of the Superior Province of the Canadian Shield. The area is characterized by several arcuate, highly deformed and coalescing greenstone belts, consisting of predominantly mafic to intermediate volcanic flows, which have been intruded by numerous granitic to ultramafic intrusive bodies. The metamorphic grade ranges from greenschist-to-amphibolite facies. The volcanics host subordinate amounts of felsic to mafic pyroclastics, sediments and iron formation. Felsic quartz-feldspar porphyry dykes are commonly found in all lithologies.

Ultramafic rocks host copper-nickel mineralization at the Union Miniere Thierry Mine, seven miles northwest of Pickle Lake, with mined ore and mineral reserves totalling 14,000,000 tons grading 1.6% copper and 0.2% nickel.

Historically, gold production in the Pickle Lake area has been from structurally controlled vein type deposits or sulphide replacement bodies spatially associated with, or contained within, bands of Algoman (chert-magnetite) iron formation.

The former producing Pickle Crow and Central Patricia mines operated from 1935 to 1966 and 1934 to 1951, respectively, collectively producing 2,068,020 ounces of gold from 4,966,820 tons of ore for an average grade of 0.416 ounces of gold per ton. Gold was recovered from quartz veins, vein networks and sulphide replacement bodies which occupied shears, faults, fissures and fold axial plane fractures in highly deformed mafic volcanics and iron formation. Gold-bearing quartz veins were also mined within quartz-albite porphyry sills near the contact of mafic volcanics and iron formation.

Dome Mines and St. Joe Canada both recently announced their intentions to open new mines in the Pickle Lake area. Dome Mines' Dona Lake property has reported reserves of 1,500,000 tons grading 0.3 ounces of gold per ton. Gold mineralization occurs as sulphide replacement bodies within a band of highly deformed oxide facies iron formation (Northern Miner, September, 1986). The mine is expected to produce approximately 40,000 ounces of gold per year over a 10 year period.

St. Joe Canada's Golden Patricia property is reported to have an estimated 500,000 ounces of gold reserves with a grade of 0.58 ounces of gold per ton. The gold mineralization occurs in a quartz vein at a contact between a

mylonitized unit and sheared mafic volcanics in close proximity to banded iron formation (Northern Miner Magazine, September, 1986). The initial mining project has drill indicated reserves of 283,000 tons grading 0.88 ounces per ton and is expected to produce 40,000 ounces of gold annually (Northern Miner, March 23, 1987).

8.0 PROPERTY GEOLOGY

The Kasagiminnis Lake property is located in the Dempster-Pickle Lake greenstone belt which trends roughly east-west and joins the Pickle Lake belt to the east, and the Meen-Dempster Lakes belt to the west. The property is underlain by a complex sequence of mafic-to-intermediate flows, mafic-to-felsic pyroclastics, sediments and possible iron formation. This sequence has been intruded by numerous small gabbroic bodies, granite pegmatite dykes and minor felsic dykes. The portion of the belt exposed on the property has been compressed between two granitic bodies, the Kasagiminnis Lake and Carling Granite Plutons on the north and south, respectively, resulting in a narrowing of the belt to approximately one mile in width. High angle faults, interpreted from geological and geophysical data, crosscut the volcano-sedimentary sequence and trend northeast-southwest and northwest-southeast. Pervasive shearing and small scale folding is probably related to a regional tectonic event.

9.0 GEOPHYSICAL SUMMARY

Medd (1986) summarizes the property geophysics as follows:

Magnetic and VLF-EM data indicate two general types of lithologies. The first type is characterized by relatively high magnetic and conductive background. This type may further be differentiated into three subtypes on the basis of amplitude of magnetic response. Collectively, these three subtypes are interpreted as representing (1) iron formations, (2) iron rich mafic metavolcanics, and (3) intermediate to mafic metavolcanics hosting (1) and (2). The second type of lithology is characterized by low magnetic and conductive responses, possibly due to felsic metavolcanics or granite intrusive bodies.

Several east-west conductors are associated with the first type of lithology described above and probably represent stratabound pyrrhotite-pyrite mineralization in iron-formation and intermediate to mafic tuffs.

On the basis of magnetic discontinuities, several faults striking north-northwest have been inferred. Also indicated is a north-northeast fault and a north-south fault.

10.0 DIAMOND DRILLING PROGRAM

10.1 Description of Program

The present diamond drilling program was contracted to Midwest Drilling of Winnipeg, Manitoba which completed 39 B.Q. size diamond drill holes totalling 12,424 feet. The drilling was carried out between December 12 to 20, 1986, and January 7 to February 28, 1987, under the supervision of Geocanex Ltd.

Midwest provided room and board on site for both geological and drill crews. The camp was supplied by helicopter and ski-plane from Pickle Lake as well as a winter road from Highway 599.

Detailed core logging was followed by sampling of favourable horizons. Samples consisted of halved core taken over measured intervals of 0.5 to 5.0 feet. Core samples were analyzed by three separate laboratories over the course of the program. The laboratories involved were:

Cochenour Fire Assay, Red Lake
Custom Fire Assay, Cochenour
Bondar-Clegg and Co. Ltd., Ottawa

All samples were analyzed for gold using fire assay techniques. All values were reported in ounces per ton. Where significant values were obtained, pulps were reassayed or the core was quartered and resubmitted for analysis.

Hole locations and assay highlights are shown on Figure No. 3. Detailed logs with assay results are compiled in Appendix C. Drill sections and legend are shown in Appendix D. All assay certificates are compiled in Appendix E.

10.2 Discussion of Results

During the present program, three significant intersections were obtained. The intersections are of economic grade and over varying widths. The intersections are listed below:

- 1) A 38.9 foot interval in hole KAS-87-3 returned initial and repeat values ranging from 0.01 to 0.23 ounces gold per ton, in magnetite rich metasediments.

Check holes KAS-87-25 and 26 placed 200 feet along strike to the east and west returned no significant values.

- 2) A 13.9 foot interval in hole KAS-87-6 returned values of 0.58 ounces gold per ton over 4.7 feet and 1.40 ounces per ton over 4.2 feet in a sulphide zone at the contact of mafic flows and felsic tuff.

Repeat samples of the same horizon returned only trace gold values as did samples of the same horizon taken in check holes KAS-87-35 and 36.

The initial high values obtained may represent either; a) contamination of the samples from outside sources, or; b) may indicate that gold mineralization is sparsely disseminated throughout the zone as "nuggets".

- 3) An intersection in hole KAS-87-31 returned 0.32 ounces gold per ton over 1.0 feet and is related to a 0.2 foot quartz-tourmaline vein hosted in intermediate tuff.

Of less significance but notable is hole KAS-87-4. Low (0.01 - 0.02 ounces per ton) gold values were obtained in several intersections as well as several grab samples taken during field mapping (Higginson, 1986).

A further listing of all 39 diamond drill holes and a summary of the logs is presented in Table 1.

TABLE 1 - SUMMARY OF DIAMOND DRILLING RESULTS

HOLE #	LOCATION	LENGTH (feet)	GENERAL GEOLOGY	ASSAY #	OUNCES/TON GOLD	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-86-1	48+00W, 18+90N	267	Volcanic sequence with alternating mafic flows, mafic tuff and amphibolite. Lower contact is marked by graphitic siltstone followed by intermediate to felsic tuffs.	17008	.01	135.9	139.5	3.6	Highly fractured and altered mafic volcanic with quartz-carbonate-epidote alteration.
KAS-86-2	51+99W, 1+89N	317	Volcanic sequence with intermediate flows near top changing to mafic flows and tuffs down-hole, several narrow felsic intrusives crosscut the volcanics.	17023	.01	117.0	119.2	2.2	Brecciated cherty-mafic tuff.
				17029	.01	167.7	170.9	3.2	Felsic (granitic) intrusive.
				17030	.02	172.9	174.5	1.6	Quartz-tourmaline vein in mafic flows
				17034	.01	222.1	223.7	1.6	Quartz vein in mafic flows
				17038	.01	260.7	263.7	3.0	Two to 3% pyrrhotite in mafic tuff
KAS-86-3	47+98W, 3+48S	347	Intermediate to mafic flows overlies interbedded mafic to felsic pyroclastics.	17050	.01	212.0	217.0	5.0	Interbedded mafic to felsic tuffs
				17054	.01	242.0	244.4	5.0	with sporadic gold values throughout
				17055	.01	244.4	247.0	5.0	
				17063	.04	282.0	286.5	4.5	
				17064	.01	286.5	291.5	5.0	
KAS-86-4	42+00W, 3+60N	497	Volcanic sequence consisting of predominantly mafic flows with minor intermediate flows and mafic tuff.	17074	.01	172.7	173.7	1.0	Quartz stringers in mafic volcanics
				17078	.01	258.0	261.0	3.0	Ten to 15% pyrrhotite, 2 to 3% pyrite to 2% chalcopyrite in mafic volcanics
KAS-87-1	20+00W, 7+04N	267	Mafic and intermediate flows and tuffs with minor sediment bands consisting of siltstone, mudstone and argillite						

TABLE 1 - SUMMARY OF DIAMOND DRILLING RESULTS

HOLE #	LOCATION	LENGTH (feet)	GENERAL GEOLOGY	ASSAY #	OUNCES/TON GOLD		FOOTAGE			SAMPLE DESCRIPTION
					ASSAYS	CHECK ASSAYS	FROM	TO	TOTAL	
KAS-87-2	20+00W, 9+68N	207	Mafic and intermediate flows and tuffs with minor felsic tuff.	17175	.01		161.2	165.0	3.8	Intermediate tuff with trace to 3% pyrrhotite pyrite
				17177	.02		167.0	172.0	5.0	
KAS-87-3	20+02W, 13+54N	265	A thick package of felsic to intermediate tuffs overlies mafic and mafic to intermediate flows. These units are separated by a 41.8 foot interval of magnetite bearing metasediments which consist of intermixed tuffs + iron formation + siltstone. The underlying volcanics are crosscut by minor granite pegma- tite intrusives.	17220	.01	.01	132.0	133.9	1.9	130.5-172.3. Mag- netiferous meta- sediment, 3 to 5% magnetite, trace to 2% pyrite, trace to 0.5% pyrrhotite average grade <u>0.06</u> ounces per ton gold over 38.9 feet
				17221	.17	.19	133.9	135.1	1.2	
				17222	.03	.04	135.1	137.0	1.9	
				17223	.21	.23	137.0	139.2	2.2	
				17224	.04	.03	139.2	142.0	2.8	
				17225	.04	.03	142.0	147.0	5.0	
				17226	.02	.02	147.0	152.0	5.0	
				17227		tr.	152.0	157.0	5.0	
				17228		tr.	157.0	162.0	5.0	
				17229		.10	162.0	167.0	5.0	
17230		.04	167.0	170.9	3.9					
KAS-87-4	13+00W, 18+00N	307	Dominantly mafic to intermediate flows and tuffs with narrow horizons of felsic tuffs and minor flows as well as minor metasediment bands.	17242	.01		25.0	27.0	2.0	Mafic to inter- mediate volcanics with minor quartz veining
				17244	.01		30.0	33.6	3.6	
				17248	.01		42.8	47.0	3.2	
				17249	.01		47.0	48.9	1.9	
				17259	.01		99.5	104.5	5.0	
				17276	.01		217.0	220.0	3.0	
				17277	.01		232.0	234.1	2.1	
				17278	.01		234.1	235.3	1.2	
				17284	.01		252.0	257.0	5.0	
				17285	.02		257.0	258.4	1.4	
17287	.01		262.0	267.0	5.0					

TABLE 1 - SUMMARY OF DIAMOND DRILLING RESULTS

HOLE #	LOCATION	LENGTH (feet)	GENERAL GEOLOGY	ASSAY #	OUNCES/TON GOLD		FOOTAGE			SAMPLE DESCRIPTION
					ASSAYS	CHECK ASSAYS	FROM	TO	TOTAL	
KAS-87-5	19+99W, 21+52N	387	Mafic to intermediate flows and minor tuff.		.01		164.9	167.0	2.1	Quartz veining in amphibolite
KAS-87-6	25+50W, 4+15S	347	Mafic to intermediate flows overlie felsic and felsic to intermediate pyroclastics. The contact between felsics and mafics is marked by a sulphide zone with 10 to 15% pyrrhotite and 3 to 5% pyrite with massive stringers and blebs of both sulphides throughout the zone.	17387	0.58		302.3	307.0	4.7	302.3-316.2 transition-sulphide zone, gradational contact between felsic volcanics (pyroclastics) and mafic flows overall sulphide content 10 to 15% pyrrhotite, 3 to 5% pyrite
				17388	tr.		307.0	312.0	5.0	
				17389	1.40		312.0	316.2	4.2	
				3101		tr.	repeat of 17387			
				3102		tr.	repeat of 17388			
			3103		tr.	repeat of 17389				
KAS-87-7	40+00E, 2+54N	317	Intermediate and mafic flows and tuffs with varying degrees of carbonatization overlie felsic volcanics (possibly porphyritic dacite flows)	17398	.01		8.0	12.0	4.0	Intermediate tuff and flows with minor quartz veining
				17399	.03		27.0	30.0	3.0	
				17400	.01		30.0	33.4	3.4	
				17401	.01		33.4	37.0	3.6	
KAS-87-8	40+00E, 5+60N	437	Intermediate and mafic flows and tuffs.							
KAS-87-9	40+00E, 8+52N	427	A thick unit of greywacke overlies interbedded mafic flows and tuff with varying degrees of carbonatization, sericitization related to narrow shears and fault zones.							
KAS-87-10	40+00E, 12+52N	532	Interbedded mafic and intermediate tuff overlie mafic flows and greywacke							

TABLE 1 - SUMMARY OF DIAMOND DRILLING RESULTS

HOLE #	LOCATION	LENGTH (feet)	GENERAL GEOLOGY	ASSAY #	OUNCES/TON GOLD	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-87-11	32+00E, 1+89S	407	Interbedded felsic and intermediate tuffs						
KAS-87-12	19+99E, 4+18N	287	Felsic to intermediate tuffs are interbedded with intermediate to mafic flows. Sulphide rich horizons occur from 163.5 to 173.7 with 10 to 15% pyrite-pyrrhotite between 167.0 to 170.9.						
KAS-87-13	12+00E, 4+04S	397	Predominantly interbedded felsic and intermediate tuffs. With minor metasediments consisting of siltstone and mudstone. Two broad sulphide horizons occur in intermediate tuff from 87.0 to 127.0 and 147.0 to 196.0 with 3 to 5% pyrite-pyrrhotite throughout						
KAS-87-14	12+00E, 0+92S	407	Interbedded mafic to felsic tuffs host minor amounts of siltstone, mudstone and sulphide facies iron formation.						
KAS-87-15	8+00W, 21+51S	337	Predominantly interbedded mudstone and siltstone with minor felsic to intermediate tuff (5%). The sequence is cut by a 1.8 foot granite dyke.						

TABLE 1 - SUMMARY OF DIAMOND DRILLING RESULTS

HOLE #	LOCATION	LENGTH (feet)	GENERAL GEOLOGY	ASSAY #	OUNCES/TON GOLD	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-87-16	47+98E, 18+64N	632	A thick sequence of interbedded felsic to intermediate tuffs and mafic to intermediate flows.						
KAS-87-17	51+99E, 10+80N	332	Mafic flows overlie intermediate tuffs, the tuffs have numerous sericitized and epidotized horizons in association with minor faults and shears.						
KAS-87-18	52+00E, 13+15N	337	Felsic to intermediate tuffs overlie mafic and intermediate flows.						
KAS-87-19	72+00E, 7+87N	269	A thick sequence of mafic to intermediate flows and tuff overlies garnetiferous mafic to intermediate tuff, intermediate flows and felsic to intermediate tuff.						
KAS-87-20	76+00E, 19+93N	247	Sedimentary sequence consisting of wacke, mudstone, siltstone and muddy sandstone intruded by quartz-feldspar porphyries.						
KAS-87-21	88+00E, 17+77N	365	Interbedded felsic and intermediate tuffs encase a thick sequence of mafic flows.						

TABLE 1 - SUMMARY OF DIAMOND DRILLING RESULTS

HOLE #	LOCATION	LENGTH (feet)	GENERAL GEOLOGY	ASSAY #	OUNCES/TON GOLD	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-87-22	88+00E, 20+25N	365	A sequence of felsic to intermediate tuff hosts minor well banded oxide facies iron formation. This sequence grades into a lower sequence with predominantly mafic and intermediate flows and tuffs which in turn overlies felsic to intermediate tuffs intruded by minor granite pegmatite dykes.						
KAS-87-23	88+00E, 22+77N	357	Intermediate flows and tuffs intruded by quartz-feldspar porphyry sills overlie felsic to intermediate tuffs which host narrow bands of sulphide-oxide facies iron formation.	18176	.01	16.0	18.6	2.6	Intermediate volcanic with minor quartz stringers
KAS-87-24	108+00E 15+97N	265	Interbedded mafic flows, mafic tuff, intermediate flows and sediments consisting of wackes and siltstones overlie a thick sequence of mafic to intermediate flows and tuffs.						
KAS-87-25	22+03W, 13+58N	281	Felsic to intermediate flows and tuff overlie mafic flows which host several bands of sulphide-oxide facies iron formation with 0.5 to 5% pyrrhotite-pyrite and trace to 3% magnetite	18282	.01	242.5	247.0	4.5	In sulphide-oxide facies iron formation In chert bands in mafic flows
				18283	.01	247.0	248.3	1.3	
				18287	.01	262.0	267.0	5.0	

TABLE 1 - SUMMARY OF DIAMOND DRILLING RESULTS

HOLE #	LOCATION	LENGTH (feet)	GENERAL GEOLOGY	ASSAY #	OUNCES/TON GOLD	FOOTAGE			DESCRIPTION
						FROM	TO	TOTAL	
KAS-87-26	18+20W, 13+54N	297	A thick sequence of felsic and intermediate tuffs overlies mafic flows and tuff which host oxide facies iron formation.	8001	.01	42.6	43.7	1.1	Reworked - sheared intermediate tuff
KAS-87-27	48+02W, 15+55N	257	Predominantly intermediate tuff overlies a thick sequence of mafic flows.						
KAS-87-28	28+00W, 13+50N	257	Predominant intermediate tuff with minor felsic tuff overlies weakly magnetic mafic flows.						
KAS-87-29	12+00W, 20+53N	467	A thick sequence of interbedded mafic flows and tuff hosts minor bands of greywacke. The volcanics are also crosscut by minor diorite dykes.						
KAS-87-30	4+00W, 12+27N	257	Felsic to intermediate tuff overlies mafic flows which are weakly to moderately magnetic.						
KAS-87-31	12+00W, 11+01N	357	A complex sequence of felsic and intermediate tuffs, mafic flows and tuffs. The mafic flows host minor bands of oxide facies iron formation and greywacke which have been intruded by diorite dykes.	5903	.32	130.0	131.0	1.0	0.2 foot quartz-tourmaline vein in intermediate tuff
				5904	.02	131.0	132.8	1.8	Intermediate tuff contact with mafic flows

TABLE 1 - SUMMARY OF DIAMOND DRILLING RESULTS

HOLE #	LOCATION	LENGTH (feet)	GENERAL GEOLOGY	ASSAY #	OUNCES/TON GOLD	FOOTAGE			DESCRIPTION
						FROM	TO	TOTAL	
KAS-87-32	24+00E, 10+50N	327	Mafic flows alternate with thick sequences of intermediate tuff and are crosscut by minor diorite dykes. The mafic flows are weakly to moderately magnetic.						
KAS-87-33	48+00E, 29+21N	257	Granite alternates with altered intermediate or mafic volcanics in the contact aureole between the Kasagiminnis pluton and the greenstones. The sequence is crosscut by numerous diorite dykes.						
KAS-87-34	28+00S, 4+13S	347	A narrow sulphide zone marks the contact between overlying mafic to intermediate flows and underlying garnetiferous felsic tuff. As per KAS-87-6.						
KAS-87-35	22+98W, 4+15S	347	As per KAS-87-6 and KAS-87-34.						

11.0 CONCLUSIONS

During the present diamond drilling program three intersections of potentially economic gold mineralization were obtained. Compilation of available geophysical, geochemical and geological data with the results of the present program suggest the following:

- 1) The property lies on a similar stratigraphic horizon to that which hosts gold mineralization on the Hasaga property of Lac Minerals lying 6 miles to the west.
- 2) Gold mineralization on the property may be associated with several geophysically indicated fault-shear structures.
- 3) Further work is required to delineate the nature and extent of the gold mineralization encountered during the present program.

12.0 RECOMMENDATIONS

A three-phase exploration program is recommended for the property and would involve the following:

12.1 Phase I

An induced polarization survey followed by trenching and mapping to delineate the nature and extent of gold-bearing zones defined by the present program and; to delineate additional structures and horizons with potential for gold mineralization.

12.2 Phase II

A total of 6,000 feet of diamond drilling to test potentially gold-bearing structures and horizons not tested during the present program. Proposed collars are listed on Table 2.

12.3 Phase III

Additional diamond drilling contingent upon the results of Phases I and II.

TABLE II - PHASE II PROPOSED DRILL HOLE LOCATIONS
PROPOSED COLLARS

1.	L140E	25 + 00N	180°	-45	300'
2.	L132E	35 + 55N	180°	-45	250'
3.	L128E	43 + 00N	180°	-45	450'
4.	L128E	28 + 00N	180°	-45	450'
5.	L88E	42 + 00N	180°	-45	300'
6.	L64E	24 + 25N	180°	-45	500'
7.	L12E	21 + 00N	180°	-45	300'
8.	L40W	21 + 50S	180°	-45	400'
9.	L51W	29 + 50N	180°	-45	500'
10.	L14E	11 + 00N	180°	-45	350'
11.	L10E	11 + 00N	180°	-45	350'
12.	L21W	13 + 50N	180°	-45	250'
13.	L20W	15 + 00N	180°	-45	500'
14.	L19W	13 + 50N	180°	-45	250'
15.	L25 + 50W	2 + 50S	180°	-45	500'
16.	L26 + 50W	4 + 15S	180°	-45	<u>350'</u>

TOTAL FOOTAGE
PHASE II 6,000'

13.0 ESTIMATED COST OF RECOMMENDED EXPLORATION PROGRAM

13.1 Phase IA

Induced polarization survey over
selected VLF-EM axes to delineate
possible disseminated sulphide zones;
7 miles at a rate of \$1,200/line mile
all inclusive \$ 8,400.00

Phase IB

Power stripping/trenching to expose
potential gold-bearing horizons backhoe
plus operator for 10 days at a rate of
\$400 per day, all inclusive \$ 4,000.00

Surficial mapping, one geologist plus
assistant for 10 days at a rate of
\$500/day, all inclusive \$ 5,000.00

Total Cost of Phase IA and B \$17,400.00

Contingencies 20% \$ 3,480.00

Total Cost of Phase I \$20,880.00

13.2 Phase II

Diamond Drilling: 16 holes for a total of 6,000 feet at a rate of \$35/foot	\$210,000.00
Contingency 20%	<u>42,000.00</u>

Total Cost of Phase II	<u>\$252,000.00</u>
------------------------	---------------------

13.3 Phase III

Diamond Drilling: Amount and costs to
be contingent upon results of
Phase I and II

Respectfully submitted,



Per

Robert A.V. Higginson, B.Sc.
Geocanex Ltd.

14.0 REFERENCES

Barrie, Charles Q. Report on Airborne Magnetic and VLF-EM Survey, Pickle Lake area, Sioux Lookout Mining Division, Ontario for Moss Resources, T-5025, Toronto, Ontario: Terraquest Ltd., Aug. 29, 1985, unpublished.

Higginson, R. Report on Geological Mapping, Prospecting and Geochemical Sampling, Kasagiminnis Lake Property for 669977 Ontario Ltd., December 1986, unpublished.

Medd, S. Report on Magnetic and VLF-EM Surveys on the Kasagiminnis Lake Property, District of Kenora, Patricia Mining Division, Northwestern Ontario, for 669977 Ontario Ltd.; unpublished report of Geocanex Ltd.

Ontario Geological Survey, 1986. Airborne Electromagnetic and Total Intensity Magnetic Survey, Pickle Lake Area, District of Thunder Bay, Ontario; by Geoterrex Ltd. for O.G.S. Geophysical/Geochemical Series Map. 80916 Scale 1:20,000.

Ontario Geological Survey, Resident Geologists Files - Toronto and Sioux Lookout. Various unpublished assessment reports.

APPENDIX A
CERTIFICATE OF QUALIFICATIONS

CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

I am a resident of Oro Township, Ontario.

I am a graduate of the University of Waterloo, Waterloo, Ontario, with a Bachelor of Science degree (Geology).

I have worked continuously as an exploration geologist since 1984, in gold exploration in Northwestern Ontario.

I supervised the drilling program on the Kasagiminnis Lake property, from December 10, 1986 to March 2, 1987.

The statements contained in this report, and conclusions reached, are based upon the study of all relevant assessment work records of the Ontario Geological Survey, and geological reports and maps published by the Ontario Ministry of Natural Resources.

In this report, I have disclosed all relevant descriptive and interpretive material, which is, to the best of my knowledge, necessary to gain a complete understanding of the viability of the project and the recommendations.

DATED THIS DAY OF

Robert A.V. Higginson, B.Sc.
Geologist

APPENDIX B
REPORT OF WORK



Ministry of Natural Resources Report of Work

#87-106

Instructions - Supply required data on a separate form for each type of work to be recorded (see table below). For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

Assess. Lib. Assess. Lib. The Mining Act

Name and Postal Address of Recorded Holder Power Explorations Inc. 1003-34 King St. East, Toronto, Ontario M5C 1E5	Prospector's Licence No. T 4642
--	------------------------------------

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 5,680 13,376	Mining Claim		Work		Mining Claim		Work	
	Prefix	Number	Prefix	Number	Prefix	Number	Prefix	Number
<input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey								
See attached								

All the work was performed on Mining Claim(s) See Attached. Little Ochig Lake G2104

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Drilling Contractor: Midwest Drilling, Winnipeg, Manitoba
 Core Size: BQ 1 7/16 "
 Holes: Thirty-nine (39)
 Footage: 12,424 feet 1332
 Geologist in Charge: Rob A.V. Higginson, Oro, Ontario
 Dates: December 12th to December 20, 1986
 January 7th to February 28th, 1987

Performed: 13,376 days
 Using 5680
 In Reserve 7696

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES
 RESEARCH OFFICE
 JUN 17 1987
 JUN 17 1987
 RECEIVED

Recorded
[Signature]

PATRICIA HIGGINSON
 RECEIVED
 JUN 5 1987
 A.M. P.M.
 7010 10 11 12 1 2 3 4 5 6 7 8 9

Pa. 769495

Date of Report May, 1987	Recorded Holder or Agent (Signature) <i>[Signature]</i>
-----------------------------	--

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.H. Adams, 1003-34 King Street East, Toronto, Ontario M5C 1E5	Date Certified June 1/87	Certified by (Signature) <i>[Signature]</i>
--	-----------------------------	--

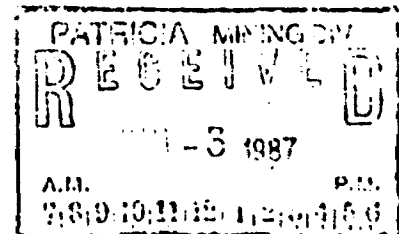
Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work	Nil		
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended Note: Proof of actual cost must be submitted within 30 days of recording		
Diamond or other core drilling	Signed core log showing, footage, diameter of core, number and angles of holes	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY

LIST OF CLAIMS

Pa 769510	Pa 769574	Pa 786834
769511	769575	786835
769512		
769513	Pa 786788	Pa 786836
769514	786789	
769515	786790	Pa 786841
769516	786791	
769517	786792	Pa 786843
769518	786793	
769519	786794	Pa 786849
769520	786795	
769521	786796	Pa 786858
769522	786797	786859
769523	786798	786860
769524	786799	786861
	786800	786862
	786801	
Pa 769535	786802	
769536	786803	
769537	786804	
769538	786805	
769539	786806	
769540	786807	
769541	786808	
769542	786809	
769543	786810	
769544	786811	
769545	786812	
769546		
769547		
769548	Pa 786827	
769549	786828	
769550	786829	
769551	786830	
769552	786831	
769553	786832	
769554	786833	



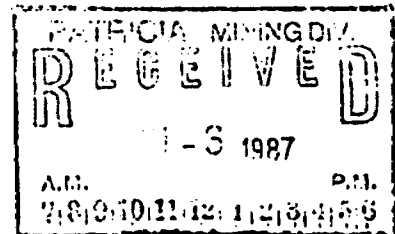
TOTAL 80 claims

71 credits for each of the 80 claims = 5,680 credits requested

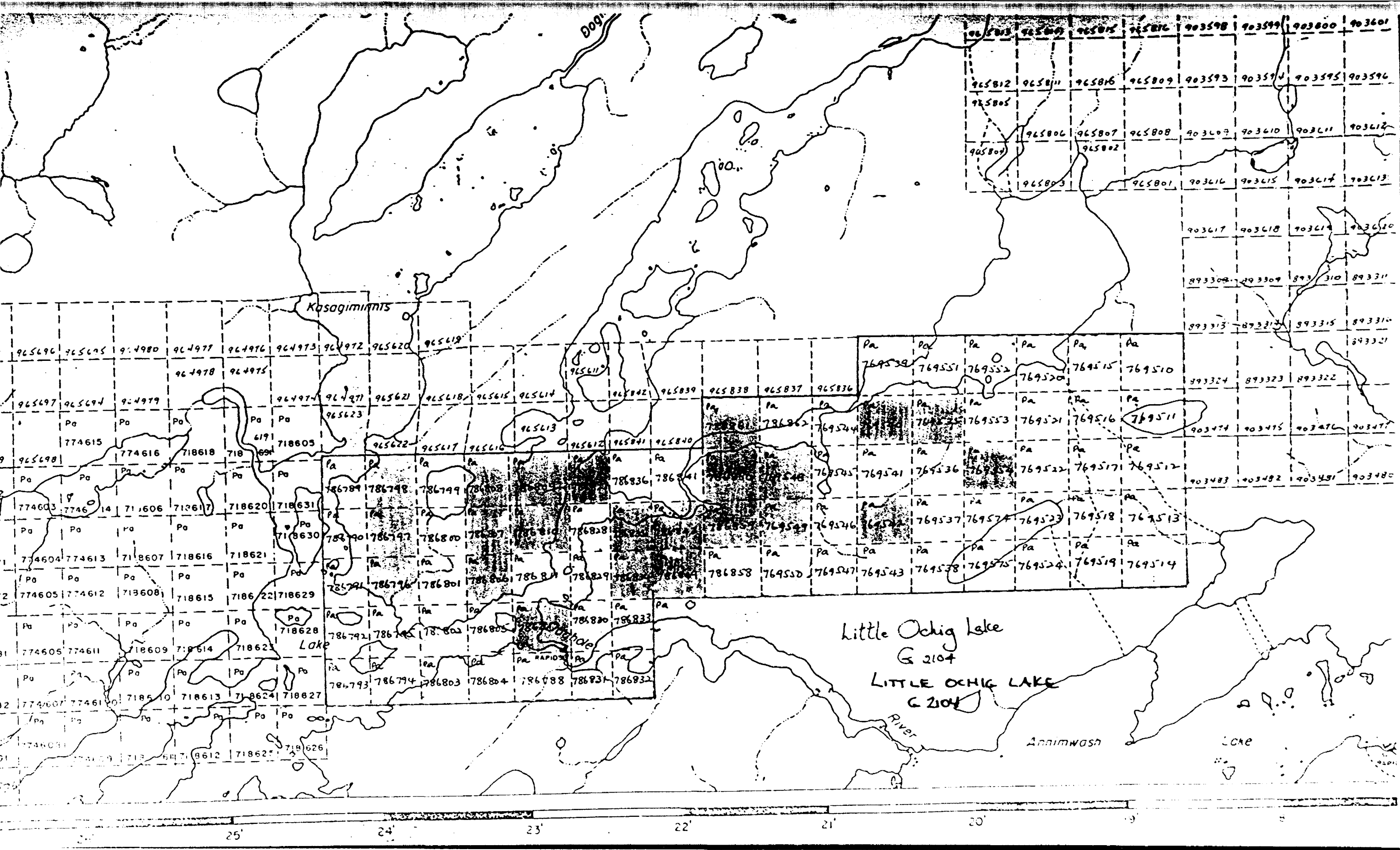
Kasagiminnis Lake Property

Work Performed on Claims:

769535
769540
769542
769554
769548
769549
786796
786797
786798
786806
786807
786808
786809
786810
786812
786827
786834
786835
786845
786849
786859
786860
786861



1



Kasagiminnis

Little Ochiq Lake
G 2104

LITTLE OCHIG LAKE
G 2104

Animwash

LAKE

25' 24' 23' 22' 21' 20' 19'

APPENDIX C
DIAMOND DRILL LOGS

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-1 LENGTH 267'
 LOCATION L48+00W 18+20N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -48°
 STARTED December 11, 1986 FINISHED December 12, 1986

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	48.0°				
267'	39.2°				

HOLE NO. KAS-86-1 SHEET NO. 1 of 1

REMARKS Summary log

PA - 786798

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	6.0	CASING									
6.0	81.2	AMPHIBOLITE - trace <u>chalcopyrite</u> .									
81.2	84.8	MAFIC TUFF									
84.8	123.2	AMPHIBOLITE									
123.2	140.6	QUARTZ-CHLORITE-BIOTITE-MUSCOVITE-GARNET SCHIST - trace to 1% pyrite.									
140.6	186.1	AMPHIBOLITE - 140.6 to 141.1 - 3 to 5% pyrrhotite.									
186.1	189.0	INTERMEDIATE TUFF									
189.0	198.3	MAFIC FLOWS									
198.3	199.5	AMPHIBOLITE									
199.5	202.5	MAFIC FLOWS									
202.5	206.6	AMPHIBOLITE									
206.6	244.8	MAFIC FLOWS - abundant cherty horizons with carbonate and epidote.									
244.8	249.5	GRAPHITIC SILTSTONE - 3 to 5% graphite, 2 to 3% pyrite.									
249.5	267.0	INTERMEDIATE-FELSIC TUFF									
267.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-1 LENGTH 267'
 LOCATION 148+00W 18+90N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -48°
 STARTED December 11, 1986 FINISHED December 12, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-48.0°				
267'	-39.2°				

HOLE NO. KAS-86-1 SHEET NO. 1 of 5

REMARKS _____

PA - 786798

LOGGED BY R. Higgison

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	6.0	<u>CASING</u>									
6.0	81.2	<u>AMPHIBOLITE</u> - dark blue-grey to dark green, fine to medium grained, massive to poorly foliated. <u>Average Modes</u> Amphibole 45 - 50% Sericitized Plagioclase 25 - 30% Quartz 5 - 10% Biotite 3 - 5% Chlorite 3 - 5% Carbonate 0.5 - 1% Quartz-carbonate bands and stringers banding at 37° to core axis, fracture-cleavage at 28-32° and 50° to core axis, foliation at 40° to core axis at 13.0 and 32° at 29.0. - 7.8 to 10.3 - highly fractured, irregular to concordant quartz-carbonate stringers with minor epidote blebs, possible fine grained <u>tourmaline</u> wisps, trace <u>chalcopryrite</u> as medium grained blebs. - 30.9 to 32.4 - chloritic, fine grained, quartz vein. - 47.0 to 49.0 - trace to 0.5% disseminated <u>chalcopryrite</u> blebs. - 60.0 to 65.0 - trace disseminated, fine grained, <u>chalcopryrite</u>									
			17001	tr.	7.8	10.3	2.5				tr.
			17002	-	30.9	32.4	1.5				tr.
			17003	tr-0.5	47.0	49.0	2.0				tr.
			17004	tr.	60.0	65.0	5.0				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-86-1 SHEET NO 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SUPPLIES	FOOTAGE		G	S	SI	T	
				FROM	TO	TOTAL					
81.2	84.8	<p>MAFIC TUFF - dark green to brown to grey, fine grained, banded to foliated.</p> <p><u>Average Modes</u></p> <p>Amphibole 45 - 50% Biotite 15 - 20% Quartz 10 - 15% Sericite 3 - 5% Chlorite 5 - 10% Carbonate 1 - 2%</p> <p>Quartz-carbonate bands, biotite bands, fine to medium grained.</p>									
84.8	123.2	<p>AMPHIBOLITE - typical, carbonate on fractures, foliation-banding at 50° to core axis, upper contact at 45° to core axis at 84.8, lower contact at 57° to core axis at 123.2.</p>									
123.2	140.6	<p>QUARTZ-CHLORITE-BIOTITE-MUSCOVITE-GARNET SCHIST - black to dark grey to pink, laminated to crudely banded.</p> <p><u>Average Modes</u></p> <p>Quartz 35 - 40% Chlorite 30 - 35% Biotite 3 - 5% Muscovite 5 - 10% Garnets 5 - 10% Carbonate 1 - 2% Pyrite trace - 1%</p> <p>Medium grained pink garnet metacrysts, pyrite as blebs on chlorite fracture surfaces, foliation - banding at 60-65° to core axis, fractures at 25-50° to core axis.</p> <p>- 135.9 to 139.5 - highly fractured with quartz-carbonate-epidote infilling.</p>	17005	tr-1	123.2	128.2	5.0			tr.	
			17006	tr-1	128.2	133.2	5.0			tr.	
			17007	tr-1	133.2	135.9	2.7			tr.	
			17008	-	135.9	139.5	3.6			.01	
			17009	tr-1	139.5	140.6	1.1			tr.	

ANGROGES - TORONTO - 366-1148

DIAMOND DRILL RECORD

NAME OF PROPERTY
HOLE NO. KAS-86-1

KASAGIMINNIS LAKE
SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		ID	DEPTH IDS	FOOTAGE FROM TO TOTAL				
140.6	186.1	<p><u>AMPHIBOLITE</u> - typical, medium to coarse grained, barren widely spaced fractures, lower contact at 66° to core axis at 186.1, upper contact at 54° to core axis at 140.6.</p> <p>- 140.6 to 141.5 - irregular, narrow, quartz-carbonate veins with 3-5% fine grained, disseminated pyrrhotite in amphibole bands.</p>	17010	3-5	140.6 141.1 0.5				tr.
186.1	189.0	<p><u>INTERMEDIATE TUFF</u> - dark grey to beige, fine grained, crudely banded to laminated.</p> <p><u>Average Modes</u></p> <p>Quartz 25 - 30% Amphibole 20 - 25% Sericite 15 - 20% Biotite 10 - 15% Chlorite 5 - 10% Carbonate 1 - 2% Pyrite 0.5 - 1%</p> <p>Carbonate and pyrite on fractures, pyrite disseminated in amphibole bands, upper contact at 65° to core axis at 189.0.</p>	17011	0.5-1	186.1 189.0 2.9				tr.
189.0	198.3	<p><u>MAFIC FLOWS</u> - dark green, fine grained, massive to foliated.</p> <p><u>Average Modes</u></p> <p>Amphibole 50 - 55% Sericite 25 - 30% Quartz 10 - 15%</p> <p>Few widely spaced fractures.</p>							
198.3	199.5	<u>AMPHIBOLITE</u> - typical.							
199.5	202.5	<u>MAFIC FLOWS</u> - typical, grades into lower amphibolite, foliated at 64° to core axis.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-86-1 SHEET NO 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	oz ton	oz ton
					FROM	TO	TOTAL			
202.5	206.6	<u>AMPHIBOLITE</u> - typical.								
206.6	244.8	<u>MAFIC FLOWS</u> - typical, foliation at 56° to core axis at 211.0, fracture-cleavage at 12° to core axis, upper contact at 45° to core axis at 206.6, lower contact at 65° to core axis at 244.8. - 209.5 to 210.0 - cherty, tuffaceous bands with 1-2% disseminated to wispy pyrrhotite. - 230.2 to 231.7 - chert-epidote-carbonate bands, abundant fractures. - 234.6 to 238.1 - chert-epidote-carbonate fracture fillings.	17012	1-2	209.5	210.0	0.5			tr.
			17013	-	230.2	231.7	1.5			tr.
			17014	-	234.6	238.1	3.5			tr.
244.8	249.5	<u>GRAPHITIC SILTSTONE</u> - dark to light grey, very fine grained, waxy to glassy, laminated to banded, highly foliated and distorted. <u>Average Modes</u> Quartz 35 - 40% Sericite 25 - 30% Biotite 10 - 15% Graphite 3 - 5% Amphibole 3 - 5% Carbonate 3 - 5% Pyrite 2 - 3% Highly folded, probably sheared, 2-3% pyrite blebs parallel to foliation.	17015	2-3	244.8	247.0	2.2			tr.
			17016	2-3	247.0	249.5	2.5			tr.
249.5	267.0	<u>INTERMEDIATE-FELSIC TUFF</u> - dark grey to black, fine grained, poorly laminated to foliated.								

LANGRANGES - "C" ON TO - 306-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-1 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO				
		<p><u>Average Modes</u></p> <p>Quartz 45 - 50%</p> <p>Sericite 25 - 30%</p> <p>Biotite 10 - 15%</p> <p>Chlorite 3 - 5%</p> <p>Carbonate 1 - 2%</p> <p>Pyrite trace</p> <p>Trace pyrite on fracture surfaces, foliation at 65° to core axis across interval.</p> <p>267.0 End of Hole.</p>								



LANGRISHES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-2 LENGTH 317'
 LOCATION 51+99W 11+89N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45.5°
 STARTED December 13, 1986 FINISHED December 14, 1986

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.5°				
200'	-40.0°				
317'	-40.3°				

HOLE NO. KAS-86-2 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786797

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	7.0	CASING									
7.0	19.5	INTERMEDIATE FLOWS - amphibolitic									
19.5	65.9	INTERMEDIATE TO MAFIC FLOWS - amphibolitic									
65.9	96.8	AMPHIBOLITE									
96.8	127.7	CHERTY MAFIC TUFF									
127.7	167.7	MAFIC FLOWS									
167.7	170.9	FELSIC INTRUSIVE									
170.9	184.8	MAFIC FLOWS									
184.8	190.5	INTERMEDIATE TUFF									
190.5	192.6	MAFIC FLOWS									
192.6	196.4	FELSIC INTRUSIVE									
196.4	226.7	MAFIC FLOWS AND TUFF - 50:50									
226.7	228.0	FELSIC INTRUSIVE									
228.0	317.0	MAFIC FLOWS AND TUFFS - 50:50									
317.0		End of Hole.									

ANALYSES - 12/10/86 - 106-11-86

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-2 LENGTH 317'
 LOCATION 51+99W 11+89N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45.5°
 STARTED December 13, 1986 FINISHED December 14, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.5°				
20'	-40.0°				
317'	-40.3°				

HOLE NO. KAS-86-2 SHEET NO. 1 OF 2

REMARKS _____

PA - 186797

LOGGED BY R. HAZARDSON

FOOTAGE		DESCRIPTION	SAMPLE			ANALYSIS	
FROM	TO		NO.	DEPTH FEET	FOOTAGE FROM TO TOTAL	Gr/Ton	Gr/Ton
0	7.0	<u>CASING</u>					
7.0	19.5	<u>INTERMEDIATE FLOWS</u> - dark grey, fine grained, well to poorly foliated, amphibolitic texture. <u>Average Modes</u> Quartz 35 - 40% Amphibole 20 - 25% Sericite 10 - 15% Chlorite 5 - 10% Biotite 5 - 7% Epidote 0.5 - 1% Carbonate 1 - 2% Foliation at 52° to core axis at 17.0, fractures-cleavages at 35, 42, 65° to core axis. - 7.5 to 10.0 - highly fractured with quartz-carbonate-epidote infilling.	17017	-	7.5 10.0 2.5	tr.	
19.5	65.9	<u>INTERMEDIATE TO MAFIC FLOWS</u> - dark green to dark grey, fine grained banded to massive, amphibolitic texture. - 19.5 to 24.2 - tuffaceous horizon with banded quartz-carbonate-epidote, minor garnet-amphibole bands, 0.5-1% disseminated pyrrhotite and pyrite.	17018	0.5-1	19.5 24.2 4.7	tr.	
65.9	96.8	<u>AMPHIBOLITE</u> - dark green to dark grey, medium to coarse grained, massive to crudely banded, amphibolitic texture.					

SAMPLING - TORONTO - 366-1148

DIAMOND DRILL RECORD

NAME OF PROPERTY... KASAGIMINNIS LAKE
 HOLE NO. KAS-86-2 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SUEPR IDES	FOOTAGE		%	%	G/TON	G/TON	
					FROM	TO					TOTAL
		<p><u>Average Modes</u></p> <p>Amphibole 55 - 60%</p> <p>Chlorite 10 - 15%</p> <p>Quartz 10 - 15%</p> <p>Sericite 5 - 10%</p> <p>Carbonate 0.5 - 1%</p> <p>Minor widely spaced fractures, frequently mottled appearance due to chloritization and sericitization.</p> <p>- 88.7 to 89.7 - quartz stringers, 1-2% fine grained pyrite on grain boundaries.</p> <p>- 95.0 to 95.6 - 3-5% coarse grained pyrite blebs in fracture zone.</p>									
96.8	127.7	<p><u>CHERTY MAFIC TUFF</u> - dark green to white, fine grained, well banded.</p> <p><u>Average Modes</u></p> <p>Amphibole 30 - 35%</p> <p>Quartz 25 - 30%</p> <p>Chlorite 10 - 15%</p> <p>Biotite 10 - 15%</p> <p>Carbonate 2 - 3%</p> <p>Epidote 1 - 2%</p> <p>Pyrrhotite 1 - 2%</p> <p>Pyrite 0.5 - 1%</p> <p>Chalcopyrite trace - 0.5%</p> <p>Disseminated fine grained pyrrhotite, chalcopyrite, pyrite as fracture fillings and coatings, fractured-brecciated zones with violet-grey altered matrix and 3-5% carbonate, carbonate infilling of fractures and in cherty bands.</p> <p>- 102.1 to 106.9 - very cherty horizon, with 3-5% disseminated, fine grained pyrrhotite, trace <u>chalcopyrite</u> and 0.5-1% pyrite as fracture coatings.</p>	17019	1-2	88.7	89.7	1.0			tr.	
			17020	3-5	95.0	95.6	0.6			tr.	
			17021	3-5	102.1	106.9	4.8			tr.	

LANGRISHES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY

KASAGIMINNIS LAKE

HOLE NO. KAS-86-2

SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		TOTAL	G	S	Fe	Cu
					FROM	TO					
		- 111.1 to 111.6 - narrow breccia-alteration zones, boudinaged chert bands, trace <u>chalcopryite</u> , 3-5% carbonate.	17022	tr.	111.1	111.6	0.5				tr.
		- 117.0 to 119.2 - fractured-brecciated zone with narrow pyrite stringers 0.5-1%, fine grained disseminated pyrrhotite 0.5-1%.	17023	0.5-1	117.0	119.2	2.2				.01
		- 122.8 to 125.8 - several fractured-altered zones, 3-5% carbonate.	17024	-	122.8	125.8	3.0				tr.
		- 126.0 to 127.0 - distorted tuffaceous horizon with 1-2% pyrrhotite, trace-0.5% <u>chalcopryite</u> , trace pyrite.	17025	1-2	126.0	127.0	1.0				tr.
127.7	167.7	MAFIC FLOWS - dark green, fine grained, massive, weakly foliated.									
		<u>Average Modes</u>									
		Amphibole 40 - 45%									
		Quartz 20 - 25%									
		Sericite 10 - 15%									
		Chlorite 10 - 15%									
		Numerous cherty horizons, few widely spaced fractures, foliated at 55° to core axis across interval.									
		- 129.0 to 129.5 - 0.5-1% <u>chalcopryite</u> as fracture coatings.	17026	0.5-1	129.0	129.5	0.5				tr.
		- 134.5 to 135.5 - breccia zone infilled with massive, fine grained <u>tourmaline</u> , 5-7% pyrite and 1-2% carbonate.	17027	5-7	134.5	135.5	1.0				tr.
		- 141.4 to 143.7 - bluish-grey cherty tuff with 2-3% pyrrhotite as fine grained disseminated blebs, quartz veining.	17028	2-3	141.4	143.7	2.3				tr.
167.7	170.9	FELSIC INTRUSIVE - white to purple to green, medium to coarse grained, massive to slightly banded.	17029	2-3	167.7	170.9	3.2				.01

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-2 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	G/TON	G/TON
					FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Plagioclase 40 - 45%</p> <p>Quartz 40 - 45%</p> <p>Green Muscovite 3 - 5%</p> <p>Pyrrhotite 2 - 3%</p> <p>Pyrite 2 - 3%</p> <p>Garnets 1 - 2%</p> <p>Coarse grained purplish quartz phenocrysts, disseminated medium grained pink garnets and green-white muscovite mica, pegmatitic to porphyritic texture, disseminated, very fine grained powdery pyrrhotite and pyrite, trace-0.5% pyrite blebs with carbonate on fractures, crosscutting intrusive contacts at 12° to core axis.</p>									
170.9	184.8	<p><u>MAFIC FLOWS</u> - typical.</p> <p>- 172.9 to 174.5 - quartz vein, 1-2% disseminated <u>tourmaline</u>, trace-0.5% pyrite on fractures.</p> <p>- 176.6 to 177.0 - quartz vein, 3-5% pyrrhotite in amphibole bands, trace-0.5% pyrite on chloritic fractures.</p> <p>Foliation at 55° to core axis at 171.5, 52° at 177.0 and 60° at 184.8.</p>	7030	tr - 0.5	172.9	174.5	1.6			.02	
			7031	3-5	176.6	177.0	0.4			tr.	
184.8	190.5	<p><u>INTERMEDIATE TUFF</u> - dark grey to white, fine grained, crudely laminated.</p> <p><u>Average Modes</u></p> <p>Quartz 35 - 40%</p> <p>Feldspar 30 - 35%</p> <p>Chlorite 15 - 20%</p> <p>Biotite 3 - 5%</p> <p>Carbonate 1 - 2%</p> <p>Minor brecciation and fracturing, foliation at 57° to core axis at 186.0.</p>									

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

KASAGIMINNIS LAKE

HOLE NO. KAS-86-2

SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	GT/TON	GT/TON
				FROM	TO	TOTAL			
190.5	192.6	<u>MAFIC FLOWS</u> - typical, foliated at 62° to core axis at 190.5.							
192.6	196.4	<u>FELSIC INTRUSIVE</u> - typical, with inclusions of mafic volcanics, distorted foliation in mafics near contacts.	17032	-	192.6	196.4	3.8		tr.
196.4	226.7	<u>MAFIC FLOWS AND TUFFS</u> - typical.							
		- quartz vein, trace-0.5% disseminated pyrite along contacts.	17033						tr.
		- 222.1 to 223.7 - quartz vein, distorted and folded mafics along contacts.	17034	-	222.1	223.7	1.6		.01
226.7	228.0	<u>FELSIC INTRUSIVE</u> - typical, with epidotized mafic inclusions.	17035	-	226.7	228.0	1.3		tr.
228.0	317.0	<u>MAFIC FLOWS AND TUFFS</u> - typical.							
		- 228.0 to 230.5 - 5-7% epidote in tuffaceous bands.	17036	-	228.0	230.5	2.5		tr.
		- 233.0 to 237.0 - distorted tuffaceous horizon with 3-7% pyrrhotite as disseminated grains and wispy stringers.	17037	3-7	233.0	237.0	4.0		tr.
		- 260.7 to 263.7 - 2-3% disseminated pyrrhotite in distorted tuffaceous horizon with abundant epidote.	17038	2-3	260.7	263.7	3.0		.01
		- 270.0 to 272.0 - 3-5% disseminated pyrrhotite in tuff.	17039	3-5	270.0	272.0	2.0		tr.
		- 280.9 to 281.4 - 1-2% pyrrhotite with 0.5-1% <u>chalcopyrite</u> as blebs in cherty horizon with flows.	17040	1-2	280.9	281.4	0.5		tr.
317.0		End of Hole.							



ENGINEERS - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-3 LENGTH 347'
 LOCATION 47+98W 3+48S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED December 14, 1986 FINISHED December 15, 1986

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	45.0°				
200'	42.5°				
347'	40.8°				

HOLE NO. KAS-86-3 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786796

LOGGED BY R. HIRSHORN

FOOTAGE		DESCRIPTION SUMMARY LOG:	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	OZ/TON	OZ/TON	OZ/TON
					FROM	TO				
0	10.0	<u>CASING</u>								
10.0	114.2	<u>INTERMEDIATE TO MAFIC FLOWS</u> - 103.7 to 114.2 - 2-3% pyrrhotite and pyrite.								
114.2	244.4	<u>INTERBEDDED MAFIC AND INTERMEDIATE TUFFS - 50:50</u> - 207.0 to 222.0 - 0.5-1% pyrrhotite and pyrite. - 233.5 to 244.4 - 1-2% pyrrhotite.								
244.4	286.5	<u>INTERBEDDED MAFIC AND FELSIC TUFFS - 3-5% disseminated pyrrhotite, 5-10% garnets.</u>								
286.5	303.4	<u>FELSIC TO INTERMEDIATE TUFF - 1-2% pyrite, 3-5% graphite.</u>								
303.4	347.0	<u>INTERMEDIATE TUFF</u> - 322.0 to 335.9 - 1-2% pyrrhotite and pyrite.								
347.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-3 LENGTH 347'
 LOCATION 47498W 344BS
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED December 14, 1986 FINISHED December 15, 1986

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	45.0°				
200'	42.5°				
347'	40.8°				

HOLE NO. KAS-86-3 SHEET NO. 1 of 4

REMARKS _____

PA - 786796

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS																															
FROM	TO		NO.	SUPT. PH. IDES	FOOTAGE		%	%	OZ/TON	OZ/TON																											
					FROM	TO					TOTAL																										
0	10.0	CASING																																			
10.0	114.2	<p><u>INTERMEDIATE TO MAFIC FLOWS</u> - dark grey to black to dark green, fine grained, massive, poorly foliated.</p> <p><u>Average Modes</u></p> <table border="0"> <tr><td>Amphibole</td><td>45</td><td>-</td><td>50%</td></tr> <tr><td>Chlorite</td><td>20</td><td>-</td><td>25%</td></tr> <tr><td>Quartz</td><td>15</td><td>-</td><td>20%</td></tr> <tr><td>Carbonate</td><td>2</td><td>-</td><td>3%</td></tr> <tr><td>Garnets</td><td>1</td><td>-</td><td>2%</td></tr> <tr><td>Pyrite</td><td>0.5</td><td>-</td><td>1%</td></tr> <tr><td>Pyrrhotite</td><td>trace</td><td>-</td><td>0.5%</td></tr> </table> <p>Garnet-chlorite-amphibole schist bands, minor chert and tuffaceous horizons, graphitic quartz veins with 0.5-1% pyrrhotite blebs, pyrite on fractures and parallel to foliation, foliated at 52° to core axis at 11.0 and 24.0, 47° at 52.0, 63° at 82° and 60° at 103.7.</p> <p>- 22.2 to 22.7 - clean quartz vein.</p> <p>- 27.5 to 28.2 - quartz vein, trace-0.5% pyrite on fractures.</p> <p>- 30.5 to 34.4 - quartz veins with graphite, garnet-chlorite-amphibole schist with trace-1% pyrite, graphite as wisps and plates.</p> <p>- 42.2 to 43.2 - 0.2 foot quartz stringer, 0.5-1% disseminated pyrite in garnet-chlorite-amphibole band.</p>	Amphibole	45	-	50%	Chlorite	20	-	25%	Quartz	15	-	20%	Carbonate	2	-	3%	Garnets	1	-	2%	Pyrite	0.5	-	1%	Pyrrhotite	trace	-	0.5%							
Amphibole	45	-	50%																																		
Chlorite	20	-	25%																																		
Quartz	15	-	20%																																		
Carbonate	2	-	3%																																		
Garnets	1	-	2%																																		
Pyrite	0.5	-	1%																																		
Pyrrhotite	trace	-	0.5%																																		
			17041	-	22.2	22.7	0.5			tr.																											
			17042	tr-0.5	27.5	28.2	0.7			tr.																											
			17043	tr-1	30.5	34.4	3.9			tr.																											
			17044	0.5-1	42.2	43.2	1.0			tr.																											

KASAGIMINNIS LAKE - 1986

DIAMOND DRILL RECORD

NAME OF PROPERTY

KASAGITINNIS LAKE

HOLE NO. KAS-86-3

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE FROM TO TOTAL			1 ton	50 ton		
		- 103.7 to 114.2 - 2-3% disseminated fine grained pyrrhotite and pyrite.	17045	2-3	103.7	107.7	4.0			tr.	
			17046	2-3	107.7	111.7	4.0			tr.	
			17047	2-3	111.7	114.2	2.5			tr.	
114.2	244.4	INTERBEDDED MAFIC AND INTERMEDIATE TUFFS - dark green to black, fine to medium grained with very coarse grained garnet metacrysts, well to poorly foliated. Mafic Bands: <u>Average Modes</u> Amphibole 45 - 50% Chlorite 30 - 35% Garnet 10 - 15% Pyrrhotite trace - 1% Intermediate Bands: <u>Average Modes</u> Amphibole 35 - 40% Quartz 20 - 25% Chlorite 20 - 25% Sericitite 7 - 10% Garnets as anhedral - subhedral crystals and crystal masses up to 3/4 inch across, trace-1% pyrrhotite throughout mafic bands, foliation at 60-65° across interval.									
		- 195.0 to 196.0 - crosscutting, quartz-feldspar dykelet with 1-2% coarse grained pyrite and carbonate on contacts.	17048	1-2	195.0	196.0	1.0			tr.	
		- 207.0 to 222.0 - 0.5-1% pyrite/pyrrhotite in garnet-chlorite-amphibole bands.	17049	0.5-1	207.0	212.0	5.0			tr.	
			17050	0.5-1	212.0	217.0	5.0			.01	
			17051	0.5-1	217.0	222.0	5.0			tr.	
		- 233.5 to 244.4 - 1-2% disseminated pyrrhotite and trace 0.5% pyrite in garnet-chlorite-amphibole bands.	17052	1-2	233.5	237.0	4.0			tr.	
			17053	1-2	237.0	242.0	5.0			tr.	
			17054	1-2	242.0	244.4	2.4			.01	

DIAMOND DRILL RECORD

NAME OF PROPERTY
HOLE NO. KAS-86-3

KASAGIMINNIS LAKE
SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPH IDES	FOOTAGE				of ton	of ton	
				FROM	TO	TOTAL					
244.4	286.5	<p><u>INTERBEDDED MAFIC AND FELSIC TUFFS</u> - grey to black to pink, fine to medium grained groundmass with medium to coarse grained garnet porphyroblasts, banded to laminated, foliated.</p> <p><u>Average Modes</u></p> <p>Amphibole 30 - 35%</p> <p>Chlorite 20 - 25%</p> <p>Quartz 10 - 15%</p> <p>Sericite 5 - 10%</p> <p>Garnet 5 - 10%</p> <p>Pyrrhotite 3 - 5%</p> <p>Pyrite trace - 0.5%</p> <p>Spotty sections with 10-15% disseminated garnets, fine grained, disseminated pyrrhotite as blebs and wisps, few widely spaced fractures with pyrite infillings and a minor coarse grained blebs, foliated at 60° to core axis at 267.0 and 277.0, at 68° at 286.5.</p>	17055	3-5	244.4	247.0	2.6			.01	
			17056	3-5	247.0	252.0	5.0			tr.	
			17057	3-5	252.0	257.0	5.0			tr.	
			17058	3-5	257.0	262.0	5.0			tr.	
			17059	3-5	262.0	267.0	5.0			tr.	
			17060	3-5	267.0	272.0	5.0			tr.	
			17061	3-5	272.0	277.0	5.0			tr.	
			17062	3-5	277.0	282.0	5.0			tr.	
			17063	3-5	282.0	286.5	4.5			.04	
			286.5	303.4	<p><u>FELSIC TO INTERMEDIATE TUFF</u> - dark grey to black, very fine grained, laminated, foliated.</p> <p><u>Average Modes</u></p> <p>Sericite)- 25 - 30%</p> <p>Muscovite)-</p> <p>Quartz 25 - 30%</p> <p>Chlorite 15 - 20%</p> <p>Amphibole 5 - 10%</p> <p>Graphite 3 - 5%</p> <p>Garnets 2 - 3%</p> <p>Pyrite 1 - 2%</p> <p>Carbonate 0.5 - 1%</p> <p>Pyrrhotite trace - 1%</p> <p>Crenulation of laminations in felsic horizons widely spaced fractures with pyrite coatings, pyrrhotite as fine grained masses.</p>	17064	1-2	286.5	291.5	5.0	
17065	1-2	291.5				294.5	3.0			tr.	
17066	1-2	294.5				297.0	2.5			tr.	
17067	1-2	297.0				302.0	5.0			tr.	
17068	1-2	302.0				303.4	1.4			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-86-3 SHEET NO 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ANALYSIS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OF TON	OF TON
					FROM	TO	TOTAL				
303.4	347.0	<p><u>INTERMEDIATE TUFF</u> - typical.</p> <p>- 303.4 to 305.4 - composite quartz vein with abundant muscovite, 0.5-1% pyrite on fractures.</p> <p>- 322.0 to 335.9 - 1-2% disseminated pyrite and pyrrhotite</p> <p>- 335.9 to 347.0 - 5-7% disseminated medium grained pink garnets.</p> <p>Foliated at 62° to the core axis at 307.0, at 77° at 317.0, at 67° at 325.0, 70° at 347.0.</p>	17069	0.5-1	303.4	305.4	2.0			tr.	
			17070	1-2	322.0	327.0	5.0			tr.	
			17071	1-2	327.0	332.0	5.0			tr.	
			17072	1-2	332.0	335.9	3.9			tr.	
347.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-4 LENGTH 497'
 LOCATION 42+00W 3+60N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED December 15, 1986 FINISHED December 17, 1986

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-45.0°				
400'	-44.2°				
497'	-44.2°				

HOLE NO. KAS-86-4 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786797

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS		
FROM	TO		NO.	DIAPH IDES	FOOTAGE		%	OZ./TON	OZ./TON
					FROM	TO			
0	18.0	<u>CASING</u>							
18.0	48.7	<u>MAFIC FLOWS</u>							
48.7	60.3	<u>INTERMEDIATE FLOWS</u>							
60.3	497.0	<u>MAFIC FLOWS AND TUFF - 80:20</u>							
497.0		End of Hole.							

KASAGIMINNIS LAKE - 1986

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-86-4 LENGTH 497'
 LOCATION 42+00W 3+60N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED December 15, 1986 FINISHED December 17, 1986

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-45.0°				
400'	-44.2°				
497'	-44.2°				

HOLE NO. KAS-86-4 SHEET NO. 1 of 2

REMARKS _____

PA - 786797

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE					
			PH IDIES	FROM	TO	TOTAL		g/t	g/t
0	18.0	<u>CASING</u>							
18.0	48.7	<u>MAFIC FLOWS</u> - dark green, fine to medium grained, massive, weak foliation. <u>Average Modes</u> Amphibole 40 - 45% Chlorite 15 - 20% Sericitite 15 - 20% Quartz 10 - 15% Carbonate 0.5 - 1% Minor chert and cherty tuff bands with biotite, fracture sets at 0°, 10° and 47° to the core axis, foliation at 52° to the core axis at 27.0, 47° at 55.0. - 40.6 to 41.6 - irregularly banded cherty tuff with 0.5-1% epidote, 1-2% carbonate and 0.5-1% pyrrhotite.							
			17086	18.0	23.0	5.0		tr.	
			170730.5-1	40.6	41.6	1.0		tr.	
			17087	48.7	53.7	5.0		tr.	
48.7	60.3	<u>INTERMEDIATE FLOWS</u> - dark grey to dark green, fine grained, massive poorly foliated. <u>Average Modes</u> Chlorite 25 - 30% Quartz 25 - 30% Amphibole 20 - 25% Sericitite 10 - 15% Garnets 1 - 2% Pyrite trace - 0.5% Pyrrhotite trace - 0.5%							



DIAMOND DRILL RECORD

NAME OF PROPERTY

KASAGIMIPETS LAKE

HOLE NO. KAS-86-4

SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	SIZES	FOOTAGE		G	S	Fe	Cu			
					FROM	TO					TOTAL		
60.3	497.0	Few widely spaced fractures, pyrrhotite disseminated in cherty horizons, pyrite as blebs and fracture coatings.											
		MAFIC FLOWS AND TUFF - typical flows, poorly banded cherty tuff horizons, trace-1% pyrite on fractures, and as disseminated blebs, disseminated to stringer pyrrhotite trace-15%, foliation averages 62.25° to the core axis across interval, fracturing at 10-12° to core axis.	17088		60.3	65.3	5.0						tr.
			17089		77.0	82.0	5.0						tr.
			17090		97.0	102.0	5.0						tr.
			17091		117.0	122.0	5.0						tr.
			17092		126.0	131.0	5.0						tr.
			17093		137.0	142.0	5.0						tr.
		- 172.7 to 173.7 - quartz stringers, 0.5-1% pyrite on fractures.	17094		157.0	162.0	5.0						tr.
			17074	0.5-1	172.7	173.7	1.0						.01
		- 192.0 to 193.5 - fractured cherty horizon with 1-2% disseminated pyrite.	17075	1-2	192.0	193.5	1.5						tr.
		- 208.6 to 225.6 - irregularly banded mafic tuff.											
		- 220.0 to 221.0 - quartz stringers with garnet-amphibole bands, 0.5-1% pyrite on contacts.	17076	0.5-1	220.0	221.0	1.0						tr.
		- 254.5 to 267.0 - bands and stringers, 10-15% pyrrhotite	17077	1-2	254.5	258.0	3.5						tr.
		2-3% pyrite blebs, trace-2% <u>chalcopryite</u> with quartz-carbonate stringers.	17078	2-3	258.0	261.0	3.0						.01
			17079	10-15	261.0	263.0	2.0						tr.
			17080	10-15	267.0	267.0	4.0						tr.
		- 271.0 to 273.5 - 3-5% pyrrhotite/pyrite as blebs, stringers and fracture fillings in cherty tuff.	17081	3-5	271.0	273.5	2.5						tr.
		- 289.3 to 291.3 - 1-3% pyrrhotite and pyrite with quartz stringers.	17095		289.3	291.3	2.0						tr.
			17096		317.0	322.0	5.0						tr.
		- 357.0 to 377.0 - highly fractured and altered flows, violet-grey alteration, 2-3% carbonate, 3-4% epidote, 1-2% fine grained disseminated pyrite and pyrrhotite.	17081	1-2	357.0	362.0	5.0						tr.
			17082	1-2	362.0	367.0	5.0						tr.
			17083	1-2	367.0	372.0	5.0						tr.
			17084	1-2	372.0	377.0	5.0						tr.
497.0		End of Hole.											

LANGRANGES - TORONTO - 366 1166

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-1 LENGTH 267'
 LOCATION 120+00W 7+04N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 7, 1987 FINISHED JANUARY 8, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	45.0°				
267'	43.1°				

HOLE NO. KAS-87-1 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 786810

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TC		NO.	SU- PH- IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	13.5	<u>CASING</u>									
13.5	19.6	<u>MAFIC FLOWS</u>									
19.6	21.0	<u>MAFIC TO INTERMEDIATE TUFF</u>									
21.0	22.1	<u>METASEDIMENT (siltstone)</u>									
22.1	25.3	<u>MAFIC TO INTERMEDIATE TUFF</u>									
25.3	25.9	<u>GARNET-AMPHIBOLITE</u>									
25.9	26.8	<u>METASEDIMENT (muddy siltstone)</u>									
26.8	28.1	<u>GARNET-AMPHIBOLITE</u>									
28.1	28.6	<u>MAFIC TO INTERMEDIATE TUFF</u>									
28.6	88.4	<u>METASEDIMENTS (interbedded siltstone, mudstone and argillite)</u>									
88.4	99.8	<u>INTERMEDIATE TUFF</u>									
99.8	108.5	<u>MAFIC FLOWS</u>									
108.5	112.6	<u>MAFIC TO INTERMEDIATE FLOWS</u>									
112.6	114.8	<u>MAFIC TO INTERMEDIATE TUFF</u>									
114.8	205.6	<u>MAFIC FLOWS</u>									

LANGRAGES - TORONTO - 1987-1988

DIAMOND DRILL RECORD

NAME OF PROPERTY... KASAGIMINNIS LAKE
 HOLE NO... KAS-87-1... SHEET NO... 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO	SULPH ID.	FOOTAGE			%	%	%	%
					FROM	TO	TOTAL				
205.6	225.7	<u>MAFIC INTRUSIVE OR COARSE GRAINED FLOW</u>									
225.7	267.0	<u>MAFIC FLOWS</u>									
267.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-1 LENGTH 267'
 LOCATION L20+00W 74+04N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED January 7, 1987 FINISHED January 8, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
267'	-43.1°				

HOLE NO. KAS-87-1 SHEET NO. 1 of 7

REMARKS _____

PA - 786810

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOT/GE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	13.5	<u>CASING</u>								
13.5	19.6	<u>MAFIC FLOWS</u> - dark green, fine grained, massive to slightly foliated, minor chert bands. <u>Average Modes</u> Amphibole 40 - 45% Chlorite 20 - 25% Plagioclase)- 25 - 30% Quartz Pyrite trace - 0.5% Few widely spaced fractures, pyrite as fracture coatings and fine disseminated grains, foliation - banding at 50° to core axis.	17097	tr. - 0.5	14.6	19.6	5.0			tr.
19.6	21.0	<u>MAFIC TO INTERMEDIATE TUFF</u> - dark green-brown-grey, fine grained, poorly banded to foliated. <u>Average Modes</u> Amphibole 45 - 50% Chlorite 15 - 20% Plagioclase)- 15 - 20% Quartz Biotite 3 - 5% Carbonate 3 - 5% Minor chert bands, few widely spaced fractures.	17098	-	19.6	21.0	1.4			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY..... KASAGININNIS LAKE

HOLE NO. KAS-87-1 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO	SULPHIDES	FOOTAGE			G	S	Fe	Cu		
					FROM	TO	TOTAL						
21.0	22.1	<p>METASEDIMENT - purplish-grey, fine grained, massive to banded, foliated at 55° to core axis.</p> <p><u>Average Modes</u></p> <p>Quartz 45 - 50%</p> <p>Sericite 25 - 30%</p> <p>Amphibole 10 - 15%</p> <p>Chlorite 3 - 5%</p> <p>1-2% fine grained disseminated pyrite in cherty horizons, probably a siltstone.</p>	71099	1-2	21.0	22.1	1.1					tr.	
22.1	25.3	<p>MAFIC TO INTERMEDIATE TUFF - minor chert, foliation at 56° to core axis, trace-1% disseminated to banded pyrite.</p>	71100	r-1	22.1	25.3	3.2					tr.	
25.3	25.9	<p>GARNET-AMPHIBOLITE - dark green to bla to pink.</p> <p><u>Average Modes</u></p> <p>Amphibole 70 - 75%</p> <p>Garnet 10 - 15%</p> <p>Chlorite 3 - 5%</p> <p>Pyrite 3 - 5%</p> <p>Fine to coarse grained pink garnets, (stretched) with chlorite inclusions, coarse grained, felt textured amphiboles, pyrite as irregular grains on grain boundaries.</p>	71101	3-5	25.3	28.1	2.8					tr.	
25.9	26.8	<p>METASEDIMENT - grey to brown to dark green, fine grained, finely laminated, foliated at 57° to core axis.</p> <p><u>Average Modes</u></p> <p>Plagioclase)- 45 - 50%</p> <p>Quartz 30 - 35%</p> <p>Amphibole 10 - 15%</p> <p>Biotite 10 - 15%</p>											

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNTS LAKE
 HOLE NO. KAS-87-1 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	G/TON	G/TON
					FROM	TO	TOTAL				
		Few widely spaced barren fractures, probably a muddy siltstone or reworked tuff.									
26.8	28.1	<u>GARNET-AMPHIBOLITE</u> - as above with 3-5% chert bands and trace-0.57 fine grained pyrrhotite and pyrite in chert bands and on grain boundaries.									
28.1	28.6	<u>MAFIC TO INTERMEDIATE TUFF</u> - typical.									
28.6	88.4	<u>METASEDIMENTS</u> - black to dark grey to white, fine grained, well laminated - foliated.	17102	tr-3	28.1	29.6	1.5			tr.	
		<u>Average Modes</u>									
		Plagioclase)- 20 - 35%									
		Quartz									
		Biotite 15 - 30%									
		Chlorite 5 - 20%									
		Amphibole 10 - 15%									
		Carbonate 3 - 5%									
		Pyrite trace - 3%									
		Generally well laminated throughout but proportions of minerals change across section from quartz-plagioclase-biotite to chlorite-biotite-amphibole, minor sections with quartz-epidote-amphibole, microfolding and faulting of some sections, folds have axial planes parallel to foliations, pyrite frequently occurs as thin laminae, fracture fillings and fine disseminated grains. Trace <u>arsenopyrite</u> occurs as fine disseminated grains in some sections, probably interbedded siltstones, mudstones and argillite.									
		- 28.6 to 29.6 - as above.									
		- 29.6 to 31.8 - heavily fractured, epidotization, 5-10% carbonate, 0.5-1% fine grained disseminated pyrite, foliated at 56° to the core axis at 31.8.	17103	0.5-1	29.6	31.8	2.2			tr.	
		- 31.8 to 32.8 - typical, as above.	17104	tr-3	31.8	32.8	1.0			tr.	

LANGRAGES - FORMS TO - 368-1108

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-1 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	gr ton	gr ton	
					FROM	TO	TOTAL					
		- 32.8 to 33.4 - Mafic to Intermediate Tuff, typical.	17105	-	32.8	33.4	0.6				tr.	
		- 33.4 to 47.8 - typical, with minor kink folding and chert bands up to 0.1 foot wide.	17106	tr-0.5	33.4	37.0	3.6				tr.	
			17107	tr-0.5	37.0	42.0	5.0				tr.	
			17108	tr-0.5	42.0	47.0	5.0				tr.	
			17109	tr-0.5	47.0	47.8	0.8				tr.	
		- 47.8 to 48.7 - distorted chloritic (35-40% chlorite) horizon, 5-7% fine grained pyrite as wisps, blebs and stringers, trace <u>arsenopyrite</u> , foliated at 58° to core axis at 48.7.	17110	5-7	47.8	48.7	0.9				tr.	
		- 48.7 to 52.2 - typical with increasing chlorite 5-20%, trace-1% pyrite as blebs and laminations, foliated at 70° to core axis at 51.8.	17111	tr-1	48.7	52.2	3.5				tr.	
		- 52.2 to 54.5 - poorly banded to massive, quartz-sericite-chlorite schist, 1-3% pyrite, abundant cherty quartz blebs and stringers.	17112	1-3	52.2	54.5	2.3				tr.	
		- 54.5 to 85.9 - soft with abundant chlorite and biotite, wispy laminations, 0.5-3% pyrite as bands and fracture fillings, minor quartz-chert bands with trace-0.5% pyrrhotite, 3-5% epidote-carbonate bands, foliated at 59° to core axis at 55.0, 62° at 62.2, 56° at 67.5, 62° at 77.0, and 63° at 85.9.	17113	0.5-3	54.5	57.0	2.5				tr.	
			17114	0.5-3	57.0	62.0	5.0				tr.	
			17115	0.5-3	62.0	67.0	5.0				tr.	
			17116	0.5-3	67.0	72.0	5.0				tr.	
			17117	0.5-3	72.0	77.0	5.0				tr.	
			17118	0.5-3	77.0	82.0	5.0				tr.	
			17119	0.5-3	82.0	84.0	2.0				tr.	
		- 85.9 to 88.4 - altered zone with fractures infilled with epidote-carbonate, trace-1% disseminated pyrite.	17120	0.5-3	84.0	85.9	1.9				tr.	
			17121	tr-1	85.9	88.4	2.5				tr.	
88.4	99.8	<u>INTERMEDIATE TUFF</u> - dark grey to green, fine grained, wispy banding	17122	-	88.4	90.5	2.1				tr.	
		<u>Average Modes</u>										
		Quartz)-	50	-	55%							
		Plagioclase	20	-	25%							
		Amphibole	5	-	10%							
		Biotite	3	-	5%							
		Chlorite	3	-	5%							
		Carbonate	3	-	5%							

881108 - CANON - SERRA

DIAMOND DRILL RECORD

NAME OF PROPERTY...

KASACIMINNIS LAKE

HOLE NO. KAS-87-1

SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE FROM TO TOTAL			GT TON	GT TON
		Few widely spaced barren or carbonate infilled fractures, banding - foliation at 60° to core axis at 93.5.							
		- 90.5 to 91.9 - 2-3% disseminated pyrite.	17123	2-3	90.5 91.9 1.4				tr.
			17124	-	91.5 94.9 3.0				tr.
			17125	-	94.9 97.6 2.7				tr.
		- 97.6 to 99.8 - trace-1% disseminated pyrite.	17126	tr-1	97.6 99.8 2.2				tr.
99.8	108.5	<u>MAFIC FLOWS</u> - atypical.							
		- 99.8 to 104.6 - medium grained, amphibolitic, few widely spaced fractures, increasing schistosity towards 99.8, foliated at 68° to core axis at 99.8, massive at 104.6.	17127	-	99.8 104.6 4.8				tr.
		- 104.6 to 108.5 - massive, fine grained, minor cherty flow breccia at flow contacts.	17128	-	104.6 108.5 3.9				tr.
108.5	112.6	<u>MAFIC TO INTERMEDIATE FLOWS</u> - dark grey to dark green, fine grained.	17129	-	108.5 112.6 4.1				tr.
		<u>Average Modes</u>							
		Quartz)- 40 - 45%							
		Feldspar)- 30 - 35%							
		Amphibole 30 - 35%							
		Epidote 7 - 10%							
		Chlorite 3 - 5%							
		Biotite 3 - 5%							
		Slight foliation of mafic minerals, few widely spaced fractures, abundant cherty bands.							
112.6	114.8	<u>MAFIC TO INTERMEDIATE TUFF</u> - typical, foliated at 55° to core axis at 113.0; grades into amphibolitic unit below.	17130	-	112.6 114.8 2.2				tr.
114.8	205.6	<u>MAFIC FLOWS</u> - medium to coarse grained amphibolitic, massive, few widely spaced fractures.							
		- 114.8 to 117.0 - minor quartz veining.	17131	-	114.8 117.0 2.2				tr.

LANGROSES - "CANCITO" - 366.1148

DIAMOND DRILL RECORD

NAME OF PROPERTY

KASAGIMINNIS LAFF

HOLE NO. KAS-87-1

SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
		- 117.0 to 124.0 - typical, as above.								
		- 124.0 to 126.4 - fine grained, foliated with aggregates of <u>tourmaline</u> needles with trace-1% pyrite.	17132	tr-1	124.0	126.4	2.4			tr.
		- 126.4 to 155.0 - typical.								
		- 155.0 to 156.0 - as per 124.0 to 126.4, <u>tourmaline</u> .	17133	tr-1	155.0	156.0	1.0			tr.
		- 156.0 to 166.3 - typical.								
		- 166.3 to 168.5 - cherty-quartz veining subparallel to core axis.	17134	-	166.3	168.5	2.2			tr.
		- 168.5 to 180.5 - quartz veining, <u>tourmaline</u> bands and disseminated grains with 0.5-2% pyrite, minor fractures with trace-0.5% pyrrhotite and <u>chalcopyrite</u> blebs. Foliation at 45° to core axis at 173.5.	17135	0.5-2	168.5	173.5	5.0			tr.
			17136	0.5-2	173.5	175.5	2.0			tr.
			17137	0.5-2	175.5	180.5	5.0			tr.
		- 180.5 to 195.4 - typical.								
		- 190.5 to 194.0 - trace-0.5% disseminated pyrite, <u>chalcopyrite</u> , minor quartz veining.	17138	tr-0.5	190.5	194.0	3.5			tr.
		- 195.4 to 205.6 - fine to medium grained.								
		- 201.0 to 203.0 - 1-2% disseminated pyrrhotite.	17139	1-2	201.0	203.0	2.0			tr.
		- 203.0 to 205.6 - 0.9 foot quartz vein with chloritic fractures and 1-2% pyrite infilling, disseminated trace-0.5% <u>tourmaline</u> .	17140	1-2	203.0	205.6	2.6			tr.
205.6	225.7	<u>MAFIC INTRUSIVE OR COARSE GRAINED FLOW</u> - dark green-cream white, fine grained, contacts grading into coarse grained foliated core.								
		<u>Average Modes</u>								
		Amphibole	45	-	507					
		Quartz								
		Plagioclase)-	40	-	452					
		Pyrrhotite	1	-	2%					

LANGRANGES - TORONTO - 366-1150

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGININNIS LAKE

HOLE NO. KAS-87-1 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	gr ton	gr ton	
					FROM	TO	TOTAL					
		Garnet trace - 0.5% Carbonate 1 - 2%										
		Pyrrhotite as coarse grained blebs, fine grained disseminated garnets in narrow sections.										
		- 205.6 to 208.0 - trace <u>chalcopryite</u> blebs with pyrrhotite and 0.5-1% tourmaline grains.	17141	1-2	205.6	208.0	2.4			tr.		
		- 220.0 to 225.7 - 1-2% coarse grained pyrrhotite blebs and fine grained garnets.	17142	1-2	220.0	222.5	2.5			tr.		
			17143	1-2	222.5	225.7	3.2			tr.		
225.7	267.0	MAPIC FLOWS - fine grained, foliated at 58° to core axis at 264.0, 1-2% disseminated pyrite throughout, 0.5-1% pyrrhotite with trace-0.5% <u>chalcopryite</u> , numerous quartz stringers, minor zones of intense fracturing.										
		- 225.7 to 228.0 - trace-0.5% disseminated pyrite, 0.5 foot quartz vein with 1-2% pyrrhotite, trace epidote, 3-5% carbonate.	17144	1-2	225.7	228.0	2.3			tr.		
			17145	1-2	228.0	232.0	4.0			tr.		
			17146	1-2	232.0	237.0	5.0			tr.		
			17147	1-2	237.0	242.0	5.0			tr.		
			17148	1-2	242.0	247.0	5.0			tr.		
			17149	1-2	247.0	252.0	5.0			tr.		
			17150	1-2	252.0	257.0	5.0			tr.		
			17151	1-2	257.0	262.0	5.0			tr.		
			17152	1-2	262.0	267.0	5.0			tr.		
267.0		End of Hole.										



LANGRISHES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-2 LENGTH 207'
 LOCATION 12+02W, 9+68N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED January 8, 1987 FINISHED January 9, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	45.0°				
207'	40.6°				

HOLE NO. KAS-87-2 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786807
 - 786810 (on boundary)

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	DEPTH FOES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	23.5	<u>CASING</u>							
23.5	43.8	<u>MAFIC TO INTERMEDIATE TUFF</u>							
43.8	67.5	<u>MAFIC TO INTERMEDIATE FLOWS</u>							
67.6	70.6	<u>INTERMEDIATE TUFF</u>							
70.6	96.4	<u>MAFIC FLOWS</u>							
96.4	115.7	<u>MAFIC TO INTERMEDIATE FLOWS</u>							
115.7	132.8	<u>FELSIC TUFF</u>							
132.8	193.5	<u>INTERMEDIATE TUFF AND FLOWS</u>							
		- 132.8 to 146.3 - Flows							
		- 146.3 to 161.2 - Tuffs and Flows - 50:50							
		- 161.2 to 193.5 - Tuff							
193.5	201.7	<u>FELSIC VOLCANIC (ALTERED)</u>							
201.7	207.0	<u>MAFIC FLOWS</u>							
207.0		End of Hole.							

87-101-ES - TORONTO - 1987-11-68

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIWINNIS LAKE
 HOLE NO. KAS-87-2 LENGTH 207'
 LOCATION 12+02W, 9+68N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 8, 1987 FINISHED JANUARY 9, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
207'	-40.6°				

HOLE NO. KAS-87-2 SHEET NO. 1 of 4

REMARKS _____

PA - 786807 (on boundary)
- 786810

LOGGED BY R. HIRSHON

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SUFPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	23.5	CASING									
23.5	43.8	MAFIC TO INTERMEDIATE TUFF and minor flows - dark grey to dark green to brown to white, fine grained, laminated to poorly banded, foliated. <u>Average Modus</u> Quartz)- 35 - 40% Plagioclase)- 20 - 25% Amphibole 20 - 25% Chlorite 10 - 15% Sericite 3 - 5% Biotite 3 - 5% Carbonate 1 - 5% Pyrrhotite 1 - 2% Pyrite 1 - 3% Chalcopyrite trace - 0.5% Abundant carbonate-pyrite infilled chloritic fractures, bedded pyrite 1-2%, pyrrhotite as blebs with <u>chalcopyrite</u> in cherty bands, minor narrow fine grained flows, foliated at 52° to core axis at 27.0. - 42.0 to 43.8 - quartz veining, brecciated, 1-2% fine pyrite, 10-15% carbonate.	17153	2-5	23.5	27.0	3.5			.01	
			17154	2-5	27.0	32.0	5.0			.01	
			17155	2-5	32.0	37.0	5.0			.01	
			17156	2-5	37.0	42.0	5.0			.01	
			17157	1-2	42.0	43.8	1.8			.01	
43.8	67.5	MAFIC TO INTERMEDIATE FLOWS with minor tuff - dark green, fine grained, massive.									

11-18-87 - 12:00 PM - 106-1100

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-2 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE				GT TON	GT TON	
				FROM	TO	TOTAL					
		<p><u>Average Modes</u></p> <p>Amphibole 40 - 45%</p> <p>Quartz)- 35 - 40%</p> <p>Plagioclase)-</p> <p>Chlorite 10 - 15%</p> <p>Carbonate trace - 1%</p> <p>Pyrite)- trace - 1%</p> <p>Pyrrhotite)-</p> <p>Few barren fractures, sporadic sulphide grains.</p> <p>- 43.8 to 47.0 - 0.5-1% disseminated pyrite and pyrrhotite.</p>	17158	0.5-1	43.8	47.0	3.2			tr.	
67.5	70.6	<p><u>INTERMEDIATE TUFF</u> - dark grey-green, fine grained, sheared laminations, foliated.</p> <p><u>Average Modes</u></p> <p>Plagioclase)- 30 - 35%</p> <p>Quartz)-</p> <p>Amphibole 30 - 35%</p> <p>Biotite 15 - 20%</p> <p>Carbonate 5 - 10%</p> <p>Few widely spaced fractures with carbonate infillings, foliation at 63° to core axis at 65.0.</p>									
70.6	96.4	<p><u>MAFIC FLOWS</u> with minor Tuff - dark green, fine grained, foliated, minor chert bands, fracturing with carbonate-quartz-pyrite infillings, trace <u>chalcopyrite</u>, 0.5-2% pyrite, pyrrhotite throughout. Foliation at 60° to core axis at 88.0.</p>	17159	0.5-2	70.6	73.6	3.0			tr.	
			17160	0.5-2	73.6	77.0	3.4			tr.	
			17161	0.5-2	77.0	82.0	5.0			tr.	
			17162	0.5-2	82.0	87.0	5.0			tr.	
			17163	0.5-2	87.0	92.0	5.0			tr.	
			17164	0.5-2	92.0	96.4	4.4			tr.	
96.4	115.7	<p><u>MAFIC TO INTERMEDIATE FLOWS</u> - typical, foliated at 60° to core axis at 107.0, 67° at 115.0, trace-1% pyrite on fractures, trace-1% disseminated pyrrhotite, minor quartz veining.</p>	17165	tr-1	96.4	101.4	5.0			tr.	
			17166	tr-1	101.4	105.0	3.6			tr.	
			17167	tr-1	105.0	107.0	2.0			tr.	
			17168	tr-1	107.0	112.0	5.0			tr.	
			17169	tr-1	112.0	115.7	3.7			tr.	

LANSING - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-2 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/T	G/T	G/T			
					FROM	TO	TOTAL							
115.7	132.8	FELSIC TUFF - dark grey to pinkish-white, very fine grained, allotropic, crudely laminated to crudely banded, foliated at 51-57° to core axis. <u>Average Modes</u> Quartz)- 50 - 55% Feldspar)- 20 - 25% Sericite 20 - 25% Epidote 3 - 10% Carbonate 3 - 5% Pyrite 3 - 5% Pyrrhotite 0.5 - 1% Abundant fracturing, microfaulting and microfolding, minor potassic alteration.	17170	3-5	115.7	117.0	1.3					tr.		
			17171	3-5	117.0	122.0	5.0						tr.	
			17172	3-5	122.0	127.0	5.0							tr.
			17173	3-5	127.0	131.0	4.0							tr.
			17174	3-5	131.0	132.8	1.8							tr.
132.8	193.5	INTERMEDIATE TUFFS AND FLOWS - 132.8 to 146.3 - massive flows, few fractures. - 146.3 to 161.2 - interbedded tuffs and flows 50:50, few fractures. - 161.2 to 193.5 - tuff with trace-3% pyrite and pyrrhotite, potassic alteration and quartz infilling of fractures at 17° to core axis. Voliation at 55° to core axis at 147.0, 65° at 157.0, 62° at 166.5, 56° at 177.0.	17175	tr-3	161.2	165.0	3.8						.01	
			17176	tr-3	165.0	167.0	2.0							tr.
			17177	tr-3	167.0	172.0	5.0							.02
			17178	tr-3	172.0	177.0	5.0							tr.
			17179	tr-3	177.0	182.0	5.0							tr.
			17180	tr-3	182.0	187.0	5.0							tr.
			17181	tr-3	187.0	192.0	5.0							tr.
			17182	tr-3	192.0	193.5	1.5							tr.
			17183	1-3	193.5	197.0	3.5							tr.
			17184	1-3	197.0	201.7	4.7							tr.
193.5	201.7	FELSIC VOLCANIC (ALTERED) - leek green to dark grey to light blue, fine grained, massive, highly fractured to brecciated. <u>Average Modes</u> Quartz-Chert 35 - 40% Sericite 25 - 30% Epidote 20 - 25% Pyrite 1 - 3% Carbonate 1 - 2%												

LANGRANGES - TORONTO - 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-2 SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHUR	FOOTAGE		%	%	G/TON	G/TON
					FROM	TO				
		Abundant black and green chert infillings and matrix in breccia zones; minor light blue chert; fractures with large dilations have colloform concentrically banded infillings; fine grained disseminated pyrite throughout.								
201.7	207.0	MAFIC FLOWS - typical, foliated at 60° to core axis at 207.0, pink dolomitic calcite (1-2%) as bands up to 1 inch wide, trace-0.5% pyrite.	17185	tr-0.5	201.7	205.6	4.9			tr.
207.0		End of Hole.								



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-3 LENGTH 265'
 LOCATION L20+02W 13+54N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 9, 1987 FINISHED JANUARY 10, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0				
257'	-40.0				

HOLE NO. KAS-87-3 SHEET NO. 1 of 2

REMARKS Summary Log

PA -786889

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SIL PH IDES	FOOTAGE		%	S	OZ/TON	OZ/TON
					FROM	TO				
0	12.0	CASING								
12.0	36.1	FELSIC TO INTERMEDIATE CRYSTAL TUFF								
36.1	38.6	MAFIC TO INTERMEDIATE FLOWS								
38.6	40.6	FELSIC TO INTERMEDIATE TUFF - CRYSTAL TUFF								
40.6	43.1	MAFIC TO INTERMEDIATE FLOWS								
43.1	43.9	FELSIC TO INTERMEDIATE CRYSTAL TUFF								
43.9	59.4	MAFIC TO INTERMEDIATE FLOWS								
59.4	60.6	FELSIC TO INTERMEDIATE TUFF								
60.6	62.3	MAFIC TO INTERMEDIATE FLOWS								
62.3	66.5	FELSIC TO INTERMEDIATE FLOWS								
66.5	98.7	FELSIC TO INTERMEDIATE CRYSTAL TUFF								
98.7	130.5	MAFIC TO INTERMEDIATE FLOWS AND TUFF - 50:50								
130.5	172.3	MAGNETIFEROUS METASEDIMENT - intermixed sediments † tuffa † iron formation?, 3-5% magnetite.	17221	tr-2	133.9	135.1	1.2			teruns
			17223	tr-2	137.0	139.2	2.2	.19	.17	
172.3	186.5	MAFIC TO INTERMEDIATE FLOWS - magnetic.						.23	.21	
186.5	189.0	GRANITE PEGMATITE INTRUSIVE								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-3 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO	FOOTAGE		%	GT TON	GT TON	GT TON
				FROM	TO				
189.0	203.1	<u>MAFIC FLOWS</u>							
203.1	217.4	<u>MAFIC TO INTERMEDIATE FLOWS</u>							
217.4	221.2	<u>MAFIC FLOWS</u>							
221.2	259.2	<u>MAFIC TO INTERMEDIATE FLOWS</u>							
259.2	260.3	<u>MAFIC FLOWS</u>							
260.3	265.0	<u>MAFIC TO INTERMEDIATE FLOWS</u>							
265.0		End of Hole.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-3 LENGTH 265'
 LOCATION L20+02W 13+54N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 9, 1987 FINISHED JANUARY 10, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	45.0°				
257'	40.0°				

HOLE NO. KAS-87-3 SHEET NO. 1 of 6

REMARKS _____

PA - 786889

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	12.0	<u>CASING</u>								
12.0	36.1	<u>FELSIC TO INTERMEDIATE CRYSTAL TUFF</u> - dark grey to dark brown to green, fine to medium grained, well foliated to poorly banded. <u>Average Modes</u> Quartz)- 35 - 40% Plagioclase)- Amphibole 25 - 30% Epidote 10 - 15% Biotite 3 - 5% Chlorite 3 - 5% Pyrite 2 - 3% Carbonate 1 - 2% Unoriented to bedded medium grained plagioclase and quartz crystals suspended in fine grained groundmass, foliation - banding averages 53° to core axis across interval, fine to medium grained pyrite disseminated to banded throughout, numerous quartz stringers, epidote fracture fillings. - 12.0 to 22.7 - heavy limonitic weathering. - 22.7 to 24.9 - fractured and brecciated with epidote infilling. - 24.9 to 27.7 - quartz veining, minor brecciated horizons, 3-5% pyrite as irregular bands and disseminated blebs. - 27.7 to 28.5 - epidote-amphibole rich horizon, finely laminated.								
			7186	2-3	12.0	17.0	5.0			tr.
			7187	2-3	17.0	19.7	2.7			tr.
			7188	2-3	19.7	22.7	3.0			tr.
			7189	2-3	22.7	24.9	2.2			tr.
			7190	3-5	24.9	27.7	2.8			tr.
			7191	2-3	27.7	28.5	0.8			tr.

1987-01-10 10:00 AM - 366-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-3 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	G/TON	G/TON
					FROM	TO	TOTAL				
		- 28.5 to 30.0 - finely laminated, few fractures.	17192	2-3	28.5	31.1	2.6			tr.	
		- 30.0 to 31.1 - reworked, massive, 10-15% fine to medium grained amphibole.									
		- 31.1 to 32.4 - typical.	17193	2-3	31.1	36.1	5.0			tr.	
		- 32.4 to 33.1 - highly fractured.									
		- 33.1 to 36.1 - quartz and feldspar rich lapilli.									
36.1	38.6	<u>MAFIC TO INTERMEDIATE FLOWS</u> - dark green, fine grained, massive to foliated at 52° to core axis at 38.3.	17194	tr-0.5	36.1	38.6	2.5			tr.	
		<u>Average Modes</u>									
		Amphibole 40 - 45%									
		Quartz)- 40 - 45%									
		Plagioclase)-									
		Chlorite 5 - 10%									
		Pyrite trace - 0.5%									
		Fracture-cleavage at 28-47° to core axis.									
38.6	40.6	<u>FELSIC TO INTERMEDIATE TUFF - CRYSTAL TUFF</u> - as above, poorly banded trace-1% pyrite as disseminated grains, narrow bands and fracture fillings.	17195	tr-1	38.6	40.6	2.0			tr.	
40.6	43.1	<u>MAFIC TO INTERMEDIATE FLOWS</u> - typical.	17196	-	40.6	43.1	2.5			tr.	
43.1	43.9	<u>FELSIC TO INTERMEDIATE CRYSTAL TUFF</u> - typical, trace pyrite.	17197	tr.	43.1	43.9	0.8			tr.	
43.9	59.4	<u>MAFIC TO INTERMEDIATE FLOWS</u> - typical, minor tuffaceous beds, few widely spaced fractures, trace-0.5% pyrite, foliation at 50° to core axis at 57.0.	17198	tr-0.5	43.9	47.0	3.1			tr.	
			17199	tr-0.5	57.0	59.4	2.4			tr.	
59.4	60.6	<u>FELSIC TO INTERMEDIATE TUFF</u> - typical.	17200	-	59.4	60.6	1.2			tr.	
60.6	62.3	<u>MAFIC TO INTERMEDIATE FLOWS</u> - typical.	17201	-	60.6	62.3	1.7			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-3 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	G/TON	G/TON	
					FROM	TO	TOTAL					
62.3	66.5	<u>FELSIC TO INTERMEDIATE FLOWS</u> - light to dark greenish-grey, fine grained, foliated - homogeneous. <u>Average Modes</u> Feldspar-Sericite)- 65 - 70% Quartz Amphibole 20 - 25% Chlorite 3 - 5% Few widely spaced fractures, foliated at 55° to core axis at 67.0.	17202	-	62.3	66.5	4.2				tr.	
66.5	98.7	<u>FELSIC TO INTERMEDIATE CRYSTAL TUFF</u> - typical, trace-1% disseminated pyrite, trace pink garnets in epidote-carbonate band. - 66.5 to 87.5 - typical. - 87.5 to 92.4 - 5-10% chlorite, dark green. - 92.4 to 97.0 - minor potassic alteration. - 97.0 to 98.7 - felsic or silicified felsic to intermediate tuff. Foliation at 58° to core axis at 77.0. Foliation at 56° to core axis at 86.2. Foliation at 54° to core axis at 97.0.	17203	tr-1	66.5	67.0	0.5				tr.	
			17204	tr-1	67.0	72.0	5.0				tr.	
			17205	tr-1	72.0	77.0	5.0				tr.	
			17206	tr-1	77.0	82.0	5.0				tr.	
			17207	tr-1	82.0	87.0	5.0				tr.	
			17208	tr-1	87.0	87.5	0.5				tr.	
			17209	tr-1	87.5	92.4	4.9				tr.	
			17210	tr-1	92.4	97.0	4.6				tr.	
			17211	tr-1	97.0	98.7	1.7				tr.	
98.7	130.5	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFFS</u> - typical, numerous chert and quartz-carbonate bands, trace-1% disseminated pyrite. - 122.6 to 123.2 - felsic to intermediate tuff with 3-5% pyrrhotite as blebs and wisps. - 126.3 to 130.5 - fracturing with 3-5% pyrite infillings. Fracture cleavage at 35-37° to core axis; foliation at 44° to core axis at 102.8, 60° at 119.8, 65° at 127.0.	17212	tr-1	98.7	102.0	3.3				tr.	
			17213	tr-1	102.0	107.0	5.0				tr.	
			17214	tr-1	107.0	112.0	5.0				tr.	
			17215	tr-1	112.0	117.0	5.0				tr.	
			17216	tr-1	117.0	122.0	5.0				tr.	
			17217	3-5	122.0	126.3	4.3				tr.	
			17218	3-5	126.3	130.5	4.2				tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-3 SHEET NO 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE	TOTAL	% Fe	% Cu	
130.5	172.3	<p>MAGNETIFEROUS METASEDIMENT - dark grey to pink to black, fine to medium grained, poorly banded with anastomosing to mottled layering.</p> <p><u>Average Modes</u></p> <p>Quartz)- 45 - 50% Feldspar)- 20 - 25% Amphibole 10 - 15% Garnet 3 - 5% Magnetite 1 - 2% Pyrite trace - 2% Chlorite trace - 1% Pyrrhotite trace - 0.5%</p> <p>Poorly foliated quartz-feldspar rich layers with 3-5% magnetite or trace-1% pyrite, amphibole rich layers have disseminated to clotted medium grained pink garnets, minor chert-carbonate bands and quartz stringers, pyrite coatings on widely spaced fractures, trace-0.5% pyrrhotite as rare disseminated grains, unit may represent inter-mixed tuffs ± sediments ± iron formation.</p> <p>- 132.0 to 133.9 - 0.5-1% disseminated pyrite.</p> <p>- 133.9 to 135.1 - 3-5% pyrite as disseminated grains and stringers.</p> <p>- 170.9 to 172.3 - transition zone, no garnets, 3-5% magnetite.</p> <p>Foliation at 57° to core axis at 140.0. Foliation at 61° to core axis at 148.0. Foliation at 64° to core axis at 162.0. Foliation at 53° to core axis at 170.0.</p>							
			17219	tr-2	130.5	132.0	1.5	tr	tr
			17220	0.5-1	132.0	133.9	1.9	.01	.01
			17221	tr-2	133.9	135.1	1.2	.19	.17
			17222	3-5	135.1	137.0	1.9	.04	.03
			17223	tr-2	137.0	139.2	2.2	.23	.21
			17224	tr-2	139.2	142.0	2.8	.03	.04
			17225	tr-2	142.0	147.0	5.0	.03	.04
			17226	tr-2	147.0	152.0	5.0	.02	.02
			17227	tr-2	152.0	157.0	5.0	tr.	
			17228	tr-2	157.0	162.0	5.0	tr.	
			17229	tr-2	162.0	167.0	5.0	.10	
			17230	tr-2	167.0	170.9	3.9	.04	
			17231	-	170.9	172.3	1.4	tr.	
172.3	186.5	<p>MAFIC TO INTERMEDIATE FLOWS - atypical, fine to medium grained, poorly foliated to massive, 3-5% magnetite as sporadic patches.</p> <p>- 172.3 to 183.0 - massive, medium grained.</p>	17232	-	172.3	173.3	1.0	tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-3 SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	G/T 100	G/T 100	
					FROM	TO	TOTAL					
		- 183.0 to 186.5 - fine grained, fractured with orthoclase-albite-quartz infilling near granitic intrusive.	17233	-	183.0	186.5	3.5					tr.
186.5	189.0	<u>GRANITE PEGMATITE INTRUSIVE</u> - greenish-yellow to white to orange-pink, highly fractured - massive. <u>Average Modes</u> Orthoclase-Microcline 50 - 55% Quartz 25 - 30% Plagioclase 5 - 10% Biotite Muscovite)- 3 - 5% Chlorite Pyrite trace - 0.5% Fracturing subparallel to core axis, chloritic fracture coatings and chlorite (mafic?) inclusions, some fractures infilled with fine grained albite, contacts at 20° to core axis.	17234	r-0.5	186.5	189.0	2.5					tr.
189.0	203.1	<u>MAFIC FLOWS</u> - dark green, fine grained, massive. <u>Average Modes</u> Amphibole 35 - 40% Plagioclase 35 - 40% Quartz 5 - 10% Chlorite 5 - 10% Barren fracture cleavages at 15° and 47° to core axis.										
		- 194.5 to 197.0 - silicified horizon with quartz veining, limonite-hematite weathering, 3-5% fine to coarse grained disseminated pyrite.	17235	3-5	194.5	197.0	2.5					tr.
203.1	217.4	<u>MAFIC TO INTERMEDIATE FLOWS</u> - typical, trace pyrite-pyrrhotite, few widely spaced fractures, foliated at 47° to core axis at 207.0.										

ANGRAGES - DRONTO - 366-1160

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-3 SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	%	G/TON	G/TON
					FROM	TO				
217.4	221.2	<u>MAFIC FLOWS</u> - atypical, coarse grained with plagioclase surrounding amphibole laths, no quartz, highly fractured.								
221.2	259.2	<u>MAFIC TO INTERMEDIATE FLOWS</u> - typical, foliated at 65° to core axis at 237.0, foliated at 62° to core axis at 247.0. - 237.0 to 244.4 - 3-5% epidote bands.	17236	-	237.0	242.0	5.0			tr.
			17237	-	242.0	244.4	2.4			tr.
259.2	260.3	<u>MAFIC FLOWS</u> - atypical as per 212.4 to 221.2, foliation at 53° to core axis at 259.2.								
260.3	265.0	<u>MAFIC TO INTERMEDIATE FLOWS</u> - typical, foliated at 63° to core axis at 265.0.								
265.0		End of Hole.								



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-4 LENGTH 307'
 LOCATION 113+00W 18+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED JANUARY 10, 1987 FINISHED JANUARY 11, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	47.0°				
307'	41.0°				

HOLE NO. KAS-87-4 SHEET NO. 1 of 2

REMARKS Summary log

PA - 786804

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO				
0	10.0	<u>CASING</u>							
10.0	80.7	<u>MAFIC FLOWS AND TUFF - 90:10</u>							
80.7	86.0	<u>METASEDIMENT (arenite or arenaceous-wacke)</u>							
86.0	167.9	<u>MAFIC FLOWS AND TUFF - 90:10</u>							
167.9	190.6	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF - 50:50</u>							
190.6	197.0	<u>FELSIC LAPILLI TUFF</u>							
197.0	200.8	<u>INTERMEDIATE FLOWS</u>							
200.8	214.8	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF - 50:50</u>							
214.8	217.0	<u>FELSIC TUFF</u>							
217.0	234.1	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF</u>							
234.1	280.8	<u>FELSIC TO INTERMEDIATE FLOWS AND TUFF</u>							
280.8	283.1	<u>METASEDIMENT (arkosic wacke)</u>							
283.1	284.6	<u>FELSIC TO INTERMEDIATE FLOWS AND TUFF</u>							
284.6	285.4	<u>FELSIC LAPILLI TUFF</u>							
285.4	291.8	<u>FELSIC TO INTERMEDIATE FLOWS AND TUFF</u>							

113+00W 18+00N
 113+00W 18+00N
 113+00W 18+00N

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO KAS-87-4 SHEET NO 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	oz / 10m	oz / 10m
					FROM	TO	TOTAL				
291.8	296.0	MAFIC TO INTERMEDIATE FLOWS									
296.0	307.0	FELSIC TO INTERMEDIATE FLOWS AND TUFF									
307.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-4 LENGTH 307'
 LOCATION L13+00W 18+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED January 10, 1987 FINISHED January 11, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-47.0°				
307'	-41.0°				

HOLE NO. KAS-87-4 SHEET NO. 1 of 7

REMARKS _____

PA - 786809

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	10.0	<u>CASING</u>								
10.0	80.7	<u>MAFIC FLOWS AND TUFF</u> Flows - dark green, fine to medium grained, massive, foliated. Tuffs - dark green to white to brown, fine grained, banded. <u>Average Modes</u> Amphibole 50 - 55% Quartz 35 - 40% Plagioclase)- Carbonate 1 - 2% Epidote 1 - 2% Pyrrhotite trace - 0.5% Pyrite)- Chalcopyrite trace - 0.5% Tuffs have 10-15% brown biotite bands; quartz veining, epidote bands in some sections, minor zones of intense fracturing. - 10.0 to 12.0 - abundant quartz veining. - 17.0 to 22.0 - quartz veins up to 1 foot wide, trace pyrite, pyrrhotite. - 25.0 to 27.0 - medium grained flows with 0.4 foot quartz vein. - 30.0 to 33.6 - minor fracturing with quartz-epidote-carbonate infilling, quartz veining.								
			07238	-	10.0	12.0	2.0			tr.
			07239	-	12.0	17.0	5.0			tr.
			07240	tr.	17.0	22.0	5.0			tr.
			07241	-	22.0	25.0	3.0			tr.
			07242	-	25.0	27.0	2.0			.01
			07243	-	27.0	30.0	3.0			tr.
			07244	-	30.0	33.6	3.6			.01
			07245	-	33.6	38.5	4.9			tr.

4-10-87-005 - 306-11-85

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-4 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPH IDES	FOOTAGE		%	G/TON	G/TON
					FROM	TO			
		- 38.5 to 40.0 - minor quartz veining, trace coarse grained pyrrhotite blebs.	17246	tr.	38.5	40.0	1.5		tr.
			17247	-	40.0	43.8	3.8		tr.
		- 43.8 to 47.0 - medium grained flows, quartz veining, trace-0.5% disseminated pyrrhotite.	17248	tr-0.5	43.8	47.0	3.2		.01
			17249	-	47.0	48.9	1.9		.01
		- 48.9 to 53.9 - tuff, quartz veining, trace-1% coarse grained pyrrhotite, <u>chalcopyrite</u> .	17250	tr-1	48.9	53.9	5.0		tr.
		- 78.9 to 80.7 - tuff, trace-0.5% disseminated pyrite.	17251	tr-0.5	78.9	80.9	2.0		tr.
		Foliation at 50° to core axis at 12.0. Foliation at 50° to core axis at 22.0. Foliation at 52° to core axis at 32.0. Foliation at 55° to core axis at 42.0. Foliation at 48° to core axis at 52.0. Foliation at 52° to core axis at 66.7. Foliation at 51° to core axis at 72.0.							
80.7	86.0	<u>METASEDIMENT</u> - dark grey, fine to medium grained, massive.	17252	1-2	80.7	82.0	1.3		tr.
		Average Modes	17253	1-2	82.0	86.0	4.0		tr.
		Quartz)- 70 - 75% Feldspar)- 5 - 10% Biotite)- 5 - 10% Amphibole)- 2 - 3% Carbonate)- 1 - 2% Pyrite)- 1 - 2%							
		1-2% pyrite as fracture fillings, trace coarse grained disseminated pyrite, possibly arenite-arenaceous wacke.							
86.0	167.9	<u>MAFIC FLOWS AND TUFF</u> - typical.							
		- 86.0 to 87.3 - tuff.	17254	-	86.0	87.3	1.3		tr.
		- 87.3 to 127.0 - flows.							
		- 89.7 - 90.0 - quartz veining with epidote, trace pyrite.	17255	tr.	87.3	91.8	4.5		tr.

LANGRANGES - TORONTO - 368-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-4 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	G/TON	G/TON	
					FROM	TO	TOTAL					
		- 91.4 to 91.8 - quartz vein, follows cherty horizon, mafic inclusions, trace pyrite.	17256	tr.	91.8	93.8	2.0				tr.	
		- 94.1 to 96.1 - quartz vein, trace pyrite on fractures.	17257	tr.	93.8	96.1	2.3				tr.	
			17258	-	96.1	99.5	3.4				tr.	
			17259	tr-1	99.5	104.5	5.0				.01	
		- 101.4 to 107.0 - quartz veining with trace-1% disseminated pyrite, pyrrhotite and <u>chalcopyrite</u> .	17260	tr-1	104.5	107.0	2.5				tr.	
		- 127.0 to 133.8 - tuff with narrow bands of 3-5% fine grained pyrite.	17261	3-5	127.0	132.0	5.0				tr.	
			17262	3-5	132.0	133.8	1.8				tr.	
		- 133.8 to 140.3 - flows, massive.	17263	-	133.8	137.0	3.2				tr.	
			17264	-	137.0	140.3	3.3				tr.	
		- 140.3 to 152.0 - tuff, minor quartz veining.	17265	-	140.3	142.0	1.7				tr.	
			17266	-	142.0	147.0	5.0				tr.	
		- 152.0 to 167.9 - flows, massive.	17267	-	147.0	152.0	5.0				tr.	
			17268	-	165.0	167.9	2.9				tr.	
		Foliation at 44° to core axis at 86.1. Foliation at 49° to core axis at 96.5. Foliation at 57° to core axis at 107.0. Foliation at 57° to core axis at 126.5. Foliation at 57° to core axis at 140.3. Foliation at 56° to core axis at 151.5.										
167.9	190.6	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF</u> - dark green to grey to brown, fine to medium grained, massive to foliated.	17269	tr-0.5	167.9	172.0	4.1				tr.	
		<u>Average Modes</u>										
		Amphibole 40 - 45%										
		Plagioclase)- 40 - 45%										
		Quartz										
		Biotite 5 - 7%										
		Carbonate 1 - 3%										
		Pyrrhotite)- trace - 0.5%										
		Pyrite										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAG-87-4 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO	% SUICIDE	FOOTAGE			%	%	OF 100	OF 100	
					FROM	TO	TOTAL					
		Few widely spaced fractures, numerous cherty bands, foliated at 57° to core axis at 182.0.										
		- 186.5 to 190.6 - highly fractured and altered tuff, narrow felsic horizons, minor irregular chert bands and chert matrix in brecciated zones, epidote-carbonate fracture fillings.	17270	-	186.5	190.6	4.1				tr.	
190.6	197.0	FELSIC LAPILLI TUFF - light to dark grey, fine to medium grained, well foliated at 57° to core axis at 193.0, speckled texture.	17271	tr-0.5	190.6	192.0	1.4				tr.	
		<u>Average Modes</u>										
		Quartz 30 - 35%										
		Plag/Sericite)- 45 - 50%										
		Orthoclase										
		Chlorite 5 - 10%										
		Epidote 1 - 2%										
		Carbonate 1 - 3%										
		Epidote and orange potassic alteration in irregular fracture - breccia zones, chert-epidote bands, trace-0.5% disseminated pyrite, well formed lapilli.										
197.0	200.8	INTERMEDIATE FLOWS - black to dark grey, massive to foliated at 58° to core axis at 200.0.	17273	-	197.0	200.8	3.8				tr.	
		<u>Average Modes</u>										
		Amphibole 35 - 40%										
		Plagioclase)- 30 - 35%										
		Quartz										
		Carbonate 5 - 10%										
		Epidote 5 - 10%										
		Chlorite 3 - 5%										
		Highly fractured with potassic alteration, epidote, chert and carbonate infillings.										

LANGRISHES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-4 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	UI 100	UI 100
200.8	214.8	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF</u> - typical. - 206.0 to 207.0 - 0.2 foot rusty, pink dolomitic-calcite stringer with 1-2% disseminated pyrite, dolomite fracture fillings.	17274	1-2	206.0	207.0	1.0			tr.
214.8	217.0	<u>FELSIC TUFF</u> - atypical, altered with 3-5% orthoclase, poorly banded.	17275	-	214.8	217.0	2.2			tr.
217.0	234.1	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF</u> - typical, foliated at 57° to core axis at 219.0, 53° at 234.0.	17276	-	217.0	220.0	3.0			.01
			17277	-	232.0	234.1	2.1			.01
234.1	280.8	<u>FELSIC TO INTERMEDIATE FLOWS AND TUFF</u> Flows - dark grey to green, fine grained. Tuffs - dark grey to green to brown, fine grained, poorly banded with abundant chert bands. <u>Average Modes</u> Quartz 25 - 30% Feldspar 30 - 35% Amphibole 20 - 25% Chlorite 3 - 5% Biotite 3 - 5% Highly fractured with quartz-epidote infillings in some horizons, quartz veining with trace-1% disseminated pyrite. Foliated at 57° to core axis at 248.2, 67° at 257.0, 57° at 267.0, 61° at 277.0. - 234.1 to 235.3 - highly fractured to brecciated, potassic alteration and epidote give an orange-green colour and mottled texture. - 235.3 to 248.2 - massive, few fractures. - 248.2 to 256.4 - highly fractured, quartz veining with trace-2% fine to coarse grained disseminated pyrite. - 256.4 to 275.8 - few fractures, quartz veining with trace-2% fine to coarse grained pyrite.	17278	-	234.1	235.3	1.2			.01
			17279	-	235.3	237.0	1.7			tr.
			17280	-	237.0	242.0	5.0			tr.
			17281	-	242.0	247.0	5.0			tr.
			17282	-	247.0	248.2	1.2			tr.
			17283	tr-2	248.2	252.0	3.8			tr.
			17284	tr-2	252.0	257.0	5.0			.01
			17285	tr-2	257.0	258.4	1.4			.02
			17286	tr-2	258.4	262.0	1.6			tr.
			17287	tr-2	262.0	267.0	5.0			.01
			17288	tr-2	267.0	272.0	5.0			tr.
			17289	tr-2	272.0	277.0	5.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-4 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	%	G/TON	G/TON
					FROM	TO				
		- 275.8 to 277.0 - carbonatized intermediate flow, min. quartz veining.								
		- 277.0 to 280.8 - massive, few fractures, minor quartz veining, trace-0.5% pyrite.	17290	tr-0.5	277.0	280.8	3.8			tr.
280.8	283.1	<u>METASEDIMENT</u> - dark green to red, fine grained with medium grained black specks, massive. <u>Average Modes</u> Quartz 35 - 40% Orthoclase 20 - 25% Biotite 5 - 10% Amphibole 5 - 10% Carbonate 5 - 10% Chlorite 5 - 10% Visible grains of feldspar, chlorite, biotite, grades into lower unit, may represent an arkosic-wacke. - 280.8 to 281.1 - 2-3% pyrite wisps in contact zone.	17291	tr-3	280.8	283.1	2.3			tr.
283.1	284.6	<u>FELSIC TO INTERMEDIATE FLOWS AND TUFF</u> - typical.	17292	-	283.1	285.4	2.3			tr.
284.6	285.4	<u>FELSIC LAPILLI TUFF</u> - typical.								
285.4	291.8	<u>FELSIC TO INTERMEDIATE FLOWS AND TUFF</u> - typical, foliated at 56° to core axis at 287.0.	17293	tr-2	291.8	296.0	4.2			tr.
291.8	296.0	<u>MAFIC TO INTERMEDIATE FLOWS</u> - atypical, fine to medium grained, dark green with medium grained chlorite, quartz veining, trace-2% disseminated pyrite. - 295.4 to 296.0 - chloritic quartz vein with trace-0.5% disseminated pyrite.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGININNIS LAKE

HOLE NO. KAS-87-4 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SUIPHIDES	FOOTAGE			%	%	oz ton	oz ton	
					FROM	TO	TOTAL					
296.0	307.0	FELSIC TO INTERMEDIATE FLOWS AND TUFF - typical, few widely spaced fractures, tuff bands with 1-2% disseminated pyrite, foliated at 54° to core axis at 297.0, 53° at 306.6.	17294	1-2	296.0	297.0	1.0				tr.	
			17295	1-2	297.0	302.0	5.0					tr.
			17296	1-2	302.0	307.0	5.0					tr.
307.0		End of Hole.										



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-5 LENGTH 387'
 LOCATION L19+99W 21+52N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 186° DIP -45°
 STARTED January 11, 1987 FINISHED January 13, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-37.8°				
387'	-33.0°				

HOLE NO. EAS-87-5 SHEET NO. 1 OF 2

REMARKS Summary Log

PA - 786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	PH IDLS	FOOTAGE FROM TO TOTAL		%	g/t/ton	g/t/ton
0	9.0	CASING							
9.0	100.2	AMPHIBOLITIC MAFIC FLOWS AND TUFF - 80:20							
100.2	102.6	INTERMEDIATE FLOWS							
102.6	105.0	MAFIC TUFF							
105.0	105.7	INTERMEDIATE FLOWS							
105.7	114.3	MAFIC FLOWS							
114.3	122.8	INTERMEDIATE FLOWS							
122.8	233.9	AMPHIBOLITIC MAFIC FLOWS AND TUFF - 80:20							
233.9	266.1	MAFIC TO INTERMEDIATE FLOWS AND TUFF - 95:5							
266.1	274.8	INTERMEDIATE TUFF							
274.8	352.1	MAFIC FLOWS AND TUFF							
		- 274.8 to 281.1 - flows, fine grained							
		- 281.1 to 282.3 - tuff							
		- 282.3 to 307.0 - flows, fine grained							
		- 307.0 to 326.4 - flows, medium grained							
		- 326.4 to 352.1 - interbedded flows and tuff							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIINNIS LAKE
 HOLE NO KAS-87-5 SHEET NO 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPH IDES	FOOTAGE		%	G/T TON	G/T TON
					FROM	TO			
352.1	356.5	INTERMEDIATE FLOWS							
356.5	387.0	MAFIC FLOWS							
387.0		End of Hole.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-5 LENGTH 387'
 LOCATION 119+99W 21+52N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 186° DIP -45°
 STARTED JANUARY 11, 1987 FINISHED JANUARY 13, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-37.8°				
387'	-33.0°				

HOLE NO. KAS-87-5 SHEET NO. 1 of 5

REMARKS _____

PA - 786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SPL. HOLES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON	
0	9.0	<u>CASING</u>								
9.0	100.2	<u>AMPHIBOLITIC MAFIC FLOWS AND TUFF</u> - dark green to dark grey, coarse grained, massive to banded, foliated. <u>Average Modes</u> Plagioclase 35 - 40% Amphibole 35 - 40% Quartz 10 - 15% Albite 3 - 5% Biotite 1 - 2% Carbonate trace - 1% Flows poorly foliated to massive, Tuffs banded - well foliated, irregular corroded to feathery amphibole laths, fine grained disseminated wisps of albite in some sections, minor quartz veining and chert bands, common epidote-rich horizons (3-57), trace-1% disseminated pyrite in some horizons. - 9.0 to 16.8 - coarse grained flow. - 16.8 to 27.0 - finely banded, foliated at 52° to core axis at 20.0, epidote-quartz horizons with 1-2% coarse grained disseminated pyrite, 2-3% chlorite. - 27.0 to 41.8 - massive coarse grained flows, few widely spaced fractures. - 41.8 to 54.4 - fine to crude banding, minor quartz stringers, trace-0.5% pyrite throughout, foliated at 60° to core axis at 46.0.								
			17297	1-2	16.8	20.0	3.2		tr.	
			17298	1-2	20.0	25.0	5.0		tr.	
			17299	1-2	25.0	27.0	2.0		tr.	
			17300	r-0.5	41.8	45.0	3.2		tr.	
			17301	r-0.5	45.0	47.0	2.0		tr.	
			17302	r-0.5	47.0	52.0	5.0		tr.	
			17303	r-0.5	52.0	54.4	2.4		tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-5 SHEET NO 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SHPH IDS	FOOTAGE FROM TO Total	wt %	wt %		
		- 54.4 to 69.7 - foliated medium to coarse grained, banded quartz-epidote, tuffaceous horizons with trace-0.57 pyrite. Minor quartz veining, 3-5% biotite, fine albite wisps, foliated at 56° to core axis at 69.4.	17304	r-0.5	54.4	55.9	1.5		tr.
			17305	r-0.5	55.9	60.4	4.5		tr.
			17306	r-0.5	60.4	62.0	1.6		tr.
			17307	r-0.5	62.0	67.0	5.0		tr.
			17308	r-0.5	67.0	69.7	2.7		tr.
		- 69.7 to 82.9 - coarse grained, massive, flows, 3-5% sphene, few widely spaced fractures.							
		- 82.9 to 94.1 - finely banded flows and tuff, foliation - banding at 60° to core axis at 84.5, quartz-epidote veining with 1-2% potash feldspar inclusions (?).	17309	-	82.9	86.0	3.1		tr.
			17310	-	86.0	88.7	2.7		tr.
			17311	-	88.7	92.0	3.3		tr.
			17312	-	92.0	94.1	2.1		tr.
			17313	-	94.1	97.0	2.9		tr.
			17314	-	97.0	100.2	3.2		tr.
100.2	102.6	<u>INTERMEDIATE FLOWS</u> - dark grey, fine grained, massive.	17315	3-5	100.2	102.6	2.4		tr.
		<u>Average Modes</u>							
		Plagioclase)- 40 - 45%							
		Sericite							
		Amphibole 35 - 40%							
		Quartz 5 - 10%							
		Pyrite 3 - 5%							
		No fracturing, fine disseminated pyrite throughout, minor quartz veining with chloritic inclusions.							
102.6	105.0	<u>MAFIC TUFF</u> - typical, foliated at 56° to core axis at 104.7, 1-2% coarse grained disseminated pyrite.	17316	1-2	102.6	105.0	2.4		tr.
105.0	105.7	<u>INTERMEDIATE FLOW</u> - typical, 3-5% pyrite.	17317	3-5	105.0	105.7	0.7		tr.
105.7	114.3	<u>MAFIC TUFF</u> - typical, foliated at 53° to core axis at 112.0, 1-2% disseminated pyrite, minor quartz veining.	17318	1-2	105.7	107.0	1.3		tr.
			17319	3-5	107.0	112.0	5.0		tr.
		- 107.8 to 109.2 - 3-5% disseminated pyrite.	17320	1-2	112.0	114.3	2.3		tr.

ANALYSES - TORONTO - 106 1108

DIAMOND DRILL RECORD

NAME OF PROPERTY ... KASAGIMINNIS LAKE
 HOLE NO ... KAS-87-5 SHEET NO 1 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO	% SULPHIDES	FROM	TO	TOTAL			32 TON	12 TON	
114.3	122.8	<u>INTERMEDIATE FLOWS</u> - typical, foliated at 57° to core axis at 119.0 3-5% fine grained disseminated and coarse grained fracture filling pyrite, chloritic fracture coatings, quartz veining with trace-1% <u>tourmaline</u> .	17321	3-5	114.3	117.0	2.7				tr.	
			17322	3-5	117.0	122.0	5.0				tr.	
			17323	7-10	122.0	122.8	0.8				tr.	
122.8	233.9	<u>AMPHIBOLITIC MAFIC FLOWS AND TUFF</u> - typical, foliated at 64° to core axis at 171.2, 70° at 222.5. - 122.8 to 127.0 - 1-2% pyrite as fracture fillings. - 156.0 to 157.0 - 0.5' intermediate flow, 0.5-1% pyrite. - 159.3 to 161.1 - fine grained flows, epidote rich. - 162.4 to 164.9 - quartz veining with minor epidote. - 167.0 to 169.0 - quartz-epidote veining, 0.5-1% dissemi- nated pyrite, trace-0.5% <u>tourmaline</u> . - 175.0 to 177.6 - quartz-epidote veining with trace-0.5% disseminated pyrite. - 182.0 to 187.0 - quartz-epidote veining with trace <u>tourmaline</u> . - 210.0 to 214.0 - quartz veining.	17324	1-2	122.8	127.0	4.2				tr.	
			17325	0.5-1	156.0	157.0	1.0				tr.	
			17326	tr.	157.0	159.3	2.3				tr.	
			17327	tr.	159.3	161.1	1.8				tr.	
			17328	tr.	161.1	162.4	1.3				tr.	
			17329	tr.	162.4	164.9	2.5				tr.	
			17330	tr.	164.9	167.0	2.1				.01	
			17331	0.5-1	167.0	169.0	2.0				tr.	
			17332	tr.	169.0	171.0	2.0				tr.	
			17333	tr.	171.0	175.0	4.0				tr.	
			17334	0.5	175.0	177.6	2.6				tr.	
17335	tr.	177.6	182.0	4.4				tr.				
17336	tr.	182.0	187.0	5.0				tr.				
17337	-	210.0	214.0	4.0				tr.				
233.9	266.1	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF</u> - dark grey-dark green, fine grained, foliated. <u>Average Modes</u> Quartz)- 45 - 50% Plagioclase)- 25 - 30% Amphibole 25 - 30% Chlorite 5 - 10% Epidote 5 - 10% Pyrite trace - 1%										

M. W. - CANADA - 1980/01/17

DIAMOND DRILL RECORD

NAME OF PROPERTY ...

KASAGININNIS LAKE

HOLE NO ... KAS-87-5

SHEET NO 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SUPTM IDES	FOOTAGE FROM TO TOTAL			Gr. Tm	Gr. Tm	
		Foliated at 67° to core axis at 237.5, 72° at 248.0, 67° at 257.0, 71° at 266.0. Few widely spaced fractures, common epidote-chert bands, fine grained disseminated pyrite.								
		- 233.9 to 239.2 - numerous cherty bands, trace-17 disseminated pyrite.	17338	tr-1	233.9	236.9	3.0			tr.
			17339	tr-1	236.9	239.2	2.3			tr.
			17340	tr.	261.1	266.1	5.0			tr.
266.1	274.8	<u>INTERMEDIATE TUFF</u> - dark grey, fine grained, banded, foliated.	17341	tr-0.5	266.1	267.1	1.0			tr.
		<u>Average Modes</u>	17342	tr-0.5	267.1	272.0	4.9			tr.
		Quartz)- 45 - 50%	17343	tr-0.5	272.0	274.8	2.8			tr.
		Plagioclase)- 25 - 30%								
		Amphibole 5 - 10%								
		Chlorite 3 - 5%								
		Carbonate 3 - 5%								
		Epidote trace - 0.5%								
		Pyrite								
		Few widely spaced fractures with pyrite coatings.								
274.8	352.1	<u>MAFIC FLOWS AND TUFF</u> - typical, foliated at 67° to core axis at 280.5, 53° at 307.8, 70° at 337.0.								
		- 274.8 to 281.1 - flows	17344	-	274.8	277.0	2.2			tr.
		- 281.1 to 282.3 - tuff	17345	-	277.0	281.1	4.1			tr.
		- 282.3 to 307.0 - flows	17346	-	281.1	282.3	1.2			tr.
		- 287.0 to 290.5 - quartz veining, 3-5% epidote bands.	17347	-	282.3	287.0	4.7			tr.
		- 297.0 to 307.0 - quartz veining, trace-17 disseminated pyrite.	17348	-	287.0	290.5	3.5			tr.
		- 307.0 to 326.4 - medium grained flows with quartz veining.	17349	-	290.5	292.0	1.5			tr.
		- 316.0 to 320.3 - quartz vein with trace-17	17350	-	292.0	297.0	5.0			tr.
			17351	tr-1	297.0	302.0	5.0			tr.
			17352	tr-1	302.0	307.0	5.0			tr.
			17353	tr-1	307.0	312.0	5.0			tr.
			17354	tr-1	312.0	316.0	4.0			tr.
			17355	tr-1	316.0	320.3	4.3			tr.

AN. PROGES - TORONTO - 1961-1968

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGMINNIS LAKE
 HOLE NO KAS-87-5 SHEET NO 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SUICIDE	FOOTAGE			%	%	G/TON	G/TON
					FROM	TO	TOTAL				
		pyrite on contacts and in chloritic inclusions. - 326.4 to 352.1 - interbedded flows and tuff, common chert bands.									
352.1	356.5	<u>INTERMEDIATE FLOWS</u> - typical, foliated at 63° to core axis at 352.1 trace-0.5% disseminated pyrite.	17356	0.5	352.1	356.5	4.4				tr.
356.5	387.0	<u>MAFIC FLOWS</u> - typical, fine grained, foliated at 70-72° to core axis across interval.	17357	-	382.0	387.0	5.0				tr.
387.0		End of Hole.									



LANGRISHES - TORONTO - 396-1196

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-6 LENGTH 347'
 LOCATION 25+50W 4+15S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 13, 1987 FINISHED JANUARY 14, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
207'	-41.8°				
347'	-40.9°				

HOLE NO. KAS-87-6 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786806

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO				
0	9.0	<u>CASING</u>							
9.0	192.5	<u>MAFIC TO INTERMEDIATE FLOWS</u>							
192.5	302.3	<u>MAFIC FLOWS</u>							
302.3	316.2	<u>TRANSITION - SULPHIDE ZONE</u> - gradational contact between Mafic Flows and Felsic Pyroclastics. 10-15% pyrrhotite, 3-5% pyrite as stringers and blebs in highly folded zone. - 314.9 to 315.5 - 80-85% pyrrhotite, 3-5% pyrite, 5-10% quartz and mafic rounded clasts.							
316.2	338.8	<u>FELSIC PYROCLASTICS</u>							
338.8	347.0	<u>FELSIC TO INTERMEDIATE PYROCLASTICS</u>							

ANGR0455 - 1080117 - Rev. 1-85

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGININNIS LAKE
 HOLE NO. KAS-87-6 LENGTH 347'
 LOCATION 25+50W 4+15S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 13, 1987 FINISHED JANUARY 14, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
207'	-41.8°				
347'	-40.9°				

HOLE NO. KAS-87-6 SHEET NO. 1 of 4

REMARKS _____

PA - 786806

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SUPPH INDEX	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	9.0	<u>CASING</u>							
9.0	192.5	<p><u>MAFIC TO INTERMEDIATE FLOWS</u> - dark grey to dark green, fine grained massive to banded.</p> <p><u>Average Modes</u></p> <p>Amphibole 35 - 40%</p> <p>Plagioclase)- 30 - 35%</p> <p>Quartz</p> <p>Chlorite 10 - 15%</p> <p>Biotite 3 - 5%</p> <p>Carbonate trace - 2%</p> <p>Garnet trace - 3%</p> <p>Possibly pillowed flows with very fine grained amphibole-chlorite-garnet selvages (medium to coarse grained garnet porphyroblasts), trace-2% disseminated pyrite, trace pyrite, <u>chalcopyrite</u> and pyrrhotite disseminated throughout, 0.5-1% pyrite as fracture coatings on chloritic fractures, numerous irregular quartz-carbonate stringers, chlorite pseudomorphs after coarse grained (porphyritic) pyroxenes?</p> <p>- 9.0 to 10.0 - quartz-carbonate stringers, coarse grained.</p> <p>- 23.8 to 24.1 - quartz-carbonate stringers with chloritic inclusions.</p> <p>- 34.7 to 35.2 - quartz-carbonate stringers.</p> <p>- 51. to 52.8 - quartz-carbonate vein, irregular.</p>							
			17358	tr-2	9.0 12.0 3.0			tr.	
			17359	tr-2	22.0 27.0 5.0			tr.	
			17360	tr-2	32.0 37.0 5.0			tr.	
			17361	tr-2	51.7 52.8 1.1			tr.	
			17362	tr-2	52.8 57.0 4.2			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-6 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	G/TON	
					FROM	TO	TOTAL				
		- 60.1 to 62.6 - silicified flow, quartz veining sub-parallel to core axis, trace-0.5% pyrite on grain boundaries.	17367	tr-2	57.0	60.1	3.1			tr.	
			17363	tr-0.5	60.1	62.6	1.5			tr.	
			17364	tr-2	62.6	67.0	4.4			tr.	
		- 70.5 to 70.8 - quartz-carbonate vein.	17365	tr-2	67.0	72.0	5.0			tr.	
		- 73.7 to 75.0 - silicified flow, quartz stringers.	17366	tr-2	72.0	77.0	5.0			tr.	
			17368	tr-2	77.0	79.0	2.0			tr.	reruns
			17369	tr-2	79.0	82.6	3.6			.01	tr.
		- 79.0 to 82.6 - silicified-sericitized flow, highly fractured with quartz-epidote infillings, quartz veining with trace-2% coarse grained pyrrhotite, fracture-cleavages at 37° and 8-12° to core axis.									
		- 98.7 to 109.5 - fracturing-faulting with slip parallel to core axis, very coarse grained biotite laths, 0.5-1% coarse grained pyrrhotite blebs, irregular quartz stringers.	17370	0.5-1	98.7	102.0	3.3			tr.	tr.
			17371	0.5-1	102.0	107.0	5.0			tr.	tr.
			17372	0.5-1	107.0	108.5	1.5			tr.	tr.
			17373	0.5-1	108.5	109.5	1.0			tr.	tr.
		- 126.9 to 127.7 - silicified-sericitized flow.									
		- 142.0 to 162.0 - 0.5-2% fine grained, disseminated pyrite in mafic (amphibole-chlorite) bands, quartz veining.	17374	0.5-2	142.0	147.0	5.0			tr.	tr.
			17375	0.5-2	147.0	152.0	5.0			tr.	tr.
			17376	0.5-2	152.0	157.0	5.0			tr.	tr.
			17377	0.5-2	157.0	162.0	5.0			tr.	tr.
		- 190.7 to 192.5 - tuffaceous horizon, 10-15% biotite.	17378	-	190.7	192.5	1.8			tr.	tr.
		Foliation averages 59.1° to core axis across section.									
192.5	302.3	MAFIC FLOWS - greenish-grey to dark green to black, fine to medium grained, massive - foliated.	17379	0.5-1	192.5	197.0	4.5			tr.	tr.
			17380	0.5-1	217.0	222.0	5.0			tr.	tr.
		<u>Average Modes</u>									
		Amphibole 40 - 45%									
		Chlorite 20 - 25%									
		Plagioclase 20 - 25%									
		Quartz									
		Biotite 3 - 5%									

ANGROGES - TORONTO - 306-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-6 SHEET NO 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	U/TON
					FROM	TO	TOTAL			
		Numerous chlorite-biotite bands with trace-3% fine to very coarse grained hypidiomorphic to idiomorphic pink garnets, 0.5-1% disseminated pyrite and pyrrhotite, minor quartz ± carbonate veining in some sections, chloritic fractures with pyrite coatings, foliation averages 66.6° to core axis across section.								
		- 252.8 to 255.6 - quartz veining with carbonate and 1-2% coarse grained pyrrhotite.	17381	0.5-1	247.0	252.0	5.0		tr.	tr.
			17382	1-2	252.0	257.0	5.0		tr.	tr.
		- 287.3 to 302.3 - increasing pyrrhotite content (trace-2%), magnetism and garnets 1 to 5%.	17383	0.5-1	282.3	287.3	5.0		tr.	tr.
			17384	tr-2	287.3	292.3	5.0		tr.	tr.
			17385	tr-2	292.3	297.3	5.0		tr.	tr.
			17386	tr-2	297.3	302.3	5.0		tr.	tr.
302.3	316.2	<u>TRANSITION - SULPHIDE ZONE</u> - gradational contact zone between lower felsics and upper mafic flows, garnet content increases from 5 to 15% across interval, zone is highly deformed - folded, with numerous pyrrhotite ± pyrite stringers and blebs, overall sulphide content 10 to 20% with 10-15% pyrrhotite and 3-5% pyrite; pyrrhotite stringers have inclusions of rounded quartz and mafic clasts.	17387	10-20	302.3	307.0	4.7		.58	tr.
			17388	10-20	307.0	312.0	5.0		tr.	tr.
			17389	10-20	312.0	316.2	4.2		1.40	tr.
		- 314.9 to 315.5 - 80-80% pyrrhotite, with 5-10% quartz and mafic clasts, 3-5% pyrite blebs.								
316.2	338.8	<u>FELSIC PYROCLASTICS</u> - dark to light grey to pink, fine grained, fine undulose laminations to massive to mottled.	17390	tr-2	316.2	318.0	1.8		tr.	tr.
			17391	tr-2	318.0	322.0	4.0		tr.	tr.
			17392	tr-2	322.0	327.0	5.0		tr.	tr.
			17393	tr-2	327.0	332.0	5.0		tr.	tr.
			17394	tr-2	332.0	337.0	5.0		tr.	tr.
			17395	tr-2	337.0	338.8	1.8		tr.	tr.
		<u>Average Modes</u>								
		Sericite 30 - 35%								
		Garnet 20 - 25%								
		Quartz 20 - 25%								
		Grunerite 5 - 10%								
		Chlorite 1 - 2%								
		Pyrite trace - 2%								
		Biotite trace - 1%								
		Pink allotriomorphic to idiomorphic garnets as massive bands and disseminated grains, pyrite throughout and as fracture fillings, grunerite as greenish-brown blebs in garnet-sericite bands, sporadic chloritic quartz stringers, foliation averages 66.5° to core axis								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-6 SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	GT TON	GT TON
				FROM	TO	TOTAL					
338.8	347.0	<p><u>FELSIC TO INTERMEDIATE PYROCLASTICS</u> - dark grey, fine grained, banded to massive, foliated.</p> <p><u>Average Modes</u></p> <p>Sericite 30 - 35%</p> <p>Quartz 20 - 25%</p> <p>Chlorite 15 - 20%</p> <p>Amphibole 15 - 20%</p> <p>Garnet 1 - 2%</p> <p>Trace-0.5% disseminated pyrite, trace-2% fine grained pyrite on grain boundaries in sporadic quartz stringers, foliation averages 66.5° to core axis across interval.</p>	17396	tr-2	338.8	342.0	3.2			tr.	
			17397	tr-2	342.0	347.0	5.0			tr.	
347.0		End of Hole.									



LANGRISHES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-7 LENGTH 317'
 LOCATION 140+00E 2+54N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED January 22, 1987 FINISHED January 21, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
317'	-36.9°				

HOLE NO. KAS-87-7 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786858

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS					
FROM	TO		NO.	SIZES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	8.0	<u>CASING</u>										
8.0	37.0	<u>INTERMEDIATE FLOWS AND TUFFS - 90:10</u>										
37.0	46.2	<u>MAPIC TUFF</u>										
46.2	194.8	<u>MAPIC FLOWS AND TUFF</u> - 46.2 to 87.0 - carbonatized flows, quartz veining. - 87.0 to 133.2 - weakly carbonatized flows. - 133.2 to 171.4 - tuff, spotty (1-3%) magnetite. - 171.4 to 181.5 - weakly carbonatized flows. - 181.5 to 194.8 - tuff, as in 133.2 to 171.4, fractured, quartz veining.										
194.8	317.0	<u>FELSIC VOLCANICS</u> - (porphyritic dacite flows?)										
317.0		End of Hole.										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-7 LENGTH 317'
 LOCATION L40+00E 2+54N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED January 19, 1987 FINISHED January 21, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
317'	-36.9°				

HOLE NO. KAS-87-7 SHEET NO. 1 of 4

REMARKS _____

PA - 786858

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO	TOTAL				
0	8.0	<u>CASING</u>								
8.0	37.0	<u>INTERMEDIATE FLOWS AND TUFF</u> - dark grey to black, fine to medium grained, foliated. <u>Average Modes</u> Amphibole 35 - 40% Plagioclase)- 35 - 40% Quartz Chlorite 5 - 10% Garnet 3 - 5% Carbonate 3 - 5% Pyrite trace - 1% Chlorite & amphibole bands with fine to coarse grained idiomorphic pink garnets, slightly carbonatized, pyrite as disseminated blebs and fracture coatings, fracture-cleavage 47° at 17.0, foliation at 57° to core axis at 15.0, 52° at 32.0, 55° at 34.3. - 27.0 to 30.0 - quartz veining irregular, trace-2% disseminated pyrite. - 33.4 to 37.0 - tuff, banded, 5-7% carbonate, 3-5% chert bands.	17398	tr-1	8.0	12.0	4.0			.01
			17399	tr-2	27.0	30.0	3.0			.03
			17400	tr-1	30.0	33.4	3.4			.01
			17401	-	33.4	37.0	3.6			.01
37.0	46.2	<u>MAFIC TUFF</u> - dark green to dark grey, fine grained, banded. <u>Average Modes</u> Amphibole 25 - 30% Quartz 25 - 30%								

AN-005 - FORM 10 - 3-6-1988

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-7 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	T. SULPH. IDE'S	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
		Chlorite 15 - 20%								
		Feldspar 5 - 10%								
		Carbonate 5 - 7%								
		Chert 3 - 5%								
		Banding - foliation at 61° to core axis at 42.0.								
		- 37.0 to 41.3 - quartz veining, trace-2% pyrite as disseminated grains and stringers.	17402	tr-2	37.0	41.3	4.3			tr.
			17403	tr-1	41.3	46.2	4.9			tr.
46.2	194.8	MAFIC FLOWS AND TUFF - dark green, fine to medium grained, massive to foliated flows, typical tuffs.								
		<u>Average Modes</u>								
		Amphibole 30 - 35%								
		Quartz 30 - 35%								
		Plagioclase)-								
		Chlorite 10 - 15%								
		Carbonate 5 - 7%								
		Garnet 3 - 5%								
		Pyrite trace - 3%								
		Abundant brecciation; intense fracturing; quartz veining, foliated 61° to core axis at 63.0, 55° at 72.0, 58° at 82.0.								
		- 46.2 to 87.0 - carbonatized flows with abundant carbonate fracture fillings, trace-3% pyrite as blebs, stringers and disseminated grains in chlorite-garnet bands and quartz veins, some quartz veins with chlorite and trace <u>tourmaline</u> .	17404	tr-3	46.2	50.0	3.8			tr.
			17405	tr-3	50.0	52.0	2.0			tr.
			17406	tr-3	52.0	57.0	5.0			.01
			17407	tr-3	57.0	61.5	4.5			tr.
			17408	tr-3	61.5	63.0	1.5			.01
			17409	tr-3	63.0	67.0	4.0			tr.
			17410	tr-3	67.0	72.0	5.0			tr.
			17411	tr-3	72.0	77.0	5.0			tr.
			17412	tr-3	77.0	82.0	5.0			tr.
		- 87.0 to 133.2 - minor fracturing and carbonatization, trace pyrite foliated at 58° to core axis at 91.5, 62° at 106.0, 57° at 126.0.	17413	tr-3	82.0	87.0	5.0			tr.
			17414	0.5-1	97.0	102.0	5.0			tr.
			17415	0.5-1	102.0	107.0	5.0			tr.
			17416	0.5-1	107.0	112.0	5.0			tr.
		- 97.0 to 117.0 - minor quartz veining, 0.5-1% disseminated pyrite, trace-1% disseminated gar-	17417	0.5-1	112.0	117.0	5.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY..... KASAGIMINNIS LAKE
 HOLE NO. KAS-87-7 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS									
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	GT TON	GT TON				
					FROM	TO	TOTAL								
194.8	317.0	- 133.2 to 171.4 - tuff, 5-15% garnets stretched parallel to foliation, spotty magnetic bands and laminations with 1-3% magnetite, 1-2% pyrite as fracture coatings.	17418	1-2	133.2	137.0	3.8					tr.			
			17419	1-2	142.0	147.0	5.0					tr.			
			17420	1-2	157.0	162.0	5.0					tr.			
			17421	1-2	162.0	167.0	5.0					tr.			
			17422	1-2	167.0	171.4	4.4					tr.			
				- 171.4 to 181.5 - flows, weakly carbonatized, foliated at 60° to core axis at 171.4, 63° at 181.3.											
				- 181.5 to 194.8 - tuff, as in 133.2 to 171.4, quartz veining, highly fractured with quartz-carbonate infillings and 1-2% pyrite.	17423	1-2	181.5	186.5	5.0					tr.	
					17424	1-2	186.5	188.5	2.0					tr.	
					17425	1-2	188.5	192.0	3.5					tr.	
					17426	1-2	192.0	194.8	2.8					tr.	
				- 188.5 to 189.4 - irregular quartz vein, 1-2% disseminated, coarse grained pyrite.											
				FELSIC VOLCANICS - dark grey, fine to medium grained, finely laminated to poorly banded.	17427	3-5	194.8	197.0	2.2					tr.	
					17428	1-2	197.0	202.0	5.0					tr.	
					17429	1-2	227.0	232.0	5.0					tr.	
					17430	1-2	237.0	242.0	5.0					tr.	
			17431	1-2	252.0	257.0	5.0					tr.			
			17432	1-2	257.0	262.0	5.0					tr.			
			17433	2-4	267.0	272.0	5.0					tr.			
			17434	2-4	272.0	277.0	5.0					tr.			
			17435	2-4	277.0	282.0	5.0					tr.			
			17436	2-4	282.0	285.4	3.4					tr.			
			17437	1-3	297.0	299.5	2.5					tr.			
			17438	1-2	299.5	302.0	2.5					tr.			
			17439	1-2	302.0	307.0	5.0					tr.			
			17440	1-2	307.0	312.0	5.0					tr.			
			17441	1-2	312.0	317.0	5.0					tr.			
		<u>Average Modes</u>													
		Sericite 45 - 50%													
		Chlorite 15 - 20%													
		Quartz 10 - 15%													
		Plagioclase 10 - 15%													
		Pyrite)- 1 - 2%													
		Pyrrhotite)-													
		Foliation averages 63.7° to core axis, chloritized medium to coarse grained pyroxene grains and recrystallized porphyroclasts of corroded coarse grained plagioclase, trachytic texture in some horizons, may represent porphyritic dacite flows, pyrrhotite as disseminated blebs, pyrite as fracture fillings, stringers, beds; few widely spaced fractures parallel to core axis.													
		- 194.8 to 196.2 - distorted, silicified horizon, 3-5% pyrite as blebs, trace coarse grained magnetite blebs.													
		- 267.0 to 285.4 - coarse grained chloritized pyroxenes, 0.5-1% pyrrhotite, 1-3% pyrite.													

LANGRISHES - TORONTO - 388-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY.....KASAGIMINNIS LAKE
 HOLE NO. KAS-87-7 SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	S. S. I.D.E.S.	FOOTAGE		%	%	GZ 10m	GZ 10m
					FROM	TO				
		- 297.0 to 299.5 - minor mafic tuff bands, 1-3% pyrite.								
		- 305.5 to 317.0 - minor brecciation, quartz veining with 1-2% disseminated pyrite on grain boundaries.								
317.0		End of Hole.								



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-B LENGTH 437'
 LOCATION L40+00E 5+60N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED January 21, 1987 FINISHED January 22, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0				
217'	-40.0				
407'	-36.1				

HOLE NO. KAS-87-B SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786859

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	DEPTH FEET	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	6.0	CASING								
6.0	16.0	MAFIC TO INTERMEDIATE TUFF								
16.0	169.7	MAFIC FLOWS AND TUFF, 70:30								
169.7	186.4	INTERMEDIATE FLOWS								
186.4	257.4	MAFIC FLOWS								
257.4	260.2	MAFIC TUFF								
260.2	437.0	INTERBEDDED INTERMEDIATE FLOWS AND MAFIC TUFF, 60:40								
437.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY..... KASAGIMINNIS LAKE
 HOLE NO. KAS-87-8 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
		3-5% fine to medium grained biotite in tuffs with trace-3% pink garnets in some horizons, sulphides in some horizons, minor fracturing and quartz veining.								
		- 16.0 to 28.9 - tuff, well banded to poorly laminated chert.								
		- 24.0 to 25.0 - quartz veining, trace pyrite and <u>chalcopyrite</u> .	17445	tr.	24.0	25.0	1.0			tr.
		- 28.9 to 67.6 - massive flows, cleavage - foliation at 73° to core axis at 30.0, 67° at 57.0.								
		- 33.0 to 45.5 - fracturing, quartz veining, trace-0.5% pyrite on fracture-cleavages at 22° to core axis, trace-3% pyrrhotite, trace <u>chalcopyrite</u> in quartz veins.	17446		33.0	37.0	4.0			tr.
			17447		37.0	42.0	5.0			tr.
			17448		42.0	45.5	3.5			tr.
		- 55.5 to 57.5 - minor quartz veining with trace-0.5% disseminated pyrrhotite blebs with trace <u>chalcopyrite</u> grains.	17449		55.5	57.5	2.0			tr.
		- 67.6 to 81.0 - interbedded tuff and coarse grained amphibolitic flows, 60:40, trace-0.5% pyrite and trace <u>chalcopyrite</u> with tuffs.								
		- 80.0 to 81.0 - 1-2% pyrite and pyrrhotite, foliated at 63° to core axis.	17450		80.0	81.0	1.0			tr.
		- 81.0 to 109.8 - amphibolitic flows, few fractures.	17451		81.0	84.0	3.0			tr.
		- 84.0 to 87.0 - trace-0.5% pyrrhotite with trace-0.5% <u>chalcopyrite</u> .	17452		84.0	87.0	3.0			tr.
		- 106.0 to 107.0 - trace-0.5% pyrrhotite, pyrite, trace <u>chalcopyrite</u> .	17453		106.0	107.0	1.0			tr.
			17454		107.0	109.8	2.8			tr.
		- 109.8 to 111.1 - tuff, minor quartz veining.	17455		109.8	111.1	1.3			tr.

LANGRISHES - TORONTO - 306-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-8 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	S. SULPH IDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
		- 111.1 to 112.7 - amphibolitic flows, typical.	17456		111.1	112.7	1.6			tr.
		- 112.7 to 114.0 - tuff, 0.4 foot section with 0.5-1% coarse grained pyrrhotite and <u>chalcopryite</u> .	17457		112.7	114.0	1.3			tr.
		- 114.0 to 157.2 - amphibolitic flows, minor quartz veining, trace-1% pyrrhotite and <u>chalcopryite</u> , minor zones of epidote-rich mottling.	17458		114.0	117.0	3.0			tr.
		- 127.0 to 129.0 - epidote-rich horizon with 3-5% intermixed coarse grained pyrrhotite and <u>chalcopryite</u> .	17459		127.0	129.0	2.0			tr.
			17460		129.0	132.0	3.0			tr.
			17461		132.0	137.0	5.0			tr.
		- 157.2 to 160.3 - fine grained flows, foliated at 66° to core axis at 159.0.	17462		152.2	157.2	5.0			tr.
			17463		157.2	160.3	3.1			tr.
		- 160.3 to 169.7 - tuff, typical.	17464		160.3	162.0	1.7			tr.
		- 164.8 to 169.0 - heavily fractured to brecciated quartz veining, 1-2% pyrrhotite and pyrite as coarse grained blebs, stringers and disseminated grains, calcite infilled vugs in heavy alteration zone (carbonate-epidote).	17465		162.0	167.0	5.0			tr.
			17466		167.0	169.7	2.7			tr.
169.7	186.4	<u>INTERMEDIATE FLOWS</u> - dark grey-dark green; fine grained, massive with anastomosing chlorite-amphibole bands, poorly foliated at 64° to core axis at 186.0.	17467		169.7	172.0	2.3			tr.
			17468		172.0	177.0	5.0			tr.
			17469		177.0	182.0	5.0			tr.
			17470		182.0	186.4	4.4			tr.
		<u>Average Modes</u>								
		Quartz 30 - 35%								
		Feldspar 30 - 35%								
		Chlorite 15 - 20%								
		Amphibole 5 - 10%								
		Carbonate 1 - 2%								
		Pyrite trace - 1%								
		Banded to disseminated fine grained pyrite, few widely spaced fractures and chert bands.								

ALGROCES - TORONTO - 386-1198

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-8 SHEET NO 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SULPHUR IDES	FOOTAGE			%	%	OF TON	OF TON	
					FROM	TO	TOTAL					
186.4	257.4	MAFIC FLOWS - typical, fine to medium grained, massive to foliated. - 186.4 to 189.0 - 1-3% disseminated pyrrhotite and pyrite as blebs and masses. - 213.9 to 215.1 - as above with abundant epidote. - 228.1 to 229.1 - irregular quartz stringer, clean. - 252.5 to 255.0 - 0.5-1% pyrite as fracture fillings, bands, stringers; fracture cleavage at 20° to core axis roughly perpendicular to foliation at 55° to core axis. Foliation at 55° to core axis at 197.5, 68° at 207.5, 63° at 227.6.	17471		186.4	189.0	2.6				tr.	
			17472		213.9	215.1	1.2				tr.	
			17473		228.1	229.1	1.0				tr.	
			17474		252.5	255.0	2.5				tr.	
			17475		255.0	257.4	2.4				tr.	
257.4	260.2	MAFIC TUFF - typical, 0.5-1% pyrite as blebs, highly chloritic.	17476		257.4	260.2	2.8				tr.	
260.2	437.0	INTERBEDDED INTERMEDIATE FLOWS AND MAFIC TUFF - 60:40, typical. - 260.2 to 270.4 - fine grained flows, trace-1% pyrite as disseminated grains and bands, foliation averages 58° to core axis. - 270.4 to 279.7 - medium grained flows, widely spaced fracture-cleavage at 15° to core axis, pyrite infilling, trace pyrrhotite and <u>chalcovrite</u> in cherty stringers. - 279.7 to 284.2 - tuff with 5-10% thin flows, typical. - 284.2 to 286.2 - flows, fine grained, typical. - 286.2 to 287.7 - tuff, with quartz veining. - 287.7 to 290.7 - flows, fine grained, typical. - 290.7 to 291.3 - tuff, typical. - 291.3 to 296.4 - flows, minor quartz veining.	17477		260.2	262.0	1.8				tr.	
			17478		262.0	265.5	3.5				tr.	
			17479		265.5	279.4	4.9				tr.	
			17480		286.2	287.7	1.5				tr.	
			17481		287.7	290.7	3.0				tr.	
			17482		290.7	291.3	0.6				tr.	
			17483		291.3	294.0	2.7				tr.	
			17484		294.0	295.4	2.4				tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-B SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			G	S	% Fe	% Cu	
					FROM	TO	TOTAL					
		- 296.4 to 297.9 - tuff, quartz veining, 0.5-1% disseminated pyrite.	17485		296.4	297.9	1.5					tr.
		- 297.9 to 299.5 - flows, minor quartz veining.	17486		297.9	299.5	1.6					tr.
		- 299.5 to 301.0 - tuff with 0.9' chloritic quartz vein, 3-5% pyrite as fracture filling.	17487		299.5	301.0	1.5					tr.
		- 301.0 to 340.1 - flows, fine to medium grained.										
		- 301.0 to 310.0 - quartz veining with trace pyrrhotite, pyrite and <u>chalcopyrite</u> .	17488		301.0	312.0	1.0					tr.
			17489		302.0	361.0	5.0					tr.
			17490		307.0	310.0	3.0					tr.
		- 312.0 to 318.5 - 1-2% disseminated pyrrhotite and pyrite.	17491		310.0	312.0	2.0					tr.
			17492		312.0	317.0	5.0					tr.
			17493		317.0	318.5	1.5					tr.
		- 327.0 to 340.1 - minor quartz veining, trace-1% pyrrhotite-pyrite, trace <u>chalcopyrite</u> .	17494		327.0	332.0	5.0					tr.
		- 340.1 to 341.1 - tuff, minor quartz veining, 0.5-1% disseminated pyrrhotite.	17495	0.5-1	340.1	341.1	1.0					tr.
		- 341.1 to 343.0 - flows, fine grained, trace-0.5% pyrrhotite.	17496	tr-0.5	341.1	343.0	1.9					tr.
		- 343.0 to 349.7 - tuff, quartz-carbonate veining, amphibole- <u>tourmaline</u> bands with 3-5% pyrrhotite blebs.	17497		343.0	347.0	4.0					tr.
			17498		347.0	349.7	2.7					tr.
		- 349.7 to 365.8 - flows, typical.	17499		349.7	352.2	2.5					tr.
		- 352.2 to 356.2 - fracture cleavage subparallel to core axis with pyrite in-fillings, minor quartz veining.	17500		352.2	356.2	4.0					tr.
		- 365.8 to 371.0 - tuff, crude banding, abundant chert bands, minor quartz veining.										
		- 370.5 to 371.0 - quartz vein with trace-0.5% coarse grained <u>sphalerite</u> .	3001		370.5	371.0	0.5					tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO KAS-87-8 SHEET NO 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPH IDES	FOOTAGE			%	%	G/T TON	G/T TON
					FROM	TO	TOTAL				
437.0		- 371.0 to 381.7 - flows with narrow tuff bands and quartz veins with 0.5-1% pyrite, trace <u>chalcovryite</u> , trace-0.5% coarse grained magnetite.	3002		371.0	375.5	4.5			tr.	
			3003		375.5	378.0	2.5			tr.	
			3004		378.0	381.7	3.7			tr.	
		- 381.7 to 403.1 - tuff, typical, 3-5% idiomorphic pink garnets, trace-1% disseminated pyrrhotite blebs and pyrite as fracture coatings.	3005		381.7	385.7	4.0			tr.	
			3006		385.7	388.9	3.2			tr.	
			3007		388.9	393.5	4.6			tr.	
		- 393.5 to 394.5 - chloritic quartz veins.	3008		393.5	397.0	3.5			tr.	
			3009		397.0	402.0	5.0			tr.	
		- 403.1 to 437.0 - flows, with narrow tuff bands, abundant quartz veins, trace-2% disseminated pyrite, pyrrhotite, trace <u>chalcovryite</u> , fine to coarse grained idiomorphic pink garnets in tuff bands.	3010		402.0	403.1	1.1			tr.	
			3011		409.0	412.0	3.0			tr.	
			3012		412.0	417.0	5.0			tr.	
			3013		417.0	422.0	5.0			tr.	
			3014		422.0	427.0	5.0			tr.	
			3015		427.0	432.0	5.0			tr.	
			3016		432.0	437.0	5.0			tr.	
				End of Hole.							



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-9 LENGTH 427'
 LOCATION L40+00E 8+52N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 23, 1987 FINISHED JANUARY 24, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	45.0°				
200'	43.5°				
427'	42.7°				

HOLE NO. KAS-87-9 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786859

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO				
0	40.5	<u>CASING</u>							
40.5	139.4	<u>GREYWACKE</u>							
139.4	287.6	<u>MAFIC FLOWS AND TUFF - 50:50</u>							
287.6	332.3	<u>MAFIC TO INTERMEDIATE TUFF</u>							
332.3	342.0	<u>MAFIC TUFF</u>							
342.0	347.6	<u>MAFIC TUFF - cherty</u>							
347.6	350.0	<u>MAFIC FLOWS</u>							
350.0	355.8	<u>MAFIC TUFF</u>							
355.8	427.0	<u>MAFIC FLOWS - amphibolitic</u>							
427.0		End of Hole.							

KASAGIMINNIS - TRONTS - 348 - 88

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-9 LENGTH 427'
 LOCATION L40+00E 8+52N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED January 23, 1987 FINISHED January 24, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-43.5°				
427'	-42.7°				

HOLE NO. KAS-87-9 SHEET NO. 1 of 5

REMARKS _____

PA - 786859

LOGGED BY R. HIRPINSON

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SIL PH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	40.5	<u>CASING</u>										
40.5	139.4	<u>GREYWACKE</u> - black-white-red, fine to medium grained, well laminated to crudely banded, poorly sorted. <u>Average Modes</u> Quartz)- 35 - 40% Plagioclase)- Muscovite)- 20 - 25% Sericite)- Carbonate 7 - 10% Chlorite 5 - 10% K-spar 3 - 5% Epidote 3 - 5% Amphibole 1 - 3% Pyrite trace - 1% Areas of intense potassic-epidote (40-45%) alteration along carbonate and quartz-carbonate infilled fractures; pyrite as disseminated grains, masses, bands; minor quartz veining; foliation averages 59.2° to core axis. - 40.5 to 57.0 - potassic alteration, 0.5-2% pyrite. - 59.9 to 62.3 - quartz veining. - 76.0 to 83.0 - potassic alteration, carbonate stringers										
			3017	0.5-2	40.5	45.0	4.5					tr.
			3018	0.5-2	45.0	47.0	2.0					tr.
			3019	0.5-2	47.0	52.0	5.0					tr.
			3020	0.5-2	52.0	57.0	5.0					tr.
			3021	-	57.0	59.9	2.9					tr.
			3022	-	59.9	62.3	2.4					tr.
			3023	-	76.0	81.0	5.0					tr.
			3024	-	81.0	83.0	2.0					tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-9 SHEET NO 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 91.9 to 95.0 - potassic alteration, quartz stringers.	3025	-	91.9	95.0	3.1				tr.
		- 101.5 to 105.8 - potassic alteration.	3026	-	101.1	105.8	4.7				tr.
		- 104.5 to 105.5 - 0.3 foot section of breccia with angular clasts of microcline? in epidote matrix.									
		- 117.0 to 139.4 - quartz veining, minor potassic alteration, narrow breccia zones, minor cherty zones, trace-0.5% disseminated pyrite, abundant carbonate throughout	3027	tr-0.5	117.0	122.0	5.0				tr.
			3028	tr-0.5	122.0	127.0	5.0				tr.
			3029	tr-0.5	127.0	132.0	5.0				tr.
			3030	tr-0.5	132.0	137.0	5.0				tr.
			3031	tr-0.5	137.0	139.4	2.4				tr.
139.4	287.6	MAFIC FLOWS AND TUFF - 50:50, dark green-white, fine to medium grained, laminated to banded.									
		<u>Average Modes</u>									
		Amphibole 35 - 40%									
		Quartz)- 30 - 35%									
		Plagioclase									
		Chlorite 5 - 10%									
		Carbonate 3 - 5%									
		Biotite 1 - 2%									
		Epidote 3 - 5%									
		Garnet trace - 2%									
		Pyrite trace - 1%									
		Pyrrhotite trace - 0.5%									
		Numerous minor tuff bands with 1-2% pink garnets, abundant quartz veining, zones of intense fracturing and alteration (shearing?) carbonatized, silicified and sericitized sections occur within altered zones, foliation averages 63.2° to core axis.									
		- 139.4 to 148.5 - flows with minor tuff bands and quartz veining, trace-0.5% pyrite.	3032	tr-0.5	139.4	142.0	2.6				tr.
			3033	tr-0.5	142.0	147.0	5.0				tr.
			3034	tr-0.5	147.0	148.5	1.5				tr.

DIAMOND DRILL RECORD

NAME / PROPERTY: KASAGIMINNIS LAKE

HOLE NO: KAS-87-9 SHEET NO: 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE		%	GT/TON	GT/TON		
					FROM	TO					TOTAL
		- 148.5 to 154.0 - interbedded flows and tuffs, 0.5-1% pyrite and pyrrhotite throughout.	3035	0.5-1	148.5	152.9	4.4			tr.	
		- 152.9 to 154.0 - quartz veining, 3-5% pyrrhotite 0.5-1% pyrite.	3036	0.5-5	152.9	155.1	2.2			tr.	
		- 154.0 to 155.1 - massive fine grained flow with quartz veining, 3-5% <u>tourmaline</u> , trace-1% pyrite.									
		- 155.1 to 169.0 - flows, minor tuff bands, abundant quartz veining with 1-3% pyrite and pyrrhotite.	3037	1-3	155.1	157.0	1.9			tr.	
			3038	1-3	157.0	162.0	5.0			tr.	
			3039	1-3	162.0	167.0	5.0			tr.	
			3040	1-3	167.0	169.0	2.0			tr.	
		- 169.0 to 180.9 - highly fractured and altered mafic volcanic with abundant quartz veining, narrow zones of 3-5% pyrite, intensity of fracturing increases into middle of zone, gradational contacts with volcanics.	3041	3-5	169.0	172.0	3.0			tr.	
			3042	3-5	172.0	177.0	5.0			tr.	
			3043	3-5	177.0	180.9	3.9			tr.	
		- 180.9 to 190.9 - interbedded flows and tuffs, abundant quartz stringers.									
			3044	3-5	190.9	192.0	1.1			tr.	
		- 190.9 to 198.7 - as per 169.0 to 180.9.	3045	3-5	192.0	197.0	5.0			tr.	
			3046	3-5	197.0	198.7	1.7			tr.	
		- 198.7 to 201.3 - flows, trace-0.5% pyrite.	3047	tr-0.5	198.7	201.3	2.6			tr.	
		- 201.3 to 203.5 - highly fractured and silicified flows (?), trace 0.5% pyrite, 0.5-1% pyrrhotite.	3048	0.5-1	201.3	203.5	2.2			tr.	
			3049	0.5-1	203.5	207.0	3.5			tr.	
			3050	0.5-1	207.0	211.2	4.2			tr.	
		- 203.5 to 211.2 - flows, fine to medium grained, 1-2% tourmaline as medium grained aggregates and bands with trace-0.5% pyrite and 0.5-1% pyrrhotite.									
		- 211.2 to 230.1 - as per 169.0 to 180.9, minor quartz veining, 0.5-1% pyrite.	3051	0.5-1	211.2	213.2	2.0			tr.	
			3052	0.5-1	213.2	217.0	3.8			tr.	
			3053	0.5-1	217.0	222.0	5.0			tr.	
		- 211.2 to 213.2 - medium to coarse grained plagioclase phenocrysts.	3054	0.5-1	222.0	227.0	5.0			tr.	
			3055	0.5-1	227.0	230.1	3.1			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGININNIS LAKE
 HOLE NO. KAS-87-9 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	OF TON	OF TON	
		- 230.1 to 287.6 - fine grained flows.	3056	-	230.1	234.0	3.9			tr.	
		- 234.0 to 247.0 - quartz veining, narrow zones of 2-3% pyrite-pyrrhotite, trace <u>tourmaline</u> .	3057	2-3	234.0	237.0	3.0			tr.	
			3058	2-3	237.0	242.0	5.0			tr.	
			3059	2-3	242.0	247.0	5.0			tr.	
			3060	-	247.0	252.0	5.0			tr.	
		- 252.0 to 262.0 - abundant quartz veining, minor bands of 0.5-1% pyrite, pyrrhotite and <u>tourmaline</u> .	3061	0.5-	252.0	257.0	5.0			tr.	
			3062	0.5-	257.0	262.0	5.0			tr.	
			3063	-	262.0	267.0	5.0			tr.	
			3064	-	267.0	272.0	5.0			tr.	
		- 262.0 to 287.6 - abundant quartz stringers, minor fracturing.	3065	-	272.0	277.0	5.0			tr.	
			3066	-	277.0	282.0	5.0			tr.	
			3067	-	282.0	286.0	4.0			tr.	
			3068	-	286.0	287.6	1.6			tr.	
287.6	332.3	<u>MAFIC TO INTERMEDIATE TUFF</u> - dark grey to black, fine grained, laminated to crudely banded, perisitic isoclinal and recumbent microfolding (slumping?) of some sections.	3069	tr-0.5	287.6	292.0	4.4			tr.	
			3070	tr-0.5	292.0	297.0	5.0			tr.	
			3071	tr-0.5	302.0	307.0	5.0			tr.	
			3072	tr-0.5	307.0	312.0	5.0			tr.	
			3073	tr-0.5	327.3	332.3	5.0			tr.	
		<u>Average Modes</u>									
		Chlorite)- 55 - 60%									
		Sericite)- 25 - 30%									
		Quartz 3 - 5%									
		Amphibole 3 - 5%									
		Carbonate trace - 1%									
		Garnet trace - 0.5%									
		Pyrite trace - 0.5%									
		Abundant cherty bands, quartz veining, infrequent disseminated pink garnets, pyrite as fracture fillings and disseminated blebs, minor fracturing with epidote-carbonate infilling, foliated at 65° to core axis at 297.0.									
332.3	342.0	<u>MAFIC TUFF</u> - typical, light to dark green amphiboles, minor biotite bands and chert bands, minor quartz stringers, foliated at 62° to core axis at 342.0.	3074	-	332.3	337.0	4.7			tr.	
			3075	-	337.0	342.0	5.0			tr.	

LANGROGES - ONTARIO - 386-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-9 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHUR INDEX	FOOTAGE FROM TO TOTAL	%	%	Gr 10m	Gr 10m	
342.0	347.6	<u>MAFIC TUFF</u> - atypical, abundant wispy chert bands.	3076	-	342.0 347.0 5.0				tr.	
347.6	350.0	<u>MAFIC FLOWS</u> - typical.	3077	-	347.0 347.6 0.6				tr.	
350.0	355.8	<u>MAFIC TUFF</u> - typical, abundant epidote bands.								
355.8	427.0	<u>MAFIC FLOWS</u> - atypical, amphibolitic, fine to coarse grained, with increasing grain size along section, foliated to massive, minor quartz-carbonate stringers, abundant epidote mottling, trace pyrite, foliation averages 65.2° to core axis. - 385.7 to 388.5 - irregular fracture subparallel to core axis with quartz-carbonate infilling, trace-0.5% disseminated idiomorphic pyrite grains.	3078	-	367.0 372.0 5.0				tr.	
			3079	tr-0.5	385.7 388.5 2.8				tr.	
			3080	-	412.0 417.0 5.0				tr.	
427.0		End of Hole.								



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-10 LENGTH 532'
 LOCATION L40+00E 12+52N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED January 24, 1987 FINISHED January 26, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-45.0°				
400'	-40.0°				
527'	-39.4°				

HOLE NO. KAS-87-10 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786860

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	50.0	<u>CASING</u>									
50.0	124.4	<u>INTERBEDDED MAFIC AND INTERMEDIATE TUFF</u> - 98.1 to 100.1 - Mafic Tuff - 100.1 to 124.4 - Intermediate Tuff									
124.4	290.5	<u>MAFIC FLOWS</u> - fine to coarse grained.									
290.5	353.3	<u>GREYWACKE</u> - 290.5 to 292.0 - 0.7 foot massive pyrrhotite stringer.									
353.3	514.5	<u>MAFIC FLOWS</u> - amphibolitic, coarse grained.									
514.5	532.0	<u>GREYWACKE</u>									
532.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-10 LENGTH 532'
 LOCATION 140+00E 12+52N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED January 26, 1987 FINISHED January 26, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
200'	-45.0°				
400'	-40.0°				
527'	-39.4°				

HOLE NO. KAS-87-10 SHEET NO. 1 of 5

REMARKS _____

PA - 786860

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	50.0	<u>CASING</u>							
50.0	124.4	<u>INTERBEDDED MAFIC AND INTERMEDIATE TUFF</u> - grey to black to dark green, fine grained, finely laminated. <u>Average Modes</u> Chlorite 25 - 30% Quartz Plagioclase)- 25 - 30% Amphibole 20 - 25% Carbonate 3 - 5% Epidote 3 - 5% Biotite 3 - 5% Foliation averages 45.3° to core axis, quartz veining, intense fracturing - alteration in some horizons, intermediate tuffs light to dark grey, chloritic. - 50.0 to 98.1 - interbedded tuffs. - 54.3 to 54.8 - chloritic quartz vein, trace-0.5% pyrite. - 60.2 to 61.2 - minor fracturing with epidote infillings, trace-0.5% pyrite. - 68.8 to 72.8 - abundant quartz stringers and quartz-epidote fracture fillings. - 73.9 to 83.1 - brecciated and altered horizon, quartz-epidote-carbonate alteration, trace-2% medium grained pyrite.							
			3081	tr-0.5	54.3 54.8 0.5			tr.	
			3082	tr-0.5	60.2 61.2 1.0			tr.	
			3083	-	68.8 72.8 4.0			tr.	
			3084	-	72.8 73.9 1.1			tr.	
			3085	tr-2	73.9 77.0 3.1			tr.	
			3086	tr-2	77.0 82.0 5.0			tr.	
			3087	tr-2	82.0 83.1 1.1			tr.	

SAMPLING - TORONTO - 386 1148

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGHINNIS LAKE
 HOLE NO. KAS-87-10 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	% SULPHUR	FOOTAGE			%	GT TON	LZ TON
					FROM	TO	TOTAL			
		- 98.1 to 100.1 - mafic tuff, cherty.	3088	-	98.1	100.1	2.0			tr.
		- 100.1 to 124.4 - intermediate tuff.	3089	-	100.1	101.9	1.8			tr.
		- 101.9 to 105.3 - minor fracturing and quartz stringers.	3090	-	101.9	105.3	3.4			tr.
			3091	-	105.3	106.8	1.5			tr.
		- 106.8 to 109.3 - fractured and altered zone with epidote-carbonate infillings.	3092	-	106.8	109.3	2.5			tr.
			3093	-	109.3	114.0	4.7			tr.
		- 114.0 to 122.6 - as per 106.8 to 109.3.	3094	-	114.0	117.0	3.0			tr.
			3095	-	117.0	121.6	4.6			tr.
			3096	-	121.6	122.6	1.0			tr.
		- 122.6 to 124.4 - breccia zone, carbonate-epidote infillings, recrystallization of feldspars to coarse grained laths.	3097	-	122.6	124.4	1.8			tr.
124.4	290.5	MAFIC FLOWS - dark green to black, fine to coarse grained, massive to foliated.								
		Average Modes								
		Amphibole 45 - 50%								
		Quartz)- 25 - 30%								
		Plagioclase)-								
		Chlorite 15 - 20%								
		Carbonate trace - 1%								
		Pyrite trace - 0.5%								
		Fine to medium grained flows, well foliated, coarse grained amphibolic flows massive, 1-2% albite wisps in coarser sections, minor quartz veining, few widely spaced fractures, foliation averages 52.0° to core axis.								
		- 124.4 to 158.0 - amphibolitic, medium grained, flows.								
		- 127.5 to 129.0 - 0.9 foot quartz vein with trace-0.5% pyrite, chlorite wisps.	3098	tr-0.5	127.5	129.0	1.5			tr.

LAWRENCE - TORONTO - 385-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-10 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON	
					FROM	TO	TOTAL					
		- 136.6 to 137.6 - 0.6 foot quartz vein, trace pyrite.	3099	tr	136.6	137.6	1.0				tr.	
		- 140.5 to 143.0 - minor quartz stringers, fracture subparallel to core axis with 0.5-1% pyrite infilling.	3100	0.5-1	140.5	143.0	2.5				tr.	
		- 158.0 to 166.4 - fine grained, flows.	3104	-	158.0	162.0	4.0				tr.	
		- 162.0 to 166.4 - quartz bands and stringers, trace-0.5% pyrite.	3105	tr-0.5	162.0	166.4	4.4				tr.	
		- 172.0 to 173.0 - irregular quartz stringer, 1-2% pyrrhotite as stringers.	3106	1-2	172.0	173.0	1.0				tr.	
		- 191.5 to 192.0 - chert band with 1-3% pyrite as irregular bands.	3107	1-3	191.5	192.0	0.5				tr.	
		- 192.0 to 219.2 - coarse grained, amphibolitic flows, epidote mottling, albite wisps.										
		- 208.0 to 209.3 - quartz vein, 3-5% wispy <u>sphalerite</u> stringers with albite grains.	3108	3-5	208.0	209.3	1.3				tr.	
		- 219.2 to 224.9 - fine grained flows.										
		- 224.9 to 230.0 - coarse grained, amphibolitic flows.										
		- 227.7 to 230.0 - minor quartz veining.	3109	-	227.7	230.0	2.3				tr.	
		- 230.0 to 256.3 - fine grained flows, abundant potassic alteration, quartz veining, highly fractured narrow zones with 3-5% coarse grained <u>tourmaline</u> and 1-2% pyrrhotite.	3110	1-2	230.0	234.5	4.5				tr.	
			3111	1-2	234.5	237.0	2.5				tr.	
			3112	1-2	237.0	242.0	5.0				tr.	
			3113	1-2	242.0	247.0	5.0				tr.	
			3114	1-2	247.0	252.0	5.0				tr.	
			3115	1-2	252.0	256.3	4.3				tr.	
		- 256.3 to 290.5 - mottled, fine grained flows.	3116	1-5	270.0	273.5	3.5				tr.	
			3117	1-5	273.5	277.0	3.5				tr.	
		- 270.0 to 290.5 - highly fractured, abundant quartz veining, 1-5% pyrite, pyrrhotite, trace <u>chalcopyrite</u> as fracture and fracture-cleavage infillings and stringers, fracture cleavage at 70° to core axis.	3118	1-5	277.0	282.0	5.0				tr.	
			3119	1-5	282.0	287.0	5.0				tr.	
			3120	1-5	287.0	290.5	3.5				tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY..... KASAGIMINNIS LAKE
 HOLE NO. KAS-87-10 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO	SULPHIDES	FOOTAGE			G	S	Fe (%)	Cu (%)		
					FROM	TO	TOTAL						
290.5	353.3	<p>GREYWACKE - dark grey to black, fine grained, finely laminated to massive, well foliated.</p> <p><u>Average Modes</u></p> <p>Quartz 25 - 30%</p> <p>Feldspar 15 - 20%</p> <p>Chlorite 10 - 15%</p> <p>Amphibole 10 - 15%</p> <p>Calcite 5 - 10%</p> <p>Dolomite 3 - 5%</p> <p>Sericite 3 - 5%</p> <p>Biotite 3 - 5%</p> <p>Minor quartz veining, few widely spaced fractures, trace-3% pyrrhotite and pyrite as bands, stringers, and disseminated grains, frequently with hematite stains or aureoles. foliation averages 57.3° to core axis.</p> <p>- 290.5 to 292.0 - 0.7 foot massive pyrrhotite stringer, 3-5% pyrite, quartz stringer with 3-5% pyrrhotite and pyrite, trace chalcopyrite.</p>	3121	10-20	290.5	292.0	1.5					tr.	
			3122	tr-3	292.0	297.0	5.0						tr.
			3123	tr-3	297.0	302.0	5.0						tr.
			3124	tr-3	302.0	307.0	5.0						tr.
			3125	tr-3	307.0	312.0	5.0						tr.
			3126	tr-3	312.0	317.0	5.0						tr.
			3127	tr-3	317.0	322.0	5.0						tr.
			3128	tr-3	322.0	327.0	5.0						tr.
			3129	tr-3	327.0	332.0	5.0						tr.
			3130	tr-3	332.0	337.0	5.0						tr.
			3131	tr-3	337.0	342.0	5.0						tr.
			3132	tr-3	342.0	347.0	5.0						tr.
			3133	tr-3	347.0	352.0	5.0						tr.
						3134	tr-3	352.0	353.3	1.3			
353.3	514.5	<p>MAFIC FLOWS - amphibolitic, typical.</p> <p>- 362.0 to 367.0 - quartz-epidote veining.</p> <p>- 372.0 to 374.5 - as above.</p> <p>- 390.9 to 394.6 - mottled flows, epidote-rich with 1-2% pyrite.</p> <p>- 432.0 to 437.0 - epidote mottling.</p> <p>- 467.0 to 472.0 - as above.</p> <p>- 487.0 to 492.0 - as above.</p>	3135	-	362.0	367.0	5.0					tr.	
			3136	-	372.0	374.5	2.5						tr.
			3137	1-2	390.9	394.6	3.7						tr.
			3138	-	432.0	437.0	5.0						tr.
			3139	-	467.0	472.0	5.0						tr.
			3140	-	487.0	492.0	5.0						tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-10 SHEET NO 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	GT TON	GT TON
					FROM	TO	TOTAL				
		- 509.6 to 514.5 - quartz veining and epidote mottling.	3141	-	509.6	512.0	2.4			tr.	
		Foliation averages 65.2° to core axis.	3142	-	512.0	514.5	2.5			tr.	
514.5	532.0	<u>GREYWACKE</u> - typical, trace-2% disseminated pyrite, foliated at 55° to core axis.	3143	tr-2	514.5	517.0	2.5			tr.	
			3144	tr-2	517.0	522.0	5.0			tr.	
			3145	tr-2	522.0	527.0	5.0			tr.	
			3146	tr-2	527.0	532.0	5.0			tr.	
532.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-11 LENGTH 407'
 LOCATION L32+00E 1+89S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 27, 1987 FINISHED JANUARY 28, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
200'	-41.0°				
407'	-39.2°				

HOLE NO. KAS-87-11 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786849

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	oz/TON	oz/TON
					FROM	TO	TOTAL				
0	40.0	<u>CASING</u>									
40.0	58.0	<u>FELSIC TUFF</u>									
58.0	64.0	<u>INTERMEDIATE TUFF</u>									
64.0	86.5	<u>FELSIC TUFF</u>									
86.5	97.5	<u>INTERMEDIATE TUFF</u>									
97.5	389.0	<u>INTERBEDDED FELSIC AND INTERMEDIATE TUFF, 90:10.</u>									
389.0	407.0	<u>INTERMEDIATE TUFF</u>									
407.0		End of Hole.									

NO. 10000 - 10000 - 10000

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-11 LENGTH 407'
 LOCATION L32+00E 1+89S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 27, 1987 FINISHED JANUARY 28, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	45.0°				
200'	41.0°				
407'	39.2°				

HOLE NO. KAS-87-11 SHEET NO. 1 of 3

REMARKS _____

PA - 786849

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	S I D E S	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	40.0	CASING									
40.0	58.0	FELSIC TUFF - light to dark grey, fine to medium grained, laminated to crudely banded to massive and mottled, foliated. <u>Average Modes</u> Muscovite)- 35 - 40% Sericite)- 30 - 35% Quartz 30 - 35% Chlorite 15 - 20% Amphibole 3 - 5% Pyrite 1 - 3% Siderite)- trace - 0.5% Ankerite)- Massive - mottled sections have medium to coarse grained sericitize plagioclase laths distorting foliation, fine disseminated needles of amphibole in sericitic layers, minor epidote infillings in generally blocky sections, minor kink folds, minor quartz stringers, pyrite as stringers, bands, disseminated grains and blebs, foliation at 64° to core axis at 42.0, 55° at 57.0.	3147	1-3	40.0	42.0	2.0			tr.	
			3148	1-3	42.0	47.0	5.0			tr.	
			3149	1-3	47.0	52.0	5.0			tr.	
			3150	1-3	52.0	57.0	5.0			tr.	
			3151	1-3	57.0	58.0	1.0			tr.	
58.0	64.0	INTERMEDIATE TUFF - grey to black, fine grained, laminated to massive. <u>Average Modes</u> Quartz)- 35 - 40% Plagioclase)- 40 - 45% Chlorite)- Amphibole)-	3152	1-2	58.0	61.0	3.0			tr.	
			3153	1-2	61.0	64.0	3.0			tr.	
			3154	1-2	64.0	67.0	3.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ KASAGIMINNIS LAKE

HOLE NO. KAS-87-11 SHEET NO. 2 of 3

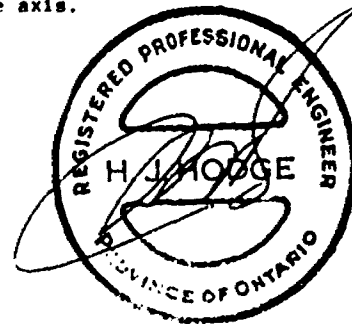
FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	gr ton	oz ton
					FROM	TO	TOTAL				
		Biotite 3 - 5% Garnet 2 - 10% Pyrite 1 - 2% Siderite)- trace Ankerite)-									
		Stretched pink garnets parallel to foliation and distorting foliation - banding; pyrite as bands, siderite-ankerite as fine grains on fractures and foliation surfaces, foliation at 47° to core axis at 62.0.									
64.0	86.5	<u>FELSIC TUFF</u> - typical, trace-1% disseminated pyrite, foliation at 52° to core axis at 72.0.	3155	tr-1	77.0	82.0	5.0				tr.
86.5	97.5	<u>INTERMEDIATE TUFF</u> - typical, minor quartz veining with 0.5-1% pyrite fracture coatings, 0.5-1% disseminated pyrrhotite in quartz veins.	3156	0.5-1	86.5	87.0	0.5				tr.
			3157	0.5-1	87.0	92.0	5.0				tr.
			3158	0.5-1	92.0	97.0	5.0				tr.
97.5	389.0	<u>INTERBEDDED FELSIC AND INTERMEDIATE TUFF</u> - 90:10, typical, few widely spaced fractures, minor light green silicate bands and epidote bands, 1-2% pyrite and 0.5-1% pyrrhotite overall, foliation averages 57.5° to core axis.									
		- 97.5 to 107.0 - fracturing, quartz veining, minor tuff bands, less than 0.5 feet in width.	3159	1-2	97.0	102.0	5.0				tr.
			3160	1-2	102.0	107.0	5.0				tr.
		- 107.0 to 389.0 - felsic and intermediate tuff.	3161	1-2	122.0	127.0	5.0				tr.
		- 125.5 to 126.0 - intermediate tuff.									
		- 133.3 to 135.7 - reworked intermediate tuff, minor quartz veining.	3162	1-2	132.0	137.0	5.0				tr.
		- 139.7 to 142.0 - intermediate tuff.	3163	1-2	137.0	142.0	5.0				tr.
		- 154.2 to 155.3 - as above.	3164	1-2	152.0	157.0	5.0				tr.
		- 161.3 to 164.4 - as above.									
		- 166.6 to 168.0 - as above.									

ANADOCSES - TORONTO - 305-169

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-11 SHEET NO 1 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	GT TON	GT TON
					FROM	TO	TOTAL				
		- 173.6 to 175.5 - as above.	3165	1-2	172.0	177.0	5.0			tr.	
		- 176.4 to 177.2 - as above.	3166	1-2	192.0	197.0	5.0			tr.	
		- 245.0 to 250.0 - abundant quartz veining.	3167	1-2	212.0	217.0	5.0			tr.	
			3168	1-2	232.0	237.0	5.0			tr.	
			3169	-	245.0	250.0	5.0			tr.	
			3170	1-2	262.0	267.0	5.0			tr.	
		- 283.8 to 307.0 - abundant sericitic quartz veining, minor pygmatic stringers, trace-1% pyrite, 0.5-1% pyrrhotite as fracture fillings, blebs and masses.	3171	tr-1	283.8	287.0	3.2			tr.	
			3172	tr-1	287.0	292.0	5.0			tr.	
			3173	tr-1	292.0	297.0	5.0			tr.	
			3174	tr-1	297.0	302.0	5.0			tr.	
			3175	tr-1	302.0	307.0	5.0			tr.	
		- 311.6 to 313.4 - sericitic quartz veins, as above.	3176	tr-1	307.0	311.6	4.1			tr.	
			3177	-	311.6	313.4	2.8			tr.	
		- 337.0 to 338.0 - clean quartz vein.	3178	-	337.0	342.0	5.0			tr.	
			3179	tr-1	357.0	362.0	5.0			tr.	
			3180	tr-1	382.0	387.0	5.0			tr.	
389.0	407.0	<u>INTERMEDIATE TUFF</u> - typical, minor felsic tuff bands, trace-5% garnet increasing down hole.	3181	tr	402.0	407.0	5.0			tr.	
		- 404.6 to 405.6 - quartz vein, biotite-feldspar laths, trace pyrite.									
		Foliation averages 66.6° to core axis.									
407.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-12 LENGTH 287'
 LOCATION 19+99E 4+18N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED January 29, 1987 FINISHED January 30, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-47.0°				
200'	-38.8°				
287'	-41.1°				

HOLE NO. KAS-87-12 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786835
 on boundary with
 PA - 786834

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		%	S	OZ/TON	OZ/TON
				FROM	TO				
0	8.0	<u>CASING</u>							
8.0	32.0	<u>FELSIC TO INTERMEDIATE TUFF</u>							
32.0	33.3	<u>MAFIC TO INTERMEDIATE FLOW</u>							
33.3	48.7	<u>INTERMEDIATE FLOWS</u>							
48.7	163.5	<u>MAFIC TO INTERMEDIATE FLOWS</u> - 48.7 to 97.9 - fine grained flows. - 97.9 to 98.9 - intermediate tuff. - 98.9 to 151.7 - fine grained flows. - 151.7 to 154.9 - interbedded medium to coarse grained amphibolitic flows and fine grained flows. - 154.9 to 162.1 - medium to coarse grained amphibolitic flows. - 162.1 to 163.5 - fine grained flows.							
163.5	184.5	<u>FELSIC TO INTERMEDIATE TUFF</u> - 163.5 to 173.7 - sulphide zone.							
184.5	287.0	<u>MAFIC TO INTERMEDIATE FLOWS</u>							
287.0		End of Hole.							

ANALYSES - 10/20/87 - 366 '88

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-12 LENGTH 287'
 LOCATION 19+99E 4+18N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED January 29, 1987 FINISHED January 30, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-47.0°				
200'	-38.8°				
287'	-41.1°				

HOLE NO. KAS-87-12 SHEET NO. 1 of 3

REMARKS _____

PA - 786835
 on boundary with
 PA - 786834

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	8.0	<u>CASING</u>									
8.0	32.0	<u>FELSIC TO INTERMEDIATE TUFF</u> - light to dark grey, fine grained, poorly laminated to mottled, foliated. <u>Average Modes</u> Plagioclase)- 65 - 70% Quartz Chlorite 25 - 30% Garnet trace - 2% Pyrite)- trace - 0.5% Pyrrhotite)- trace - 0.5% Limonitic bands in upper 5 feet, resembles lapilli tuff, foliated at 55° to core axis. - 8.0 to 22.8 - well laminated. - 14.4 to 16.2 - 2-3% fine to medium grained pink garnets. - 20.5 to 21.5 - 1-2% fine grained disseminated pyrrhotite, magnetic. - 22.8 to 32.0 - mottled, 5-10% irregular biotite bands.									
			3182	tr-0.5	8.0	12.0	4.0				tr.
			3183	1-2	20.5	22.8	2.3				tr.
			3184	tr-0.5	22.8	27.0	4.2				tr.
			3185	tr-0.5	27.0	32.0	5.0				tr.
32.0	33.3	<u>MAFIC TO INTERMEDIATE FLOW</u> - dark greenish-grey, fine grained, massive.	3186	0.5-1	32.0	33.3	1.3				tr.

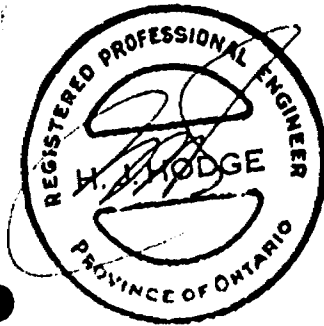
KAS-87-12-12-1987-12-1987-12-1987

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-12 SHEET NO 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	GT TON	LT TON
					FROM	TO	TOTAL			
		<p><u>Average Modes</u></p> <p>Amphibole 45 - 50%</p> <p>Quartz)- 30 - 35%</p> <p>Plagioclase)-</p> <p>Chlorite 10 - 15%</p> <p>Pyrite 0.5 - 1%</p> <p>Pyrite as disseminated grains, no fracturing.</p>								
33.3	48.7	<p><u>INTERMEDIATE FLOWS</u> - dark grey to greenish-grey, fine grained, massive, few widely spaced fractures.</p> <p><u>Average Modes</u></p> <p>Quartz)- 50 - 55%</p> <p>Feldspar)-</p> <p>Amphibole 25 - 30%</p> <p>Chlorite 10 - 15%</p> <p>Minor tuffaceous horizons, trace disseminated pyrite, pyrrhotite and <u>chalcopyrite</u>, foliated at 60° to core axis at 42.0.</p>	3187		33.3	37.0	3.7			tr.
48.7	163.5	<p><u>MAFIC TO INTERMEDIATE FLOWS</u> - typical, fine to medium grained, numerous irregular chert bands, foliation averages 58.2° to core axis.</p> <p>- 48.7 to 97.9 - fine grained flows.</p> <p>- 48.7 to 57.0 - abundant quartz veining.</p> <p>- 77.0 to 82.0 - as above.</p> <p>- 97.9 to 98.9 - intermediate off, coarse grained, idiomorphic garnets in chlorite-amphibole bands, 0.5-1% disseminated pyrite.</p> <p>- 98.9 to 151.7 - fine grained flows, typical.</p>	3188	tr	47.0	48.7	1.7			tr.
			3189	0.5-1	48.7	52.0	3.3			tr.
			3190	0.5-1	52.0	57.0	5.0			tr.
			3191	0.5-1	77.0	82.0	5.0			tr.
			3192	0.5-1	97.9	98.9	1.0			tr.

L.A. 230085 - TORONTO - 308-1148



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-12 SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	%	G/TON	G/TON	
					FROM	TO					TOTAL
		- 107.0 to 135.2 - abundant fracturing and quartz veining, microfaulting, trace-2% pyrite, pyrrhotite, trace <u>chalcopyrite</u> , 1-3% carbonate, concordant to irregular quartz veins.	3193	tr-2	107.0	112.0	5.0			tr.	
			3194	tr-2	112.0	117.0	5.0			tr.	
			3195	tr-2	117.0	122.0	5.0			tr.	
			3196	tr-2	122.0	127.0	5.0			tr.	
			3197	tr-2	127.0	132.0	5.0			tr.	
			3198	tr-2	132.0	135.2	3.2			tr.	
			3199	tr-2	149.0	151.7	2.7			tr.	
		- 151.7 to 154.9 - medium to coarse grained amphibolitic flows interbedded with fine grained flows, 1-2% pyrrhotite, pyrite, trace <u>chalcopyrite</u> .	3200	1-2	151.7	154.9	3.2			tr.	
		- 154.9 to 162.1 - medium to coarse grained amphibolitic flows.	3201	0.5-1	154.9	157.0	2.1			tr.	
			3202	0.5-1	157.0	161.2	4.2			tr.	
			3203	0.5-1	161.2	162.1	0.9			tr.	
		- 162.1 to 163.5 - fine grained flows.	3204	0.5-1	162.1	163.5	1.4			tr.	
163.5	184.5	<u>FELSIC TO INTERMEDIATE TUFF</u> - typical, foliated at 60° to core axis at 177.0.	3205	1-3	163.5	167.0	3.5			tr.	
			3206	10-15	167.0	170.9	3.9			tr.	
			3207	1-3	170.9	173.7	2.8			tr.	
		- 163.5 to 173.7 - sulphide zone, silicified with 3-5% biotite and chlorite, 1-3% pyrite-pyrrhotite throughout.	3208	0.5-1	173.7	177.0	3.3			tr.	
		- 167.0 to 170.9 - 10-15% pyrite and pyrrhotite as massive stringers, minor quartz veining.									
184.5	287.0	<u>MAFIC TO INTERMEDIATE FLOWS</u> - typical, foliation averages 62.5° to core axis.	3209		192.0	197.0	5.0			tr.	
		- 208.3 to 209.8 - quartz stringers, trace pyrite.	3210	tr	208.3	209.8	1.5			tr.	
		- 227.0 to 237.0 - minor fracturing, trace-0.5% pyrite-pyrrhotite as blebs.	3211	tr-0.5	227.0	232.0	5.0			tr.	
		- 238.4 to 239.4 - quartz stringers.	3212	-	238.4	239.4	1.0			tr.	
		- 245.5 to 247.7 - as above.	3213	-	245.5	247.7	2.2			tr.	
			3214	-	253.0	257.0	5.0			tr.	
		- 253.0 to 262.0 - as above.	3215	-	257.0	262.0	5.0			tr.	
287.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-13 LENGTH 397'
 LOCATION L12+00E 4+04S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED JANUARY 30, 1987 FINISHED JANUARY 31, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-45.0°				
397'	-40.6°				

HOLE NO. KAS-87-13 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786834

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	19.0	<u>CASING</u>									
19.0	41.0	<u>FELSIC TUFF</u>									
41.0	57.9	<u>INTERBEDDED FELSIC AND INTERMEDIATE TUFFS, 60:40.</u>									
57.9	196.0	<u>INTERMEDIATE TUFF</u> - 87.0 to 127.0 - 3-5% pyrrhotite-pyrite. - 117.2 to 117.5 - 30-35% pyrrhotite in chert. - 147.0 to 196.0 - 3-5% pyrrhotite, pyrite.									
196.0	206.3	<u>FELSIC TUFF</u>									
206.3	214.8	<u>INTERMEDIATE TUFF</u>									
214.8	239.7	<u>INTERBEDDED FELSIC AND INTERMEDIATE TUFF</u>									
239.7	267.0	<u>MAFIC TUFF</u>									
267.0	283.6	<u>INTERMEDIATE TUFF</u>									
283.6	295.6	<u>METASEDIMENT - SILTSTONE TO MUDSTONE</u>									
295.6	300.8	<u>INTERMEDIATE TUFF</u>									
300.8	325.0	<u>INTERBEDDED SEDIMENTS, INTERMEDIATE TUFF AND FELSIC TUFF, 70:25:5, (turbidite?)</u>									
325.0	397.0	<u>FELSIC TUFF WITH MINOR SEDIMENTS, 85:15.</u>									
397.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-13 LENGTH 397'
 LOCATION L12+00E 4+04S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED January 30, 1987 FINISHED January 31, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
200'	-45.0°				
397'	-40.6°				

HOLE NO. KAS-87-13 SHEET NO. 1 of 4

REMARKS _____

PA - 786834

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SPL. PH. IDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	19.0	<u>CASING</u>										
19.0	41.0	<u>FELSIC TUFF</u> - light grey to black, fine to medium grained, laminated to mottled, foliated. <u>Average Modes</u> Sericite 35 - 40% Quartz 30 - 35% Chlorite 15 - 20% Amphibole 3 - 5% Pyrite 1 - 3% Siderite)- trace - 0.5% Ankerite)- Waxy lustre to some sections, fine granular horizons and platy sericite-rich horizons, pyrite as stringers, bands, disseminated grains and blebs, upper 10 feet limonitic, foliated at 61° to core axis at 27.0, 52° at 37.0, 47° at 41.0.	3216	1-3	19.0	22.0	1.0			tr.		
			3217	1-3	37.0	41.0	4.0			tr.		
41.0	57.9	<u>INTERBEDDED FELSIC AND INTERMEDIATE TUFFS</u> , 60:40, intermediate tuff, dark green-dark grey, fine grained, foliated: felsic tuff, typical. <u>Average Modes</u> Amphibole 35 - 40% Quartz 30 - 35% Plagioclase)- Chlorite 15 - 20% Garnet 3 - 5%	3218	tr-3	41.0	46.0	5.0			tr.		
			3219	tr-3	46.0	47.0	1.0			tr.		
			3220	tr-3	47.0	52.0	5.0			tr.		
			3221	tr-3	52.0	57.0	5.0			tr.		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-13 SHEET NO. 2 of 1

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	G/TON	G/TON	
					FROM	TO	TOTAL					
		Pyrrhotite-pyrite content varies from trace-1% in felsics to trace-3% in intermediates, fine to coarse grained allotriomorphic to idiomorphic garnets in chlorite-amphibole bands.										
57.9	196.0	<u>INTERMEDIATE TUFF</u> - typical, common garnet-chlorite-amphibole bands, trace-3% pyrite-pyrrhotite as bands, stringers, fracture fillings. - 87.0 to 127.0 - 3-5% pyrrhotite-pyrite as stringers and beds, magnetic. - 117.2 to 117.5 - 30-35% pyrrhotite as anastomosing bands with chert. - 147.0 to 196.0 - as per 87.0 to 127.0. - 167.0 to 169.5 - Irregular cherty quartz vein. Foliation averages 59.4° to core axis.	3222	3-5	87.0	92.0	5.0					tr.
			3223	3-5	92.0	97.0	5.0					tr.
			3224	3-5	97.0	102.0	5.0					tr.
			3225	3-5	102.0	107.0	5.0					tr.
			3226	3-5	107.0	112.0	5.0					tr.
			3227	3-5	112.0	117.0	5.0					tr.
			3228	30-35	117.0	122.0	5.0					tr.
			3229	3-5	122.0	127.0	5.0					tr.
			3230	3-5	147.0	152.0	5.0					tr.
			3231	3-5	152.0	157.0	5.0					tr.
			3232	3-5	157.0	162.0	5.0					tr.
			3233	3-5	162.0	167.0	5.0					tr.
			3234	3-5	167.0	172.0	5.0					tr.
			3235	3-5	172.0	177.0	5.0					tr.
			3236	3-5	177.0	182.0	5.0					tr.
			3237	3-5	182.0	187.0	5.0					tr.
			3238	3-5	187.0	192.0	5.0					tr.
			19	3-5	192.0	196.0	4.0					tr.
196.0	206.3	<u>FELSIC TUFF</u> - typical, 0.5-2% pyrite as blebs and fracture coatings.		tr-1	196.0	201.0	5.0					tr.
			3241	tr-1	201.0	206.3	5.3					tr.
206.3	214.8	<u>INTERMEDIATE TUFF</u> - typical, 0.5-1% pyrite, 0.5-1% finely disseminated pyrrhotite, slightly to moderately magnetic.	3242	1-2	206.3	209.0	2.7					tr.
			3243	1-2	209.0	212.0	3.0					tr.
			3244	1-2	212.0	214.8	2.8					tr.
214.8	239.7	<u>INTERBEDDED FELSIC AND INTERMEDIATE TUFF</u> - typical, finely disseminated pyrrhotite as above. - 230.0 to 234.0 - quartz veining, cherty, buff coloured, fine grained disseminated garnets 0.5-1%.	3245	0.5-1	214.8	217.0	2.2					tr.
			3246	0.5-1	217.0	222.0	5.0					tr.
			3247	-	230.0	234.0	4.0					tr.
239.7	267.0	<u>MAFIC TUFF</u> - dark green, fine to medium grained, poorly banded.	3248	1-2	239.7	244.7	5.0					tr.
			3249	1-2	244.7	247.0	2.3					tr.
		<u>Average Modes</u>	3250	1-2	247.0	252.0	5.0					tr.
		Amphibole 45 - 50%	3251	1-2	252.0	257.0	5.0					tr.
		Chlorite 10 - 15%	3252	1-2	257.0	262.0	5.0					tr.
		Sericite 10 - 15%	3253	1-2	262.0	267.0	5.0					tr.

LANGRISHES - TORONTO - 386-1148

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-13 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	OZ TON	GZ TON
					FROM	TO	TOTAL			
		<p>Quartz 5 - 10%</p> <p>Biotite 3 - 5%</p> <p>Garnet 3 - 5%</p> <p>Pyrrhotite 1 - 2%</p> <p>Pyrite trace - 1%</p> <p>Foliation highly distorted by medium grained garnet porphyroblasts, 1-2% pyrrhotite finely disseminated throughout, moderately magnetic, trace-1% pyrite as fracture fillings, minor chert bands and cherty horizons.</p>								
267.0	283.6	<u>INTERMEDIATE TUFF</u> - typical, minor quartz vein. eg, foliated at 56° to core axis at 267.0.	3254	tr-1	267.0	268.0	1.0			tr.
			3255	tr-1	282.0	283.6	1.6			tr.
283.6	295.6	<u>METASEDIMENT - SILTSTONE TO MUDSTONE</u> - dark grey, fine grained, massive with shaly parting, slight lamination.	3256	-	283.6	287.0	3.4			tr.
			3257	-	292.0	295.6	3.6			tr.
		<p><u>Average Modes</u></p> <p>Feldspar 25 - 30%</p> <p>Quartz 20 - 25%</p> <p>Amphibole 20 - 25%</p> <p>Chlorite 15 - 20%</p> <p>Carbonate 1 - 2%</p> <p>Granular texture, minor quartz veining, parting - foliation at 58° to core axis at 290.0.</p>								
295.6	300.8	<u>INTERMEDIATE TUFF</u> - typical, 1-2% pyrite as fracture fillings and blebs, trace-1% pyrrhotite as bands and blebs.								
		- 295.6 to 297.0 - minor quartz veining.	3258	1-2	295.6	297.0	1.4			tr.
			3259	1-2	297.0	300.8	3.8			tr.
300.8	325.0	<u>INTERBEDDED SEDIMENTS, INTERMEDIATE TUFF AND FELSIC TUFF</u> , 70:25:5, sharp to gradational contacts, possibly a turbidite, foliation at 53° to core axis at 301.0, 56° at 319.0.	3260	-	300.8	302.0	1.2			tr.
			3261	-	302.0	306.5	4.5			tr.
			3262	-	306.5	309.5	3.0			tr.
			3263	-	309.5	313.3	3.8			tr.
		- 306.5 to 313.3 - felsic tuff with abundant quartz veins up to 1.5 feet in width, albite crystals on contacts of veins.	3264	-	313.3	317.0	3.7			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ KASAGIMINNIS LAKE

HOLE NO. KAS-87-13 SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	G/TON	
					FROM	TO	TOTAL				
325.0	397.0	<p><u>FELSIC TUFF WITH MINOR SEDIMENTS</u> - 85:15, numerous sediment beds less than 0.5 feet in width, 3-5% grunerite in tuff with trace-2% pyrite-pyrrhotite; foliation averages 56.7° to core axis.</p> <p>- 367.0 to 377.0 - irregular quartz veins.</p>	3265	tr-2	337.0	342.0	5.0			tr.	
			3266	tr-2	357.0	362.0	5.0			tr.	
			3267	tr-2	367.0	372.0	5.0			tr.	
			3268	tr-2	372.0	377.0	5.0			tr.	
			3269	tr-2	392.0	397.0	5.0			tr.	
397.0		End of Hole.									



JAN. 2003 - ONTARIO - 385-1148

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-14 LENGTH _____
 LOCATION L12+00E 0+92S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 1, 1987 FINISHED February 2, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	45.0°				
200'	43.5°				
407'	38.0°				

HOLE NO. KAS-87-14 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786834

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SPL. PH. JOES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	5.5	<u>CASING</u>								
5.5	237.4	<u>MAFIC TO INTERMEDIATE TUFF AND FLOWS, 20:80</u>								
237.4	260.0	<u>FELSIC TO INTERMEDIATE TUFF</u>								
260.0	300.3	<u>FELSIC TUFF</u>								
300.3	306.6	<u>FELSIC TO INTERMEDIATE TUFF</u>								
306.6	324.7	<u>SEDIMENTS (siltstone-mudstone) AND MAFIC TO INTERMEDIATE TUFF</u>								
324.7	346.4	<u>MAFIC TO INTERMEDIATE TUFF AND SULPHIDE FACIES IRON FORMATION</u>								
346.4	381.7	<u>FELSIC TUFF</u>								
381.7	407.0	<u>INTERBEDDED MAFIC TO INTERMEDIATE TUFF AND MUDDY SANDSTONE, 50:50</u>								
407.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-14 LENGTH 407'
 LOCATION L12+00E 0+92S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 1, 1987 FINISHED February 2, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
200'	-43.5°				
407'	-38.0°				

HOLE NO. KAS-87-14 SHEET NO. 1 of 4

REMARKS _____

PA - 786834

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	5.5	CASING								
5.5	237.4	<p><u>MAFIC TO INTERMEDIATE TUFF AND FLOWS</u> - 80:20 - flows:tuff. Flows: dark greyish-green, fine grained, massive - poorly foliated. Tuffs: poorly banded, minor garnet-chlorite-amphibole bands and quartz veins.</p> <p><u>Average Modes</u></p> <p>Amphibole 40 - 45% Quartz }- 40 - 45% Plagioclase Chlorite 5 - 10% Carbonate 1 - 2% Magnetite 0.5 - 1% Garnet trace - 1% Pyrite trace</p> <p>Garnetiferous horizons with/without grunerite; foliation average 55.5° to core axis.</p> <p>- 5.5 to 23.9 - very blocky, limonitic. - 23.9 to 27.0 - loss of core. - 74.0 to 74.6 - quartz vein, 1-2% pyrite as masses and fracture fillings. - 82.0 to 87.0 - irregular quartz stringers and veins.</p>								
			3270	-	5.5	7.0	1.5			tr.
			3271	-	27.0	32.0	5.0			tr.
			3272	-	57.0	62.0	5.0			tr.
			3273	1-2	74.0	77.0	3.0			tr.
			3274	-	82.0	87.0	5.0			tr.
			3275	-	117.0	122.0	5.0			tr.

LANGRIDGE - TORONTO - 386-1108

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-14 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO	% SULPH	FOOTAGE			%	%	GT Ton	GT Ton	
					FROM	TO	TOTAL					
		- 147.0 to 149.0 - minor quartz veining, garnet-chlorite-amphibole bands with 0.5-1% magnetite.	3276	-	147.0	149.0	2.0				tr.	
		- 157.0 to 160.3 - minor grunerite with massive garnet bands, minor quartz veining.	3277	-	157.0	160.3	3.3				tr.	
		- 180.6 to 187.0 - quartz veining, massive garnet bands.	3278	-	180.6	182.0	1.4				tr.	
		- 188.9 to 237.4 - 20-25% garnet as disseminated grains, masses and bands with 3-10% fine to medium grained disseminated grunerite grains, minor quartz veins and stringers, slightly fissile green carbonate on fractures, trace-0.5% pyrite as stringers and fracture coatings.	3279	-	182.0	187.0	5.0				tr.	
			3280	-	187.0	188.9	1.9				tr.	
			3281	tr-0.5	197.0	202.0	5.0				tr.	
			3282	tr-0.5	232.4	237.4	5.0				tr.	
237.4	260.0		<u>FELSIC TO INTERMEDIATE TUFF</u> - dark grey, fine grained, poorly foliated.	3283	1-2	237.4	242.0	4.6				tr.
		<u>Average Modes</u> Sericite 30 - 35% Quartz 15 - 20% Chlorite 10 - 15% Garnet 10 - 15% Grunerite 5 - 10% Carbonate 1 - 3% Pyrite 0.5 - 1% Pyrrhotite 0.5 - 1%	3284	1-2	247.0	252.0	5.0				tr.	
			3285	1-2	257.0	260.0	3.0				tr.	
260.0	300.3		<u>FELSIC TUFF</u> - light to dark grey, fine grained, foliated.	3286	0.5-1	260.0	265.0	5.0				tr.
		<u>Average Modes</u> Sericite 5 - 15% Quartz 60 - 80%	3287	0.5-1	277.0	282.0	5.0				tr.	
			3288	0.5-1	297.0	300.3	3.3				tr.	

LANGRAGES - TORONTO - 368-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-14 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	DL TON	DL TON
					FROM	TO	TOTAL				
		Chlorite 3 - 5% Pyrite 0.5 - 1% Carbonate trace - 1% Garnet trace - 0.5% Green slightly fissile carbonate on fractures, pyrite as blebs, fracture coatings, stringers; minor disseminated garnets; minor quartz veining; foliation averages 68° to core axis.									
300.3	306.6	<u>FELSIC TO INTERMEDIATE TUFF</u> - typical, no grunerite, 15-20% garnets, foliation at 67° to core axis at 305.0. - 302.5 to 305.0 - distorted foliation, 0.5-1% disseminated pyrite, cherty.	3289	tr-05	300.3	302.5	2.2				tr.
			3290	0.5-1	302.5	305.0	2.5				tr.
			3291	tr-05	305.0	306.6	1.6				tr.
306.6	324.7	<u>SEDIMENTS AND MAFIC TO INTERMEDIATE TUFF</u> - Sediments: dark brownish grey to white, granular, laminated; Tuff: typical. Sediments: siltstone-mudstone. <u>Average Modes</u> Chlorite 20 - 25% Amphibole 20 - 25% Quartz)- 35 - 40% Feldspar)- Biotite 5 - 10% Grades into tuff above and below, minor kink folding in sediments.									
		- 306.6 to 314.0 - laminated siltstone-mudstone.	3292	tr	306.6	310.6	4.0				tr.
			3293	tr	310.6	314.6	4.0				tr.
		- 314.6 to 320.2 - intermixed tuff, chert and sediments, irregular cherty quartz veins, 0.5-2% pyrrhotite as wispy bands, disseminated blebs and stringers.	3294	0.5-2	314.6	317.0	2.4				tr.
			3295	0.5-2	317.0	320.2	3.2				tr.
		- 320.2 to 324.7 - granular siltstone with 5-10% chlorite, nearly massive, slight crenulation, gradational contacts.	3296	tr	320.2	324.7	4.5				tr.



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO KAS-87-14 SHEET NO 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	G/T ON	G/T ON		
					FROM	TO	TOTAL						
324.7	346.4	MAFIC TO INTERMEDIATE TUFF AND SULPHIDE FACIES IRON FORMATION - Tuff: typical. Iron Formation: <u>Average Modes</u> Chert 75 - 80% Amphibole 10 - 15% Pyrrhotite 3 - 5% Pyrite trace - 0.5% Banded, fine grained, folded, 1-3% pyrrhotite as disseminated blebs, 3-5% pyrrhotite as bands, trace-0.5% pyrite as fracture coatings, foliation averages 50.6° to core axis.	3297	1-5	324.7	327.0	2.3					tr.	
			3298	1-5	327.0	332.0	5.0						tr.
			3299	1-5	332.0	337.0	5.0						tr.
			3300	1-5	337.0	342.0	5.0						tr.
			17701	1-5	342.0	346.4	4.4						
346.4	381.7	FELSIC TUFF - typical, 0.5-2% pyrrhotite, pyrite throughout, foliation averages 67° to core axis. - 356.0 to 357.2 - reworked tuff, medium grained, streaked, minor epidote-quartz stringers.	17702	0.5-2	346.4	350.0	3.6					tr.	
			17703	0.5-2	362.0	367.0	5.0						tr.
			17704	0.5-2	377.0	381.7	4.7						tr.
381.7	407.0	INTERBEDDED MAFIC TO INTERMEDIATE TUFF AND MUDDY SANDSTONE - 50:50. Tuff: typical; Sandstone: light grey, medium grained, massive, granular. <u>Average Modes</u> Quartz)- 70 - 75% Feldspar)- 10 - 15% Amphibole 3 - 5% Chlorite 1 - 3% Biotite 1 - 2% Carbonate 1 - 2% Sediments occur as discrete, narrow (less than 0.1 foot) beds or thicker gradational beds; foliated at 66° to core axis. - 381.7 to 386.1 - muddy sandstone.	17705	tr	381.7	386.1	4.4					tr.	
			17706	tr	397.0	402.0	5.0						tr.
			17707	tr	402.0	407.0	5.0						tr.
407.0		End of Hole.											

LANGRANGES - TORONTO - 366-188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-15 LENGTH 337'
 LOCATION 18+00W 21+51S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 3, 1987 FINISHED February 3, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0				
200'	-42.8				
337'	-41.4				

HOLE NO. KAS-87-15 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786812
 on boundary with
 PA - 786788

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON
0	31.0	CASING									
31.0	320.7	INTIMATELY INTERBEDDED MUDSTONE-SILTSTONE AND MINOR FELSIC - INTERMEDIATE TUFF, 95:5									
320.7	322.5	GRANITIC DYKE - 0.5-1% molybdenite, 0.5-1% pyrite.									
322.5	337.0	SEDIMENTS AND TUFF - as above.									
337.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-15 LENGTH 337'
 LOCATION 18+00W 21+51S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 3, 1987 FINISHED February 3, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
200'	-42.8°				
337'	-41.4°				

HOLE NO. KAS-87-15 SHEET NO. 1 of 3

REMARKS _____

PA - 786812
 on boundary with
 PA - 786788

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	DEPTH FEET	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	31.0	CASING							
31.0	320.7	<p><u>INTIMATELY INTERBEDDED MUDSTONE-SILTSTONE AND MINOR FELSIC-INTERMEDIATE TUFF - 95:5.</u> Sediments: dark grey, fine grained, massive to laminated, granular.</p> <p><u>Average Modes</u></p> <p>Quartz)- 50 - 55% Feldspar)- 20 - 25% Sericite 20 - 25% Chlorite 5 - 10% Amphibole 5 - 10% Pyrite trace - 1% Garnets trace - 1%</p> <p>Tuff:</p> <p><u>Average Modes</u></p> <p>Quartz)- 70 - 75% Sericite)- 10 - 15% Chlorite 10 - 15% Amphibole 5 - 10%</p> <p>Gradational contacts with tuffs, pyrite on foliation in tuffs, as fracture coatings and disseminated grains in sediments, foliation averages 65.0° over entire interval.</p> <p>- 19.0 to 43.7 - quartz veining. - 77.8 to 85.5 - quartz veining, 0.5-1% pyrite.</p>							
			17708	-	39.0	43.7	4.7		tr.
			17709	-	57.0	62.0	5.0		tr.
			17710	-	77.8	85.6	7.8		tr.
			17712	-	85.6	87.6	2.0		tr.

ANGROGES - TORONTO - 398-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-15 SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/T ON	G/T ON
					FROM	TO	TOTAL			
		- 87.6 to 101.4 - abundant quartz veining, trace-1% pyrite.	17713	tr-1	87.6	92.0	4.4			tr.
			17714	tr-1	92.0	97.0	5.0			tr.
			17715	tr-1	97.0	101.4	4.4			tr.
			17716	-	101.4	102.2	0.8			tr.
		- 102.2 to 127.0 - abundant quartz veining.	17717	-	102.2	107.0	4.8			tr.
			17718	-	107.0	112.0	5.0			tr.
			17719	-	112.0	117.0	5.0			tr.
			17720	-	117.0	122.0	5.0			tr.
			17721	-	122.0	127.0	5.0			tr.
			17722	-	142.0	147.0	5.0			tr.
		- 162.0 to 167.0 - quartz veining.	17723	-	162.0	167.0	5.0			tr.
		- 198.0 to 253.0 - mottled to banded tuff and sandstone with corroded-sericitized feldspars, quartz veining with 0.5-2% pyrite as disseminated grains, stringers and fracture fillings, minor green carbonate on fractures.	17724	0.5-2	198.0	202.0	4.0			tr.
			17725	0.5-2	202.0	207.0	5.0			tr.
			17726	0.5-2	207.0	212.0	5.0			tr.
			17727	0.5-2	212.0	217.0	5.0			tr.
			17728	0.5-2	232.0	237.0	5.0			tr.
			17729	0.5-2	247.0	252.0	5.0			tr.
			17730	0.5-2	252.0	253.0	1.0			tr.
		- 253.0 to 271.2 - abundant quartz veining, fractures with pyrite-carbonate coatings and green silicate reaction rims.	17731	tr	253.0	257.0	4.0			tr.
			17732	tr	257.0	262.0	5.0			tr.
			17733	tr	262.0	267.0	5.0			tr.
			17734	tr	267.0	271.2	4.2			tr.
		- 271.2 to 304.6 - 3-15% corroded and stretched medium grained garnets.								
		- 298.0 to 300.0 - 1-3% pyrite as fracture fillings.	17735	1-3	298.0	300.0	2.0			tr.
		- 304.6 to 320.7 - very fine grained, silicified siltstone, 0.5-1% pyrite on fractures.								
320.7	322.5	GRANITIC DYKE - creamy yellow-white-grey, medium to coarse grained, massive.	17736	1-2	320.7	322.5	1.8			tr.
		<u>Average Modes</u>								
		Albite	45	-	50%					
		Quartz	35	-	40%					
		Muscovite	3	-	5%					

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-15 SHEET NO 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPH IDES	FOOTAGE				g/ ton	g/ ton
				FROM	TO	TOTAL				
		Biotite 3 - 5% Molybdenite 0.5 - 1% Pyrite 0.5 - 1% Cream coloured albite with abundant fine grained biotite inclusions, quartz fracture fillings with coarse grained muscovite and <u>moly-</u> <u>bdenite</u> , pyrite as fine grained fracture coatings.								
322.5	337.0	<u>SEDIMENTS AND TUFF</u> - as per 304.6 to 320.7. - 326.5 to 327.2 - crosscutting carbonate vein with minor amphibole inclusions.	17737	-	322.5	326.5	4.0			tr.
			17738	-	326.5	328.5	2.0			tr.
			17739	-	335.0	337.0	2.0			tr.
337.0		End of Hole.								



DIAMOND DRILL RECORD

NAME OF PROPERTY KASACIMINNIS LAKE
 HOLE NO. KAS-87-16 LENGTH 632'
 LOCATION L47+98E 18+04N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED FEBRUARY 4, 1987 FINISHED FEBRUARY 7, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-40.8°				
400'	-38.8°				
632'	-32.0°				

HOLE NO. KAS-87-16 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 786860

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO				
0	27.0	<u>CASING</u>							
27.0	51.6	<u>FELSIC TO INTERMEDIATE TUFF</u>							
51.6	53.0	<u>FELSIC TUFF</u>							
53.0	120.0	<u>MAFIC FLOWS AND TUFFS, 95:5</u>							
120.0	167.6	<u>SILICIFIED INTERMEDIATE TUFF</u>							
167.6	264.1	<u>MAFIC FLOWS AND TUFF</u>							
264.1	404.7	<u>INTERMEDIATE FLOWS AND TUFF</u>							
404.7	416.7	<u>MAFIC TUFF</u>							
416.7	461.6	<u>INTERMEDIATE FLOWS AND TUFF, 50:50</u>							
461.6	531.8	<u>INTERBEDDED FELSIC TO INTERMEDIATE FLOWS, TUFFS AND LAPILLI TUFFS</u>							
531.8	538.2	<u>MAFIC FLOWS</u>							
538.2	545.5	<u>INTERMEDIATE FLOWS</u>							
545.5	562.5	<u>FELSIC TO INTERMEDIATE TUFF</u>							
562.5	581.8	<u>MAFIC FLOWS AND TUFF, 90:10</u>							
581.8	585.3	<u>FELSIC TO INTERMEDIATE LAPILLI TUFF</u>							

ANGPODES - OROONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO KAS-87-16 SHEET NO 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		%	%	G/T 10#	G/T 10#
				FROM	TO				
585.3	597.4	<u>FELSIC TO INTERMEDIATE FLOWS AND TUFF</u>							
597.4	621.9	<u>MAFIC FLOWS AND TUFF</u>							
621.9	627.4	<u>FELSIC TO INTERMEDIATE TUFF</u>							
627.4	632.0	<u>MAFIC FLOWS AND TUFF</u>							
632.0		End of Hole.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-16 LENGTH 632'
 LOCATION L47+98E 18+04N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 4, 1987 FINISHED February 7, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-40.8°				
400'	-38.8°				
632'	-32.0°				

HOLE NO. KAS-87-16 SHEET NO. 1 of 6

REMARKS _____

PA - 786860

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SL. PH. INDEX	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	27.0	<u>CASING</u>									
27.0	51.6	<u>FELSIC TO INTERMEDIATE TUFF</u> - dark grey to greenish-grey, fine grained, laminated - crudely banded - massive. <u>Average Modes</u> Quartz)- 60 - 65% Feldspar)- Chlorite 10 - 15% Amphibole 5 - 10% Biotite 3 - 5% Epidote 1 - 3% Carbonate 1 - 2% Silicified, potassic alteration and quartz-epidote around fractures, trace-0.5% disseminated pyrite.	17740	tr-05	27.0	32.0	5.0			tr.	
			17741	tr-05	47.0	51.6	4.6			tr.	
51.6	53.0	<u>FELSIC TUFF</u> - grey to buff, fine grained, streaked laminations, glassy to cherty texture. <u>Average Modes</u> Quartz 45 - 50% Feldspar 25 - 30% Sericite 15 - 20% Foliation at 45° to core axis.									
53.0	120.0	<u>MAFIC FLOWS AND TUFF</u> - 95:5, dark green to black, fine to medium grained, foliated.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-16 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	GT TON	GT TON
				FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Amphibole 50 - 55% Plagioclase)- 35 - 40% Quartz Epidote 3 - 5% Carbonate 1 - 2% Pyrite trace</p> <p>Few widely spaced fractures and chert bands, minor epidote-rich horizons; foliation averages 45° to core axis across interval.</p> <p>- 62.0 to 63.0 - 0.7' quartz vein with trace-0.5% coarse grained pyrrhotite.</p>	17743	tr	53.0	57.0	4.0			tr.
			17744	tr-0.5	62.0	63.0	1.0			tr.
			17745	tr	82.0	87.0	5.0			tr.
			17746	tr	102.0	107.0	5.0			tr.
			17747	tr	115.0	120.0	5.0			tr.
120.0	167.6	<p><u>SILICIFIED INTERMEDIATE TUFF</u> - dark grey to purplish-grey to greenish-grey, fine grained, laminated to poorly banded.</p> <p><u>Average Modes</u></p> <p>Quartz 35 - 40% Feldspar 25 - 30% Amphibole 15 - 20% Chlorite 5 - 10% Epidote 2 - 3%</p> <p>Abundant orange potassic alteration with epidote in some sections, highly fractured horizons with quartz, quartz-epidote and chert infillings, foliation averages 49.0° to core axis.</p> <p>- 134.7 to 136.9 - quartz veining with epidote alteration haloes.</p> <p>- 139.6 to 140.8 - mafic tuff with minor quartz veining.</p>	17748	-	132.0	137.0	5.0			tr.
			17749	-	137.0	142.0	5.0			tr.
			17750	-	162.6	167.6	5.0			tr.
167.6	264.1	<p><u>MAFIC FLOWS AND TUFF</u> - typical, with 3-5% wispy biotite bands and trace-3% medium grained <u>tourmaline</u>; minor quartz veining; trace-0.5% pyrite on fractures; foliation averages 52.0° to core axis, fracture cleavage at 45° to core axis.</p>	17751	tr-0.5	167.6	172.0	4.4			tr.
			17752	tr-0.5	192.0	197.0	5.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-16 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE	%	%	GT TON	GT TON
				FROM	TO	TOTAL			
		- 177.3 to 180.0 - reworked, mafic tuff, massive - poorly foliated, friable, medium grained.							
		- 222.0 to 239.0 - trace-3% <u>tourmaline</u> as fine grained acicular masses and clots in biotite bands, in irregular quartz veins and stringers.	17753	-	222.0	227.0	5.0		tr.
			17754	-	227.0	232.0	5.0		tr.
			17755	-	232.0	237.0	5.0		tr.
			17756	-	237.0	239.0	2.0		tr.
		- 231.7 to 233.5 - quartz- <u>tourmaline</u> vein, 0.5-1% pyrite on fractures.	17757	-	262.1	264.1	2.0		tr.
264.1	404.7	<u>INTERMEDIATE FLOWS AND TUFF</u> - greyish-green, fine grained, massive to foliated.	17758	tr-0.5	264.1	267.0	2.9		tr.
			17759	tr-0.5	287.0	292.0	5.0		tr.
			17760	tr-0.5	317.0	322.0	5.0		tr.
			17761	tr-0.5	337.0	342.0	5.0		tr.
		<u>Average Modes</u>	17762	-	351.9	353.0	1.1		tr.
		Amphibole 40 - 45%	17763	-	353.0	357.0	4.0		tr.
		Quartz }- 40 - 45%	17764	-	357.0	362.0	5.0		tr.
		Plagioclase }- 40 - 45%	17765	-	362.0	367.0	5.0		tr.
		Chlorite 5 - 10%	17766	-	367.0	372.0	5.0		tr.
		Biotite 1 - 2%	17767	-	372.0	377.0	5.0		tr.
		Carbonate trace - 1%	17768	-	402.0	404.7	2.7		tr.
		Pyrite }- trace - 0.5%							
		Chalcopyrite }- trace - 0.5%							
		Carbonate on fractures, pyrite- <u>chalcopyrite</u> as disseminated fine grains, common chert bands, foliation averages 59.2° to core axis, fracture cleavage at 27° to core axis.							
		- 268.3 to 270.7 - reworked tuff, typical.							
		- 351.9 to 353.0 - clean quartz vein.							
		- 362.0 to 372.0 - minor fracturing with cherty infilling.							
404.7	416.7	<u>MAFIC TUFF</u> - typical.							
		- 407.0 to 412.5 - 1-3% medium grained <u>tourmaline</u> .	17769	-	407.0	412.0	5.0		tr.
			17770	-	412.0	412.5	0.5		tr.
			17771	-	412.5	416.7	4.2		tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-16 SHEET NO 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
416.7	461.6	<p><u>INTERMEDIATE FLOWS AND TUFF</u> - typical, 50:50, minor disseminated <u>tourmaline</u> in some horizons, foliation averages 62.0° to core axis.</p> <p>- 416.7 to 420.1 - brecciated, potassic alteration, 1-3% pyrite on fractures in irregular quartz veins.</p> <p>- 420.1 to 444.5 - laminated to mottled flows and tuff, cherty, trace-1% disseminated pyrite, minor quartz ± <u>tourmaline</u> veins.</p> <p>- 444.5 to 451.1 - tuff with 5-10% biotite bands.</p> <p>- 445.0 to 446.8 - quartz-<u>tourmaline</u> vein, irregular, 1-2% fine grained pyrite on fractures</p> <p>- 451.1 to 457.3 - fine grained flows, abundant quartz veining.</p> <p>- 457.3 to 461.6 - tuffs and flows, abundant fracturing with cherty infillings, 1-2% massive pyrite fracture fillings and stringers.</p>	17772	1-3	416.7	420.1	3.4			tr.
			17773	tr-1	420.1	422.0	1.9			tr.
			17774	tr-1	422.0	427.0	5.0			tr.
			17775	tr-1	427.0	432.0	5.0			tr.
			17776	tr-1	432.0	437.0	5.0			tr.
			17777	tr-1	437.0	442.0	5.0			tr.
			17778	tr-1	442.0	444.5	2.5			tr.
			17779	1-2	444.5	447.0	2.5			tr.
			17780	-	447.0	451.1	4.1			tr.
			17781	-	451.1	453.1	2.0			tr.
			17782	-	453.1	457.3	4.2			tr.
			17783	1-2	457.3	461.6	4.3			tr.
461.6	531.8	<p><u>INTERBEDDED FELSIC TO INTERMEDIATE FLOWS, TUFFS AND LAPILLI TUFFS</u> Tuffs: light grey, laminated to crudely banded. Flows: dark grey to purplish-grey, foliated to massive.</p> <p><u>Average Modes</u></p> <p>Quartz)- 55 - 60% Feldspar)- 15 - 20% Sericite 10 - 15% Amphibole 3 - 5% Biotite trace - 1% Carbonate trace - 1% Pyrite trace - 1%</p> <p>Zones of fracturing and alteration (shearing?) with cherty infillings, potassic alteration, lapilli tuffs poorly laminated, light grey to white with medium grained lapilli and recrystallized</p>								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-16 SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			1	2	G/TON	G/TON
					FROM	TO	TOTAL				
		quartz-feldspar. Pyrite as fracture coatings and blebs. Foliation averages 62.0° to core axis.									
		- 461.6 to 466.6 - tuff, minor quartz veining, trace pyrite.	17784	tr	461.6	466.6	5.0				tr.
		- 466.6 to 494.1 - flows with minor tuff.	17785	-	466.6	470.0	3.4				tr.
		- 470.0 to 472.6 - shearing - fracturing, cherty infillings, 1-2% pyrite.	17786	1-2	470.0	472.6	2.6				tr.
		- 472.6 to 475.5 - minor lapilli tuff, narrow cherty horizons with 3-5% pyrite.	17787	3-5	472.6	475.5	2.9				tr.
			17788	-	475.5	477.0	1.5				tr.
			17789	-	477.0	482.0	5.0				tr.
			17790	-	482.0	484.0	2.0				tr.
		- 484.0 to 488.5 - as per 470.0 to 472.6.	17791	1-2	484.0	487.0	3.0				tr.
			17792	1-2	487.0	488.5	1.5				tr.
		- 494.1 to 495.7 - lapilli tuff.									
		- 495.7 to 503.2 - tuff and flows.									
		- 503.2 to 507.5 - tuff and lapilli tuff.									
		- 507.5 to 511.7 - flows, minor fracturing.	17793	-	507.5	511.7	4.2				tr.
		- 511.7 to 520.4 - lapilli tuff, minor fracturing, potassic alteration.	17794	-	511.7	516.0	4.2				tr.
			17795	-	516.0	520.4	4.4				tr.
		- 520.4 to 525.2 - flows.	17796	-	520.4	525.2	4.8				tr.
		- 525.2 to 531.8 - highly fractured volcanic, cherty, minor tourmaline stringers with trace-0.5% disseminated pyrite, carbonatized.	17797	tr-0.5	525.2	527.0	1.8				tr.
			17798	tr-0.5	527.0	531.8	4.8				tr.
531.8	538.2	<u>MAFIC FLOWS</u> - typical, massive, foliated at 67° to core axis.									
538.2	545.5	<u>INTERMEDIATE FLOWS</u> - typical.									
545.5	562.5	<u>FELSIC TO INTERMEDIATE TUFF</u> - as per 461.6 to 531.8, abundant potassic alteration, finely laminated, 1/2 inch breccia zone at top of section; foliated at 60° to core axis at 557.0.	17799	-	545.5	547.0	1.5				tr.
			17800	-	560.5	562.5	2.0				tr.

LANGRANGES - TORONTO - 366-1108

DIAMOND DRILL RECORD

NAME OF PROPERTY..... KASAGIMINNIS LAKE

HOLE NO. KAS-87-16 SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	G/TON	
					FROM	TO	TOTAL				
562.5	581.8	<u>MAFIC FLOWS AND TUFF</u> - typical, 90:10, minor quartz-epidote bands in tuffaceous horizons, minor silification along crosscutting fractures, foliation averages 61° to core axis.	17801	-	562.5	565.0	2.5			tr.	
			17802	-	577.0	581.8	4.8			tr.	
581.8	585.3	<u>FELSIC TO INTERMEDIATE LAPILLI TUFF</u> - typical, minor potassic alteration; foliated at 65° to core axis at 582.0.	17803	-	581.8	585.3	4.5			tr.	
585.3	597.4	<u>FELSIC TO INTERMEDIATE FLOWS AND TUFF</u> - typical, 0.5-1% pyrite in cherty horizons, foliation at 67° to core axis at 597.0.	17804	0.5-1	585.3	587.0	1.7			tr.	
			17805	0.5-1	592.4	597.4	5.0			tr.	
597.4	621.9	<u>MAFIC FLOWS AND TUFF</u> - typical, foliation averages 67° to core axis.									
621.9	627.4	<u>FELSIC TO INTERMEDIATE TUFF</u> - typical, minor potassic alteration, foliation at 63° to core axis at 624.0.	17806	-	621.9	624.9	3.0			tr.	
			17807	-	624.9	627.4	2.5			tr.	
627.4	632.0	<u>MAFIC FLOWS AND TUFF</u> - typical, foliation at 64° to core axis at 630.0.	17808	-	627.4	632.0	4.6			tr.	
632.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-17 LENGTH 332'
 LOCATION L51+99E 10+80N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP 45°
 STARTED February 7, 1987 FINISHED February 8, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	45.0°				
200'	42.0°				
332'	42.5°				

HOLE NO. KAS-87-17 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 769549

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO				
0	9.0	CASING							
9.0	212.5	MAFIC FLOWS							
212.5	332.0	INTERMEDIATE TUFF							
332.0		End of Hole.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGININNIS LAKE
 HOLE NO. KAS-87-17 LENGTH 332'
 LOCATION L51+99E 10+80N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 7, 1987 FINISHED February 8, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-42.0°				
332'	-42.5°				

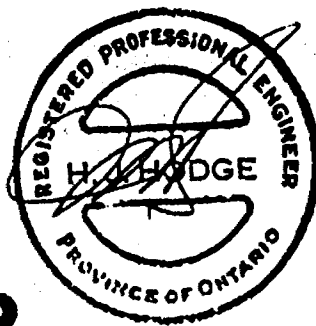
HOLE NO. KAS-87-17 SHEET NO. 1 of 2

REMARKS _____

PA - 769549

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SI. PI. IONES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON	
0	9.0	<u>CASING</u>								
9.0	212.5	<u>MAFIC FLOWS</u> - dark grey, fine to medium grained, massive, slight foliation. <u>Average Modes</u> Amphibole 35 - 40% Quartz)- 35 - 40% Plagioclase)- Chlorite 10 - 15% Epidote 3 - 5% Pyrite trace - 0.5% Few widely spaced fractures, minor carbonate in fractures, minor irregular cherty horizons and epidote-quartz bands, minor albite wisps and narrow pyrite-tourmaline bands, foliation averages 59.9° to core axis. - 57.2 to 59.9 - quartz vein, 1-2% <u>tourmaline</u> and chlorite with trace-1% fine grained pyrite. - 167.0 to 201.4 - increasing grain size from medium to coarse grained and mottled to massive, few widely spaced fractures. - 167.0 to 179.0 - abundant quartz-epidote hands, minor biotite bands.	17809	tr.	9.0 12.0 3.0				tr.	
			17810	tr.	32.0 37.0 5.0				tr.	
			17811	tr-1	57.0 60.0 3.0				tr.	
			17812	tr.	82.0 87.0 5.0				tr.	
			17813	tr.	117.0 122.0 5.0				tr.	
			17814	tr.	142.0 147.0 5.0				tr.	
			17815	tr.	167.0 172.0 5.0				tr.	
			17816	tr.	172.0 177.0 5.0				tr.	
			17817	tr.	177.0 182.0 5.0				tr.	
			17818	tr.	182.0 187.0 5.0				tr.	
			17819	tr.	187.0 192.0 5.0				tr.	
			17820	tr.	192.0 197.0 5.0				tr.	
			17821	tr.	197.0 201.4 4.4				tr.	



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIINNIS LAKE

HOLE NO. KAS-87-17 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		TOTAL			OF TON	OF TON
				FROM	TO						
212.5	332.0	<u>INTERMEDIATE TUFF</u> - dark grey, fine grained, banded. <u>Average Modes</u> Quartz)- 50 - 55% Feldspar)- 30 - 35% Amphibole 30 - 35% Chlorite 5 - 10% Carbonate 1 - 2% Pyrite trace - 0.5% Trace disseminated garnets and narrow sericite horizons, common quartz stringers, brecciated horizons with potassic alteration, foliation averages 54.5° to core axis. - 218.0 to 223.5 - potassic alteration, brecciation. - 227.0 to 229.0 - abundant quartz stringers. - 237.0 to 242.5 - as above. - 264.5 to 267.0 - potassic alteration, brecciation. - 267.0 to 284.5 - abundant quartz veining. - 295.0 to 332.0 - silicified, poorly banded - massive, minor brecciation - fracturing and potassic alteration. - 327.0 to 332.0 - minor quartz-tourmaline veins with 1-2% pyrite and potassic alteration.									
			17822	tr.	218.0	220.0	2.0				tr.
			17823	tr.	220.0	223.5	3.5				tr.
			17824	tr.	223.5	227.0	3.5				tr.
			17825	tr.	227.0	229.0	2.0				tr.
			17826	tr.	229.0	232.0	3.0				tr.
			17827	tr.	232.0	237.0	5.0				tr.
			17828	tr.	237.0	240.0	3.0				tr.
			17829	tr.	240.0	242.5	2.5				tr.
			17830	tr.	264.5	267.0	2.5				tr.
			17831	tr.	267.0	272.0	5.0				tr.
			17832	tr.	272.0	277.0	5.0				tr.
			17833	tr.	277.0	282.0	5.0				tr.
			17834	tr.	282.0	284.5	2.5				tr.
			17835	tr.	284.5	287.0	2.5				tr.
			17836	tr.	287.0	292.0	5.0				tr.
			17837	tr.	295.0	297.0	2.0				tr.
			17838	tr.	297.0	302.0	5.0				tr.
			17839	tr.	302.0	307.0	5.0				tr.
			17840	tr.	307.0	312.0	5.0				tr.
			17841	tr.	312.0	317.0	5.0				tr.
			17842	tr.	317.0	322.0	5.0				tr.
			17843	tr.	322.0	327.0	5.0				tr.
			17844	tr.	327.0	332.0	5.0				tr.
332.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-18 LENGTH 337'
 LOCATION L52+00E 13+15N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 8, 1987 FINISHED February 9, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
337'	-30.5°				

HOLE NO KAS-87-18 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 769548
 on boundary with
 PA - 769549

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	DEPTH FEET	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	9.0	CASING							
9.0	74.2	FELSIC TO INTERMEDIATE TUFF							
74.2	216.4	MAFIC FLOWS							
216.4	280.5	INTERMEDIATE FLOWS - 216.4 to 220.5 - 1-5% pyrite.							
280.5	288.2	MAFIC FLOWS							
288.2	337.0	INTERMEDIATE FLOWS							
337.0		End of Hole.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-18 LENGTH 337'
 LOCATION L52+00E 13+15N
 LATITUDE _____ DEPTORRE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 8, 1987 FINISHED February 9, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
337'	-30.5°				

HOLE NO. KAS-87-18 SHEET NO. 1 of 4

REMARKS _____
 PA - 769548
 on boundary with
 PA - 769549
 LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	SUF PH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	9.0	CASING										
9.0	74.2	<p><u>FELSIC TO INTERMEDIATE TUFF</u> - light to dark grey to green, fine grained, laminated to banded.</p> <p><u>Average Modes</u></p> <p>Quartz 25 - 30%</p> <p>Plagioclase 20 - 25%</p> <p>K-spar 20 - 25%</p> <p>Chlorite 5 - 10%</p> <p>Amphibole 5 - 10%</p> <p>Biotite 3 - 5%</p> <p>Pvrite trace - 0.5%</p> <p>Stretched lapilli in felsic bands, amphibole and chlorite bands with disseminated pyrite, potassic alteration of some horizons, foliation averages 49.0° to core axis.</p> <p>- 23.7 to 25.7 - lapilli tuff, trace-0.5% disseminated pyrite and <u>tourmaline</u>.</p> <p>- 33.9 to 34.9 - as above, with chloritic fractures, 0.5-1% pyrite.</p> <p>- 41.2 to 43.2 - 1.3 foot quartz vein with 0.5-1% pyrite, disseminated <u>tourmaline</u> in host rock.</p> <p>- 47.0 to 61.0 - 1-2% disseminated fine grained pyrite.</p>	17845	tr.	9.0	12.0	3.0			tr.		
			17846	tr-0.5	23.7	25.7	2.0			tr.		
			17847	tr.	25.7	27.0	1.3			tr.		
			17848	tr.	27.0	32.0	5.0			tr.		
			17849	tr.	32.0	33.9	1.9			tr.		
			17850	0.5-1	33.9	34.9	1.0			tr.		
			17851	tr.	34.9	37.0	2.1			tr.		
			17852	tr.	37.0	41.2	4.2			tr.		
			17853	1-2	41.2	43.2	2.0			tr.		
			17854	tr.	43.2	47.0	3.8			tr.		
			17855	tr.	47.0	52.0	5.0			tr.		
			17856	tr.	52.0	57.0	5.0			tr.		
			17857	tr.	57.0	61.0	4.0			tr.		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. ... KAS-87-18 ... SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	DEPTH FIDS	FOOTAGE FROM TO TOTAL	GR	GR	
74.2	216.4	- 61.0 to 74.2 - highly fractured, minor potassic alteration, quartz-carbonate infillings.	17858	tr.	61.0 66.0 5.0		tr.	
			17859	tr.	66.0 71.0 5.0		tr.	
			17860	tr.	71.0 74.2 3.2		tr.	
			17861	tr-1	74.2 77.0 2.8		tr.	
		MAFIC FLOWS - dark green, fine to medium grained, massive, poorly foliated.						
		<u>Average Modes</u>						
		Amphibole	45	-	50%			
		Quartz)-	35	-	40%		
		Plagioclase						
		Chlorite	3	-	5%			
Epidote	2	-	3%					
Garnet	trace	-	1%					
Pyrrhotite)-	trace	-	1%				
Pyrite								
Chalcopyrite	trace							
Abundant chert bands, quartz-epidote and quartz-tourmaline stringers and bands with trace-1% disseminated pyrite and pyrrhotite; albite wisps in some sections. Foliation averages 57.0° to core axis.								
74.2	216.4	- 89.5 to 98.7 - quartz-tourmaline and quartz-epidote stringers with 0.5-1% disseminated pyrite and pyrrhotite.	17862	0.5-1	89.5 92.0 2.5		tr.	
			17863	0.5-1	92.0 97.0 5.0		tr.	
		17864	0.5-1	97.0 98.7 1.7		tr.		
		17865	tr-1	98.7 100.0 1.3		tr.		
		17866	tr-1	100.0 104.0 4.0		tr.		
		17867	tr-1	104.0 107.0 3.0		tr.		
		17868	tr-1	107.0 112.0 5.0		tr.		
		17869	tr-1	112.0 117.0 5.0		tr.		
		- 104.0 to 107.0 - minor tourmaline-pyrite bands and coarse grained disseminated pyrrhotite in quartz stringers.	17870	0.5-1	117.0 121.0 4.0		tr.	
			17871	0.5-1	121.0 123.0 2.0		tr.	
- 117.0 to 121.0 - minor irregular quartz-tourmaline stringers with 0.5-1% pyrrhotite, 1-2% disseminated pyrite.	17872	0.5-1	123.0 127.0 4.0		tr.			
	17873	0.5-1	127.0 130.0 3.0		tr.			
- 123.0 to 130.0 - 0.5-1% disseminated to banded pyrite with abundant chert bands.	17874	0.5-1	123.0 127.0 4.0		tr.			
	17875	0.5-1	127.0 130.0 3.0		tr.			

DIAMOND DRILL RECORD

NAME OF PROPERTY... KASAGIMINNIS LAKE
 HOLE NO. ... KAS-87-18 ... SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FROM	TO	TOTAL				
		- 167.0 to 173.0 - minor quartz veining and <u>tourmaline</u> bands.	17874	tr.	167.0	170.0	3.0				tr.
			17875	tr.	170.0	173.0	3.0				tr.
			17876	tr.	192.0	197.0	5.0				tr.
		- 213.5 to 216.4 - 0.5-2% pyrite increasing towards lower contact, crosscutting quartz stringers with silicified haloes in host rock.	17877	1-5-2	213.5	216.4	2.9				tr.
216.4	280.5	<u>INTERMEDIATE FLOWS</u> - dark grey to greenish-grey, fine grained, massive, weak foliation. <u>Average Modes</u> Amphibole 40 - 45% Plagioclase)- 40 - 45% Quartz Chlorite 5 - 10% Pyrite trace - 1% Chalcopyrite trace - 0.5% Foliation averages 52° to core axis. - 216.4 to 257.0 - decreasing silicification down hole. - 216.4 to 220.5 - 1-5% pyrite increasing toward upper contact, trace <u>chalcopyrite</u> and pyrrhotite. - 226.0 to 228.0 - quartz veining, trace <u>tourmaline</u> - 233.0 to 236.0 - 1-3% disseminated pyrite. - 257.0 to 266.8 - fine grained, massive. - 266.8 to 280.5 - mottled, epidote bands.									
			17878	1-5	216.4	220.5	4.1				tr.
			17879	tr-1	220.5	224.0	3.5				tr.
			17880	tr-1	224.0	226.0	2.0				tr.
			17881	tr.	226.0	228.0	2.0				tr.
			17882	tr.	228.0	233.0	5.0				tr.
			17883	1-3	233.0	236.0	3.0				tr.
			17884	tr.	247.0	252.0	5.0				tr.
			17885	tr.	266.8	271.0	4.2				tr.
			17886	tr.	271.0	276.0	5.0				tr.
			17887	tr.	276.0	280.5	4.5				tr.
280.5	288.2	<u>MAFIC FLOWS</u> - typical.									
288.2	337.0	<u>INTERMEDIATE FLOWS</u> - typical, foliation averages 57.2° to core axis.									

LANCASHIRE - TORONTO - 386-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY ... KASAGIHINNIS LAKE

HOLE NO. ... KAS-87-18 ... SHEET NO. ... 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	SULPHIDES	FOOTAGE			G	S	Fe	Cu		
					FROM	TO	TOTAL						
337.0		- 288.2 to 297.0 - epidote banding, minor silicification, microfaulting, and potassic alteration, abundant quartz stringers.	17888	tr.	288.2	292.0	3.8					tr.	
			17889	tr.	292.0	297.0	5.0					tr.	
		- 320.0 to 327.0 - brecciated, abundant quartz veins and stringers with trace-2% coarse grained pyrite, minor potassic alteration.	17890	tr-2	320.0	323.5	3.5						tr.
			17891	tr-2	323.5	327.0	3.5						tr.
			17892	tr.	327.0	332.0	5.0						tr.
			17893	tr.	332.0	337.0	5.0						tr.
				End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-19 LENGTH 269'
 LOCATION L72+00E 7+87N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 9, 1987 FINISHED February 11, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-43.5°				

HOLE NO. KAS-87-19 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 769542

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	8.0	CASING							
8.0	202.0	MAFIC TO INTERMEDI "E FLOWS AND TUFF - 70:30							
202.0	238.9	GARNETIFEROUS MAFIC TO INTERMEDIATE TUFF							
238.9	244.5	INTERMEDIATE FLOWS							
244.5	256.7	GARNETIFEROUS MAFIC TO INTERMEDIATE TUFF							
256.7	269.0	FELSIC TO INTERMEDIATE TUFF							
269.0		End of Hole.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-19 LENGTH 269'
 LOCATION L72+00E 7+87N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 9, 1987 FINISHED February 11, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-43.5°				

HOLE NO. KAS-87-19 SHEET NO. 1 of 1

REMARKS _____

PA - 769542

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	SIZES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	8.0	<u>CASING</u>										
8.0	202.0	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF</u> - 70:30; dark green, fine grained, banded to massive, weakly foliated. <u>Average Modes</u> Amphibole 45 - 50% Quartz Plagioclase)- 40 - 45% Carbonate 1 - 2% Garnets trace - 1% Pyrite trace - 3% Pyrrhotite trace Chalcopyrite trace Highly fractured, upper 30 feet has limonitic infillings, lower portion has carbonate infillings, trace <u>chalcopyrite</u> and pyrrhotite on fractures, abundant chert bands, foliation averages 55.6° to core axis. - 28.3 to 29.3 - 1-3% banded pyrite and chert. - 37.5 to 38.8 - abundant fracturing with carbonate infillings. - 47.0 to 62.8 - fracturing with carbonate and trace-1% pyrite infillings. - 75.0 to 80.7 - quartz and quartz-carbonate veins with 0.5-1% fine grained pyrite on fractures, trace-1%										
			17894	tr.	8.0	12.0	4.0					tr.
			17895	tr-3	27.0	32.0	5.0					tr.
			17896	tr.	32.0	37.0	5.0					tr.
			17897	tr.	37.0	42.0	5.0					tr.
			17898	tr.	42.0	47.0	5.0					tr.
			17899	tr-1	47.0	52.0	5.0					tr.
			17900	tr-1	52.0	57.0	5.0					tr.
			17901	tr-1	57.0	62.0	5.0					tr.
			17902	tr-1	62.0	62.8	0.8					tr.
			17903	0.5-1	75.0	80.7	5.7					tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-19 SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	G/TON	G/TON
					FROM	TO	TOTAL				
		disseminated <u>tourmaline</u> , chlorite-garnet bands in horizon with trace-0.5% pyrrhotite blebs.									
		- 87.0 to 89.5 - as above.	17904	0.5-1	87.0	89.5	2.5			tr.	
		- 99.0 to 99.7 - minor brecciation, chlorite-carbonate infilling.									
		- 112.0 to 120.0 - 3-5% stretched garnets, trace-0.5% pyrite as inclusions and fracture fillings.	17905	tr-0.5	112.0	117.0	5.0			tr.	
			17906	tr-0.5	117.0	120.0	3.0			tr.	
		- 134.0 to 149.3 - minor fracturing, quartz-carbonate infillings.	17907	-	134.0	137.0	3.0			tr.	
			17908	-	137.0	142.0	5.0			tr.	
			17909	-	142.0	147.0	5.0			tr.	
			17910	-	147.0	149.3	2.3			tr.	
			17911	-	190.2	195.0	4.8			tr.	
			17912	-	195.0	197.0	2.0			tr.	
			17913	-	197.0	202.0	5.0			tr.	
202.0	238.9	GARNETIFEROUS MAFIC TO INTERMEDIATE TUFF - dark green (grey tint), fine to coarse grained, massive to crudely banded.	17914	0.5-1	202.0	207.0	5.0			tr.	
			17915	0.5-1	207.0	212.0	5.0			tr.	
			17916	0.5-1	212.0	217.0	5.0			tr.	
			17917	0.5-1	217.0	222.0	5.0			tr.	
			17918	0.5-1	222.0	227.0	5.0			tr.	
			17919	0.5-1	227.0	232.0	5.0			tr.	
			17920	0.5-1	232.0	237.0	5.0			tr.	
			17921	0.5-1	237.0	238.9	1.9			tr.	
		<u>Average Modes</u>									
		Amphibole 40 - 45%									
		Quartz)- 25 - 30%									
		Plagioclase)-									
		Garnet 15 - 20%									
		Chlorite 1 - 2%									
		Biotite 1 - 2%									
		Magnetite 0.5 - 1%									
		Pyrite 0.5 - 1%									
		Distorted banding - foliation, abundant massive to disseminated idiomorphic to allotriomorphic pink garnets, pyrite as inclusions or grains on boundaries of garnets, massive garnet bands have 3-5% pyrite as stringers, common quartz veining, minor pyrrhotite bands near bottom of section.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-19 SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	G/TON	G/TON	
					FROM	TO				TOTAL
238.9	244.5	INTERMEDIATE FLOWS - dark grey, fine grained, laminated to massive. <u>Average Modes</u> Amphibole 45 - 50% Quartz 40 - 45% Plagioclase 1 - 3% Garnet 1 - 2% Pyrite on fracture cleavage and as bands.	17922	1-2	238.9	242.0	3.1			tr.
			17923	1-2	242.0	244.5	2.5			tr.
244.5	256.7	GARNETIFEROUS MAFIC TO INTERMEDIATE TUFF - typical.	17924	0.5-1	244.5	247.0	2.5			tr.
			17925	0.5-1	247.0	252.0	5.0			tr.
			17926	0.5-1	252.0	256.7	4.7			tr.
256.7	269.0	FELSIC TO INTERMEDIATE TUFF - dark grey, fine grained, well foliated. <u>Average Modes</u> Sericite 40 - 45% Quartz 25 - 30% Chlorite 20 - 25% Pyrite 1 - 2% Garnet trace - 1% Pyrite as blebs and disseminated grains, minor garnet-chlorite bands, foliation averages 55.5° to core axis.	17927	1-2	256.7	260.0	3.3			tr.
			17928	1-2	260.0	264.0	4.0			tr.
			17929	1-2	264.0	269.0	5.0			tr.
269.0		End of Hole.								



ANGROGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-20 LENGTH 247'
 LOCATION L76+00E 19+93N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 12, 1987 FINISHED February 13, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-42.0°				

HOLE NO. KAS-87-20 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 769540

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SI % PH DES	FOOTAGE		%	%	oz/TON	oz/TON	
					FROM	TO	TOTAL				
0	10.0	CASING									
10.0	33.6	QUARTZ-FELDSPAR PORPHYRY									
33.6	60.7	SILTSTONE-MUDSTONE									
60.7	94.0	WACKE									
94.0	98.2	SILTSTONE									
98.2	121.6	WACKE									
121.6	134.6	QUARTZ-FELDSPAR PORPHYRY									
134.6	209.7	WACKE									
209.7	224.2	MUDDY SANDSTONE									
224.2	247.0	SILTSTONE									
247.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY: KASAGMINNIS LAKE
 HOLE NO. KAS-87-20 LENGTH 267'
 LOCATION 176+00E 19+93N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 12, 1987 FINISHED February 13, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	45.0°				
200'	42.0°				

HOLE NO. KAS-87-20 SHEET NO. 1 of 4

REMARKS _____

PA - 769540

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SIZING LOSS	FOOTAGE		%	oz/TON	oz/TON
				FROM	TO	TOTAL			
0	10.0	CASING							
10.0	33.6	QUARTZ-FELDSPAR PORPHYRY - dark grey with pink mottling, fine to medium grained, massive, slightly foliated. <u>Average Modes</u> Quartz 40 - 45% Feldspar 35 - 40% Chlorite 10 - 15% Carbonate 1 - 3% Pyrite trace - 0.5% Abundant potassic alteration along fractures, abundant quartz stringers, carbonate throughout, foliated at 47.0° to core axis at 13.0.	17931	cr-05	10.0	15.0	5.0		tr.
			17931	cr-05	30.0	33.6	3.6		tr.
33.6	60.7	SEDIMENTS - SILTSTONE-MUDSTONE - light to dark grey, fine grained, finely laminated to poorly banded. Siltstone: <u>Average Modes</u> Quartz)- 60 - 65% Feldspar)- Chlorite)- 20 - 25% Biotite)- Carbonate 3 - 5% Garnets trace - 5%							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-20 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SWI PM IDES	FOOTAGE			%	%	GT 10m	GT 10m
					FROM	TO	TOTAL				
		<p>Mudstone:</p> <p><u>Average Modes</u></p> <p>Chlorite 50 - 55%</p> <p>Quartz 25 - 30%</p> <p>Biotite 5 - 10%</p> <p>Carbonate 3 - 5%</p> <p>Few widely spaced fractures, rare quartz-chert bands, foliation averages 50.0° to core axis.</p> <p>- 33.6 to 45.3 - siltstone, no garnets, finely laminated.</p> <p>- 45.3 to 50.0 - 3-5% garnets in siltstone, abundant chlorite-biotite bands.</p> <p>- 50.0 to 55.1 - siltstone, 3-5% amphibole, poorly banded, cherty, 2-3% disseminated pyrite blebs.</p> <p>- 55.1 to 60.7 - mudstone, finely laminated.</p>									
60.7	94.0	<p>WACKE - dark grey to green, fine to medium grained, poorly laminated to poorly banded.</p> <p><u>Average Modes</u></p> <p>Quartz)- 40 - 45%</p> <p>Plagioclase)</p> <p>Amphibole 25 - 30%</p> <p>Chlorite 10 - 15%</p> <p>Biotite 3 - 5%</p> <p>Carbonate 3 - 5%</p> <p>Few widely spaced fractures with carbonate coatings, may represent intermixed siltstone and intermediate tuff, foliation averages 56° to core axis.</p>	17932	tr.	33.6	37.0	3.4				tr.
			17933	tr.	42.0	45.3	3.3				tr.
			17934	tr.	45.3	47.0	1.7				tr.
			17935	tr.	47.0	50.0	3.0				tr.
			17936	2-3	50.0	52.5	2.5				tr.
			17937	2-3	52.5	55.1	2.6				tr.
			17938	tr.	55.1	57.0	1.9				tr.
			17939	tr.	57.0	60.7	3.7				tr.
			17940	tr.	60.7	62.0	1.3				tr.
			17941	tr.	72.0	77.0	5.0				tr.
			17942	tr.	89.0	94.0	5.0				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY: KASAGIMINI'S LAKE
 HOLE NO: KAS-87-20 SHEET NO: 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE		OF TON	OF TON	
				FROM	TO	TOTAL			
94.0	98.2	SILTSTONE - dark grey, very fine grained, laminated to finely banded. <u>Average Modes</u> Sericite 25 - 30% Chlorite 25 - 30% Quartz 35 - 40% Carbonate 2 - 3% Abundant fracturing with carbonate fracture coatings or barren; foliated at 50° to core axis at 98.2.	1794	tr.	94.0	98.2	4.2		tr.
98.2	121.6	WACKE - typical. - 112.0 to 121.6 - abundant quartz stringers, epidote-quartz infillings of fractures, minor potassic alteration.	17944	tr.	98.2	102.0	3.8		tr.
			17945	tr.	112.0	111.0	5.0		tr.
			17946	tr.	117.0	121.6	4.6		tr.
121.6	134.6	QUARTZ-FELDSPAR PORPHYRY - typical, minor quartz stringers, 0.5-1% disseminated pyrite, foliation 5° to core axis at 127.0.	17947	0.5-1	121.6	125.6	4.0		tr.
			17948	0.5-1	132.0	134.6	2.6		tr.
134.6	209.7	WACKE - typical, abundant quartz stringers, foliation averages 54.3° to core axis. - 162.2 to 163.0 - massive epidote band.	17949	tr.	134.6	137.0	2.4		tr.
			17950	tr.	162.0	167.0	5.0		tr.
			17951	tr.	207.0	209.7	2.7		tr.
209.7	224.2	MUDDY SANDSTONE - dark grey, fine grained, massive to speckled, slight foliation. <u>Average Modes</u> Quartz)- 75 - 80% Feldspar)- Chlorite 10 - 15% Amphibole 1 - 3% Biotite 1 - 2%	17952	0.5-1	209.7	212.0	2.3		tr.
			17953	0.5-1	212.0	217.0	5.0		tr.
			17954	0.5-1	217.0	222.0	5.0		tr.
			17955	0.5-1	222.0	224.2	2.2		tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY...

KASAGIMINNIS LAKE

HOLE NO. KAS-87-20

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		% SILICA	% SULPHUR	% IDES	FOOTAGE			%	%	%	%	
						FROM	TO	TOTAL					
		Minor biotite and chlorite bands, 0.5-1% pyrite as disseminated grains, bands and fracture coatings, narrow gradational contact with lower unit.											
224.2	247.0	SILTSTONE - as per 94.0 to 98.2, minor hematite stained horizons, 0.5-2% disseminated to banded pyrite. - 241.7 to 243.6 - 1-2% disseminated garnets, several beds less than 0.1 foot of 35-40% pyrite. Foliation averages 58.3° to core axis.	17956	0.5-2	224.2	227.0	2.8					tr.	
			17957	0.5-2	227.0	232.0	5.0					tr.	
			17958	0.5-2	232.0	237.0	5.0					tr.	
			17959	0.5-2	237.0	242.0	5.0					tr.	
			17960	0.5-2	242.0	247.0	5.0					tr.	
247.0		End of Hole.											



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-21 LENGTH 365'
 LOCATION L88+00E 17+77N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 13, 1987 FINISHED February 14, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
365'	-42.1°				

HOLE NO KAS-87-21 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 769535

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	20.0	<u>CASING</u>									
20.0	38.5	<u>INTERMEDIATE TUFF</u>									
38.5	41.7	<u>FELSIC TO INTERMEDIATE TUFF</u>									
41.7	76.6	<u>INTERMEDIATE TUFF</u>									
76.6	107.9	<u>FELSIC TO INTERMEDIATE TUFF</u>									
107.9	260.1	<u>MAFIC FLOWS</u>									
260.1	365.0	<u>INTERMEDIATE TUFF</u>									
365.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-21 LENGTH 365'
 LOCATION L88+00E 17+77N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 13, 1987 FINISHED February 14, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	45.0°				
365'	42.1°				

HOLE NOKAS-87-21 SHEET NO. 1 of 4

REMARKS _____

PA - 769535
 adjoining
 PA - 769537

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	20.0	<u>CASING</u>									
20.0	38.5	<u>INTERMEDIATE TUFF</u> - dark grey to greenish-grey, fine grained, laminated to crudely banded.	17961	tr.	20.0	25.0	5.0			tr.	
		<u>Average Modes</u>	17962	tr.	37.0	38.5	1.5			tr.	
		Amphibole 30 - 35%									
		Quartz)-									
		Plagioclase)-									
		Chlorite 25 - 30%									
		Biotite 1 - 2%									
		Carbonate 0.5 - 1%									
		Pyrite trace									
		Minor quartz veining, barren to carbonate coated fractures, foliated at 40° to core axis at 22.5, 44° at 36.5.									
38.5	41.7	<u>FELSIC TO INTERMEDIATE TUFF</u> - dark grey, fine grained, laminated.	17963	tr-0.5	38.5	41.7	3.2			tr.	
		<u>Average Modes</u>									
		Quartz 40 - 45%									
		Sericite 30 - 35%									
		Chlorite 10 - 15%									
		Amphibole 3 - 5%									
		Carbonate 1 - 2%									
		Pyrite trace - 0.5%									
		Minor potassic alteration, pyrite as fracture coatings or disseminated grains, minor quartz stringers, foliation at 46° to core axis.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-21 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS								
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OF TON	OF TON			
					FROM	TO	TOTAL							
41.7	76.6	<u>INTERMEDIATE TUFF</u> - typical, 10-15% biotite, minor potassic alteration and fracturing, foliation averages 45° to core axis. - 50.1 to 54.0 - dislocation fracture, 0.1 foot movement subparallel to core axis, abundant quartz stringers, trace-0.5% pyrite along fractures. - 67.4 to 72.9 - sericitic horizon with 0.5-1% disseminated pyrite blebs.	17964	tr.	41.7	46.7	5.0					tr.		
			17965	tr.	46.7	50.1	4.4						tr.	
			17966	tr-0.5	50.1	54.0	3.9						tr.	
			17967	0.5-1	67.4	70.4	3.0						tr.	
			17968	0.5-1	70.4	72.9	2.5						tr.	
			17969	tr.	72.9	76.6	3.7					tr.		
76.6	107.9	<u>FELSIC TO INTERMEDIATE TUFF</u> - atypical, laminated to massive, becomes more massive and cherty towards lower contact, epidote-quartz-carbonate infillings of fractures, minor kink folds with 3-5% pyrite, 1-2% pyrite throughout, increased carbonate down hole. - 76.6 to 77.6 - banded quartz-tourmaline vein. - 86.4 to 87.4 - quartz-tourmaline stringers, 1-2% disseminated tourmaline grains. - 106.7 to 107.9 - massive fine grained chert with minor breccia zone at top of section. Foliation averages 45.5° to core axis.	17970	tr.	76.6	77.6	1.0						tr.	
			17971	tr.	77.6	82.0	4.4							tr.
			17972	tr.	82.0	86.4	4.4							tr.
			17973	tr.	86.4	87.4	1.0							tr.
			17974	tr.	87.4	92.0	4.6							tr.
			17975	tr.	92.0	97.0	5.0							tr.
			17976	tr.	97.0	102.0	5.0							tr.
			17977	tr.	102.0	106.7	4.7							tr.
			17978	tr.	106.7	107.9	1.2							tr.
107.9	260.1	<u>MAFIC FLOWS</u> - dark green, fine to medium grained, massive, strong to weak foliation. <u>Average Modes</u> Amphibole 45 - 50% Quartz)- 35 - 40% Plagioclase) Chlorite 3 - 5%												

LANGRAGES - TORONTO - 346 1108

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-21 SHEET NO 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SULPH IDEA	FOOTAGE		%	%
					FROM	TO		
		Epidote 3 - 5% Carbonate trace - 1% Pyrite trace - 0.5% Albite wisps in medium grained massive sections, quartz-epidote-carbonate interflow widely spaced, widely spaced chloritic fractures, foliation averages 52.6° to core axis.						
		- 107.9 to 139.7 - fine to medium grained flows, abundant quartz veining, trace-1% pyrite throughout.	17979	tr-1	107.9	112.0	4.1	tr.
			17980	tr-1	112.0	117.0	5.0	tr.
			17981	tr-1	117.0	122.0	5.0	tr.
			17982	tr-1	122.0	127.0	5.0	tr.
			17983	tr-1	127.0	132.0	5.0	tr.
			17984	tr-1	132.0	137.0	5.0	tr.
			17985	tr-1	137.0	139.7	2.7	tr.
		- 139.7 to 179.7 - massive, medium grained flows, abundant albite wisps, few widely spaced fractures, common quartz-epidote bands, trace disseminated pyrite and <u>chalcopyrite</u> .	17986	tr.	139.7	142.0	2.3	tr.
			17987	tr.	142.0	147.0	5.0	tr.
			17988	tr.	147.0	152.0	5.0	tr.
			17989	tr.	177.0	179.7	2.7	tr.
		- 179.7 to 199.1 - foliated, fine to medium grained flows, common chert and carbonate bands, minor biotite and chlorite bands.	17990	tr.	179.7	182.0	2.3	tr.
			17991	tr.	197.0	199.1	2.1	tr.
		- 199.1 to 244.1 - mottled flows, few widely spaced fractures.	17992	tr.	199.1	202.0	2.9	tr.
			17993	tr.	202.0	207.0	5.0	tr.
		- 199.1 to 207.0 - 1-3% <u>tourmaline</u> bands.	17994	tr.	207.0	212.0	5.0	tr.
			17995	tr.	212.0	217.0	5.0	tr.
			17996	tr.	217.0	222.0	5.0	tr.
			17997	tr.	222.0	227.0	5.0	tr.
		- 227.0 to 244.1 - numerous quartz stringers and epidote bands, common closely spaced fractures.	17998	tr.	227.0	232.0	5.0	tr.
			17999	tr.	232.0	237.0	5.0	tr.
			18000	tr.	237.0	241.0	4.0	tr.
			18101	tr.	241.0	244.1	3.1	tr.
		- 244.1 to 247.0 - mottled flows, abundant fracturing and quartz stringers.	18102	tr.	244.1	247.0	2.9	tr.
		- 247.0 to 250.2 - quartz vein, 5-7% medium grained, disseminated, green muscovite mica, 0.5-1% fine grained pyrite as fracture coatings, 1-2% carbonate.	18103	0.5-1	247.0	250.2	3.2	tr.



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-21 SHEET NO 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO	% SU/PW IDCS	FOOTAGE			%	%	%	%		
					FROM	TO	TOTAL						
260.1	365.0	- 250.2 to 260.1 - laminated fine to medium grained flows, abundant quartz stringers, 1-2% pyrite as fracture fillings.	18104	1-2	250.2	252.0	1.8					tr.	
			18105	1-2	252.0	257.0	5.0					tr.	
		- 258.6 to 260.1 - 3-5% pyrite as stringers, 0.3 foot cherty quartz vein.	18106	1-2	257.0	260.1	3.1					tr.	
			INTERMEDIATE TUFF - typical with minor quartz crystal tuff and lapilli tuff, foliation averages 52.5° to core axis.										
		- 260.1 to 280.0 - common quartz veining with trace-0.5% pyrite and <u>tourmaline</u> as disseminated grains.	18107	tr-0.5	260.1	262.0	1.9						tr.
			18108	tr-0.5	262.0	267.0	5.0						tr.
			18109	tr-0.5	267.0	272.0	5.0						tr.
			18110	tr-0.5	272.0	277.0	5.0						tr.
			18111	tr-0.5	277.0	280.0	3.0						tr.
			18112	tr-0.5	280.0	282.0	2.0						tr.
			18113	tr.	282.0	287.0	5.0						tr.
			18114	tr.	287.0	292.0	5.0						tr.
			18115	tr.	292.0	297.0	5.0						tr.
			18116	tr.	297.0	299.6	2.6						tr.
			18117	tr.	332.0	337.0	5.0						tr.
			18118	tr.	337.0	341.0	4.0						tr.
			18119	tr.	341.0	343.2	2.2						tr.
			- 343.2 to 345.7 - brecciated, with fragments up to 0.1 foot across, potassic alteration, chlorite-carbonate matrix.	18120	tr.	343.2	345.7	2.5					
		18121		tr.	345.7	347.4	1.7						tr.
		- 347.4 to 348.5 - brecciated, quartz vein, chloritic fractures, minor potassic alteration, 1-2% disseminated muscovite, 1-2% carbonate fracture coatings.	18122	tr.	347.4	348.5	1.1						tr.
- 348.5 to 355.3 - typical, abundant quartz veining.	18123	tr.	348.5	351.0	2.5						tr.		
	18124	tr.	351.0	355.3	4.3						tr.		
- 355.3 to 359.8 - abundant fracturing and potassic alteration.	18125	tr.	355.3	359.8	4.5						tr.		
	18126	tr.	359.8	364.0	4.2						tr.		
	18127	tr.	364.0	365.0	1.0						tr.		
365.0		End of Hole.											

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-22 LENGTH 365'
 LOCATION 188+00E 20+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 15, 1987 FINISHED February 17, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-39.0°				
365'	-34.6°				

HOLE NO. KAS-87-22 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 769535

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	PH IDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	8.0	CASING							
8.0	30.3	FELSIC TO INTERMEDIATE TUFF							
30.3	33.5	BANDED IRON FORMATION							
33.5	35.2	FELSIC TO INTERMEDIATE TUFF							
35.2	35.9	BANDED IRON FORMATION							
35.9	47.0	FELSIC TO INTERMEDIATE TUFF							
47.0	113.3	INTERMEDIATE FLOWS AND TUFF - 70:30							
113.3	158.9	FELSIC TO INTERMEDIATE TUFF							
158.9	171.4	MAFIC FLOWS AND TUFF - 50:50							
171.4	181.3	INTERMEDIATE TUFF							
181.3	191.3	MAFIC FLOWS AND TUFF - 70:30							
191.3	192.8	FELSIC TO INTERMEDIATE TUFF							
192.8	202.7	FELSIC TUFF							
202.7	212.8	FELSIC TO INTERMEDIATE TUFF							
212.8	248.9	INTERMEDIATE TUFF							
248.9	255.7	FELSIC TO INTERMEDIATE CRYSTAL TUFF							

DIAMOND DRILL RECORD

NAME OF PROPERTY ... KASAGIMINNIS LAKE

HOLE NO ... KAS-87-22 ... SHEET NO ... 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ANALYSIS			
FROM	TO		NO.	SPLIT DES.	FOOTAGE FROM TO TOTAL			32 TON	62 TON
255.7	294.6	<u>INTERMEDIATE TUFF</u>							
294.6	297.3	<u>FELSIC TO INTERMEDIATE CRYSTAL TUFF</u>							
297.3	351.4	<u>INTERMEDIATE TUFF</u>							
351.4	356.0	<u>GRANITE-PEGMATITE DYKE</u>							
356.0	365.0	<u>INTERMEDIATE TUFF</u>							
365.0		End of Hole.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-22 LENGTH 365'
 LOCATION L88+00E 20+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 15, 1987 FINISHED February 17, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-39.0°				
365'	-34.6°				

HOLE NO KAS-87-22 SHEET NO. 1 of 5

REMARKS _____

PA - 769535

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	8.0	CASING									
8.0	30.3	FELSIC TO INTERMEDIATE TUFF - dark grey, fine to medium grained, laminated to poorly banded. Average Modes Quartz)- 50 - 55% Feldspar)- 25 - 30% Sericite 5 - 10% Chlorite 3 - 5% Abundant crystal tuff horizons with quartz and feldspar crystals, foliation averages 46.0° to core axis.	18128	-	8.0	12.0	4.0			tr.	
			18129	-	27.0	30.3	3.3			tr.	
30.3	33.5	BANDED IRON FORMATION - grey to black to white to green, fine grained, streaked to well banded. Average Modes Chert-Quartz 60 - 65% Amphibole 15 - 20% Magnetite 5 - 10% Carbonate 3 - 5% Garnet trace - 0.5% Pyrite trace - 0.5% Minor stretched garnets in amphibole layers, wispy magnetite bands, minor pyrite laminations.	18130	tr-05	30.3	33.5	3.2			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY ... KASAGIMINNIS LAKE

HOLE NO ... KAS-87-22

SHEET NO 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	oz ton	oz ton
					FROM	TO	TOTAL				
33.5	35.2	<u>FELSIC TO INTERMEDIATE TUFF</u> - typical.	18131	-	33.5	35.2	1.7			tr.	
35.2	35.9	<u>BANDED IRON FORMATION</u> - typical, well banded.	18132	tr-0.5	35.2	35.9	0.7			tr.	
35.9	47.0	<u>FELSIC TO INTERMEDIATE TUFF</u> - atypical, highly fractured, sericitized, purplish-grey, epidote-carbonate fracture fillings.	18133	-	35.9	37.0	1.1			tr.	
			18134	-	37.0	42.0	5.0			tr.	
			18135	-	42.0	47.0	5.0			tr.	
47.0	113.3	<u>INTERMEDIATE FLOWS AND TUFF</u> - 70:30, dark greenish-grey, fine grained, poorly laminated to banded.	18136	-	47.0	52.0	5.0			tr.	
		<u>Average Modes</u>									
		Amphibole 35 - 40%									
		Quartz)- 35 - 40%									
		Plagioclase									
		Chlorite 10 - 15%									
		Biotite 3 - 5%									
		Carbonate 1 - 2%									
		Epidote 0.5 - 1%									
		Minor chert bands, few widely spaced barren fractures, minor quartz veining, biotite in tuffaceous horizons, foliation averages 46.7° to core axis.									
		- 75.5 to 93.0 - abundant quartz veining with trace-1% pyrite and pyrrhotite disseminated throughout.	18137	tr-1	75.7	77.0	1.3			tr.	
			18138	tr-1	77.0	82.0	5.0			tr.	
			18139	tr-1	82.0	87.0	5.0			tr.	
			18140	tr-1	87.0	90.0	3.0			tr.	
			18141	tr-1	90.0	93.0	3.0			tr.	
		- 99.5 to 100.5 - 1-2% disseminated pyrite.	18142	1-2	99.5	100.5	1.0			tr.	
		- 107.0 to 113.3 - minor quartz veining, silicified, trace-2% disseminated pyrite in chlorite-amphibole bands.	18143	tr-2	107.0	110.0	3.0			tr.	
			18144	tr-2	110.0	113.3	3.3			tr.	
113.3	158.9	<u>FELSIC TO INTERMEDIATE TUFF</u> - typical, numerous narrow epidote bands, minor quartz-carbonate veining, trace-1% fine grained garnet, gradational contact with lower unit, foliation averages 51° to core axis.									

LANG-055 - TORONTO - 366-1108

DIAMOND DRILL RECORD

NAME OF PROPERTY... KASAGININNIS LAKE
 HOLE NO... KAS-87-22 SHEET NO... 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO	DEPT	FROM	TO	TOTAL	GR	CU	FE			
158.9	171.4	- 113.3 to 114.9 - 3-5% pyrite over all with bands (massive) up to 0.1 foot wide.	18145	7-5	113.3	114.9	1.6				tr.		
			18146		114.9	117.0	2.1				tr.		
				- 137.5 to 138.5 - 0.5 foot clean quartz vein, minor potassic alteration on contacts.	18147	-	137.5	138.5	1.0				tr.
				<u>MAFIC FLOWS AND TUFF</u> - 50:50, dark green to brown to white, fine grained, banded to massive, foliated.	18148	-	158.9	162.0	3.1				tr.
					18149	-	162.0	167.0	5.0				tr.
					18150	-	167.0	171.4	4.4				tr.
				<u>Average Modes</u>									
				Amphibole 45 - 50%									
				Quartz)- 35 - 40%									
				Plagioclase)- 3 - 5%									
		Chlorite 3 - 5%											
		Biotite 3 - 5%											
		Carbonate 1 - 2%											
		Abundant chert bands and quartz stringers, carbonate in chert bands, tuffs banded - flows massive, foliation at 60° to core axis at 157.0.											
171.4	181.3	<u>INTERMEDIATE TUFF</u> - typical, foliated at 46° to core axis at 177.0. - 178.9 to 179.9 - carbonatized - bleached horizon, 5-10% carbonate, highly fractured.	18151	-	174.4	178.9	4.5				tr.		
			18152	-	178.9	179.9	1.0				tr.		
			18153	-	179.9	181.3	1.4				tr.		
181.3	191.3	<u>MAFIC FLOWS AND TUFF</u> - typical, 70:30, abundant quartz-carbonate veining, trace pyrrhotite and pyrite.	18154	tr.	181.3	186.3	5.0				tr.		
			18155	tr.	186.3	191.3	5.0				tr.		
191.3	192.8	<u>FELSIC TO INTERMEDIATE TUFF</u> - typical.	18156	-	191.3	192.8	1.5				tr.		
192.8	202.7	<u>FELSIC TUFF</u> - light blue-grey to buff, finely laminated, fine grained.	18157	-	192.8	197.8	5.0				tr.		
			18158	-	197.8	202.7	4.9				tr.		

LANGRAGES - TORONTO - 386-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-22 SHEET NO 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	%	%
		FROM			TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Quartz 45 - 50%</p> <p>Sericite-Muscovite 20 - 25%</p> <p>Feldspar 20 - 25%</p> <p>Carbonate trace - 0.5%</p> <p>Segregated into quartz-carbonate and sericite-feldspar laminations, minor kink folding, foliation averages 56° to core axis.</p>								
202.7	212.8	<p><u>FELSIC TO INTERMEDIATE TUFF</u> - typical.</p> <p>- 202.7 to 210.1 - laminated to crudely banded, minor quartz veining.</p> <p>- 206.0 to 207.0 - brecciated, up to 0.1 foot fragments in quartz-carbonate matrix.</p> <p>- 210.0 to 212.8 - crystal tuff, abundant potassic alteration.</p>	18159	-	202.7	206.0	3.3			tr.
			18160	-	206.0	207.0	1.0			tr.
			18161	-	207.0	210.1	3.1			tr.
			18162	-	210.1	212.8	2.7			tr.
212.8	248.9	<p><u>INTERMEDIATE TUFF</u> - typical, minor quartz veining and quartz-epidote bands, abundant quartz-epidote-orthoclase alteration in some horizons.</p> <p>- 231.0 to 232.0 - quartz-epidote-carbonate banding.</p> <p>Foliation averages 54.5° to core axis.</p>	18163	-	231.0	232.0	1.0			tr.
			18164	-	247.0	248.9	1.9			tr.
248.9	255.7	<p><u>FELSIC TO INTERMEDIATE CRYSTAL TUFF</u> - typical.</p>	18165	-	248.9	252.0	3.1			tr.
			18166	-	252.0	255.7	3.7			tr.
255.7	294.6	<p><u>INTERMEDIATE TUFF</u> - typical, foliated at 55° to core axis at 263.0.</p> <p>- 255.7 to 263.2 - potassic alteration, orangy-pink to green, 15-20% epidote, 1-2% very fine grained disseminated pyrite, 1-3% carbonate.</p>	18167	1-2	255.7	257.0	1.3			tr.
			18168	1-2	257.0	262.0	5.0			tr.
			18169	1-2	262.0	263.2	1.2			tr.
294.6	297.3	<p><u>FELSIC TO INTERMEDIATE CRYSTAL TUFF</u> - typical, 0.5-2% very fine grained disseminated pyrite.</p>	18170	0.5-2	294.6	297.3	2.7			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGMINNIS LAKE

HOLE NO KAS-87-22

SHEET NO 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPH IDS	FOOTAGE			%	%	%	
					FROM	TO	TOTAL				
297.3	351.4	INTERMEDIATE TUFF - typical, trace-0.5% pyrite as blebs and fracture coatings with carbonate, foliation averages 52.5° to core axis.	18171	r-0.5	297.3	302.0	4.7				tr.
			18172	r-0.5	347.0	351.4	4.4				
351.4	356.0	GRANITE-PEGMATITE DYKE - cream to orange to purplish-grey, very coarse grained, massive. <u>Average Modes</u> Quartz 30 - 35% Plagioclase 25 - 30% Orthoclase 25 - 30% Muscovite 3 - 5% Corroded feldspars, poorly developed rapakivi texture, crosscutting foliation at 25° to core axis.	18173	-	351.4	356.0	4.6				tr.
356.0	365.0		INTERMEDIATE TUFF - typical, foliated at 55° to core axis at 362.0.	18174	-	356.0	357.0	1.0			
365.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-23 LENGTH 357'
 LOCATION L88+00E 22+77N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -48°
 STARTED February 17, 1987 FINISHED February 18, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-48.0°				
200'	-47.1°				
357'	-41.8°				

HOLE NO. KAS-87-23 SHEET NO. 1 of 1

REMARKS Summary Log

PA -769535

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	PH ICES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	11.0	CASING									
11.0	53.0	INTERMEDIATE FLOWS AND TUFF									
53.0	57.3	QUARTZ-FELDSPAR PORPHYRY SILL									
57.3	110.2	INTERMEDIATE FLOWS AND TUFF									
110.2	112.0	QUARTZ-FELDSPAR PORPHYRY SILL									
112.0	333.3	INTERMEDIATE FLOWS AND TUFF - 90:10									
333.3	337.7	FELSIC TO INTERMEDIATE ASH TUFF AND CRYSTAL TUFF									
337.7	346.2	BANDED IRON FORMATION									
346.2	357.0	FELSIC TO INTERMEDIATE ASH TUFF AND CRYSTAL TUFF									
357.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGMINNIS LAKE
 HOLE NO. KAS-87-23 LENGTH 357'
 LOCATION 188+00E 22+77N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -48°
 STARTED February 17, 1987 FINISHED February 18, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-48.0°				
200'	-47.1°				
357'	-41.8°				

HOLE NO. KAS-87-23 SHEET NO. 1 of 4

REMARKS _____

PA - 769535

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SILICIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	11.0	<u>CASING</u>							
11.0	53.0	<u>INTERMEDIATE FLOWS AND TUFF</u> - dark green to greenish-grey, fine grained, laminated to massive, foliated. <u>Average Modes</u> Amphibole 40 - 45% Quartz)- 35 - 40% Plagioclase)- Chlorite)- 10 - 15% Sericite)- Carbonate 1 - 2% Pyrite trace - 0.5% Very blocky in upper 5 feet, few widely spaced fractures and chert bands, pyrite as fracture coatings and in quartz stringers. - 11.0 to 18.6 - flows. - 18.6 to 24.1 - medium grained quartz, crystal tuff, 0.5-1% pyrite. - 24.1 to 53.0 - flows. Foliation averages 46.4° to core axis.							
			18175		11.0 16.0 5.0			tr.	
			18176		16.0 18.6 2.6			tr.	
			18177		18.6 22.0 3.4			tr.	
			18178		22.0 24.1 2.1			tr.	
			18179		24.1 27.0 2.9			tr.	
			18180		52.0 53.0 1.0			tr.	
53.0	57.3	<u>QUARTZ-FELDSPAR PORPHYRY (SILL.)</u> - dark grey-white-pink, fine to medium grained, foliated.	18181		53.0 57.3 4.3			tr.	

LANGRISHES - "CAUTION" - 308-11188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-23 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	%	of ton	of ton
				FROM	TO	TOTAL				
		<u>Average Modes</u>								
		Quartz 40 - 45%								
		Feldspar 35 - 40%								
		Chlorite 10 - 15%								
		Pyrite 1 - 2%								
		Potassic alteration (pink tinge), medium grained orthoclase-plagioclase phenocrysts in fine grained groundmass. Minor quartz veining with 1-2% pyrite; foliated at 42° to core axis at 57.0.								
57.3	110.2	<u>INTERMEDIATE FLOWS AND TUFF</u> - typical, common quartz veining with trace-0.5% disseminated pyrite, minor potassic alteration, quartz and carbonate augens in some horizons; foliated at 45° to core axis at 109.0.								
		- 73.4 to 75.9 - quartz crystal tuff, sharp lower contact,	18182		73.4	75.9	2.5			tr.
		gradational upper contact, abundant medium grained quartz eyes in fine grained groundmass.	18183		107.0	110.2	3.2			tr.
110.2	112.0	<u>QUARTZ-FELDSPAR PORPHYRY SILL</u> - typical, concordant.	18184		110.2	112.0	1.8			tr.
112.0	333.3	<u>INTERMEDIATE FLOWS AND TUFF</u> - 90:10, trace-1% garnets in some horizons.	18185		112.0	117.0	5.0			tr.
			18186		117.0	121.0	4.0			tr.
		- 121.0 to 122.0 - 0.3 foot quartz vein with 1-3% very fine grained pyrite on fractures.	18187		121.0	122.0	1.0			tr.
		- 152.1 to 155.1 - minor fracturing, sericitized, minor brecciation with quartz-carbonate infillings.	18188		152.0	155.1	3.1			tr.
			18189		155.1	159.8	4.7			tr.
		- 159.8 to 162.3 - 1-3% pyrite as disseminated blebs and bands with quartz-carbonate stringers.	18190		159.8	162.3	2.5			tr.
		- 189.2 to 191.4 - abundant quartz veining.	18191		189.2	191.4	2.2			tr.
		- 196.7 to 197.2 - fracturing, minor brecciation, common quartz veining.	18192		196.7	197.2	0.5			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-23 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
		- 197.2 to 203.2 - narrow, irregular quartz-carbonate stringers, minor fracturing.	18193		197.2	200.2	3.0			tr.
			18194		200.2	203.2	3.0			tr.
		- 217.5 to 219.0 - abundant irregular quartz stringers.	18195		217.5	219.0	1.5			tr.
			18196		232.0	237.0	5.0			tr.
			18197		252.0	257.0	5.0			tr.
			18198		282.0	287.0	5.0			tr.
			18199		302.0	307.0	5.0			tr.
		- 322.0 to 333.3 - trace-2% pyrite as bands and disseminated blebs, common quartz veining.	18200		322.0	327.0	5.0			tr.
			18201		327.0	332.0	5.0			tr.
			18202		332.0	333.3	1.3			tr.
		Foliation averages 48.5° to core axis.								
333.3	337.7	<u>FELSIC TO INTERMEDIATE ASH TUFF AND CRYSTAL TUFF</u> - dark grey to pink, fine to medium grained, poorly laminated to banded.	18203		333.3	337.7	4.4			tr.
		<u>Average Modes</u>								
		Quartz 40 - 45%								
		Feldspar 30 - 35%								
		Chlorite 20 - 25%								
		Carbonate trace - 2%								
		Pyrite trace - 1%								
		Quartz and orthoclase metacrysts in potassic altered groundmass, trace-1% fine grained disseminated pyrite, foliated at 48° to core axis.								
		- 337.0 to 337.7 - felsic tuff, segregated quartz, orthoclase and plagioclase bands, very cherty, 1-3% fine grained disseminated pyrite, 1-2% carbonate.								
337.7	346.2	<u>BANDED IRON FORMATION</u> - dark green to dark greenish-grey to black, fine grained, well banded to wispy bands to laminated.	18204		337.7	340.7	3.0			tr.
			18205		340.7	343.7	3.0			tr.
			18206		343.7	346.2	2.5			tr.

L-468028 - TORONTO - 388-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-23 SHEET NO 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	%	G/Ton	G/Ton	
					FROM	TO					TOTAL
		<p><u>Average Modes</u></p> <p>Quartz-Chert 65 - 70%</p> <p>Magnetite 5 - 10%</p> <p>Pyrite 5 - 7%</p> <p>Amphibole 3 - 5%</p> <p>Chlorite 3 - 5%</p> <p>Carbonate trace - 5%</p> <p>Carbonate-rich beds, well banded, pyrite as massive beds up to 0.2 feet, finely disseminated ± magnetite throughout, as fracture coatings and stringers, magnetite as fine grained bands or disseminated grains, foliated at 47° to core axis at 342.0.</p>									
346.2	357.0	<p><u>FELSIC TO INTERMEDIATE ASH TUFF AND CRYSTAL TUFF</u> - typical, foliated at 48° to core axis at 357.0.</p> <p>- 346.2 to 347.0 - laminated, ash tuff.</p> <p>- 347.0 to 348.9 - crystal tuff, minor albitization of 0.5 foot quartz vein.</p> <p>- 348.9 to 357.0 - ash tuff.</p>	18207		346.2	348.9	2.7			tr.	
			18208		348.9	352.0	3.1			tr.	
			18209		352.0	357.0	5.0			tr.	
357.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-24 LENGTH 265'
 LOCATION L108+00E 15+97N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 19, 1987 FINISHED February 20, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
265'	-42.6°				

HOLE NO. KAS-87-24 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 769554

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SIL PH IDES	FOOTAGE FROM TO	TOTAL	%	%	OZ/TON	OZ/TON
0	20.5	CASING								
20.5	40.3	MAFIC FLOWS								
40.3	58.6	MUDDY SILTSTONE								
58.6	72.8	INTERMEDIATE FLOWS								
72.8	79.2	SILTSTONE								
79.2	111.0	WACKE								
111.0	125.8	MAFIC TUFF								
125.8	131.3	WACKE								
131.3	265.0	MAFIC TO INTERMEDIATE TUFF AND FLOWS - 50:50.								
265.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-24 LENGTH 265'
 LOCATION L108+00E 15+97N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 19, 1987 FINISHED February 20, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
265'	-42.6°				

HOLE NO KAS-87-24 SHEET NO. 1 of 5

REMARKS _____

PA - 769554

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SI IDES	FOOTAGE FROM TO TOTAL	%	%	oz/TON	oz/TON
0	20.5	<u>CASING</u>							
20.5	40.3	<u>MAFIC FLOWS</u> - dark green, fine grained, massive, foliated. <u>Average Modes</u> Amphibole 50 - 55% Quartz)- 25 - 30% Plagioclase)- Chlorite 10 - 15% Biotite 1 - 2% Carbonate trace - 0.5% Pyrite trace - 0.5% Garnet trace Minor tuffaceous horizons with biotite and disseminated garnet, highly fractured throughout, abundant quartz-carbonate veining and fracture fillings, minor pyrite fracture coatings, limonitic fractures in upper 40 feet. - 26.5 to 28.8 - breccia zone, fragments up to 1/2 inch across, quartz-carbonate-chlorite matrix. Foliation averages 54.3° to core axis.	18210		20.5 25.0 4.5				tr.
			18211		25.0 28.8 3.8				tr.
			18212		37.0 40.3 3.3				tr.
40.3	58.6	<u>MUDDY SILTSTONE</u> - dark grey to white, fine grained, distorted fine laminations. <u>Average Modes</u> Quartz 45 - 50% Chlorite 30 - 35%	18213		40.3 42.0 1.7				tr.
			18214		57.0 58.6 1.6				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ KASAGIMINNIS LAKE _____

HOLE NO. _____ KAS-87-24 _____ SHEET NO. _____ 2 of 5 _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		G	S	OF TON	12 TON
				FROM	TO	TOTAL				
		<p>Sericite 10 - 15%</p> <p>Amphibole 3 - 5%</p> <p>Carbonate i - 3%</p> <p>Pyrite trace - 0.5%</p> <p>Minor kink folding, abundant quartz stringers, pyrite as fracture coatings and disseminated grains, foliation at 54° to core axis at 47.5.</p> <p>- 57.0 to 58.6 - abundant irregular cherty quartz stringers.</p>								
58.6	72.8	<p><u>INTERMEDIATE FLOWS</u> - grey to green, fine to medium grained, massive to mottled, weakly foliated.</p> <p><u>Average Modes</u></p> <p>Amphibole 40 - 45%</p> <p>Plagioclase)- 25 - 30%</p> <p>Quartz</p> <p>Chlorite 20 - 25%</p> <p>Minor <u>tourmaline</u> bands, chert bands and quartz stringers, few widely spaced fractures.</p> <p>- 71.8 to 72.8 - banded, cherty, quartz-carbonate horizon.</p>	18215		71.8	72.8	1.0			tr.
72.8	79.2	<p><u>SILTSTONE</u> - typical, trace-1% pyrite as fracture fillings and stringers, quartz-carbonate infillings of irregular fractures.</p> <p>- 74.2 to 79.2 - 1-3% disseminated garnet.</p> <p>Foliation at 55° to core axis at 73.5.</p>	18216 18217		72.8 74.2	74.2 79.2	1.4 5.0			tr. tr.
79.2	111.0	<p><u>WACKE</u> - black to dark green to white, fine grained, streaked laminations, and irregular bands, well foliated.</p>	18218		79.2	82.0	2.8			tr.

SAMPLING - TORONTO - 1968-1969

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-24 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE				GT/TON	GT/TON
				FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Chlorite 30 - 35% Amphibole 25 - 30% Quartz)- 20 - 25% Feldspar)- Sericite 5 - 10% Carbonate 1 - 3% Graphite trace - 0.5% Pyrite trace - 0.5%</p> <p>Irregular distribution of minerals, crude grading in some sections, gradational contact with lower unit, few widely spaced pyritic-graphitic fractures, minor pygmatic quartz stringers, foliation at 50° to core axis at 98.0.</p> <p>- 96.0 to 97.1 - banded cherty quartz vein, minor albitization of contacts, 1-2% wispy <u>tourmaline</u> stringers.</p>								
			18219	96.0	97.1	1.1				tr.
			18220	107.0	111.0	4.0				tr.
111.0	125.8	<p><u>MAFIC TUFF</u> - black to dark green, fine grained, laminated to crudely banded.</p> <p><u>Average Modes</u></p> <p>Amphibole 35 - 40% Quartz 20 - 25% Plagioclase)- Chlorite 25 - 30% Garnets trace - 5% Carbonate 1 - 2% Pyrite trace - 1% Magnetite trace</p> <p>Minor garnetiferous horizons, chert bands and quartz veining, trace magnetite in garnetiferous horizons.</p> <p>- 111.7 to 112.3 - chloritic quartz vein.</p> <p>- 112.3 to 114.4 - garnet-magnetite horizon with 0.5-1% <u>tourmaline</u> and <u>pyrite</u>.</p>								
			18221	111.0	114.4	3.4				tr.
			18222	122.0	125.8	3.8				tr.

LAMPLOGS - TORONTO - 365-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-24 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	TUN	GT TON
					FROM	TO			
125.8	131.3	<p>WACKE - grey to black, fine to medium grained, massive, weakly foliated.</p> <p><u>Average Modes</u></p> <p>Quartz 40 - 45% Chlorite 25 - 30% Sericite 15 - 20% Graphite 0.5 - 1% Amphibole 3 - 5% Carbonate 1 - 3%</p> <p>Few widely spaced chloritic and graphitic fractures, medium grained chlorite blebs in fine grained groundmass.</p> <p>- 125.8 to 126.1 - fine grained zone with quartz stringers, 1-2% pyrite and pyrrhotite, weakly magnetic.</p> <p>- 129.0 to 131.3 - as above, fractured with quartz-carbonate infillings, 1-3% pyrrhotite, 0.5-1% pyrite blebs in quartz stringers.</p> <p>Foliated at 49° to core axis at 126.0.</p>							
			18223		125.8	127.0	1.2		tr.
			18224		127.0	129.0	2.0		tr.
			18225		129.0	131.3	2.3		tr.
131.3	265.0	<p>MAFIC TO INTERMEDIATE TUFF AND FLOWS - 50:50, dark green to greyish-green, fine to coarse grained, massive to crudely-well banded to laminated, foliated.</p> <p><u>Average Modes</u></p> <p>Amphibole 40 - 45% Quartz 35 - 40% Plagioclase 5 - 10% Chlorite 3 - 5% Garnet 1 - 2% Biotite 0.5 - 1%</p>							

JANUARY - TORONTO - 366-1168



DIAMOND DRILL RECORD

NAME OF PROPERTY... KASAGMINNIS LAKE

HOLE NO... KAS-87-24 SHEET NO... 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO	SULPHIDES	FOOTAGE			G	S	Fe	Cu		
					FROM	TO	TOTAL						
		Up to 10% garnet as fine to coarse grained, idiomorphic to allotropic morphic garnet porphyroblasts in chlorite-amphibole bands, common quartz veining, pyrite as fracture fillings and disseminated in garnet horizons, foliation averages 53.5° to core axis.											
		- 131.3 to 179.9 - flows and tuffs, 50:50.	18226		131.3	134.0	2.7					tr.	
		- 143.0 to 143.6 - breccia zone with quartz-carbonate infilling.	18227		143.0	147.0	4.0					tr.	
		- 176.9 to 179.9 - 1-3% pyrite as bands and fracture fillings.	18228		176.9	179.9	3.0					tr.	
		- 179.9 to 252.9 - massive flows, minor tuff.											
		- 192.0 to 208.5 - highly fractured, numerous quartz-carbonate stringers.	18229		192.0	197.0	5.0					tr.	
			18230		197.0	202.0	5.0					tr.	
			18231		202.0	207.0	5.0					tr.	
			18232		207.0	208.5	1.5					tr.	
			18233		217.0	240.0	3.0					tr.	
		- 240.0 to 242.0 - crosscutting quartz-carbonate stringers with 2-3% disseminated pyrite blebs.	18234		240.0	242.0	2.0					tr.	
			18235		242.0	247.0	5.0					tr.	
		- 247.0 to 252.9 - flows with minor quartz veining, 0.5-1% disseminated pyrrhotite.	18236		247.0	251.0	4.0					tr.	
			18237		251.0	252.9	1.9					tr.	
		- 252.9 to 265.0 - tuff with abundant cherty horizons, 1-3% pyrrhotite, pyrite, 1-5% garnets, 1-3% disseminated magnetite, foliated at 57° to core axis at 247.0, 60° at 264.5.	18238		252.9	257.0	4.1					tr.	
			18239		257.0	262.0	5.0					tr.	
			18240		262.0	265.0	3.0					tr.	
265.0		End of Hole.											

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-25 LENGTH 281'
 LOCATION L22+03W 13+58N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -46°
 STARTED February 22, 1987 FINISHED February 23, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. KAS-87-25 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	15.5	<u>CASING</u>									
15.5	46.7	<u>INTERMEDIATE FLOWS AND TUFF (QUARTZ CRYSTAL TUFF)</u>									
46.7	58.5	<u>FELSIC TO INTERMEDIATE TUFF</u>									
58.5	68.8	<u>FELSIC OR SILICIFIED INTERMEDIATE TUFF</u>									
68.8	176.2	<u>MAFIC FLOWS</u> - trace-3% magnetite, trace-0.5% pyrite, pyrrhotite.									
176.2	233.1	<u>SULPHIDE-OXIDE FACIES IRON FORMATION</u> - 3-5% pyrrhotite, 0.5-2% pyrite, trace chalcopyrite, 1-3% magnetite.									
233.1	240.8	<u>MAFIC FLOWS</u> - 1-2% magnetite, 1-2% pyrite, pyrrhotite.									
240.8	248.3	<u>SULPHIDE-OXIDE FACIES IRON FORMATION</u> - 3-5% pyrrhotite, 0.5-2% pyrite, trace-0.5% chalcopyrite, 1-3% magnetite.									
248.3	271.9	<u>MAFIC FLOWS</u> - 0.5-1% magnetite, 1-2% pyrite, pyrrhotite.									
271.9	274.2	<u>CHERTY, SULPHIDE-OXIDE FACIES IRON FORMATION</u> - 0.5-2% pyrite, pyrrhotite.									
274.2	281.0	<u>MAFIC FLOWS</u> - 0.5-1% pyrite, pyrrhotite.									
281.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-25 LENGTH 281'
 LOCATION L22+03W 13+58N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -46°
 STARTED February 22, 1987 FINISHED February 23, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO KAS-87-25 SHEET NO. 1 of 5

REMARKS _____

PA - 786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SI. PH. IDS	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	15.5	<u>CASING</u>							
15.5	46.7	<u>INTERMEDIATE FLOWS AND TUFF</u> - Flows: dark grey, fine grained, massive, weakly foliated; Tuffs: laminated. <u>Average Modes</u> Amphibole 35 - 40% Quartz 35 - 40% Plagioclase)- 10 - 15% Chlorite 0.5 - 1% Carbonate trace - 2% Pyrite trace - 2% Pyrrhotite trace - 1% Chalcopyrite trace - 0.5% Epidote trace - 0.5% Highly fractured horizons with quartz-epidote-carbonate infilling, minor chert and epidote bands, abundant quartz and quartz-tourmaline veins in some horizons, sulphides disseminated throughout, foliation averages 57.5° to core axis. - 15.5 to 19.2 - fractured flows, trace-1% pyrite, quartz-carbonate infillings. - 19.2 to 20.3 - quartz crystal tuff. - 20.3 to 21.7 - fractured flows, as above. - 21.7 to 23.0 - quartz crystal tuff.							
			18241		15.5	19.2	3.7		tr.
			18242		19.2	20.3	1.1		tr.
			18243		20.3	21.7	1.4		tr.
			18244		21.7	23.0	1.3		tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ KASAGIMINNIS LAKE
 HOLE NO. KAS-87-25 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
46.7	58.5	- 23.0 to 46.7 - flows with abundant quartz-tourmaline veins with 1-2% pyrite, 0.5-2% intermixed <u>chalconyrite</u> and pyrrhotite, sulphides occur as disseminated blebs and bands. <u>FELSIC TO INTERMEDIATE TUFF</u> - grey to brown to green, fine to medium grained, poorly laminated. <u>Average Modes</u> Amphibole 20 - 25% Quartz 35 - 40% Plagioclase 30 - 35% Chlorite Varies from ash to lapilli tuffs, few widely spaced fractures, foliated at 57° to the core axis at 48.0. - 54.5 to 57.5 - <u>tourmaline</u> banding and quartz-tourmaline stringers, trace-0.5% pyrite as fracture fillings.	18245		23.0	27.0	4.0			tr.
			18246		27.0	32.0	5.0			tr.
			18247		32.0	37.0	5.0			tr.
			18248		37.0	42.0	5.0			tr.
			18249		42.0	46.7	4.7			tr.
			18250		46.7	47.7	1.0			tr.
58.5	68.8	<u>FELSIC OR SILICIFIED INTERMEDIATE TUFF</u> - dark grey, fine grained, laminated to massive. <u>Average Modes</u> Quartz 60 - 65% Sericite 25 - 30% Chlorite 3 - 5% Amphibole 1 - 2% Pyrite trace - 1% Carbonate trace - 0.5% Gradational upper contact, sharp lower contact, minor quartz-tourmaline stringers and pyrite as stringers and fracture coatings, foliation at 62° to the core axis at 67.0.	18251		54.5	58.5	4.0			tr.
			18252		58.5	63.5	5.0			tr.
			18253		63.5	67.0	3.5			tr.
			18254		67.0	68.8	1.8			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-25 SHEET NO 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	G/TON	G/TON
					FROM	TO			
68.8	176.2	<p>MAFIC FLOWS - dark green to grey, fine to coarse grained, poorly foliated, massive to poorly banded to mottled.</p> <p><u>Average Modes</u></p> <p>Amphibole 45 - 50% Quartz 40 - 45% Plagioclase)- Magnetite trace - 3% Garnet trace - 2% Pyrrhotite)- trace - 0.5% Pyrite</p> <p>Common quartz stringers with trace-0.5% disseminated <u>tourmaline</u>. Few widely spaced chloritic fractures. Remnant ophitic texture to some sections, disseminated albite wisps in massive coarse grained sections with spotty disseminated magnetite grains, blebs and wispy bands, pyrrhotite and pyrite as fracture coatings and disseminated blebs, garnets in mottled cherty horizons.</p>							
		- 68.8 to 128.9 - massive to banded, medium to coarse grained flows	18255		68.8	72.0	3.2		tr.
		- 115.0 to 116.0 - narrow quartz- <u>tourmaline</u> stringers.	18256		115.0	117.0	2.0		tr.
		- 128.9 to 154.0 - mottled, fine to medium grained, massive flows with abundant garnet-chert horizons, 1-2% disseminated pyrrhotite, 2-3% magnetite as wispy bands.	18257 18258		128.9 150.0	132.0 154.0	3.1 4.0		tr. tr.
		- 154.0 to 176.2 - fine grained, massive flows with minor mottled horizons, fine grained disseminated garnets (1-3%) throughout, trace yellow-brown grunerite, 0.5-1% disseminated pyrite.							
		- 154.0 to 155.0 - banded, cherty interflow sediments.	18259 18260 18261		154.0 157.0 160.0	157.0 160.0 162.0	3.0 3.0 2.0		tr. tr. tr.

ANGROGES - TORONTO - 365-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-25 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	GT TON	GT TON	
					FROM	TO					TOTAL
		- 162.0 to 163.0 - clean, chloritic quartz vein.	18262		162.0	163.0	1.0			tr.	
			18263		163.0	167.0	4.0			tr.	
			18264		167.0	172.0	5.0			tr.	
			18265		172.0	176.2	4.2			tr.	
		Foliation averages 56.0° to core axis.									
176.2	233.1	<u>SULPHIDE-OXIDE FACIES IRON FORMATION</u> - dark grey-white-green, fine grained, massive to mottled to laminated.	18266		176.2	178.0	1.8			tr.	
			18267		178.0	182.0	4.0			tr.	
			18268		182.0	187.0	5.0			tr.	
			18269		187.0	192.0	5.0			tr.	
		<u>Average Modes</u>	18270		192.0	197.0	5.0			tr.	
		Quartz-Chert 60 - 65%	18271		197.0	202.0	5.0			tr.	
		Amphibole 15 - 20%	18272		202.0	207.0	5.0			tr.	
		Chlorite 3 - 5%	18273		207.0	212.0	5.0			tr.	
		Pyrrhotite 3 - 5%	18274		212.0	217.0	5.0			tr.	
		Pyrite 0.5 - 2%	18275		217.0	222.0	5.0			tr.	
		Magnetite 1 - 3%	18276		222.0	227.0	5.0			tr.	
		Carbonate 1 - 2%	18277		227.0	232.0	5.0			tr.	
		Chalcopyrite trace	18278		232.0	233.1	1.1			tr.	
		Minor tuffaceous (mafic tuff) horizons, abundant quartz and quartz-tourmaline veins and stringers in some horizons, pyrite and pyrrhotite as disseminated grains, blebs and stringers throughout, magnetite as disseminated grains, foliated at 48° to the core axis at 220.0.									
233.1	240.8	<u>MAFIC FLOWS</u> - 1-2% disseminated magnetite, 1-2% very fine grained pyrrhotite and pyrite, foliated at 55° to core axis at 236.0.	18279		233.1	237.0	3.9			tr.	
			18280		237.0	240.8	3.8			tr.	
240.8	248.3	<u>SULPHIDE-OXIDE FACIES IRON FORMATION</u> - typical, cherty, trace-0.5% disseminated chalcopyrite, foliated at 60° to core axis at 247.0.									
		- 240.8 to 242.5 - chert bands, 3-5% pyrite, pyrrhotite in amphibole-chlorite bands.	18281		240.8	242.5	1.7			tr.	
			18282		242.5	247.0	4.5			tr.	
			18283		247.0	248.3	1.3			tr.	
248.3	271.9	<u>MAFIC FLOWS</u> - numerous chert bands, 1-2% pyrite, pyrrhotite, 0.5-1% magnetite as disseminated grains, pyrite as fracture fillings, pyrrhotite as disseminated blebs, foliated at 64° to core axis at 257.0.	18284		248.3	252.0	3.7			tr.	
			18285		252.0	257.0	5.0			tr.	
			18286		257.0	262.0	5.0			tr.	
			18287		262.0	267.0	5.0			tr.	
			18288		267.0	271.9	4.9			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ KASAGIMINNIS LAKE
 HOLE NO. KAS-87-2^s SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			%	G/TONE	G/TONE
					FROM	TO	TOTAL			
271.9	274.2	CHERTY, SULPHIDE-OXIDE FACIES IRON FORMATION - 0.5-2% disseminated pyrite and pyrrhotite, 3-5% sericite-chlorite, minor albitization, 85-90% chert.	18289		271.9	274.2	2.3			tr.
274.2	281.0	MAFIC FLOWS - typical, fine grained, massive, weak foliation, 0.5-12% pyrite and pyrrhotite, trace-0.5% pyrite as fracture fillings, few widely spaced chert bands and fractures, foliated at 54° to core axis at 279.0.	18290 18291		274.2 277.0	277.0 281/0	2.8 4.0			tr. tr.
281.0		End of Hole.								



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-26 LENGTH 297'
 LOCATION L18+02W 13+54N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 24, 1987 FINISHED February 25, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
200'	42.4				
297'	40.4				

HOLE NO. KAS-87-26 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786809

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SPL / FT	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	10.0	<u>CASING</u>								
10.0	104.0	<u>INTERBEDDED FELSIC TO INTERMEDIATE AND INTERMEDIATE TUFFS</u>								
104.0	108.7	<u>CHERT</u>								
108.7	131.8	<u>MAFIC FLOWS</u>								
131.8	135.6	<u>MAFIC TUFF</u> - 1-2% magnetite, 0.5-1% pyrrhotite.								
135.6	167.9	<u>OXIDE FACIES IRON FORMATION</u> - 1-3% magnetite, 1-2% pyrrhotite, 1-2% pyrite.								
167.9	170.8	<u>MAFIC TUFF</u> - 1-2% magnetite, 0.5-1% pyrrhotite.								
170.8	297.0	<u>MAFIC FLOWS</u> - trace-3% magnetite with chert-amphibole horizons with 3-5% magnetite. - 170.8 to 257.7 - magnetic flows and magnetite-rich horizons. - 257.7 to 286.2 - weakly magnetic flows. - 286.2 to 297.0 - laminated, non-magnetic flows.								
297.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-26 LENGTH 297'
 LOCATION L18+02W 13+54N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 24, 1987 FINISHED February 25, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. KAS-87-26 SHEET NO. 1 of 6

REMARKS _____

PA - 786809

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO				
0	10.0	<u>CASING</u>							
10.0	104.0	<p><u>INTERBEDDED FELSIC TO INTERMEDIATE AND INTERMEDIATE TUFFS -</u> Felsic-Intermediate: grey to dark grey, fine grained, well laminated to poorly banded.</p> <p><u>Average Modes</u></p> <p>Quartz)- 55 - 60% Feldspar)- Sericite)- 20 - 25% Chlorite)- Amphibole 5 - 10% Tourmaline 1 - 2% Carbonate trace - 1% Pyrite trace - 2%</p> <p>Intermediate: green to dark green, fine to medium grained, massive to poorly banded.</p> <p><u>Average Modes</u></p> <p>Amphibole 35 - 40% Quartz)- Plagioclase)- 35 - 40% Chlorite 15 - 20% Carbonate trace - 1%</p> <p>Intermediate and felsic to intermediate tuffs generally segregated with sharp contacts, foliation averages 57.0° to core axis.</p>							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-26 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	G/TON	G/TON	
					FROM	TO	TOTAL					
		- 10.0 to 19.8 - felsic to intermediate, ash and quartz crystal tuffs 90:10, highly fractured, quartz-carbonate infillings, trace-0.5% disseminated pyrite, minor quartz-tourmaline stringers.	18292	tr-0.5	10.0	15.0	5.0				tr.	
			18293	tr-0.5	15.0	19.8	4.8				tr.	
		- 19.8 to 23.1 - interbedded tuffs, moderate fracturing, quartz-carbonate infillings, minor quartz-tourmaline stringers, trace-0.5% pyrite.	18294	tr-0.5	19.8	23.1	4.3				tr.	
		- 23.1 to 24.1 - felsic lapilli tuff, fine grained, well formed, stretched lapilli.	18295		23.1	24.1	1.0				tr.	
		- 24.1 to 42.6 - felsic-intermediate, crudely banded, numerous quartz and quartz-tourmaline stringers, 0.5-1% disseminated pyrite throughout as bands, disseminated grains and fracture fillings, minor fractured horizons with quartz-carbonate infillings, minor brecciation and quartz crystal tuff.	18296		24.1	27.0	2.9				tr.	
			18297		27.0	32.0	5.0				tr.	
			18298		32.0	37.0	5.0				tr.	
			18299		37.0	40.0	3.0				tr.	
			18300		40.0	42.6	2.6				tr.	
		- 42.6 to 43.7 - intermediate tuff, massive, reworked.	8001		42.6	43.7	1.1				.01	
		- 43.7 to 46.4 - felsic-intermediate tuff, minor quartz veining, trace pyrite as fracture fillings and disseminated grains.	8002		43.7	46.4	2.7				tr.	
		- 46.4 to 47.7 - intermediate tuff, laminated, minor quartz veining, trace pyrite as fracture fillings.	8003		46.4	47.7	1.3				tr.	
		- 47.7 to 90.4 - felsic-intermediate tuff, minor quartz and quartz-tourmaline stringers, trace-0.5% pyrite as fracture coatings and bands.	8004		47.7	52.0	4.3				tr.	
		- 78.0 to 80.9 - potassic alteration, minor quartz-tourmaline stringers.	8005		78.0	80.9	2.9				tr.	
		- 89.1 to 90.4 - quartz-tourmaline veining.	8006		89.1	90.4	1.3				tr.	
		- 90.4 to 104.0 - felsic tuff, crudely banded, sericitized.	8007		90.4	92.0	1.6				tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-26 SHEET NO 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE		OF TON	OF TON	
				FROM	TO	TOTAL			
104.0	108.7	- 100.0 to 102.6 - felsic quartz crystal tuff.	8008		100.0	102.6	2.6		tr.
			8009		102.6	104.0	1.4		tr.
		<u>CHERT</u> - light grey to white, fine grained, banded.	8010		104.0	108.7	4.7		tr.
		<u>Average Modes</u>							
		Chert 80 - 85%							
		Chlorite 5 - 10%							
		Amphibole 3 - 5%							
		Wispy chlorite bands with disseminated amphibole in massive chert, foliated at 65° to core axis at 107.0.							
108.7	131.8	<u>MAFIC FLOWS</u> - dark green, fine to coarse grained, massive to mottled, weakly foliated.	8011	tr-0.5	108.7	112.0	3.3		tr.
		<u>Average Modes</u>							
		Amphibole 50 - 55%							
		Quartz 30 - 35%							
		Plagioclase)-							
		Chlorite 5 - 10%							
		Pyrite trace - 0.5%							
		Massive sections with abundant albite wisps, minor chert bands, quartz veining and fracturing, pyrite as fracture fill and disseminated grains, foliated at 61° to core axis at 112.0.							
131.8	135.6	- 117.3 to 118.2 - chloritic quartz veins, trace-1% pyrite.	8012	tr-1	117.3	122.0	4.7		tr.
			8013	tr-0.5	122.0	123.5	1.5		tr.
		- 123.5 to 131.8 - fractures subparallel to core axis, 0.5-1% pyrite as disseminated grains and fracture fill.	8014	0.5-1	123.5	127.0	3.5		tr.
			8015	0.5-1	127.0	131.8	4.8		tr.
		<u>MAFIC TUFF</u> - dark to light green, fine grained, heavily mottled - wispy bands.	8016	0.5-1	131.8	135.6	3.8		tr.

LANGRANGES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-26 SHEET NO 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		ID	SULPHIDES	FOOTAGE				OF TON	OF TON
				FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Amphibole 50 - 55%</p> <p>Quartz 35 - 40%</p> <p>Plagioclase)-</p> <p>Chlorite 3 - 5%</p> <p>Magnetite 1 - 2%</p> <p>Pyrrhotite 0.5 - 1%</p> <p>Magnetic, disseminated fine grained magnetite and pyrrhotite, cherty bands and horizons, foliated at 60° to core axis at 135.0.</p>								
135.6	167.9	<p><u>OXIDE FACIES IRON FORMATION</u> - dark grey to dark green, fine to medium grained, massive to poorly laminated, foliation averages 66° to core axis.</p> <p><u>Average Modes</u></p> <p>Quartz-Chert 45 - 50%</p> <p>Amphibole 25 - 30%</p> <p>Chlorite 3 - 5%</p> <p>Garnet trace - 5%</p> <p>Magnetite 1 - 3%</p> <p>Carbonate trace - 3%</p> <p>Pyrrhotite 1 - 2%</p> <p>Pyrite 1 - 2%</p> <p>Disseminated fine to medium grained garnet in some horizons, minor carbonate bands, massive pyrite stringers, disseminated pyrite and pyrrhotite, spotty magnetite.</p>								
		- 135.6 to 137.7 - 35-40% amphibole with disseminated pyrite and/or pyrrhotite.	8017	135.6	137.7	2.1			tr.	
		- 137.7 to 149.4 - fine grained, dark grey, trace-5% garnet, fine grained disseminated magnetite and pyrrhotite, very cherty.	8018	137.7	142.0	4.3			tr.	
			8019	142.0	147.0	5.0			tr.	
			8020	147.0	149.4	2.4			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-26 SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE				% Fe	% Cu	
				FROM	TO	TOTAL					
		- 149.4 to 157.4 - massive to mottled, weakly magnetic, 1-2% spotty magnetite, trace-0.5% pyrite, trace-1% disseminated fine grained garnets.	8021	tr-1	149.4	152.0	2.6			tr.	
			8022	tr-1	152.0	155.0	3.0			tr.	
			8023	tr-1	155.0	157.4	2.4			tr.	
		- 157.4 to 167.9 - tuffaceous, weakly banded, 2-3% fine grained garnets, 1-2% magnetite.	8024	-	157.4	162.0	4.6			tr.	
			8025	-	162.0	165.0	3.0			tr.	
			8026	-	165.0	167.9	2.9			tr.	
167.9	170.8	<u>MAFIC TUFF</u> - typical, foliation at 66° to core axis at 168.0.	8027		167.9	170.8	2.9			tr.	
170.8	297.0	<u>MAFIC FLOWS</u> - fine to medium grained, trace-3% spotty magnetite, trace-1% pyrrhotite and pyrite, 3-5% magnetite in several chert-amphibole horizons with magnetite as wispy stringers mantled with albite, minor quartz and quartz-tourmaline stringers, foliation averages 62.2° to core axis.									
		- 170.8 to 257.7 - magnetic flows.									
		- 182.8 to 186.1 - magnetite-rich horizon, common quartz stringers.	8028		170.8	172.0	1.2			tr.	
			8029		182.8	186.1	3.3			tr.	
		- 186.1 to 202.0 - minor quartz-epidote banding and pyritic fractures.									
		- 202.0 to 203.2 - magnetite-rich horizon, quartz-tourmaline stringers and pyritic fractures.	8030	tr.	202.0	203.2	1.2			tr.	
		- 211.4 to 213.2 - magnetite-rich, as above.	8031	-	211.4	213.2	1.8			tr.	
		- 221.8 to 223.8 - magnetite-rich, as above, minor epidote mottling.	8032	-	221.8	223.8	2.0			tr.	
		- 238.5 to 239.6 - magnetite-rich, as above.	8033	-	238.5	239.6	1.1			tr.	
		- 244.7 to 245.5 - magnetite-rich, as above.	8034	-	244.7	247.0	2.3			tr.	
		- 257.7 to 286.2 - fine grained flows, trace-0.5% magnetite, minor biotite bands with disseminated <u>tourmaline</u> grains.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO KAS-87-26 SHEET NO 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	g/t ton	g/t ton		
					FROM	TO	TOTAL					
		- 273.9 to 275.4 - quartz veining, trace-0.5% disseminated <u>tourmaline</u> , trace-0.5% pyrrhotite blebs.	8035	tr-0.5	273.9	275.4	1.5			tr.		
		- 286.2 to 297.0 - laminated, fine grained, flows with increasing biotite- <u>tourmaline</u> banding, minor quartz stringers.	8036	-	286.2	288.0	1.8			tr.		
			8037	-	288.0	292.0	4.0			tr.		
			8038	-	292.0	297.0	5.0			tr.		
297.0		End of Hole.										



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-27 LENGTH 257'
 LOCATION L48+02W 15+55N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 13, 1987 FINISHED February 15, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
257'	-35.5°				

HOLE NO KAS-87-27 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 789797

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	11.0	<u>CASING</u>								
11.0	47.2	<u>INTERMEDIATE TUFF</u> - ash tuff and crystal tuff 55:45. - 26.5 to 27.1 - quartz-tourmaline vein.								
47.2	48.1	<u>MAFIC FLOW</u>								
48.1	89.1	<u>INTERMEDIATE TUFF</u> - quartz-crystal tuff.								
89.1	120.7	<u>INTERMEDIATE TUFF</u> - ash tuff and quartz crystal tuff 1:2.								
120.7	257.0	<u>MAFIC FLOWS</u>								
257.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMIN'S LAKE
 HOLE NO. KAS-87-27 LENGTH 257'
 LOCATION L48+02W 15+55N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 13, 1987 FINISHED February 15, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
257'	-35.5°				

HOLE NO. KAS-87-27 SHEET NO. 1 of 3

REMARKS _____

PA - 789797

LOGGED BY I. Jones

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	FOOTAGE		%	%	OZ/TON	OZ/TON	
				FROM	TO					TOTAL
0	11.0	<u>CASING</u>								
11.0	47.2	<u>INTERMEDIATE TUFF</u> - medium to light grey, fine to medium grained, poorly banded, well foliated at 60° to core axis; dominantly ash tuff to 31.5'; quartz-crystal tuff from 31.5 to 47.2. Trace disseminated pyrite, infrequent quartz stringers, limonite staining on fractures especially from 11.0 to 27.0. Quartz-crystal tuff has 10-20% 1-3 mm anhedral quartz phenocrysts. <u>Average Modes</u> Quartz)- 30 - 40% Feldspar)- 20 - 30% Biotite 20 - 30% Amphiboles 10 - 20% Chlorite 10 - 20% - 26.5 to 27.1 - irregular quartz-tourmaline vein at low angle to core axis, trace pyrite, trace carbonate.	5701	11.0	15.8	4.8			tr.	
47.2	48.1	<u>MAFIC FLOW</u> - medium green, fine grained, foliated 60° to core axis, trace disseminated pyrite. <u>Average Modes</u> Chlorite 30 - 40% Quartz)- 30 - 40% Feldspar)- 10 - 20% Biotite 10 - 20% Amphiboles 5 - 10%	5702 5703 5704 5705 5706	22.0 26.2 27.6 44.0 47.2	26.2 27.6 37.1 47.2 48.1	4.2 1.4 4.5 3.2 0.9			tr. tr. tr. tr. tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY

KASAGIMINNIS LAKE

HOLE NO. KAS-87-27

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS									
FROM	TO		NO.	SULPHIDES	FOOTAGE			G	S	Fe	Cu				
					FROM	TO	TOTAL								
48.1	89.1	<p><u>INTERMEDIATE TUFF</u> (Quartz-Crystal Tuff) - medium grey, fine to medium grained, well foliated 60° to 65° to core axis; quartz phenocrysts 1-3 mm 10 to 20% of section; trace erratically disseminated pyrite; infrequent fractures 30° to 40° to core axis.</p> <p>Average Modes</p> <p>Quartz)- 50 - 60%</p> <p>Feldspar)- 20 - 30%</p> <p>Biotite 20 - 30%</p> <p>Chlorite 5 - 10%</p> <p>Amphiboles 5 - 10%</p> <p>Pyrite trace</p> <p>- 59.0 to 61.9 - minor albitization on fractures cross-cutting and parallel to foliation.</p>	5707		48.1	51.0	2.9					tr.			
			5708		51.0	56.0	5.0						tr.		
			5709		56.0	58.9	2.9							tr.	
						5710		58.9	61.9	3.0					tr.
						5711		61.9	65.0	3.1					tr.
			5712		84.1	89.1	5.0					tr.			
89.1	120.7	<p><u>INTERMEDIATE TUFF</u> - medium grey, fine to medium grained, mixture of ash tuff and crystal tuff; foliated 60° to 70° to core axis; infrequent quartz stringers; trace pyrite.</p> <p>Average Modes</p> <p>Quartz)- 30 - 40%</p> <p>Feldspar)- 20 - 30%</p> <p>Biotite 20 - 30%</p> <p>Chlorite 20 - 30%</p> <p>Amphiboles 5 - 10%</p> <p>- 89.1 to 97.9 - Ash Tuff - fine grained, finely laminated, possibly waterlain.</p> <p>- 97.9 to 120.7 - Quartz-Crystal Tuff - quartz phenocrysts frequently stretched; chloritization and albitization halos around quartz veins common.</p>	5713		89.1	92.9	3.8					tr.			
			5714		92.9	95.0	2.1						tr.		
						5715		95.0	100.0	5.0				tr.	
						5716		116.0	120.7	4.7				tr.	
120.7	257.0	<p><u>MAFIC FLOWS</u> - dark green, fine to medium grained, poorly foliated at 70° to core axis; quartz carbonate stringers common; trace erratically disseminated pyrrhotite.</p>	5717		120.7	125.8	5.1					tr.			
			5718		132.0	137.0	5.0						tr.		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO KAS-87-27 SHEET NO 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPH IDES	FOOTAGE			%	%	%
					FROM	TO	TOTAL			
		<p><u>Average Modes</u></p> <p>Chlorite 40 - 50%</p> <p>Quartz 30 - 40%</p> <p>Feldspar 10 - 20%</p> <p>Amphiboles trace - 1%</p> <p> Biotite</p> <p>- 169.8 to 170.9 - quartz vein, trace pyrite.</p> <p>- 171.4 to 171.6 - quartz vein.</p> <p>- 180.6 to 180.8 - quartz vein.</p> <p>- 182.2 to 182.8 - quartz vein.</p> <p>- 189.6 to 190.0 - quartz vein.</p> <p>- 190.0 to 191.5 - minor brecciation by quartz-carbonate stringers.</p>								
			5719		165.0	169.4	4.4			.02
			5720		169.4	172.0	2.6			tr.
			5721		172.0	177.0	5.0			tr.
			5722		177.0	180.2	3.2			tr.
			5723		180.2	183.3	3.1			tr.
			5724		183.3	188.0	4.7			tr.
			5725		188.0	190.0	2.0			tr.
			5726		190.0	192.0	2.0			tr.
			5727		192.0	197.0	5.0			tr.
			5728		212.0	217.0	5.0			tr.
			5729		232.0	237.0	5.0			tr.
			5730		252.0	257.0	5.0			tr.
257.0		End of Hole.								



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-28 LENGTH 257'
 LOCATION L28W 13+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -44.5°
 STARTED February 15, 1987 FINISHED February 17, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-44.5°				
257'	-36.5°				

HOLE NO. KAS-87-28 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786807

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	18.2	CASING									
18.2	33.1	INTERMEDIATE TO FELSIC TUFF									
33.1	37.0	SHEARED INTERMEDIATE TUFF(?) - friable to very friable; very friable section recovery is limited to sand, well carbonatized.									
37.0	84.6	INTERMEDIATE TUFF - ash tuff and crvstal tuff 4:1.									
84.6	257.0	MAFIC FLOWS - trace-1% magnetite erratically disseminated. - 92.4 to 92.7 - tourmaline-quartz vein, 90% tourmaline, 0.5-1% disseminated pyrite. - 92.8 to 93.2 - 1/2 inch massive pyrite stringer, 1-2% disseminated pyrite in wall rock.									
257.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINN'S LAKE
 HOLE NO. KAS-87-28 LENGTH 257'
 LOCATION L28W 13+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -44.5°
 STARTED February 15, 1987 FINISHED February 17, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-44.5°				
257'	-36.5°				

HOLE NO KAS-87-28 SHEET NO. 1 of 3

REMARKS _____

PA - 786807

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	18.2	CASING									
18.2	33.1	INTERMEDIATE TO FELSIC TUFF - medium grey to green, very fine to medium grained; poorly to moderately foliated at 65° to core axis; mottled with 1-3 mm quartz porphyroblasts or phenocrysts, 3-5% of section; trace to 0.5% pyrite, disseminated and as aggregates of grains. Average Modes Quartz)- 30 - 40% Feldspar)- 30 - 40% Chlorite 30 - 40% Biotite 20 - 30% Pyrite trace - 0.5%	5731	0.5	18.2	23.1	4.9			tr.	
			5732	0.5	23.1	28.1	5.0			tr.	
			5733	0.5	28.1	33.1	5.0			tr.	
33.1	37.0	SHEARED INTERMEDIATE TUFF(?) - medium green-grey, fine to very fine grained, well foliated at 55° to core axis; friable to very friable blocky. Approximately half of section is very friable, recovery limited to sand. Approximately one foot lost core. Very friable section strongly carbonatized. Average Modes Quartz)- 40 - 50% Feldspar)- 40 - 50% Biotite 20 - 30% Chlorite 20 - 30% Carbonate 2 - 3%	5734	-	33.1	37.0	3.9			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-28 SHEET NO. 2 of 3

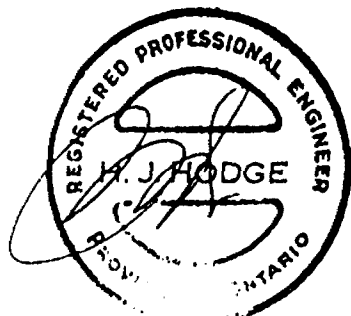
FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
37.0	84.6	<p><u>INTERMEDIATE TUFF</u> - light to medium grey with green hues; fine to medium grained; foliated 72° to core axis at 47', 65° at 67' and 58° at 82'. Mixed ash tuff and crystal tuff in ratio 4:1. Infrequent quartz stringers. Occasional fractures 30° to core axis infilled with quartz-carbonate. Very fine grained hornblende confined to crystal tuff sections.</p> <p><u>Average Modes</u></p> <p>Quartz)- 30 - 40% Feldspar)- 30 - 40% Biotite 30 - 40% Chlorite 20 - 30% Hornblende 1 - 2%</p>	5735	-	37.0	42.0	5.0			tr.
			5736	-	48.6	53.5	4.9			tr.
			5737	-	62.0	67.0	5.0			tr.
			5738	-	79.6	84.6	5.0			tr.
84.6	257.0	<p><u>MAFIC FLOWS</u> - dark green, fine to medium grained, moderately foliated 60° to core axis. Quartz-carbonate stringers common. Trace erratically disseminated pyrite. Trace to 1% magnetite erratically disseminated.</p> <p><u>Average Modes</u></p> <p>Chlorite 40 - 50% Feldspar 30 - 40% Amphiboles 10 - 20% Quartz 5 - 10%</p> <p>- 89.4 to 89.7 - quartz-carbonate vein, trace pyrite.</p> <p>- 92.4 to 92.7 - <u>tourmaline-quartz</u> vein, 90% <u>tourmaline</u>, 0.5-1% disseminated pyrite.</p> <p>- 92.8 to 93.2 - 1/2 inch massive pyrite stringer, 1-2% disseminated pyrite in surrounding rock.</p> <p>- 111.5 to 114.4 - carbonate filled fractures parallel to subparallel to core axis; 1/4 inch albitization halos on fractures.</p>	5739	-	84.6	89.0	4.4			tr.
			5740	tr.	89.0	92.0	3.0			tr.
			5741	1	92.0	94.0	2.0			tr.
			5742	-	94.0	99.0	5.0			tr.
			5743	-	106.6	111.5	4.9			tr.
			5744	-	111.5	114.5	3.0			tr.
			5745	-	114.5	119.5	5.0			tr.
			5746	-	130.0	135.0	5.0			tr.
			5747	-	146.0	150.4	4.4			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-28 SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	GZ TON
					FROM	TO	TOTAL				
		- 152.2 to 153.6 - 50% quartz-carbonate veins, trace-0.5% disseminated pyrite, trace pyrrhotite in blebs.	5748	0.5	150.4	154.9	4.5			tr.	
		- 153.6 to 154.3 - intermediate ash tuff, weakly carbonatized, mildly magnetic.	5749		154.9	160.0	5.1			tr.	
			5750		160.0	164.9	4.9			tr.	
		- 165.4 to 165.8 - quartz-carbonate vein.	5751		164.9	169.9	5.0			tr.	
			5752		187.0	192.0	5.0			tr.	
		- 205.9 to 206.2 - quartz-carbonate vein.	5753		202.0	207.0	5.0			tr.	
			5754		214.0	218.7	4.7			tr.	
		- 219.7 to 221.2 - strongly chloritized, minor quartz-carbonate veins.	5755		218.7	221.2	2.5			tr.	
			5756		221.2	226.0	4.8			tr.	
			5757		238.0	242.8	4.8			tr.	
		- 242.8 to 244.3 - 50% quartz-carbonate stringers, trace <u>chalcovrite</u> , minor hematite staining.	5758		242.8	244.4	1.6			tr.	
			5759		244.4	248.0	3.6			tr.	
			5760		248.0	252.0	4.0			tr.	
			5761		252.0	257.0	5.0			tr.	
257.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-29 LENGTH 467'
 LOCATION L121/ 20+53N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -44.5°
 STARTED February 18, 1987 FINISHED February 20, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-44.5°				
230'	-36.1°				
467'	-34.1°				

HOLE NO. KAS-87-29 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 789809

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	DEPTH IN FEET	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	69.0	<u>CASING</u>							
69.0	114.8	<u>MAFIC FLOWS</u>							
114.8	116.5	<u>MAFIC TUFF</u>							
116.5	167.3	<u>MAFIC FLOWS</u>							
167.3	191.3	<u>MAFIC TO INTERMEDIATE TUFF</u>							
191.3	211.0	<u>MAFIC FLOWS</u>							
211.0	213.6	<u>GREYWACKE(?)</u> - medium green-brown, fine to very fine grained, commonly well laminated, moderately banded.							
213.6	221.0	<u>MAFIC FLOWS</u>							
221.0	224.4	<u>MAFIC TUFF</u>							
224.4	273.4	<u>MAFIC FLOWS</u>							
273.4	280.8	<u>MAFIC TUFF</u>							
280.8	354.6	<u>MAFIC FLOWS</u>							
354.6	359.7	<u>DIORITE</u>							
359.7	361.8	<u>MAFIC TUFF</u>							
361.8	395.1	<u>MAFIC FLOWS</u>							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-29 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	GT TON	GT TON
					FROM	TO	TOTAL			
395.1	398.5	MAFIC TUFF								
398.5	411.3	MAFIC FLOWS								
411.3	414.1	MAFIC TUFF								
414.1	418.4	MAFIC FLOWS								
418.4	420.2	MAFIC TUFF								
420.2	441.6	MAFIC FLOWS								
441.6	467.0	GREYWACKE(?) - dark to light grey with faint purple hue, very fine grained, moderately banded, brecciation by quartz-carbonate stringers common.								
467.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-29 LENGTH 467'
 LOCATION L12H 20+53N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -44.5°
 STARTED February 18, 1987 FINISHED February 20, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-44.5°				
230'	-36.1°				
467'	-34.1°				

HOLE NO KAS-87-29 SHEET NO. 1 of 6

REMARKS _____

PA - 789809

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	69.0	CASING								
69.0	114.8	MAFIC FLOWS - dark green, fine to medium grained, poorly foliated 55° to 60° to core axis, occasional quartz-carbonate stringers and veins, trace disseminated pyrite. <u>Average Modes</u> Chlorite 40 - 50% Feldspar)- 30 - 40% Quartz Amphiboles 10 - 20% Biotite 2 - 3% - 76.3 to 76.6 - quartz-carbonate vein. - 79.5 to 80.2 - irregular quartz-carbonate vein, fractured, blocky. - 98.5 - .2 foot quartz vein, minor brecciation of wall rock. - 103.4 to 104.0 - .1 foot and .2 foot quartz veins.	5762	-	69.0	72.5	3.5			tr.
			5767	-	72.5	76.0	3.5			tr.
			5764	-	76.0	77.0	1.0			tr.
			5765	-	77.0	79.0	2.0			tr.
			5766	-	79.0	81.0	2.0			tr.
			5767	-	81.0	86.0	5.0			tr.
			5768	-	94.8	97.8	3.0			tr.
			5769	-	97.8	99.4	1.6			tr.
			5770	-	99.4	103.1	3.7			tr.
			5771	-	103.1	104.4	1.3			tr.
			5772	-	104.4	107.0	2.6			tr.
			5773	-	107.0	110.0	3.0			tr.
			5774	-	110.0	114.8	4.8			tr.
114.8	116.5	MAFIC TUFF - dark green-brown, fine grained, well foliated, moderately banded 55° to core axis. Chlorite-rich and biotite-rich bands. Some quartz veining. Weakly carbonatized 116.0 to 116.5, trace disseminated pyrite.	5775	-	114.8	116.5	1.7			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-29 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
		<p><u>Average Modes</u></p> <p>Chlorite 50 - 60%</p> <p>Quartz)- 20 - 30%</p> <p>Feldspar)-</p> <p>Biotite 10 - 20%</p> <p>Amphiboles 5 - 10%</p> <p>- 116.0 to 116.5 - brecciated by quartz-carbonate stringers.</p>								
116.5	167.3	<p><u>MAFIC FLOWS</u> - dark green-grey, medium grained, infrequent quartz-carbonate veins, mineralogy typical.</p> <p>- 130.8 - .1 foot quartz-epidote band.</p> <p>- 135.1 to 135.9 - 20% epidote, carbonatized.</p> <p>- 146.6 - .2 foot quartz-carbonate vein.</p> <p>- 149.7 and 150.8 - .2 foot quartz-carbonate veins with 20-30% epidote.</p> <p>- 158.0 to 167.3 - mildly magnetic, trace-1% magnetite.</p>	5776	-	116.5	121.5	5.0			tr.
			5777	-	128.2	130.3	2.1			tr.
			5778	-	130.3	131.4	1.1			tr.
			5779	-	131.4	134.9	3.5			tr.
			5780	-	134.9	136.1	1.2			tr.
			5781	-	136.1	141.0	4.9			tr.
			5782	-	141.0	145.2	4.2			tr.
			5783	-	145.2	146.2	1.0			tr.
			5784	-	146.2	149.4	3.2			tr.
			5785	-	149.4	151.4	2.0			tr.
			5786	-	151.4	156.0	4.6			tr.
			5787	-	156.0	159.5	3.5			tr.
			5788	-	159.5	163.0	3.5			tr.
			5789	-	163.0	167.3	3.5			tr.
167.3	191.3	<p><u>MAFIC TO INTERMEDIATE TUFF</u> - dark green-grey, fine to very fine grained, weakly banded, well foliated 65° to core axis at 168', 70° at 185'. Trace to 1% disseminated pyrite. Biotite-rich, chert-rich and chlorite-rich bands present: chlorite-rich bands predominate.</p> <p><u>Average Modes</u></p> <p>Chlorite 40 - 50%</p> <p>Feldspar)- 30 - 40%</p> <p>Quartz)-</p> <p>Biotite 10 - 15%</p>	5790	1	167.3	170.0	2.7			tr.
			5791	1	170.0	173.0	3.0			tr.
			5792	1	173.0	176.0	3.0			tr.
			5793	-	176.0	179.0	3.0			tr.
			5794	-	179.0	182.0	3.0			tr.
			5795	-	182.0	185.0	3.0			tr.
			5796	-	185.0	188.2	3.2			tr.
			5797	-	188.2	191.3	3.1			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY..... KASAGIMINNIS LAKE.....

HOLE NO. KAS-87-29 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	G/TON	G/TON
				FROM	TO	TOTAL			
		- 167.3 to 175.6 - 0.5-1% disseminated pyrite, mildly magnetic, trace-1% magnetite.							
		- 174.9 to 175.4; 180.0 to 180.7; 185.2 to 185.6 and 189.5 to 189.6 - mafic to intermediate ash tuff, dark grey, very fine grained, unfoliated, trace to 0.5% pyrite.							
191.3	211.0	<u>MAFIC FLOWS</u> - dark green, fine grained, typical.	5798	-	191.3	196.0	4.7		tr.
211.0	213.6	<u>METASEDIMENT - GREYWACKE(?)</u> - medium green-brown, fine to very fine grained, commonly well laminated; moderately banded; weakly magnetic in patches; well carbonatized; trace disseminated pyrite.	5799	-	206.0	211.0	5.0		tr.
		<u>Average Modes</u>	5800	-	211.0	213.6	2.6		tr.
		Chlorite 40 - 50%							
		Feldspar)- 30 - 40%							
		Quartz)-							
		Biotite 20 - 30%							
		Amphiboles 5 - 10%							
		Carbonate 3 - 5%							
		- 212.2 to 212.4 - quartz-carbonate vein.							
213.6	221.0	<u>MAFIC FLOW</u> - typical.	5801	-	213.6	217.0	3.4		tr.
		- 217.4 to 217.5 - quartz-carbonate vein, 3-5% tourmaline in a fine-grained clump.	5802	-	217.0	218.0	1.0		tr.
			5803	-	218.0	221.0	3.0		tr.
221.0	224.4	<u>MAFIC TUFF</u> - medium to dark green-brown, fine grained, well foliated, poorly banded at 65° to core axis; chlorite-rich and biotite-rich bands; quartz-carbonate stringers common; trace pyrite.	5804	-	221.0	224.4	3.4		tr.
		<u>Average Modes</u>							
		Chlorite 50 - 60%							
		Feldspar)- 30 - 40%							
		Quartz)-							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-29 SHEET NO 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS											
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	G/TON							
					FROM	TO	TOTAL										
224.4	273.4	Biotite 10 - 20%	5805	-	224.4	229.0	4.6			tr.							
		Amphiboles 5 - 10%									5806	-	229.0	233.3	4.3	tr.	
		<u>MAFIC FLOWS</u> - typical.									5807	-	233.3	235.5	2.2	tr.	
		- 234.0 to 234.9 - quartz vein at 10° to core axis, weakly carbonatized, .1 foot quartz-carbonate vein at 234.9. Chloritized halo 233.8 to 235.2.									5808	-	235.5	240.5	5.0	tr.	
		- 259.6 to 259.9 - quartz vein.									5809	-	254.1	259.2	5.1	tr.	
											5810	-	259.2	260.3	1.1	tr.	
											5811	-	260.3	265.0	4.7	tr.	
											5812	-	265.0	269.0	4.0	tr.	
											5813	-	269.0	273.4	4.4	tr.	
											5814	-	273.4	277.0	3.6	tr.	
											5815	-	277.0	280.8	3.8	tr.	
		273.4									280.8	<u>MAFIC TUFF</u> - dark green-brown, fine grained, well foliated, moderately well banded at 70° at 274', 65° at 280'; quartz-carbonate stringers common; moderately carbonatized in patches.					
<u>Average Modes</u>																	
Chlorite 30 - 40%																	
Biotite 20 - 30%																	
Feldspar)- 20 - 30%																	
Quartz																	
Amphiboles 5 - 10%																	
280.8	354.6		<u>MAFIC FLOWS</u> - typical, quartz-carbonate stringers common.	5816	-	280.8	285.5	4.7	tr.								
			- 296.0 to 296.5 - quartz-carbonate stringers associated with fracture at 40° to core axis. Wall rock around fracture well chloritized. Trace pyrite as blebs.	5817	-	285.5	290.5	5.0	tr.								
			- 327.0 to 327.4 - quartz vein.	5818	-	290.5	295.5	5.0	tr.								
				5819	-	295.5	297.0	1.5	tr.								
				5820	-	297.0	302.0	5.0	tr.								
				5821	-	302.0	307.0	5.0	tr.								
			5822	-	321.6	326.5	4.9	tr.									
			5823	-	326.5	328.1	1.6	tr.									
			5824	-	328.1	332.9	4.8	tr.									
			5825	-	349.7	354.6	4.9	tr.									
			5826	-	354.6	359.7	5.1	tr.									
		354.6	359.7	<u>DIORITE</u> - medium to dark grey, fine to medium grained, chill margins 1/4 to 1/2 inch wide; contacts concordant with wall rock foliations; trace disseminated pyrite.													

LANGRISHES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-29 SHEET NO. 5 of 6

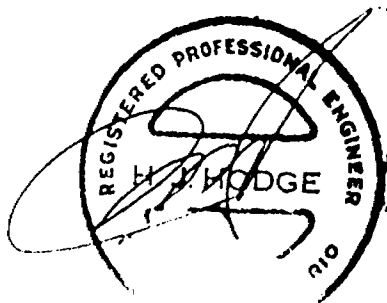
FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPH IDES	FOOTAGE			G/T	G/T	G/T
					FROM	TO	TOTAL			
		<u>Average Modes</u>								
		Feldspar)- 50 - 60%								
		Quartz 20 - 30%								
		Amphiboles 10 - 20%								
359.7	361.8	<u>MAFIC TUFF</u> - typical.	5827	-	359.7	361.8	2.1			tr.
361.8	395.1	<u>MAFIC FLOWS</u> - typical.	5828	-	361.8	367.0	5.2			tr.
			5829	-	367.0	371.0	4.0			tr.
			5830	-	371.0	375.4	4.4			tr.
		- 375.8 to 376.6 - three 1/2 - 1 inch quartz veins.	5831	-	375.4	377.0	1.6			tr.
			5832	-	377.0	381.0	4.0			tr.
		- 381.6 to 382.2 - .15 foot quartz vein, cross. core in arcuate fashion.	5833	-	381.0	383.0	2.0			tr.
			5834	-	383.0	387.0	4.0			tr.
		- 382.3 - .1 foot quartz vein.	5835	-	387.0	392.0	5.0			tr.
			5836	-	392.0	393.6	1.6			tr.
		- 393.0 - fracture 40° to core axis, 1/4 inch wide, quartz-carbonate infilling, 10-20% pyrite.	5837	-	393.6	395.1	1.5			tr.
395.1	398.5	<u>MAFIC TUFF</u> - typical, 0.5-1% disseminated pyrite.	5838	1	395.1	398.5	3.4			tr.
398.5	411.3	<u>MAFIC FLOW</u> - typical.	5839	-	398.5	403.5	5.0			tr.
			5840	-	403.5	406.5	3.0			tr.
			5841	-	406.5	411.3	4.8			tr.
411.3	414.1	<u>MAFIC TUFF</u> - typical.	5842	-	411.3	414.1	2.8			tr.
		- 412.9 to 413.5 - .2 foot quartz-carbonate vein followed by .4 foot quartz vein.								
414.1	418.4	<u>MAFIC FLOW</u> - typical	5843	-	414.1	418.4	4.3			tr.
418.4	420.2	<u>MAFIC TUFF</u> - typical, trace-0.5% pyrite.	5844	0.5	418.4	420.2	1.8			tr.
420.2	441.6	<u>MAFIC FLOWS</u> - weakly banded 63° to core axis; quartz-carbonate stringers common, possibly a tuff.	5845	-	420.2	425.0	4.8			tr.
			5846	-	437.0	441.6	4.6			tr.

LANGRISHES - TORONTO - 345-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-29 SHEET NO 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	QUANTITY	FOOTAGE			%	G/T	G/T
					FROM	TO	TOTAL			
441.6	467.0	<p>GREYWACKE(?) - dark to light grey with faint purple hue; very fine grained, moderately banded, foliated 60° to 80° to core axis; generally weakly to moderately carbonatized; brecciation by quartz-carbonate stringers common; trace erratically disseminated pyrite.</p> <p><u>Average Modes</u></p> <p>Feldspar)- 50 - 60% Quartz)- 20 - 30% Biotite)- 20 - 30% Chlorite)- 20 - 30%</p> <p>- 442.5 to 443.2 - intensely brecciated by quartz-carbonate stringers, minor albitization.</p> <p>- 446.6 to 455.8 - weakly to strongly brecciated, generally moderately carbonatized; albitization halos on fractures common; section dark grey with faint purple hue.</p> <p>- 455.8 to 456.6 - mesocratic, strongly carbonatized zone; sharp contact at 455.8, gradational at 456.6, appears brecciated. paleosol(??)</p> <p>- 460.4 to 467.0 - wisps of hematite staining on isolated fractures.</p>								
			5847	-	441.6	443.4	1.8			tr.
			5848	-	443.4	446.6	3.2			tr.
			5849	-	446.6	448.9	2.3			tr.
			5850	-	448.9	451.0	2.1			tr.
			5851	-	451.0	453.0	2.0			tr.
			5852	-	453.0	455.8	2.8			tr.
			5853	-	455.8	457.0	1.2			tr.
			5854	-	457.0	460.4	3.4			tr.
			5855	-	460.4	463.4	3.0			tr.
			5856	-	463.4	467.0	3.6			tr.
467.0		End of Hole.								



9511-98C - CANADIAN - SDC-87-29

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGMINNIS LAKE
 HOLE NO. KAS-87-30 LENGTH 257'
 LOCATION L4W 12+27N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 20, 1987 FINISHED February 22, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
257'	-44.1°				

HOLE NO. KAS-87-30 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 789827

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SPL. IN TUBES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	97.0	CASING/OVERBURDEN									
97.0	131.5	ELSIC TO INTERMEDIATE TUFF									
131.5	257.0	MAFIC FLOWS - weakly to moderately magnetic in patches.									
257.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-30 LENGTH 257'
 LOCATION L4W 12+27N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 20, 1987 FINISHED February 22, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
257'	-44.1°				

HOLE NO. KAS-87-30 SHEET NO. 1 of 2

REMARKS _____

PA - 789827

LOGGED BY L. Jones

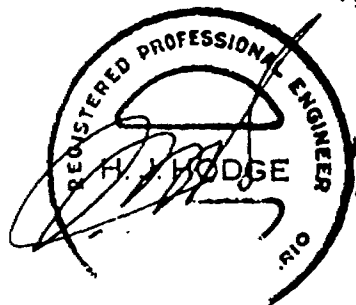
FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	97.0	<u>CASING/OVERBURDEN</u>									
97.0	131.5	<u>FELSIC TO INTERMEDIATE TUFF</u> - light to medium grey, fine to very fine grained, moderately foliated 65° to core axis, sericitized. <u>Average Modes</u> Feldspar)- 60 - 70% Quartz)- 10 - 20% Sericitite 5 - 10% Biotite 3 - 5% Chlorite - 5% - 127.3 to 131.5 - light grey, coarsely laminated.	5857		97.0	102.0	5.0			tr.	
			5858		102.0	107.0	5.0			tr.	
			5859		107.0	112.0	5.0			tr.	
			5860		112.0	117.0	5.0			tr.	
			5861		117.0	122.0	5.0			tr.	
			5862		122.0	127.0	5.0			tr.	
			5863		127.0	131.5	4.5			tr.	
131.5	257.0	<u>MAFIC FLOWS</u> - dark grey-green, medium grained, well foliated 60° to core axis. Weakly to moderately magnetic in patches. Quartz-carbonate stringers uncommon, trace pyrite, erratically disseminated. <u>Average Modes</u> Feldspar)- 50 - 60% Quartz)- 30 - 40% Chlorite 5 - 10% Amphiboles - 5% - 142.1 to 142.4 - 5-10% epidote, 30-40% albite, well carbonatized. - 142.6 to 143.6 - fractures subparallel to core axis, well carbonatized.	5864		131.5	136.5	5.0			tr.	
			5865		136.5	141.6	5.1			tr.	
			5866		141.6	143.8	2.2			tr.	
			5867		143.8	148.6	4.8			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO KAS-87-30 SHEET NO 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
		- 149.6 to 149.9 - quartz vein.								
		- 149.9 to 150.6 - 10% epidote, weakly carbonatized.	5868		148.6	153.6	5.0			tr.
		- 152.4 to 153.1 - well carbonatized, 10% albite, quartz-carbonate vein at 152.7.	5869		153.6	157.0	3.4			tr.
			5870		157.0	162.0	5.0			tr.
		- 162.0 to 166.5 - quartz-carbonate stringers common.	5871		162.0	166.5	4.5			tr.
			5872		166.5	171.0	4.5			tr.
		- 174.0 to 195.0 - 3-5% disseminated 1-2 mm garnets, pink anhedral, poikiloblastic, commonly stretched in plane of foliation.	5873		183.9	188.4	4.5			tr.
		- 188.8 - 2 foot quartz vein.	5874		188.4	189.4	1.0			tr.
			5875		189.4	193.8	4.4			tr.
		- 194.2 - 2 foot quartz-carbonate vein, minor brecciation of vein.	5876		193.8	195.2	1.4			tr.
			5877		195.2	200.0	4.8			tr.
		- 200.0 to 202.0 - fractures 30° to 50° to core axis.	5878		200.0	202.0	2.0			tr.
			5879		202.0	207.0	5.0			tr.
			5880		207.0	212.0	5.0			tr.
		- 212.0 to 217.0 - strongly fractured subparallel to parallel to core axis.	5881		212.0	217.0	5.0			tr.
			5882		217.0	219.9	2.9			tr.
		- 220.3 to 221.7 - quartz vein.	5883		219.9	221.2	1.3			tr.
			5884		221.2	225.9	4.7			tr.
			5885		237.0	242.0	5.0			tr.
			5886		252.0	257.0	5.0			tr.
257.0		End of Hole.								



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-31 LENGTH 357'
 LOCATION L12E 11+01N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -46°
 STARTED February 22, 1987 FINISHED February 23, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.0°				
207'	-39.0°				
357'	-38.1°				

HOLE NO. KAS-87-31 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 789835

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	SIZE PH IDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	81.0	<u>CASING</u>									
81.0	87.5	<u>MAFIC TUFF</u>									
87.5	96.6	<u>FELSIC TUFF</u>									
96.6	101.0	<u>MAFIC TUFF</u>									
101.0	132.8	<u>INTERMEDIATE TUFF</u>									
132.8	141.0	<u>MAFIC FLOW</u>									
141.0	151.5	<u>DIORITE</u>									
151.5	163.9	<u>MAFIC FLOW</u>									
163.9	171.8	<u>DIORITE</u>									
171.8	178.7	<u>MAFIC FLOW</u>									
178.7	190.4	<u>BANDED IRON FORMATION(?)</u> - medium grey, fine grained, moderately to poorly banded. Alternating chlorite-rich and chert-biotite-amphibole-rich bands. 3-5% magnetite.									
190.4	203.0	<u>GREYWACKE</u>									
203.0	211.5	<u>BANDED IRON FORMATION(?)</u> - as in 178.7 to 190.4.									
211.5	242.7	<u>MAFIC FLOWS</u>									
242.7	249.4	<u>GREYWACKE</u>									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO KAS-87-31 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
249.4	293.2	<u>MAFIC FLOWS</u>								
293.2	357.0	<u>INTERMEDIATE TUFF</u>								
357.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-31 LENGTH 357'
 LOCATION L12E 11+01N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -46°
 STARTED February 22, 1987 FINISHED February 23, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-46.0°				
207'	-39.0°				
357'	-38.1°				

HOLE NO. KAS-87-31 SHEET NO. 1 of 5

REMARKS _____

PA - 789835

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO	TOTAL				
0	81.0	<u>CASING</u>								
81.0	87.5	<u>MAFIC TUFF</u> - medium green, fine to very fine grained, well foliated, weakly banded 65° to core axis; quartz-carbonate stringers common; fractures 35° to core axis common. <u>Average Modes</u> Chlorite 40 - 50% Feldspar)- 40 - 50% Quartz)- Biotite 10 - 20%	5887	-	81.0	85.0	4.0			tr.
			5888	-	85.0	87.5	2.5			tr.
87.5	96.6	<u>FELSIC TUFF</u> - dark grey, very fine to fine grained, well laminated, weakly banded at 60° to core axis; brecciation common. <u>Average Modes</u> Quartz)- 70 - 80% Feldspar)- Biotite 10 - 20% Chlorite 5 - 10% - 87.5 to 87.8 - intensely brecciated, well carbonatized, trace-0.5% disseminated pyrite. - 90.7 to 92.0 - strongly brecciated, bleached halos on fractures common.	5889	0.5	87.5	88.6	1.1			tr.
			5890	-	88.6	90.5	1.9			tr.
			5891	-	90.5	92.2	1.7			tr.
			5892	-	92.2	96.6	4.4			tr.
96.6	101.0	<u>MAFIC TUFF</u> - as in 81.0 to 87.5.	5893	-	96.6	101.0	4.4			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY... KASAGIMINNIS LAKE
 HOLE NO. KAS-87-31 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FROM	TO	TOTAL	g/t	g/t	g/t
101.0	132.8	<p>INTERMEDIATE TUFF - medium grey, fine to very fine grained, finely laminated, weakly banded at 60° to core axis; sericitized, moderately carbonatized; quartz-carbonate stringers uncommon; fractures often have 1-2 mm bleached halos.</p> <p><u>Average Modes</u></p> <p>Feldspar)- 40 - 50% Quartz)- Biotite 20 - 30% Sericite 10 - 20% Chlorite 5 - 10%</p> <p>- 106.3 - two 1/4 inch quartz veins, boudinaged.</p> <p>- 111.1 to 111.6 - 2 inch movement on fracture subparallel to core axis.</p> <p>- 114.1 - 1/2 inch boudinaged quartz vein.</p> <p>- 122.3 - 122.6 - <u>tourmaline</u>-quartz-carbonate vein, 60-70% <u>tourmaline</u>, well carbonatized.</p> <p>- 125.7 to 126.3; 128.8 to 129.2 - Mafic Tuff, typical.</p> <p>- 130.5 to 130.7 - quartz-<u>tourmaline</u> vein. 5-10% <u>tourmaline</u> concentrated in upper 1/2 inch of vein.</p>	5894	-	101.0	106.0	5.0			tr.
			5895	-	106.0	107.0	1.0			tr.
			5896	-	107.0	110.6	3.6			tr.
			5897	-	110.6	111.8	1.2			tr.
			5898	-	111.8	116.7	4.9			tr.
			5899	-	115.7	121.7	5.0			tr.
			5900	-	121.7	123.3	1.6			tr.
			5901	-	123.3	127.0	3.7			tr.
			5902	-	127.0	130.0	3.0			tr.
			5903	-	130.0	131.0	1.0			0.32
			5904	-	131.0	132.8	1.8			0.02
132.8	141.0	<p>MAFIC FLOW - dark grey, fine to medium grained, moderately foliated 60° to core axis; moderately carbonatized within 3 feet of lower contact; trace disseminated pyrite within one foot of lower contact. Albitized, with albite present as fine wisps parallel to foliation.</p> <p><u>Average Modes</u></p> <p>Feldspar)- 40 - 50% Quartz)- Chlorite 30 - 40% Amphiboles 10 - 20% Biotite 5 - 10%</p>	5905	-	132.8	137.0	4.2			tr.
			5906	-	137.0	141.0	4.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY: KASAGIMINNIS LAKE

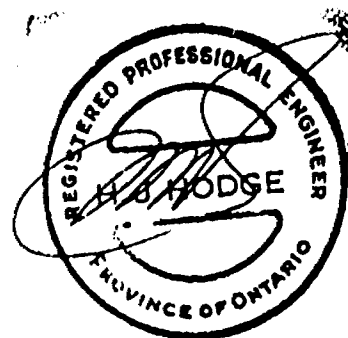
HOLE NO. KAS-87-31 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		G/TON	OZ/TON
					FROM	TO		
141.0	151.5	DIORITE - medium grey, fine to medium grained, contacts 30° to core axis; spotted with 1 mm biotite phenocrysts; pervasive moderate carbonatization; trace pyrite disseminated close to contacts. <u>Average Modes</u> Feldspar)- 50 - 60% Quartz)- 20 - 30% Chlorite 20 - 30% Amphiboles 5 - 10% Biotite 5 - 10% Carbonate 1 - 2%	5907	-	141.0	144.6	3.6	tr.
			5908	-	144.6	148.2	3.6	tr.
			5909	-	148.2	151.5	3.3	tr.
151.5	163.9	MAFIC FLOW - medium to dark green, medium to coarse grained, moderately foliated 60° to core axis. Foliation outlined by wisps of albite. Strongly carbonatized close to contacts, weakly elsewhere, trace disseminated pyrite. <u>Average Modes</u> Feldspar)- 40 - 50% Quartz)- 30 - 40% Chlorite 30 - 40% Amphiboles 5 - 10%	5910	-	151.5	154.3	2.8	tr.
			5911	-	154.3	157.0	2.7	tr.
			5912	-	157.0	160.6	3.6	tr.
			5913	-	160.6	163.9	3.3	tr.
163.9	171.8	DIORITE - as in 141.0 to 151.5.	5914	-	163.9	168.0	4.1	tr.
			5915	-	168.0	171.8	3.8	tr.
171.8	178.7	MAFIC FLOW - as in 151.5 to 163.9, weakly magnetic in patches.	5916	-	171.8	175.6	3.8	tr.
			5917	-	175.6	178.7	3.1	tr.
178.7	190.4	BANDED IRON FORMATION (?) - medium grey, fine grained, moderately to poorly banded 60° to core axis; weakly to moderately magnetic; disseminated anhedral garnets up to 2 mm common; generally alternating chlorite-rich bands and chert-biotite-amphibole bands. <u>Average Modes</u> Quartz)- 40 - 50% Feldspar)-	5918	-	178.7	182.9	4.2	tr.
			5919	-	182.9	186.5	3.6	tr.
			5920	-	186.5	190.4	3.9	tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-31 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE					GT TON	GT TON
				FROM	TO	TOTAL					
		Chlorite 30 - 40%									
		Garnets 5 - 10%									
		Biotite 5 - 8%									
		Amphiboles 5 - 8%									
		Magnetite 3 - 5%									
190.4	203.0	<u>GREYWACKE</u> - dark grey, fine grained, moderately foliated 65° to core axis; trace disseminated pyrite; occasional quartz-carbonate stringers; trace pyrrhotite disseminated in patches.	5921	-	190.4	195.3	4.9				tr.
			5922	-	195.3	199.9	4.6				tr.
			5923	-	199.9	203.0	3.1				tr.
203.0	211.5	<u>BANDED IRON FORMATION</u> (?) - as in 178.7 to 190.4.									
		- 203.0 to 204.2 - several 1/2 inch quartz veins. 5-10% garnets, coarse pyrrhotite bleb (1/4" x 1 1/2") at 203.3.	5924	-	203.0	204.4	1.4				tr.
			5925	-	204.4	208.0	3.6				tr.
			5926	-	208.0	211.5	3.5				tr.
211.5	242.7	<u>MAFIC FLOWS</u> - dark green-grey, fine to medium grained, weakly foliated 65° to 70° to core axis; trace disseminated pyrite; mineralogy typical.									
		- 211.5 to 214.2 - trace to 0.5% disseminated pyrrhotite.	5927	0.5	211.5	214.2	2.7				tr.
			5928	-	214.2	219.2	5.0				tr.
			5929	-	219.2	224.0	4.8				tr.
			5930	-	224.0	228.4	4.4				tr.
		- 228.8 to 228.9 - 2-3% disseminated pyrite, 5-10% disseminated pyrrhotite, 20-30% <u>tourmaline</u> in quartz-carbonate vein.	5931	0.5	228.4	229.4	1.0				tr.
			5932	-	229.4	234.0	4.6				tr.
			5933	-	234.0	238.4	4.4				tr.
			5934	-	238.4	242.7	4.3				tr.
242.7	249.4	<u>GREYWACKE</u> - typical, quartz-carbonate stringers and veins common.	5935	-	242.7	245.5	2.8				tr.
			5936	-	245.5	249.4	3.9				tr.
249.4	293.2	<u>MAFIC FLOWS</u> - typical.	5937	-	249.4	254.0	4.6				tr.
		- 258.6 to 259.6 - quartz-carbonate vein, 20-25% <u>tourmaline</u> , 3-5% disseminated pyrrhotite; finely disseminated in vein, coarse where associated with <u>tourmaline</u> .	5938	-	254.0	258.3	4.3				tr.
			5939	1	258.3	259.3	1.0				tr.
			5940	-	259.3	264.0	4.7				tr.



DIAMOND DRILL RECORD

NAME OF PROPERTY _____ KASAGIMINNIS LAKE _____

HOLE NO. KAS-87-31 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	G/TON		
					FROM	TO	TOTAL					
293.2	357.0	- 287.7 to 288.6 - brecciated by quartz-carbonate veins, section in 75% vein, 25% fragments.	5941		282.0	287.0	5.0			tr.		
			5942		287.0	289.0	2.0			tr.		
			5943		289.0	293.2	4.2			tr.		
				<u>INTERMEDIATE TUFF</u> - medium to dark grey, fine to very fine grained, sericitized; well laminated 65° to core axis. Ash Tuff 293.2 to 344.3, Crystal Tuff 344.3 to 357.0.	5944		293.2	297.0	3.8			tr.
					5945		297.0	301.5	4.5			tr.
				<u>Average Modea</u>								
				Quartz)- 40 - 50%								
				Feldspar)- 20 - 30%								
				Biotite 5 - 10%								
				Amphibole 5 - 10%								
				Chlorite 5 - 10%								
				- 301.9 - .1 foot quartz vein, bleached halo from 301.7 to 302.1.	5946	-	301.5	302.5	1.0			tr.
					5947	-	302.5	307.0	4.5			tr.
					5948	-	318.0	323.0	5.0			tr.
				- 323.0 to 330.0 - moderate bleaching around fractures 30° to 80° to core axis.	5949	-	323.0	326.5	3.5			tr.
					5950	-	326.5	330.0	3.5			tr.
				- 330.0 to 331.6 - strongly bleached, well carbonatized.	5951	-	330.0	331.6	1.6			tr.
				- 330.4 to 331.1 - well brecciated, epidotized; 10-15% epidote.								
		- 331.5 - 1/4 inch quartz-tourmaline vein.	5952	-	331.6	336.6	5.0			tr.		
			5953	-	336.6	339.6	3.0			tr.		
		- 340.1 - .1 foot quartz-epidote vein, moderately carbonatized.	5954	-	339.6	340.6	1.0			tr.		
			5955	-	340.6	342.8	2.2			tr.		
		- 342.8 to 344.3 - strongly bleached, moderately carbonatized.	5956	-	342.8	344.3	1.5			tr.		
			5957	-	344.3	349.0	4.7			tr.		
			5958	-	349.0	353.0	4.0			tr.		
			5959	-	353.0	357.0	4.0			tr.		
357.0		End of hole.										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-32 LENGTH 327'
 LOCATION L24E 10+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED February 24, 1987 FINISHED February 25, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-47.0				
200'	-42.0				
327'	-41.0				

HOLE NO. KAS-87-32 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786843

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPH IDES	FOOTAGE		%	S	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	26.0	<u>CASING</u>									
26.0	41.0	<u>MAFIC FLOW</u>									
41.0	127.8	<u>INTERMEDIATE TUFF</u> - 88.2 to 90.1 - diorite.									
127.8	199.0	<u>MAFIC FLOWS</u> - 137.8 to 160.0 - moderately magnetic, trace to 0.5% pyrrhotite, 0.5-1% disseminated magnetite.									
199.0	327.0	<u>INTERMEDIATE TUFF</u>									
327.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-32 LENGTH 327'
 LOCATION L24E 10+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED February 24, 1987 FINISHED February 25, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-47.0°				
200'	-42.0°				
327'	-41.0°				

HOLE NO. KAS-87-32 SHEET NO. 1 of 4

REMARKS _____

PA - 786843

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	26.0	<u>CASING</u>										
26.0	41.0	<u>MAFIC FLOW</u> - dark green, fine grained, moderately foliated 55° to core axis, quartz-carbonate stringers common, trace pyrite, trace pyrrhotite disseminated as blebs. <u>Average Modes</u> Chlorite 50 - 60% Feldspar)- 40 - 50% Quartz Amphiboles 5 - 10% Biotite 1 - 2%	5960	-	26.0	31.0	5.0				tr.	
			5961	-	31.0	36.0	5.0				tr.	
			5962	-	36.0	41.0	5.0				tr.	
41.0	127.8	<u>INTERMEDIATE TUFF</u> - medium grey, fine to very fine grained, some medium grained sections (crystal tuff), well foliated, moderately laminated 55° to core axis, sericitized, moderately carbonatized in patches, quartz-carbonate stringers common; trace pyrite erratically disseminated. <u>Average Modes</u> Feldspar)- 50 - 60% Quartz Biotite 20 - 30% Chlorite 10 - 20% Sericitite 5 - 10% - 41.0 to 67.0 - predominantly ash tuff. - 41.0 to 44.0 - bleached halos around fractures. - 41.0 to 41.5 - 3-5% disseminated pyrite.	5963	3	41.0	42.0	1.0				tr.	
			5964	-	42.0	44.0	2.0				tr.	
			5965	-	44.0	49.0	5.0				tr.	

ANGLOGES - TORONTO - 346-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO KAS-87-32 SHEET NO 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 67.0 to 127.7 - predominantly crystal tuff	5966	-	64.9	69.8	4.9				tr.
		- 70.4 - trace <u>molybdenite</u> on foliation planes.	5967	-	69.8	70.9	1.1				tr.
			5968	-	70.9	76.0	5.1				tr.
			5969	-	76.0	80.9	4.9				tr.
		- 81.0 to 81.6 - minor epidote alteration on two fractures 45° and 55° to core axis; fractures perpendicular to each other.	5970	-	80.9	83.0	2.1				tr.
			5971	-	83.0	88.2	5.2				tr.
		- 88.2 to 90.1 - <u>Diorite</u> - medium grey-green, fine to medium grained, contacts 55° and 65° to core axis (upper and lower contacts respectively); pervasive moderate carbonatization.	5972	-	88.2	90.1	1.9				tr.
			5973	-	90.1	95.1	5.0				tr.
			5974	-	107.0	112.0	5.0				tr.
			5975	-	122.8	127.8	5.0				tr.
		<u>Average Modes</u>									
		Feldspar)- 50 - 60%									
		Quartz									
		Chlorite 20 - 30%									
		Amphibole 10 - 20%									
127.8	199.0	<u>MAFIC FLOWS</u> - dark green, fine to very fine grained, massive to poorly foliated 65° to core axis; trace disseminated pyrite, pyrrhotite; quartz-carbonate stringers common.	5976	-	127.8	132.8	5.0				tr.
			5977	-	132.8	137.8	5.0				tr.
		<u>Average Modes</u>									
		Feldspar)- 40 - 50%									
		Quartz									
		Chlorite 30 - 40%									
		Amphiboles 5 - 10%									
		Biotite 2 - 3%									
		- 137.8 to 160.0 - very fine quartz-carbonate stringers abundant. Moderately magnetic, due to trace to 0.5% disseminated pyrrhotite, and 0.5-1% disseminated magnetite.	5978	-	137.8	142.0	4.2				tr.
			5979	-	142.0	147.0	5.0				tr.
			5980	-	147.0	152.0	5.0				tr.
			5981	-	152.0	154.0	2.0				tr.
		- 154.2 to 154.4 - chert band, trace to 0.5% disseminated pyrrhotite.	5982	-	154.0	156.1	2.1				tr.

LANGRISHES - CHRONO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-32 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		G	G/TON
					FROM	TO		
		- 155.2 to 155.6 - chert band; 2-3% magnetite, trace disseminated pyrrhotite.						
		- 155.6 to 155.7 - quartz vein, trace pyrrhotite.	5983	-	156.1	158.0	1.9	tr.
		- 158.4 to 158.7 - quartz vein.	5984	-	158.0	159.2	1.2	tr.
		- 159.8 to 160.7 - several small quartz veins and quartz-carbonate stringers.	5985	-	159.2	160.7	1.5	tr.
			5986	-	160.7	165.7	5.0	tr.
			5987	-	165.7	170.7	5.0	tr.
		- 171.4 to 171.6 - discontinuous quartz vein; 25-30% <u>tourmaline</u> , 3-5% pyrrhotite.	5988	tr.	170.7	172.1	1.4	tr.
			5989	-	172.1	177.0	4.9	tr.
			5990	-	177.0	180.7	3.7	tr.
			5991	tr.	180.7	181.7	1.0	tr.
		- 181.1 to 181.3 - quartz vein, 25-30% <u>tourmaline</u> , 1-2% disseminated pyrrhotite.	5992	-	181.7	187.0	5.3	tr.
			5993	-	187.0	192.0	5.0	tr.
			5994	-	192.0	197.0	5.0	tr.
			5995	-	197.0	199.0	2.0	tr.
199.0	327.0	<u>INTERMEDIATE TUFF</u> - as in 41.0 to 127.8.						
		- 199.4 to 199.8 - moderately brecciated, well carbonatized.	5996	-	199.0	200.0	1.0	tr.
			5997	-	200.0	204.9	4.9	tr.
		- 205.5 to 206.8 - weakly to moderately brecciated, well carbonatized.	5998	-	204.9	207.0	2.1	tr.
			5999	-	207.0	212.0	5.0	tr.
			6000	-	212.0	217.0	5.0	tr.
			8201	-	217.0	221.0	4.0	tr.
			8202	-	221.0	223.0	2.0	tr.
		- 223.2 to 223.6 - <u>tourmaline</u> -quartz-carbonate vein, 50-60% <u>tourmaline</u> .	8203	-	223.0	224.0	1.0	tr.
			8204	-	224.0	229.0	5.0	tr.
			8205	-	229.0	233.0	4.0	tr.
		- 233.6 to 233.8 - intensely brecciated, bleached, well carbonatized.	8206	-	233.0	234.4	1.4	tr.
			8207	-	234.4	239.0	4.6	tr.
			8208	-	239.0	244.0	5.0	tr.
		- 244.5 - 1/4 inch wide pyrrhotite stringer.	8209	-	244.0	245.0	1.0	tr.
			8210	-	245.0	250.0	5.0	tr.
		- 251.0 to 251.3 - quartz vein, cut by pyrite-coated fracture 20° to core axis.	8211	-	250.0	252.0	2.0	tr.
			8212	-	252.0	257.0	5.0	tr.
			8213	-	268.0	273.1	5.1	tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY: KASAGIMINNIS LAKE
 HOLE NO: KAS-87-32 SHEET NO: 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	oz ton	oz ton
					FROM	TO	TOTAL				
		- 273.6 to 273.8 - intensely brecciated, well carbonatized.	8214	-	273.1	277.0	3.9			tr.	
			8215	-	277.0	282.0	5.0			tr.	
		- 276.2 to 276.6 - quartz vein, trace pyrite.									
		- 283.0 to 285.9 - brecciated, strongly bleached, well carbonatized.	8216	-	282.0	285.9	3.9			tr.	
			8217	-	285.9	289.3	3.4			tr.	
			8218	-	289.3	290.3	1.0			tr.	
		- 289.5 to 289.8 - quartz-carbonate vein.									
		- 291.0 to 294.2 - quartz veins common.	8219	-	290.3	294.2	3.9			tr.	
		- 294.2 to 296.1 - weak to intense brecciation, bleached, well carbonatized.	8220	-	294.2	297.0	2.8			tr.	
			8221	-	297.0	301.9	4.9			tr.	
		- 302.7 to 303.0 - quartz-carbonate-tourmaline vein, well carbonatized .4 foot either side.	8222	-	301.9	303.6	1.7			tr.	
			8223	-	303.6	307.0	3.4			tr.	
			8224	-	307.0	312.0	5.0			tr.	
			8225	-	312.0	316.3	4.3			tr.	
		- 316.8 to 317.4 - quartz veins with <u>tourmaline</u> in wall rock, trace pyrite with <u>tourmaline</u> .	8226	-	316.3	317.6	1.3			tr.	
			8227	-	317.6	322.0	4.4			tr.	
			8228	-	322.0	327.0	5.0			tr.	
327.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-33 LENGTH 257'
 LOCATION L48E 29+21N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -46°
 STARTED February 25, 1987 FINISHED February 27, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-46.0°				
257'	-45.0°				

HOLE NO. KAS-87-33 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 786861

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	94.8	CASING									
94.8	109.1	METASEDIMENT(?) - dark grey, fine grained, well foliated 35° to 45° to core axis.									
109.1	136.8	GRANITE - medium pink, medium grained, massive.									
136.8	139.3	INTERMEDIATE TUFF(?) - heavily altered, possibly a metasediment. Light green, fine to very fine grained, extensive epidote alteration.									
139.3	141.3	GRANITE									
141.3	160.8	INTERMEDIATE TUFF - light grey to light green, fine grained.									
160.8	174.7	INTERMIXED GRANITE AND INTERMEDIATE TUFF - in approximately equal proportions.									
174.7	177.2	DIORITE - dark grey-pink, medium grained, extensive potassic alteration.									
177.2	190.4	GRANITE									
190.4	198.1	MAFIC TUFF - medium green, fine grained.									
198.1	202.8	DIORITE - medium green, medium pink.									
202.8	207.0	MAFIC TO INTERMEDIATE TUFF - medium to dark grey-green, fine grained, moderately well banded.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87-33 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPH INES	FOOTAGE		%	G/TON	G/TON
					FROM	TO			
207.0	215.5	DIORITE							
215.5	257.0	MAFIC TO INTERMEDIATE TUFF							
257.0		End of Hole.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-33 LENGTH 257'
 LOCATION L48E 29+21N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP - 46°
 STARTED February 25, 1987 FINISHED February 27, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-46.0°				
257'	-45.0°				

HOLE NO. KAS-87-33 SHEET NO. 1 of 3

REMARKS _____

PA - 786861

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	94.8	CASING								
94.8	109.1	METASEDIMENT(?) - dark grey, fine grained, well foliated 35° to 45° to core axis; quartz stringers common; minor epidote alteration on fractures; no carbonate or sulphides seen.	8229	-	94.8	98.0	3.2			tr.
		<u>Average Modes</u>	8230	-	106.0	109.1	3.1			tr.
		Feldspar)- 30 - 40%								
		Quartz								
		Chlorite 30 - 40%								
		Biotite 10 - 20%								
		Amphiboles 1 - 20%								
109.1	136.8	GRANITE - medium grained, medium grained, massive, infrequently fractured, quartz veins.	8231	-	109.1	112.7	3.6			tr.
		<u>Average Modes</u>	8232	-	127.0	130.6	3.6			tr.
		Feldspar 70 - 80%								
		Quartz 15 - 25%								
		Chlorite 3 - 5%								
		130.8 to 132.2 - .2 foot irregular quartz veins.	8233	-	130.6	132.6	2.0			tr.
			8234	-	132.6	136.8	4.2			tr.
136.8	139.3	INTERMEDIATE TUFF(?) - heavily altered, possibly a metasediment; light green, fine to very fine grained, foliated 50° to core axis; extensive epidote alteration; minor potassic alteration.	8235	-	136.8	139.3	2.5			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY
HOLE NO KAS-87-33

KASAGMINNIS LAKE
SHEET NO 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SUPR IDFS	FOOTAGE					
				FROM	TO	TOTAL			OF TON	OF TON
		<p><u>Average Modes</u></p> <p>Feldspar)- 30 - 40%</p> <p>Quartz)- 30 - 40%</p> <p>Epidote 30 - 40%</p> <p>Amphiboles 20 - 30%</p> <p>- 137.4 to 137.7 - Granite, as above.</p>								
139.3	141.3	GRANITE - as above.	8236	-	139.3	141.3	2.0			tr.
141.3	160.8	<p>INTERMEDIATE TUFF - light grey to light green, fine grained, foliated 35° to 45° to core axis; light grey sections appear less altered.</p> <p>- 154.9 to 155.4, 157.6 to 157.9 - Granite, as above.</p>	8237	-	141.3	145.5	4.3			tr.
			8238	-	157.0	160.8	3.8			tr.
160.8	174.7	INTERMIXED GRANITE AND INTERMEDIATE TUFF - in approximately equal proportions.	8239	-	167.0	172.0	5.0			tr.
			8240	-	172.0	174.8	2.8			tr.
174.7	177.2	DIORITE - dark grey-pink, medium grained, extensive potassic alteration; weakly carbonatized; massive.	8241	-	174.8	177.2	2.4			tr.
		<p><u>Average Modes</u></p> <p>Feldspar)- 60 - 70%</p> <p>Quartz)- 20 - 30%</p> <p>Chlorite 20 - 30%</p> <p>Biotite 10 - 20%</p>								
177.2	190.4	GRANITE - as above.								
190.4	198.1	MAFIC TUFF - medium green, fine grained, well foliated 25° to parallel to core axis, very blocky 195.0 to 198.1.	8242	-	194.0	198.1	4.1			tr.
		<p><u>Average Modes</u></p> <p>Feldspar)- 30 - 40%</p> <p>Quartz)- 30 - 40%</p>								



DIAMOND DRILL RECORD

NAME OF PROPERTY: KASAGIMINNIS LAKE
 HOLE NO: KAS-87-33 SHEET NO: 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SUPPLIES	FOOTAGE	PERCENT	OF TON		
				FROM	TO	TOTAL			
198.1	202.8	Chlorite 30 - 40% Biotite 20 - 30% DIORITE - medium green, medium grained, massive to weakly foliated, 1-2 mm biotite phenocrysts give spotted appearance. Average Modes Feldspar)- 30 - 40% Quartz)- 30 - 40% Chlorite 30 - 40% Biotite 20 - 30%	8243	-	198.1	202.8	4.7	tr.	
202.8	207.0	MAFIC TO INTERMEDIATE TUFF - medium to dark grey-green, fine grained, well foliated, moderately well banded 20° to core axis, weakly carbonatized. Average Modes Feldspar)- 40 - 50% Quartz)- 30 - 40% Chlorite 30 - 40% Biotite 10 - 20% - 206.4 to 207.0 - potassic alteration close to next lower unit.	8244	-	202.8	206.3	3.5	tr.	
			8245	-	206.3	207.8	1.5	tr.	
207.0	212.5	DIORITE - as in section 198.1 to 202.8.							
212.5	257.0	MAFIC TO INTERMEDIATE TUFF - as above. - 219.8 to 220.1 - quartz vein, trace carbonate, coloured by potassic alteration to deep pink. - 227.0 to 228.3 - quartz veins, trace pyrite, minor potassic alteration, contains 50% silicified mafic to intermediate tuff.	8246	-	217.0	219.5	2.5	tr.	
			8247	-	219.5	220.5	1.0	tr.	
			8248	-	220.5	224.0	3.5	tr.	
			8249	-	224.0	227.0	3.0	tr.	
			8250	-	227.0	228.3	1.3	tr.	
			8251	-	228.3	233.0	4.7	tr.	
			8252	-	252.0	257.0	5.0	tr.	
257.0		End of Hole.							

ANGUZZES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-34 LENGTH 347'
 LOCATION L28W 4 + 13S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP 45°
 STARTED February 25, 1987 FINISHED February 27, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	39.7°				
347'	-34.3°				

HOLE NO. KAS-87-34 SHEET NO. 1 of 1

REMARKS Summary Log

PA -786806

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	8.0	CASING								
8.0	332.9	MAFIC TO INTERMEDIATE FLOWS AND TUFF - 95:5.								
332.9	337.8	SULPHIDE - TRANSITION ZONE - 3-5% pyrrhotite, 1-2% pyrite, 1-3% magnetite.								
337.8	347.0	FELSIC TUFF - GARNETIFEROUS								
347.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-34 LENGTH 347'
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED February 25, 1987 FINISHED February 27, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-39.7°				
347'	-34.3°				

HOLE NO KAS-87-34 SHEET NO. 1 of 4

REMARKS _____

PA - 786806

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	8.0	<u>CASING</u>									
8.0	332.9	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF</u> - 95:5, dark grevish-green, fine grained, poorly banded to massive, foliated. <u>Average Modes</u> Amphibole 35 - 40% Quartz 35 - 40% Plagioclase)- Chlorite 10 - 15% Biotite 3 - 5% Carbonate trace - 2% Garnets trace - 2% Pyrite)- trace - 0.5% Pyrrhotite)- Minor flow breccia in some horizons. Widely spaced fractures, chert bands, and quartz stringers and veins. Chlorite and biotite bands throughout ± garnets with increasing percentage of garnets towards bottom of zone. Minor fine to medium grained, massive diorite dykelets and sills in upper portion, foliation averages 58.1° to core axis. - 8.0 to 297.0 - typical flows with minor tuff, trace garnets. - 20.5 to 20.9 - dioritic sill. - 34.9 to 35.2 - dioritic dyke. - 38.7 to 39.8 - dioritic dyke.									
			B039	tr-0.5	8.0	13.0	5.0			tr.	
			B040	tr.	19.5	22.0	2.5			tr.	
			B041	tr.	32.0	37.0	5.0			tr.	
			B042	tr.	37.0	40.0	3.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-34 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	G/TON	G/TON	
					FROM	TO	TOTAL					
		- 48.4 to 51.0 - 1.5 foot diorite dyke with irregular quartz- <u>tourmaline</u> -carbonate stringers and veins, 3-5% carbonate, 1-3% massive pyrite blebs and stringers.	8043	1-3	47.0	51.0	4.0					tr.
			8044	tr.	51.0	53.3	2.3					tr.
		- 53.3 to 55.0 - 0.7 foot diorite sill with fracturing of wall rock, 1-2% carbonate as infillings.	8045	tr.	53.3	55.0	1.7					tr.
			8046	tr.	55.0	57.0	2.0					tr.
		- 57.0 to 58.5 - fractured flows, quartz-carbonate infillings, 0.1 foot cherty quartz vein with trace disseminated <u>tourmaline</u> .	8047	tr.	57.0	58.5	1.5					tr.
			8048	tr.	58.5	61.6	3.1					tr.
		- 61.6 to 63.6 - 0.6 foot quartz vein with disseminated <u>tourmaline</u> , fracturing with quartz-carbonate infillings.	8049	tr.	61.6	63.6	2.0					tr.
		- 71.7 to 74.7 - irregular quartz-carbonate veining and stringers with 0.5-1% pyrite.	8050	0.5-1	71.7	74.7	3.0					tr.
		- 89.9 to 94.5 - 1 foot diorite sill, trace-1% pyrite-pyrrhotite in chlorite-amphibole bands.	8051	tr-1	89.9	94.5	4.6					tr.
		- 109.0 to 110.5 - minor quartz stringers.	8052	tr.	109.0	110.5	1.5					tr.
		- 127.0 to 157.0 - fracturing subparallel to core axis with quartz-carbonate infillings, common quartz-carbonate veins, trace-0.5% pyrite in chloritic bands.	8053	tr-0.5	127.0	130.5	3.5					tr.
			8054	tr-0.5	130.5	132.9	2.4					tr.
			8055	tr-0.5	132.9	137.0	4.1					tr.
			8056	tr-0.5	137.0	142.0	5.0					tr.
			8057	tr-0.5	142.0	147.0	5.0					tr.
			8058	tr-0.5	147.0	152.0	5.0					tr.
		- 130.5 to 132.9 - quartz-carbonate veining, trace <u>tourmaline</u> .	8059	tr-0.5	152.0	157.0	5.0					tr.
		- 165.0 to 171.0 - fracturing with quartz-carbonate infill, minor quartz-carbonate veining.	8060	tr.	165.0	167.0	2.0					tr.
			8061	tr.	167.0	171.0	4.0					tr.
		- 187.0 to 201.9 - minor quartz veining, 3-5% garnet as fine to medium grained idiomorphic porphyroblasts in chlorite bands, trace-0.5% pyrite as fracture fillings, trace-0.5% pyrrhotite as disseminated grains and wispy stringers.	8062	tr-1	187.0	192.0	5.0					tr.
			8063	tr-1	192.0	197.0	5.0					tr.
			8064	tr-1	197.0	201.9	4.9					tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY

KASAGIMINNIS LAKE

HOLE NO. KAS-87-34

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	DEPTH	FOOTAGE	GRAVIMETRY	CHEMISTRY		
				FROM	TO	TOTAL			
		- 201.9 to 202.6 - diorite sill.	8065	tr.	201.9	202.6	0.7		tr.
		- 229.0 to 230.0 - 1-2% pyrrhotite + pentlandite?, as wispy stringers, minor quartz stringers.	8066	1-2	229.0	230.0	1.0		tr.
		- 238.5 to 242.1 - minor quartz veining, fracturing, subparallel to core axis.	8067	tr.	238.5	242.1	3.6		tr.
		- 297.0 to 332.9 - increasing sulphide content and percentage of garnets.	8068	0.5-1	297.0	302.0	5.0		tr.
			8069	0.5-1	302.0	307.0	5.0		tr.
			8070	0.5-1	307.0	312.0	5.0		tr.
		- 297.0 to 307.0 - 3-5% coarse grained idiomorphic disseminated to massive, banded garnets in biotite-chlorite bands, 0.5-1% pyrite along grain boundaries of garnets.	8071	0.5-1	312.0	315.4	3.4		tr.
		- 315.4 to 332.0 - trace-1% disseminated pyrite pyrrhotite in garnet-chlorite bands, garnets fine to coarse grained, stretched to banded.	8072	tr-1	315.4	317.0	1.6		tr.
			8073	tr-1	317.0	322.0	5.0		tr.
			8074	tr-1	322.0	327.0	5.0		tr.
			8075	tr-1	327.0	332.0	5.0		tr.
		- 332.0 to 332.9 - 80-85% massive garnet band con- sisting of aggregates of medium grained crystals in chlorite-amphibole matrix, 1-2% fine grained disseminated pyrrhotite.	8076	1-2	332.0	332.9	0.9		tr.
332.9	337.8	<u>SULPHIDE - TRANSITION ZONE</u> - fine grained, laminated, grey to black to pink, distorted foliation.	8077	3-5	332.9	334.5	1.6		tr.
			8078	3-5	334.5	337.8	3.3		tr.
		<u>Average Modes</u>							
		Quartz)- 75 - 80%							
		Chert)-							
		Chlorite)-							
		Amphibole)- 3 - 5%							
		Magnetite 1 - 3%							
		Garnets 1 - 5%							
		Pyrrhotite 3 - 5%							
		Pyrite 1 - 2%							
		Carbonate trace - 0.5%							

DIAMOND DRILL RECORD

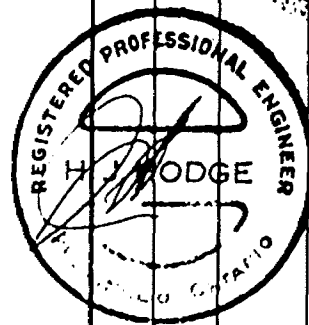
NAME OF PROPERTY

KASAGIMINNIS LAKE

HOLE NO KAS-87-34

SHEET NO 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS																														
FROM	TO		NO	SULPH IDES	FOOTAGE FROM TO TOTAL																															
337.8	347.0	<p>Contact zone between MAFIC TO INTERMEDIATE FLOWS above and FELSICS below. May represent oxide-sulphide facies iron formation, magnetite as fine grained bands, pyrrhotite as wispy stringers and disseminated blebs, pyrite as wispy stringers.</p> <p>FELSIC TUFF - GARNETIFEROUS - dark grey to pink, fine to medium grained, well foliated, laminated to poorly banded.</p> <p><u>Average Modes</u></p> <table> <tr><td>Sericite</td><td>35</td><td>-</td><td>40%</td></tr> <tr><td>Quartz</td><td>20</td><td>-</td><td>25%</td></tr> <tr><td>Garnet</td><td>10</td><td>-</td><td>15%</td></tr> <tr><td>Chlorite</td><td>5</td><td>-</td><td>7%</td></tr> <tr><td>Pyrrhotite</td><td>trace</td><td>-</td><td>2%</td></tr> <tr><td>Magnetite</td><td>trace</td><td>-</td><td>1%</td></tr> <tr><td>Pyrite</td><td>trace</td><td>-</td><td>0.5%</td></tr> </table> <p>Foliation distorted by overgrowth of medium grained garnet porphyroblasts, pyrite as fracture coatings, pyrrhotite disseminated on grain boundaries in garnets, magnetite as fine disseminated grains.</p> <p>- 337.8 to 344.5 - magnetic.</p> <p>- 344.5 to 347.0 - non-magnetic, trace pyrrhotite, magnetite.</p> <p>Foliation at 69° to core axis throughout section.</p>	Sericite	35	-	40%	Quartz	20	-	25%	Garnet	10	-	15%	Chlorite	5	-	7%	Pyrrhotite	trace	-	2%	Magnetite	trace	-	1%	Pyrite	trace	-	0.5%	8079	tr-2	337.8	342.0	4.2	tr.
Sericite	35	-	40%																																	
Quartz	20	-	25%																																	
Garnet	10	-	15%																																	
Chlorite	5	-	7%																																	
Pyrrhotite	trace	-	2%																																	
Magnetite	trace	-	1%																																	
Pyrite	trace	-	0.5%																																	
			8080	tr-2	342.0	344.5	2.5	tr.																												
			8081	tr.	344.5	347.0	2.5	tr.																												
347.0		End of Hole.																																		



LANGRISHES - T. BOND - 386 5177

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-35 LENGTH 347'
 LOCATION L22+98H 4+15S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 183° DIP -45°
 STARTED February 27, 1987 FINISHED February 28, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-45.0°				
200'	-41.5°				
347'	-39.0°				

HOLE NO KAS-87-35 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 786806

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	10.0	CASING									
10.0	205.6	MAFIC TO INTERMEDIATE FLOWS AND TUFF - 95:5.									
205.6	214.2	INTERMEDIATE FLOWS									
214.2	314.8	MAFIC TO INTERMEDIATE FLOWS AND TUFF - 95:5.									
314.8	317.0	SULPHIDE - TRANSITION ZONE - 3-5% pyrrhotite, 1-2% pyrite, 1-3% magnetite.									
317.0	347.0	FELSIC TUFF - GARNETIFEROUS									
347.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-35 LENGTH 347'
 LOCATION L22+98W 4+15S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 183° DIP -45°
 STARTED February 27, 1987 FINISHED February 28, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
200'	-41.5°				
347'	-39.0°				

HOLE NO KAS-87-35 SHEET NO. 1 of 5

REMARKS _____

PA - 786806

LOGGED BY R. HIRKINSON

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	10.0	CASING									
10.0	205.6	<p><u>MAFIC TO INTERMEDIATE FLOWS AND TUFF</u> - 95:5, dark greyish-green, fine grained, poorly banded to massive, foliated.</p> <p><u>Average Modes</u></p> <p>Amphibole 35 - 40% Quartz 35 - 40% Plagioclase)- Chlorite 10 - 15% Biotite 3 - 5% Garnets trace - 2% Carbonate trace - 2% Pyrite)- trace - 0.5% Pyrrhotite)-</p> <p>Widely spaced fractures, chert bands, quartz veins, wispy carbonate stringers. Garnet ± chlorite, amphibole, biotite bands, minor flow breccia, minor mafic (diorite) dykes and sills.</p> <p>- 17.0 to 20.0 - minor quartz-carbonate stringers.</p> <p>- 30.6 to 32.4 - 1.2 foot quartz vein, 0.5-1% pyrite-chlorite fracture fill, minor pyrite stringers.</p> <p>- 45.4 to 47.0 - irregular chlorite-garnet-amphibole band with 0.5 foot brecciated quartz-carbonate vein and 3-5% pyrrhotite-pyrite blebs with 3-5% <u>tourmaline</u>.</p>									
			8082		10.0	15.0	5.0				tr.
			8083		15.0	17.0	2.0				tr.
			8084		17.0	20.0	3.0				tr.
			8085		30.6	32.4	1.8				tr.
			8086		45.4	47.0	1.6				tr.
			8087		47.0	51.5	4.5				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY..... KASAGIMINNIS LAKE.....
 HOLE NO. KAS-87-35 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	%	%
					FROM	TO	TOTAL				
		- 51.5 to 53.4 - abundant garnet-chlorite-amphibole bands with 1-2% pyrite blebs.	8088		51.5	53.4	1.9				tr.
			8089		53.4	57.0	3.6				tr.
			8090		57.0	62.0	5.0				tr.
		- 64.5 to 65.4 - medium grained flows, 2-3% pyrrhotite blebs.	8091		62.0	67.0	5.0				tr.
		- 66.0 to 69.0 - 1-2% pyrite as fracture fillings around cherty quartz-carbonate stringer.									
		- 96.2 to 97.1 - diorite dyke, dark grey, medium grained, massive, approximately 50% amphibole, 50% plagioclase, minor quartz stringers.	8092		95.2	98.2	3.0				tr.
			8093		98.2	100.0	1.8				tr.
		- 100.0 to 100.6 - diorite dyke.	8094		100.0	104.7	4.7				tr.
		- 100.6 to 104.2 - fracturing, abundant carbonate stringers.									
		- 104.2 to 104.7 - diorite sill, fine grained disseminate albite grains.									
		- 104.7 to 105.4 - highly fractured flows with quartz-carbonate infillings.	8095		104.7	107.0	2.3				tr.
		- 107.0 to 110.6 - minor chlorite-garnet-amphibole bands with 1-2% pyrrhotite-pyrite blebs.	8096		107.0	110.6	3.6				tr.
		- 110.6 to 112.6 - diorite sill with irregular 0.8 foot quartz-tourmaline vein, trace pyrite, abundant xenoliths of host rock.	8097		110.6	112.6	2.0				tr.
			8098		112.6	117.0	4.4				tr.
		- 132.0 to 141.8 - abundant carbonate stringers.	8099		132.0	137.0	5.0				tr.
			8100		137.0	141.8	4.8				tr.
		- 141.8 to 142.8 - diorite dyke, 0.5-1% pyrrhotite and pyrite on contacts.	8101		141.8	142.8	1.0				tr.
			8102		142.8	147.0	4.2				tr.
			8103		147.0	152.0	5.0				tr.
		- 152.0 to 153.0 - quartz-diorite or silicified diorite dyke, with irregular quartz vein and carbonate infilled	8104		152.0	157.0	5.0				tr.

LANGRISHES - OPENING - 306-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87-35 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	G/TON
					FROM	TO	TOTAL			
		fractures, 1-2% coarse grained pyrrhotite blebs.								
		- 154.1 to 155.7 - 0.9 foot quartz-carbonate vein, silicified host rock.	8105		177.0	182.0	5.0			tr.
		- 201.2 to 205.6 - minor quartz veining, trace-1% pyrite as fracture fillings.	8106		201.2	205.6	4.4			tr.
		Foliation averages 56.3° to core axis.								
205.6	214.2	<u>INTERMEDIATE FLOWS</u> - dark grey, fine grained, massive, weakly foliated.	8107		205.6	207.0	1.4			tr.
			8108		207.0	212.0	5.0			tr.
			8109		212.0	214.2	2.2			tr.
		<u>Average Modes</u>								
		Amphibole 40 - 45%								
		Quartz)- 40 - 45%								
		Plagioclase)-								
		Sericite)- 5 - 10%								
		Chlorite)-								
		Few widely spaced chert bands and cherty quartz veins, foliated at 56° to core axis at 208.0.								
214.2	314.8	<u>MAFIC TO INTERMEDIATE FLOWS AND TUFF</u> - 95:5, typical.								
		- 214.2 to 257.6 - typical.								
		- 230.7 to 235.1 - diorite sill, minor cross-cutting fracture with 0.5-1% pyrite coating.	8110		214.2	217.0	2.8			tr.
			8111		230.7	235.1	4.4			tr.
		- 257.6 to 294.6 - mottled to massive flows, fewer chlorite bands, slightly lighter in colour, trace-1% pyrrhotite as disseminated blebs and stringers.	8112		257.6	258.6	1.0			tr.
		- 282.8 to 284.3 - irregular quartz vein with garnet-chlorite bands, trace-1% pyrite and pyrrhotite as blebs.	8113		282.8	284.3	1.5			tr.
			8114		284.3	287.0	2.7			tr.
			8115		287.0	292.0	5.0			tr.
			8116		292.0	294.6	2.6			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY

KASAGININNIS LAKE

HOLE NO KAS-87-35

SHEET NO 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE						
				FROM	TO	TOTAL					
		- 294.6 to 314.8 - laminated, coarse grained garnets up to 1/2 inch across, trace-2% disseminated, spotty magnetite.	8117		294.6	297.0	2.4			tr.	
			8118		297.0	302.0	5.0			tr.	
			8119		302.0	307.0	5.0			tr.	
			8120		307.0	312.0	5.0			tr.	
		Foliation averages 60° to core axis.	8121		312.0	314.8	2.8			tr.	
314.8	317.0	<u>SULPHIDE - TRANSITION ZONE</u> - grey to black, fine grained, distorted banding - foliation.									
		<u>Average Modes</u>									
		Quartz)- 75 - 80%									
		Chert)-									
		Chlorite)-									
		Amphibole)-									
		Magnetite 1 - 3%									
		Garnets 1 - 5%									
		Pyrrhotite 3 - 5%									
		Pyrite 1 - 2%									
		Carbonate trace - 0.5%									
		Transition between MAFIC TO INTERMEDIATE FLOWS above and FELSIC TUFF below, minor massive pyrrhotite-pyrite stringers with siderite ankerite on selvages, 0.2 foot massive garnet-chlorite band at top of section.									
		- 314.8 to 316.0 - distorted lamination, well foliated, 3-5% pyrrhotite as wispy laminae, 1-2% pyrite as stringers and fracture fill, sharp contacts.	8122		314.8	316.0	1.2			tr.	
		- 316.0 to 317.0 - massive, poorly foliated, predominantly chert-sericite, 1-3% pyrrhotite, 0.5-1% pyrite as blebs and fracture fill.	8123		316.0	317.0	1.0			tr.	
317.0	347.0	<u>FELSIC TUFF - GARNETIFEROUS</u> - dark grey to pink, fine to medium grained, well foliated, laminated to poorly banded.									

LANGRISHS - TORONTO - 14-1-68

DIAMOND DRILL RECORD

NAME OF PROPERTY..... KASAGIMINNIS LAKE
 HOLE NO. ... KAS-87-35 ... SHEET NO. 5 of 5

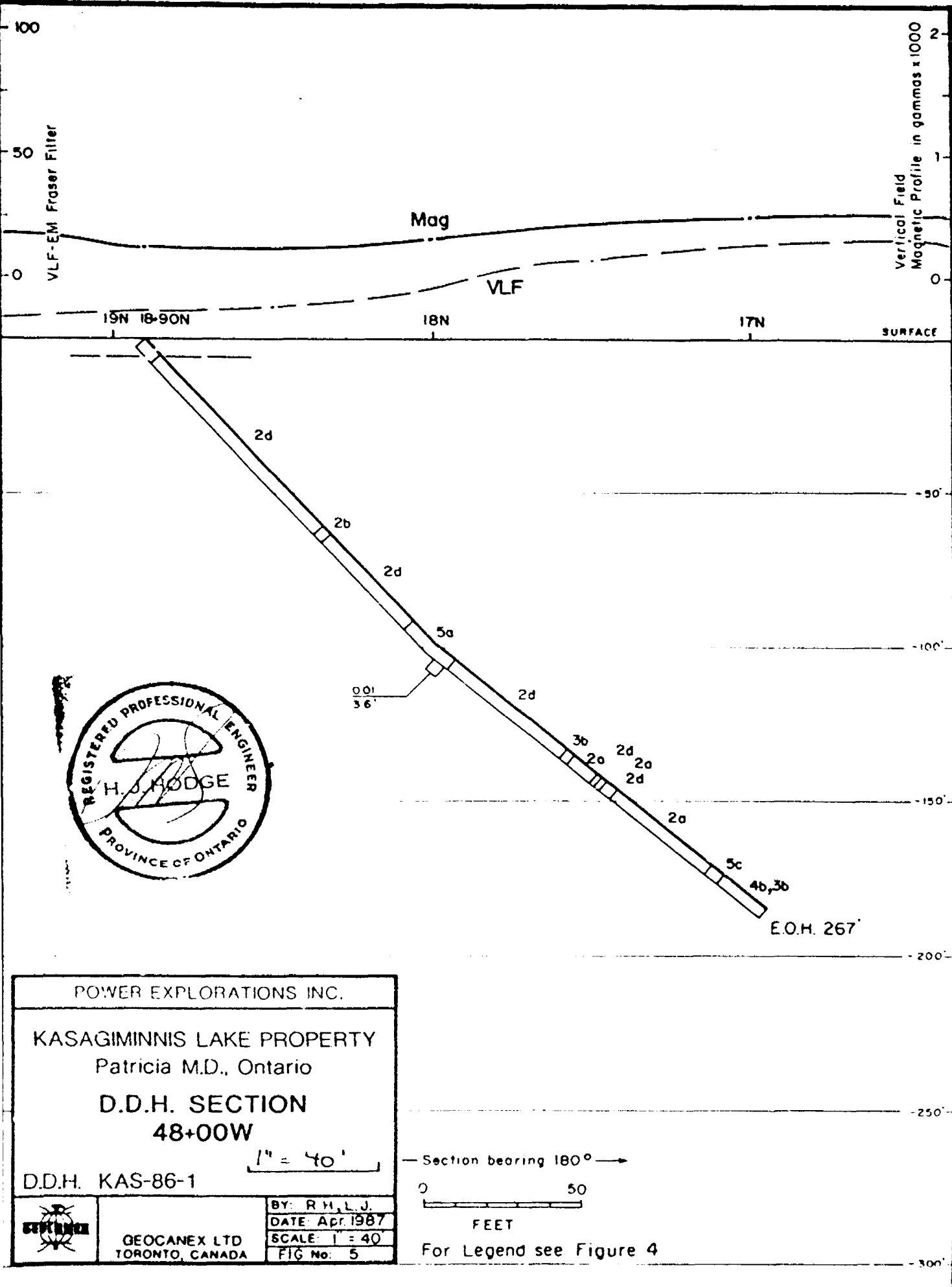
FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	FOOTAGE			%	%	G/TON	G/TON
				IDES	FROM	TO				
		<p><u>Average Modes</u></p> <p>Sericite 35 - 40%</p> <p>Quartz 15 - 20%</p> <p>Garnet 5 - 20%</p> <p>Chlorite 3 - 5%</p> <p>Pyrrhotite 0.5 - 2%</p> <p>Pyrite 1 - 3%</p> <p>Foliation distorted by overgrowth of medium grained garnet porphyroblasts, pyrite as fracture coatings, disseminated blebs and minor massive bands and stringers, pyrrhotite as disseminated blebs in massive garnet bands, weakly magnetic.</p> <p>- 345.0 to 347.0 - trace-2% disseminated garnets.</p> <p>Foliated at 57° to core axis throughout.</p> <p>End of Hole.</p>								
347.0										
			8124		317.0	322.0	5.0			tr.
			8125		322.0	327.0	5.0			tr.
			8126		327.0	332.0	5.0			tr.
			8127		332.0	337.0	5.0			tr.
			8128		337.0	342.0	5.0			tr.
			8129		342.0	347.0	5.0			tr.



520/035W-0015

2/2

APPENDIX D
DRILL SECTIONS AND LEGEND



LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS

- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet) with gold assay in ounces per ton..... 0.01/3.6
- Lost core..... ZLC

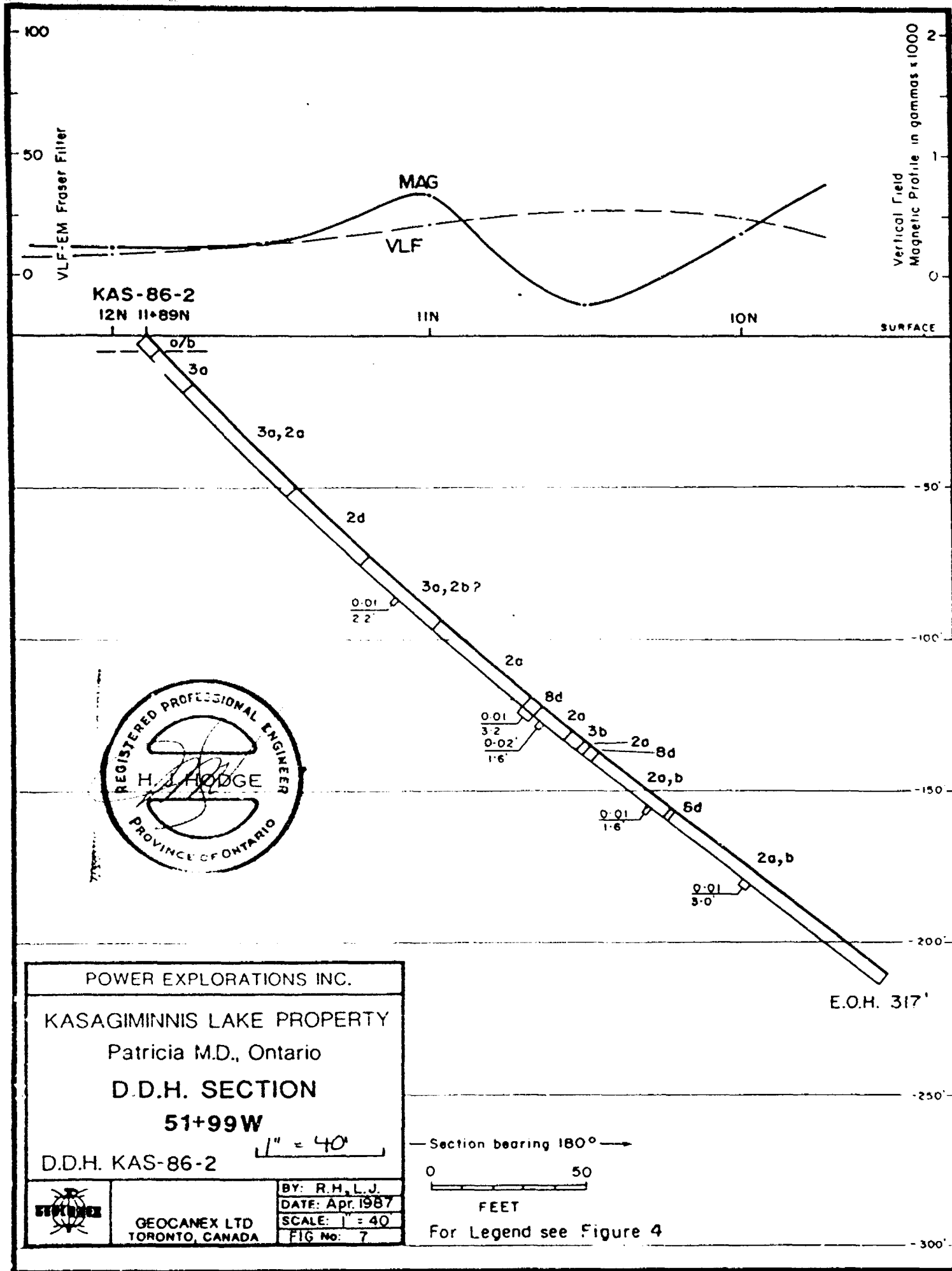
Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite

Fig. 4



LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS

- Overburden
- Geological contact
- Bedding
- Foliation
- Fault, shear zone
- Sample interval (feet) with gold assay in ounces per ton
- Lost core

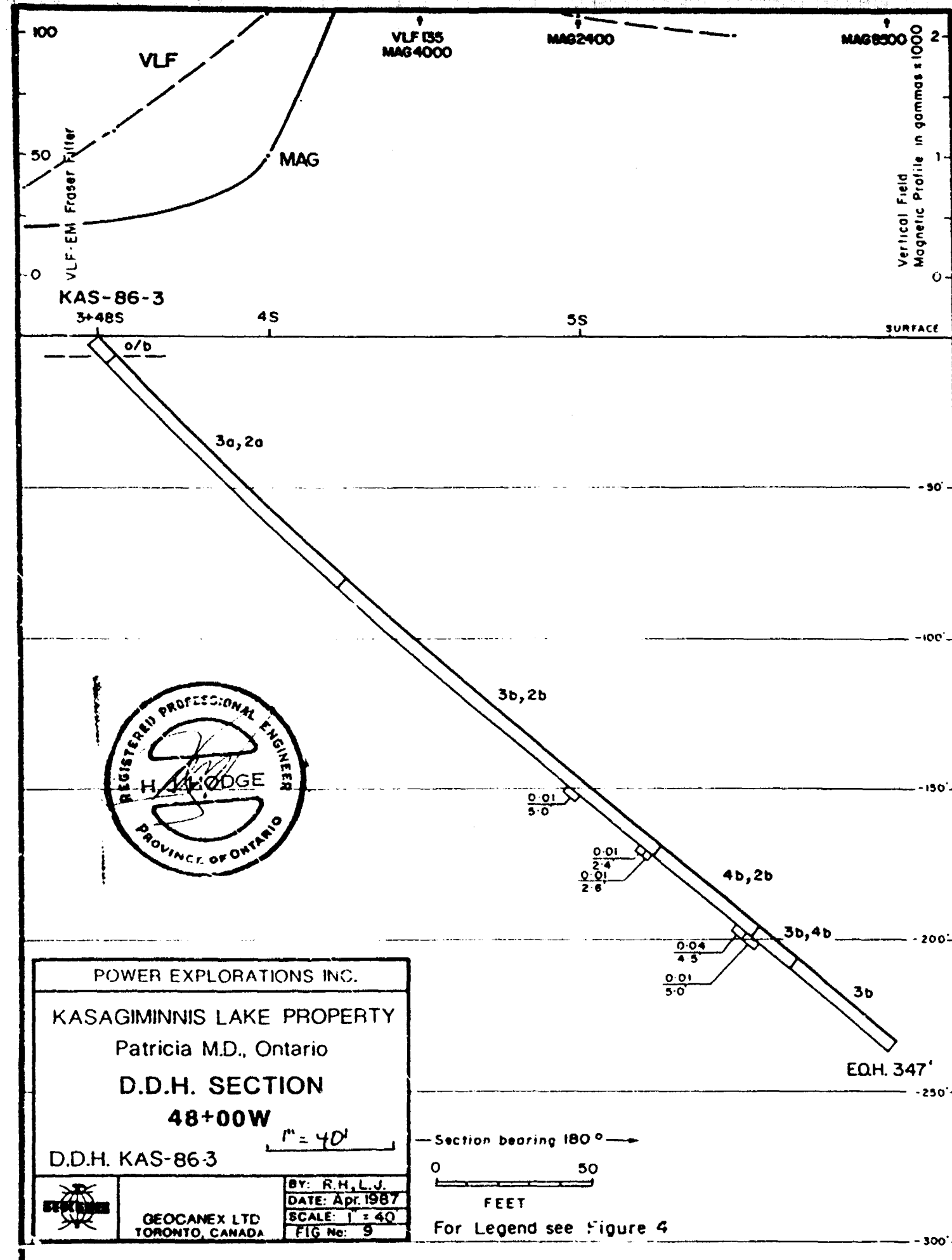
Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite

Fig. 4

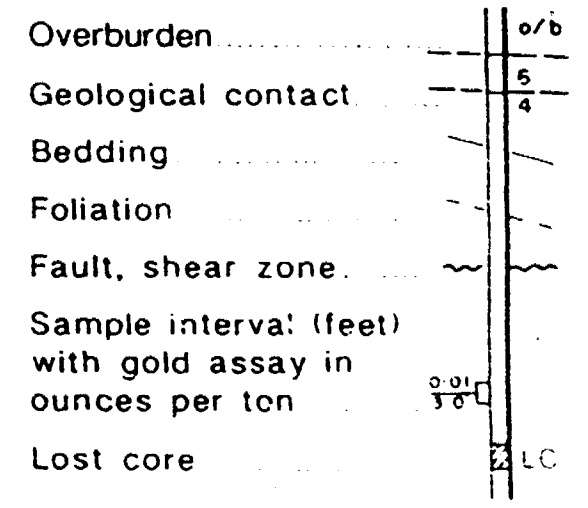


LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

- q.v..c.v. Quartz/carbonate veins
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 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS



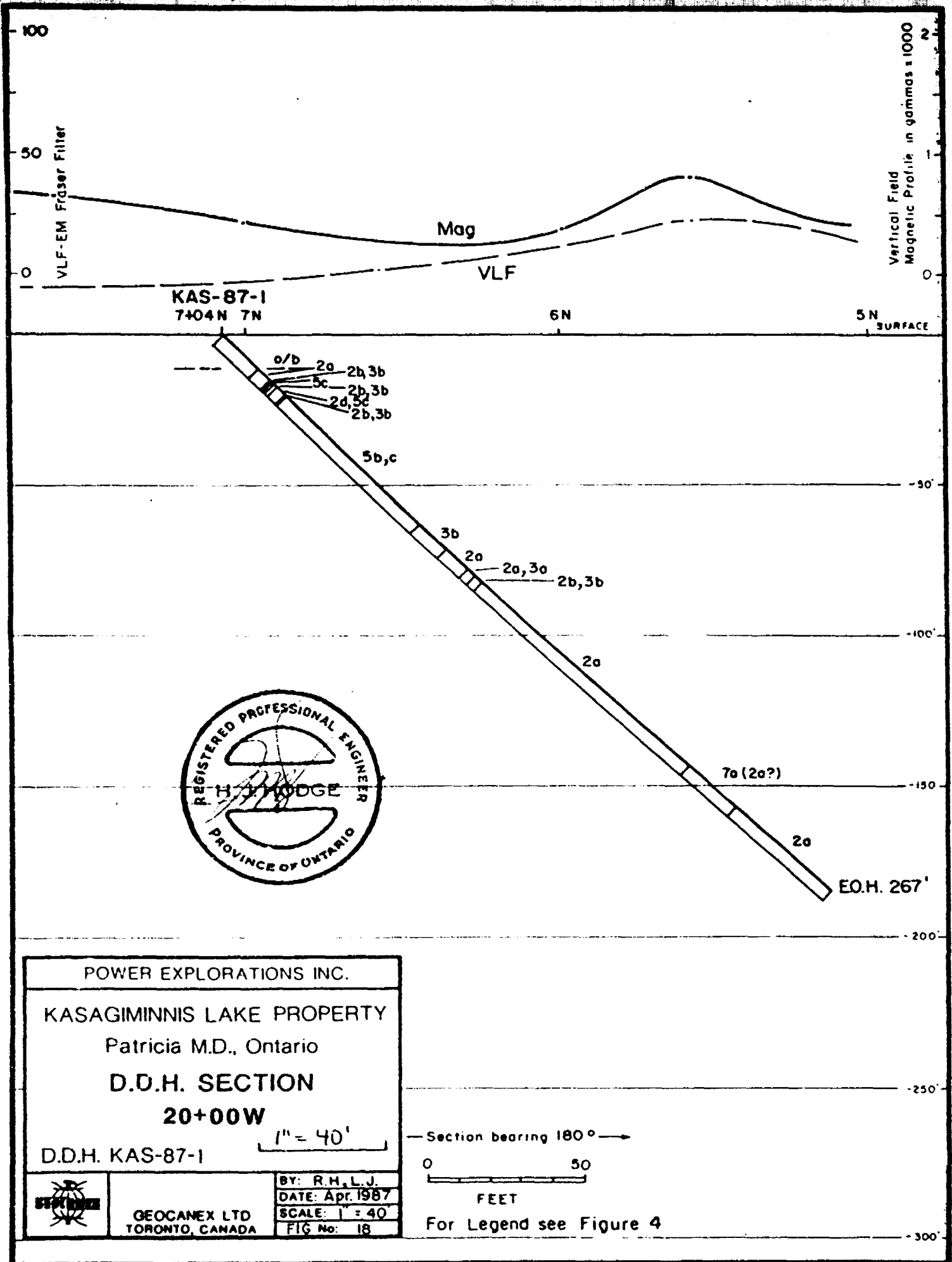
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Mineralization

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- Ga - galena
- Mo - Molybdenite
- gl - Graphite

Fig. 4

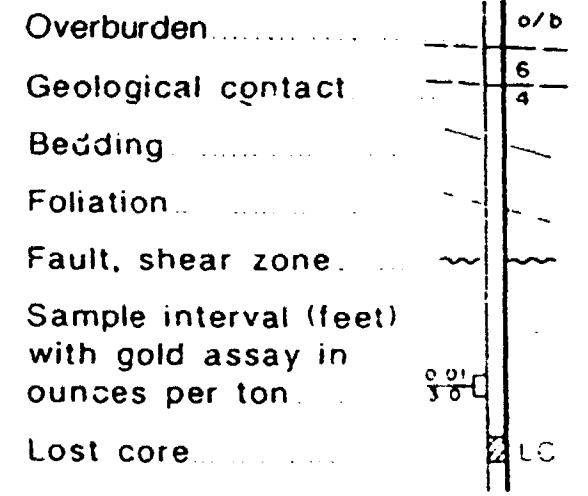


LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

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 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS



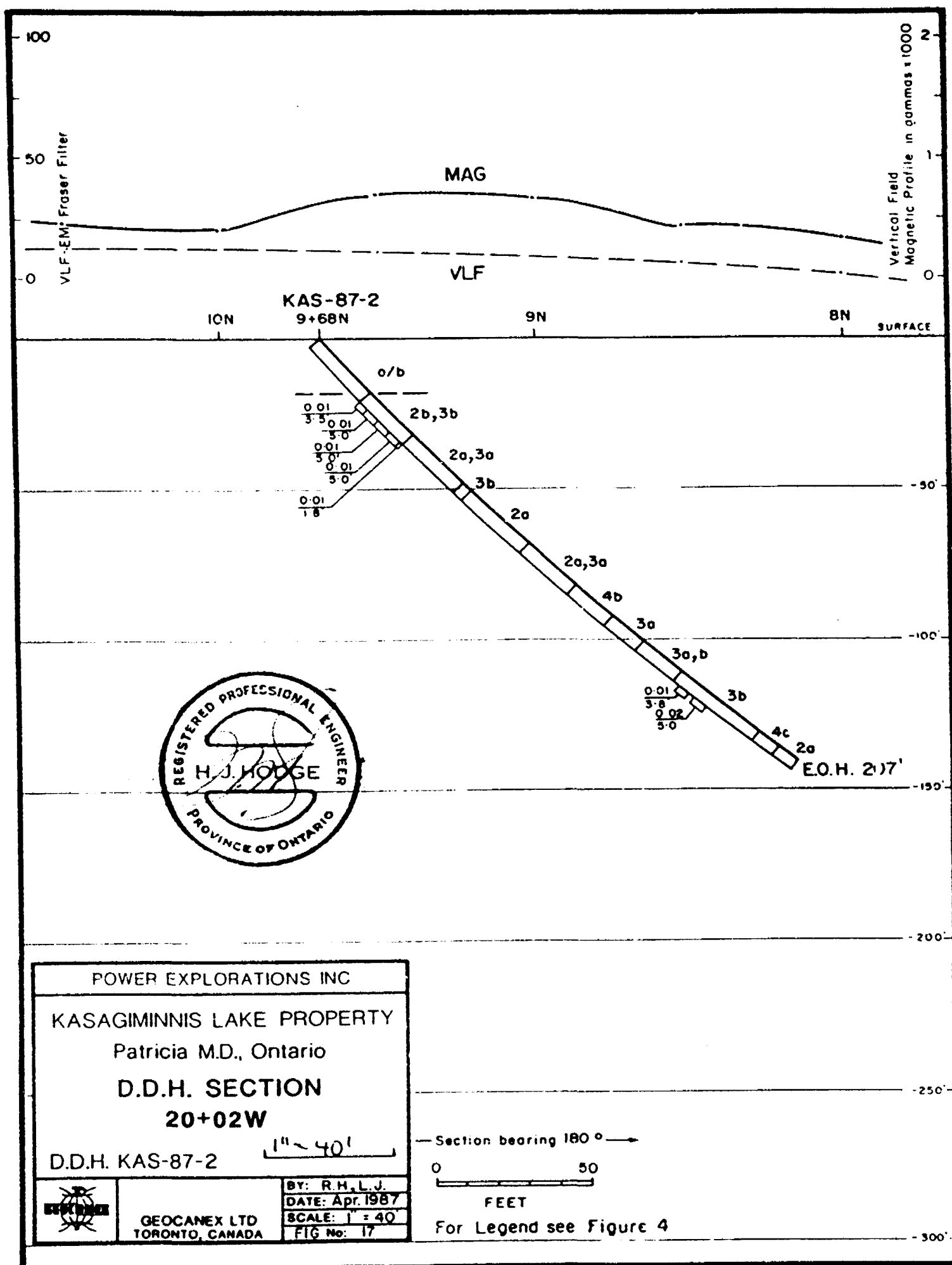
Alteration

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- ca - carbonatization

Mineralization

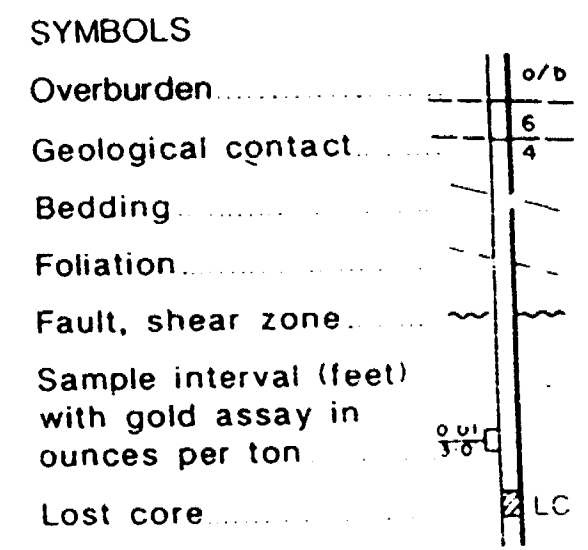
- s - sulphides
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Fig. 4



**LEGEND FOR DIAMOND DRILL HOLE SECTIONS
FOR THE KASAGIMINNIS LAKE PROJECT**
Pickle Lake Area, Patricia M.D., Ontario

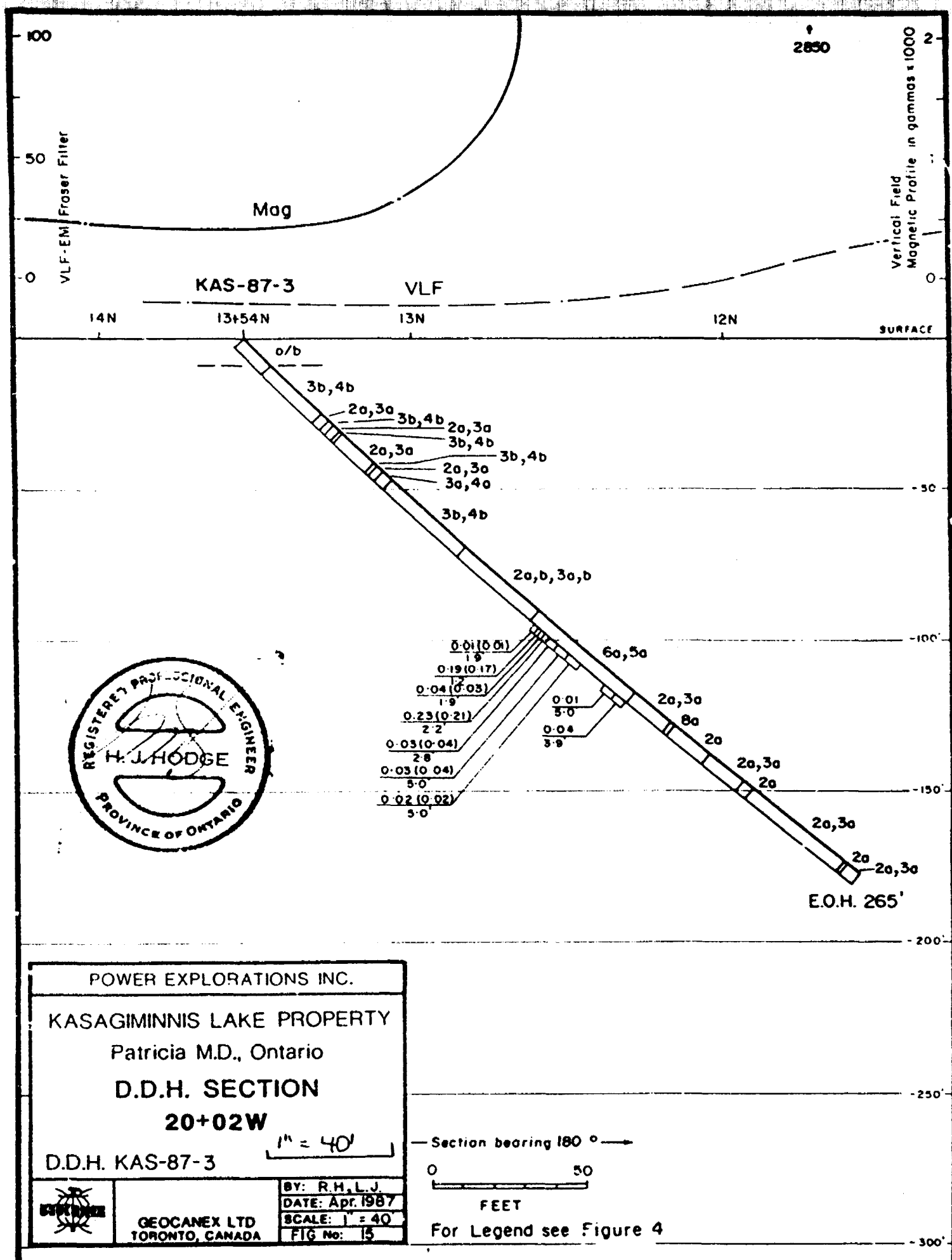
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- 1 Ultramafic volcanics



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Fig. 4



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 - 2d Amphibolite
- 1 Ultramafic volcanics

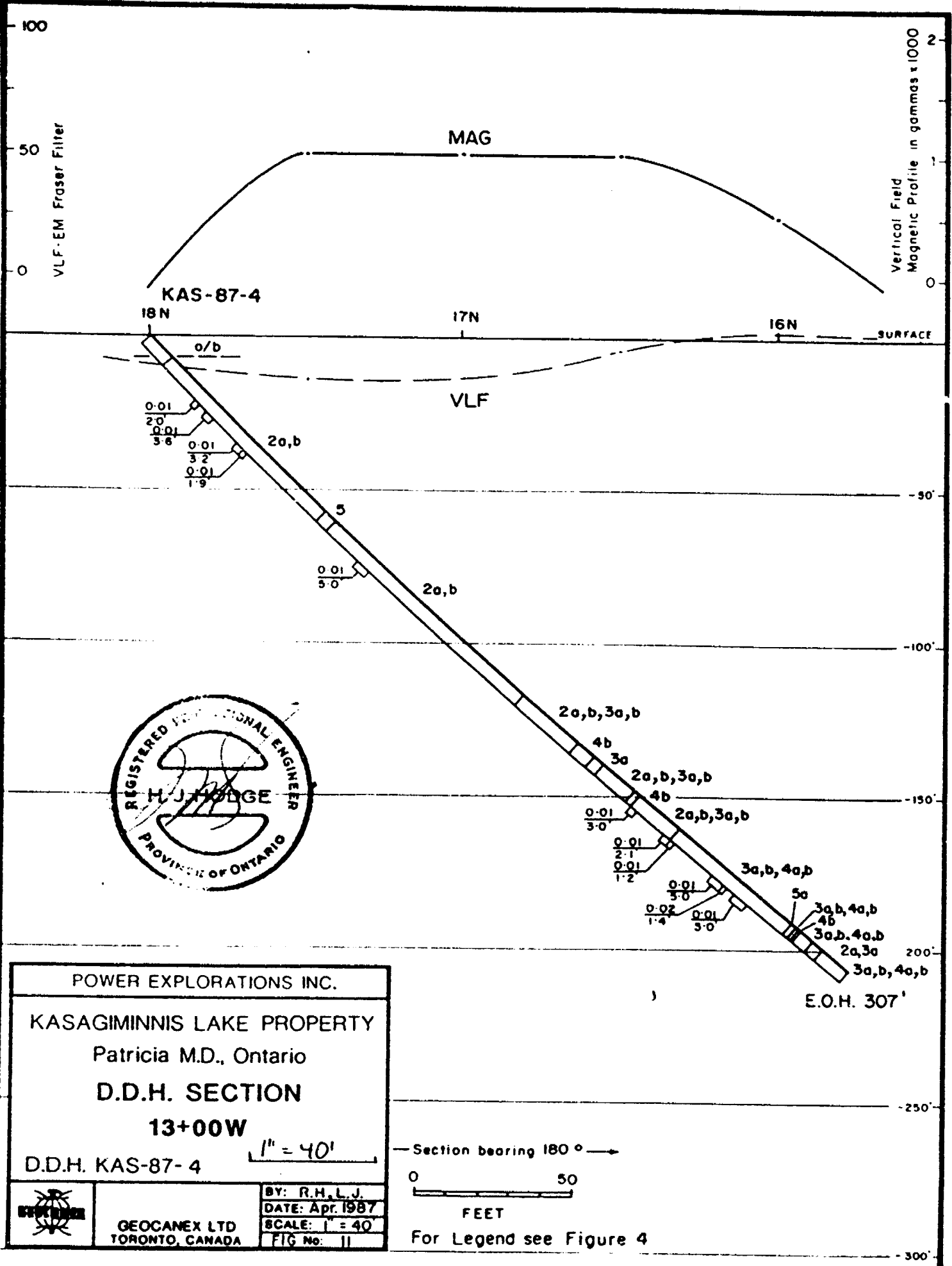
SYMBOLS

- Overburden
- Geological contact
- Bedding
- Foliation
- Fault, shear zone
- Sample interval (feet) with gold assay in ounces per ton
- Lost core

- ### Alteration
- si - silicification
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Fig. 4

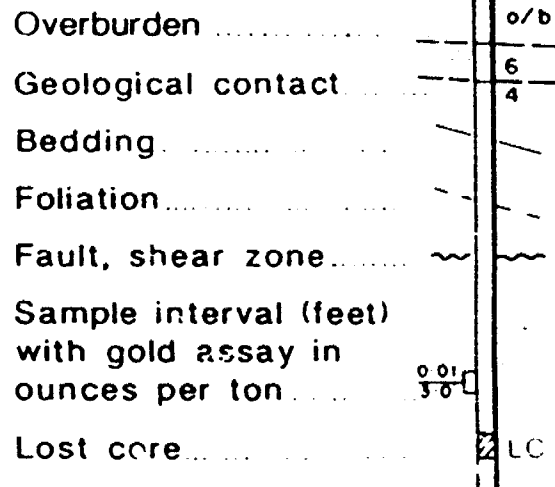


LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

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- 1 Ultramafic volcanics

SYMBOLS



Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

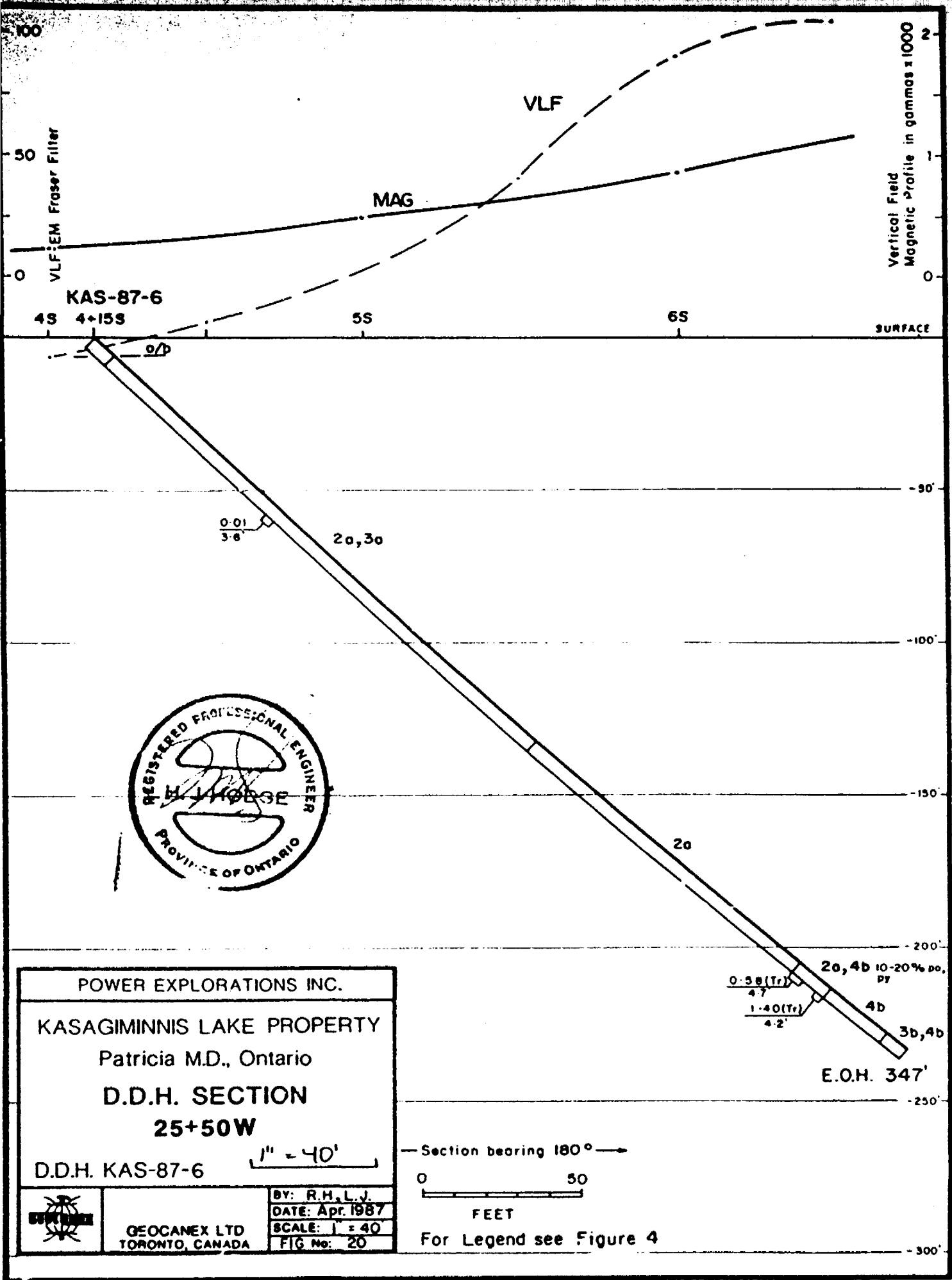
- s - sulphides
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POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
 D.D.H. SECTION
 13+00W
 D.D.H. KAS-87-4
 1" = 40'

BY: R.H.L.J.
 DATE: Apr. 1987
 SCALE: 1" = 40'
 FIG No. 11

Section bearing 180°
 0 50
 FEET
 For Legend see Figure 4

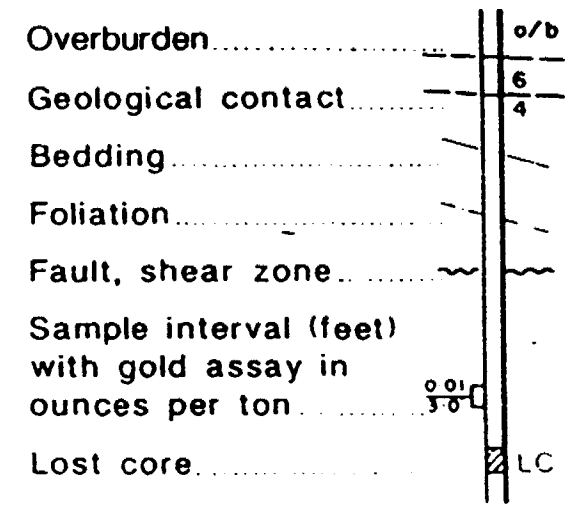


LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

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SYMBOLS



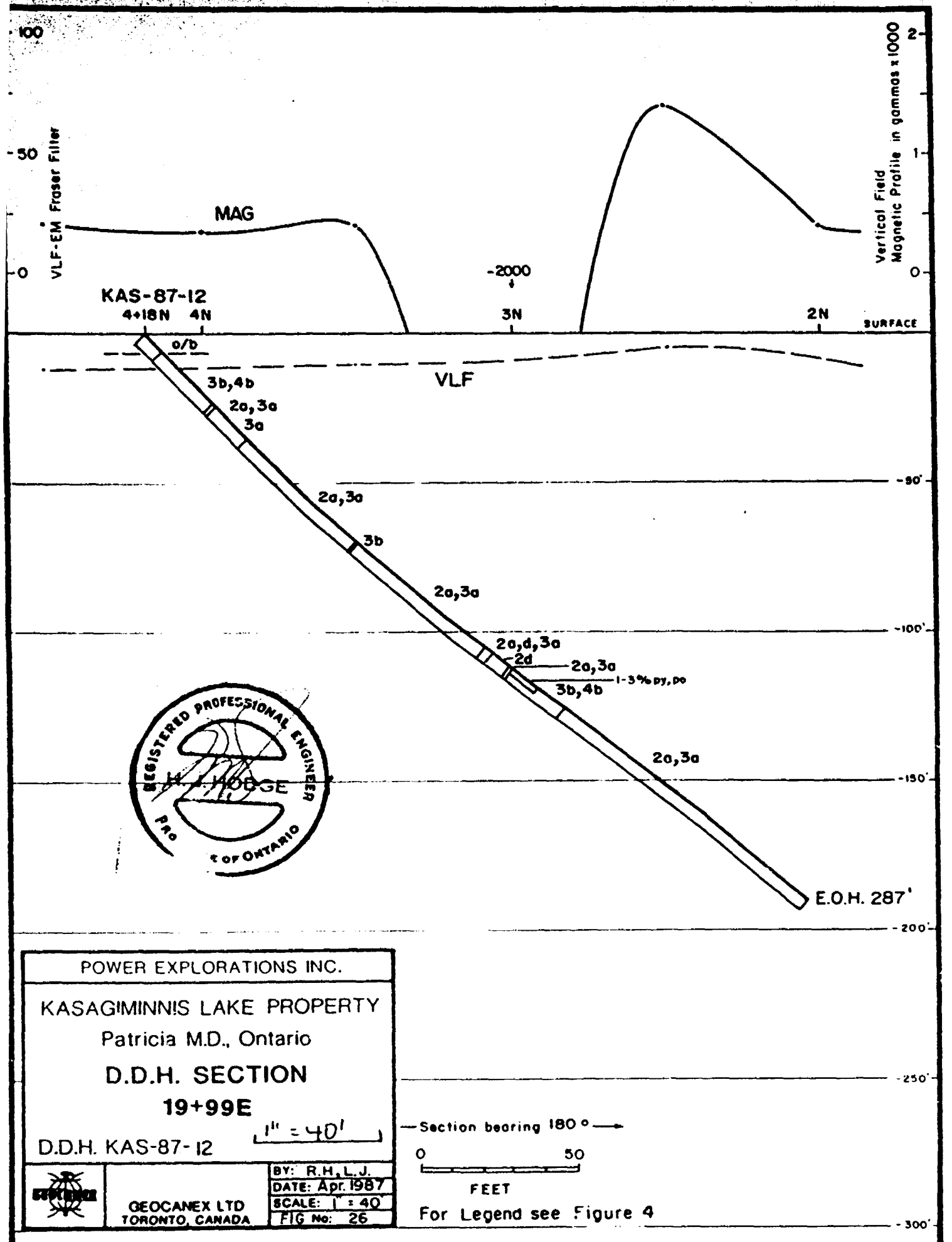
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Fig. 4



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SYMBOLS

- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet) with gold assay in ounces per ton..... 0.01/3.0
- Lost core..... LC

Alteration

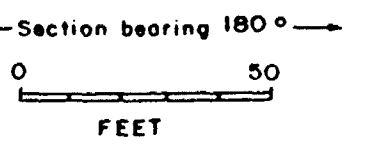
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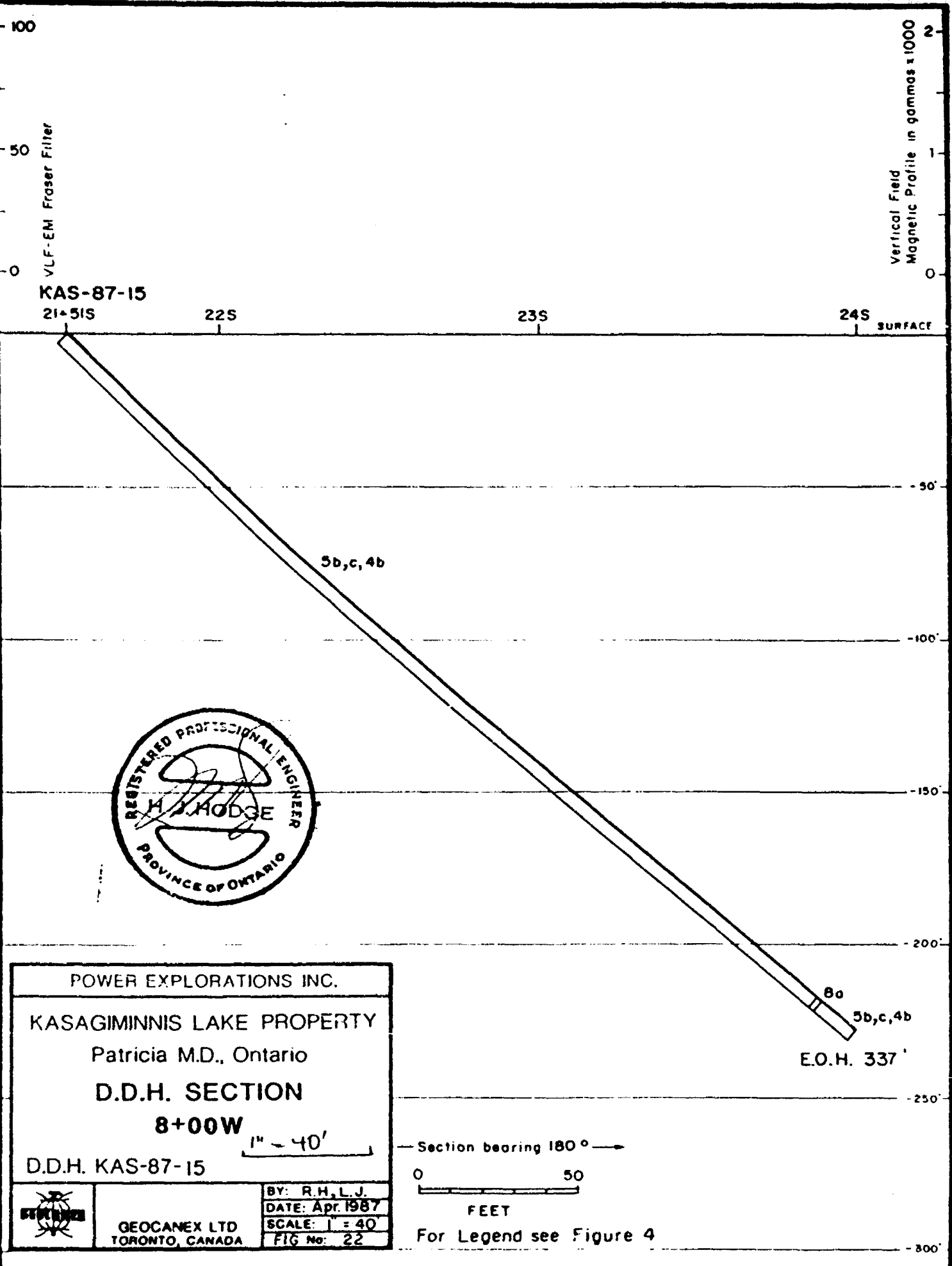
POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
 D.D.H. SECTION
 19+99E
 D.D.H. KAS-87-12
 1" = 40'

BY: R.H.L.J.
 DATE: Apr. 1987
 SCALE: 1" = 40'
 FIG No: 26



For Legend see Figure 4

Fig. 4

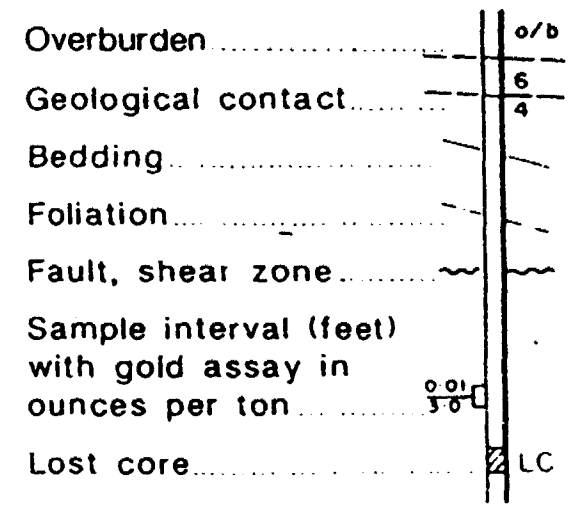


LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

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- 1 Ultramafic volcanics

SYMBOLS



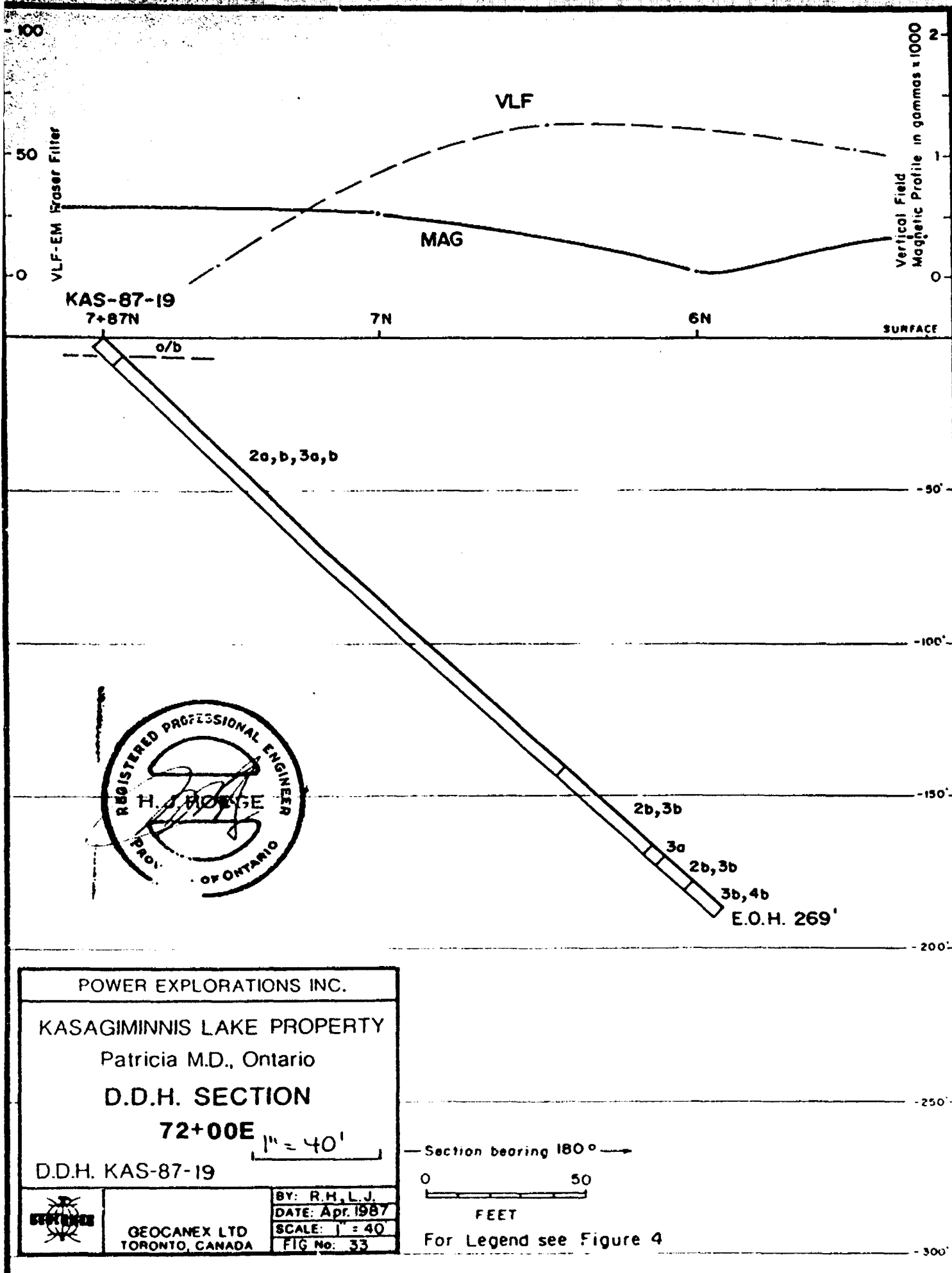
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Fig. 4

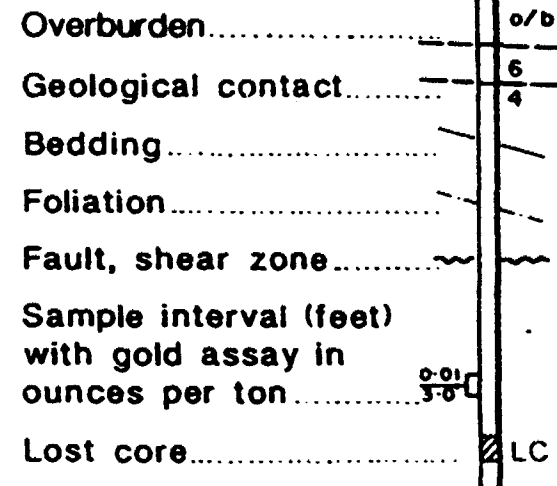


**LEGEND FOR DIAMOND DRILL HOLE SECTIONS
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SYMBOLS



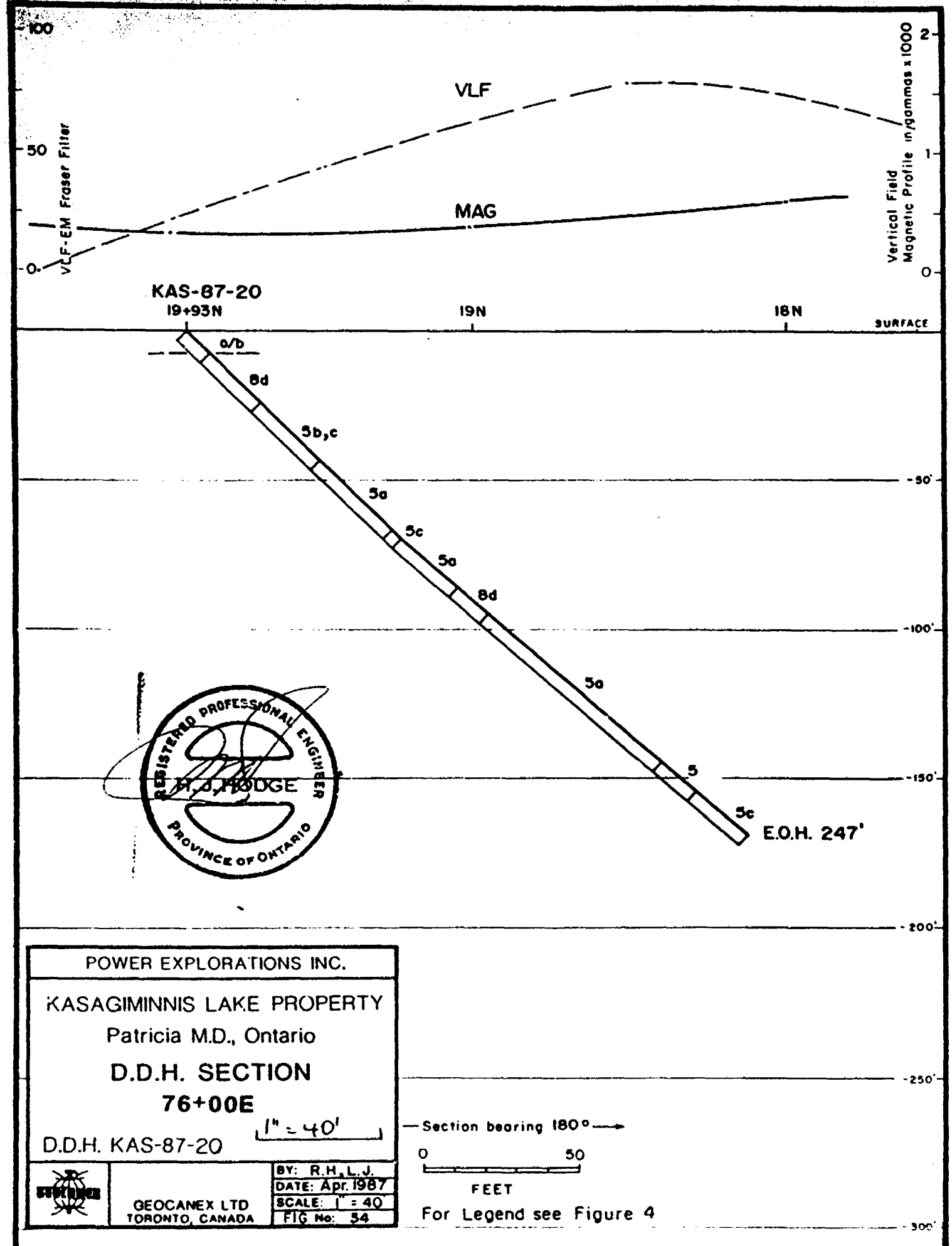
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Fig. 4



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SYMBOLS

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- Bedding.....
- Foliation.....
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- Sample interval (feet) with gold assay in ounces per ton..... 0-01/3-0
- Lost core..... LC

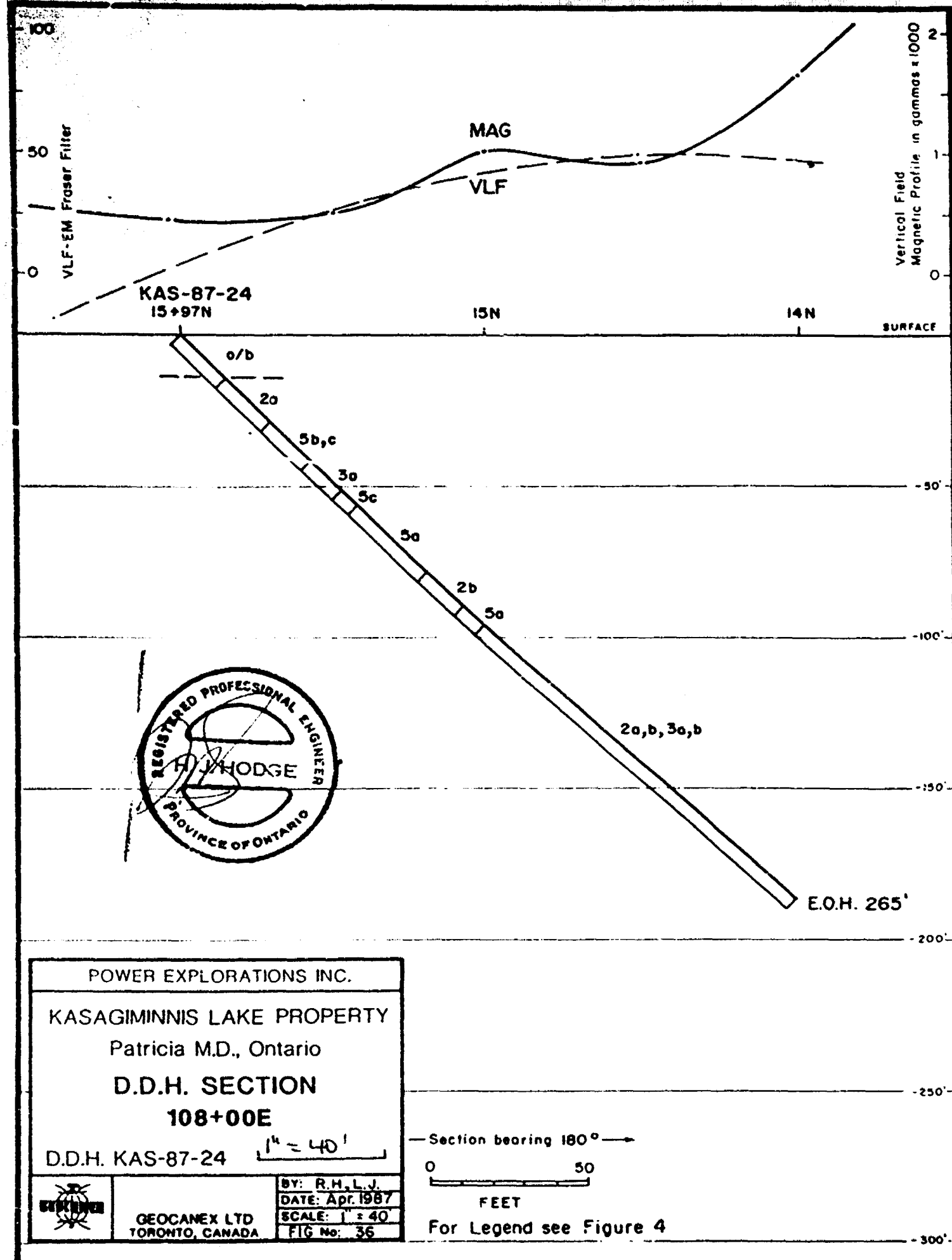
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Fig. 4

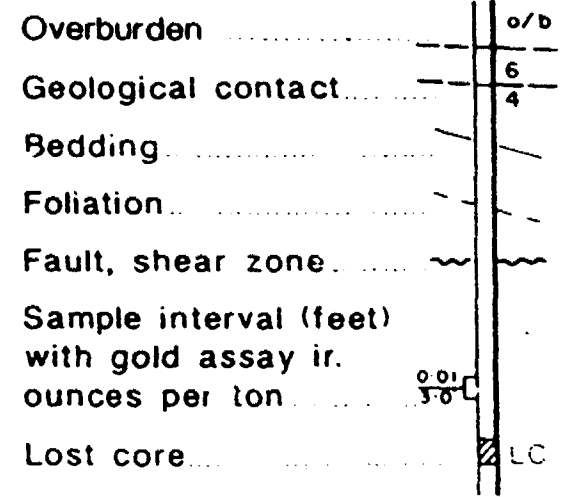


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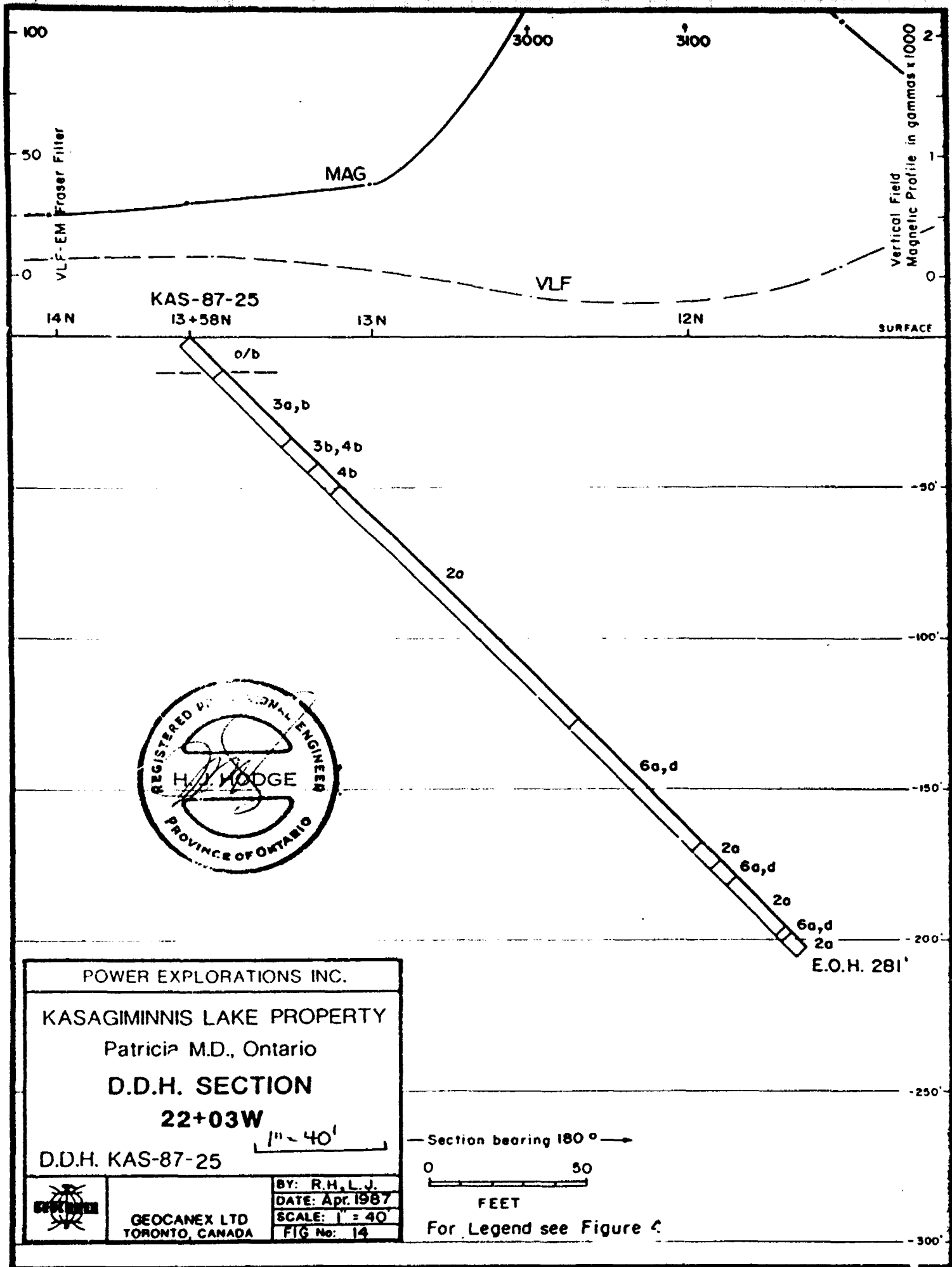
POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
 D.D.H. SECTION
 108+00E
 D.D.H. KAS-87-24 1" = 40'

BY: R.H.L.J.
 DATE: Apr. 1987
 SCALE: 1" = 40'
 FIG No. 36

GEOCANEX LTD
 TORONTO, CANADA

Section bearing 180° →
 0 50 FEET
 For Legend see Figure 4

Fig. 4

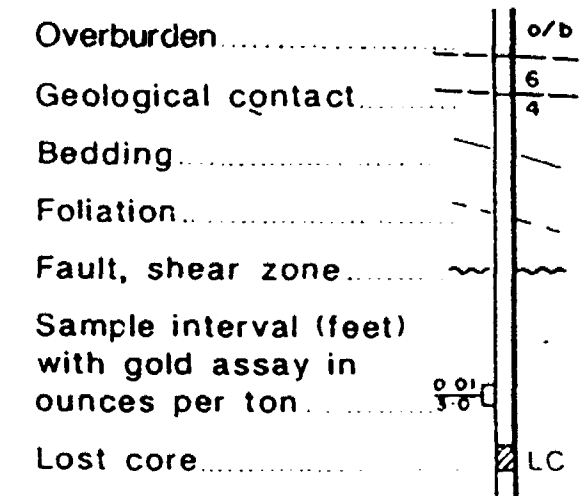


LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS



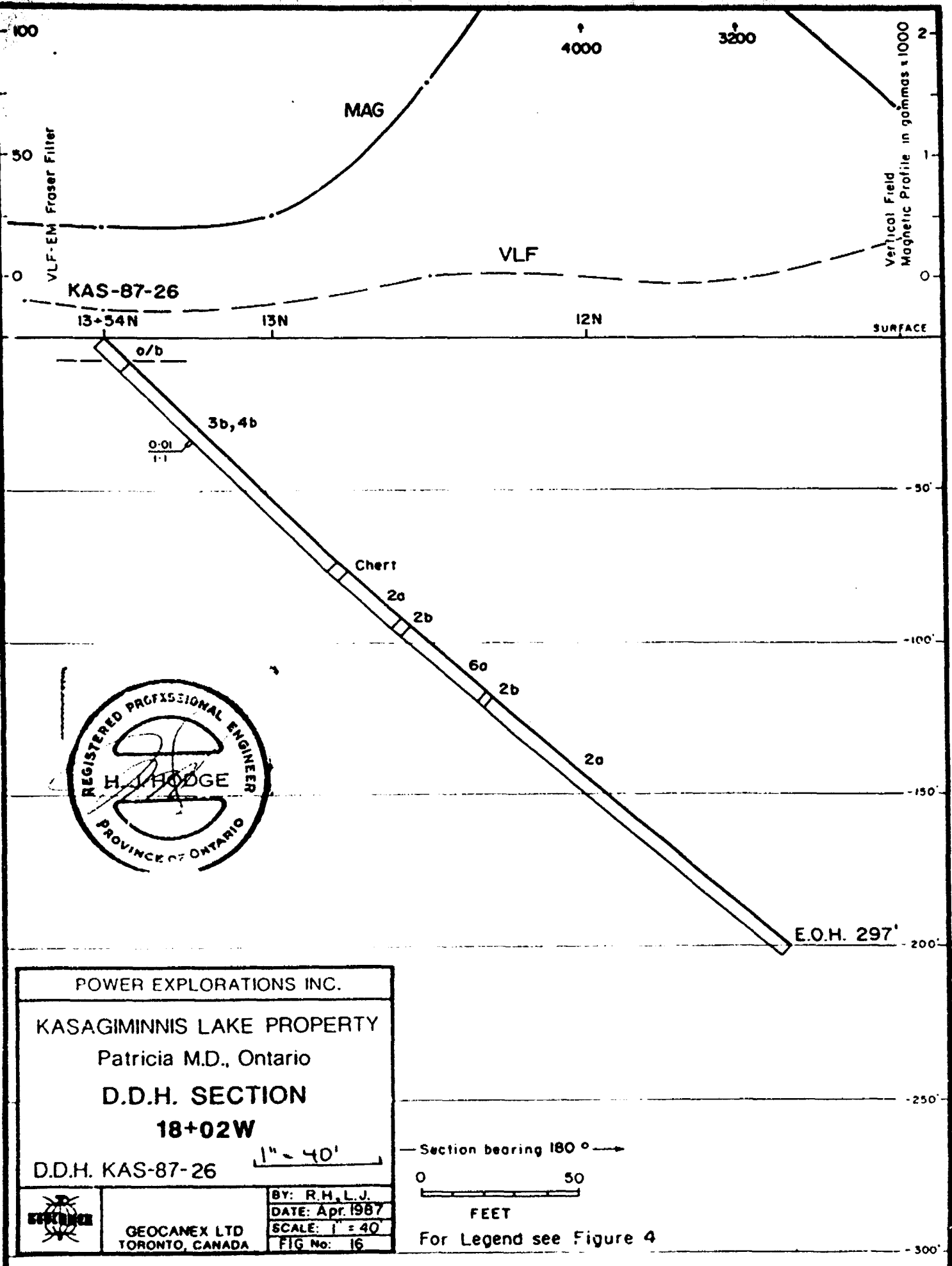
Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite

Fig. 4



POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
D.D.H. SECTION
18+02W
 D.D.H. KAS-87-26

BY: R.H.L.J.
 DATE: Apr. 1987
 SCALE: 1" = 40'
 FIG No: 16

GEOCANEX LTD
 TORONTO, CANADA

Section bearing 180° →
 0 50
 FEET

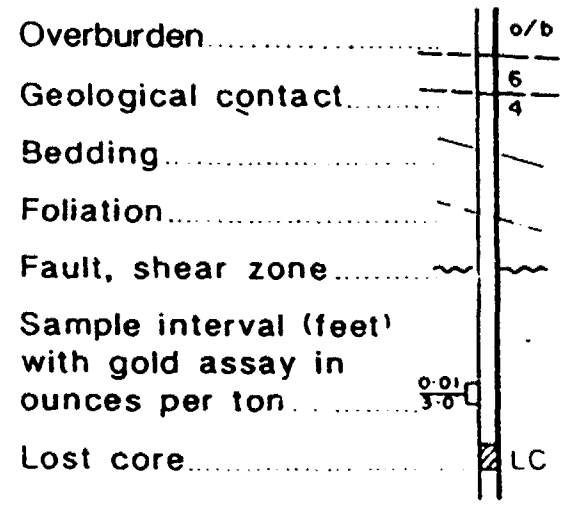
For Legend see Figure 4

LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS



Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite

Fig. 4

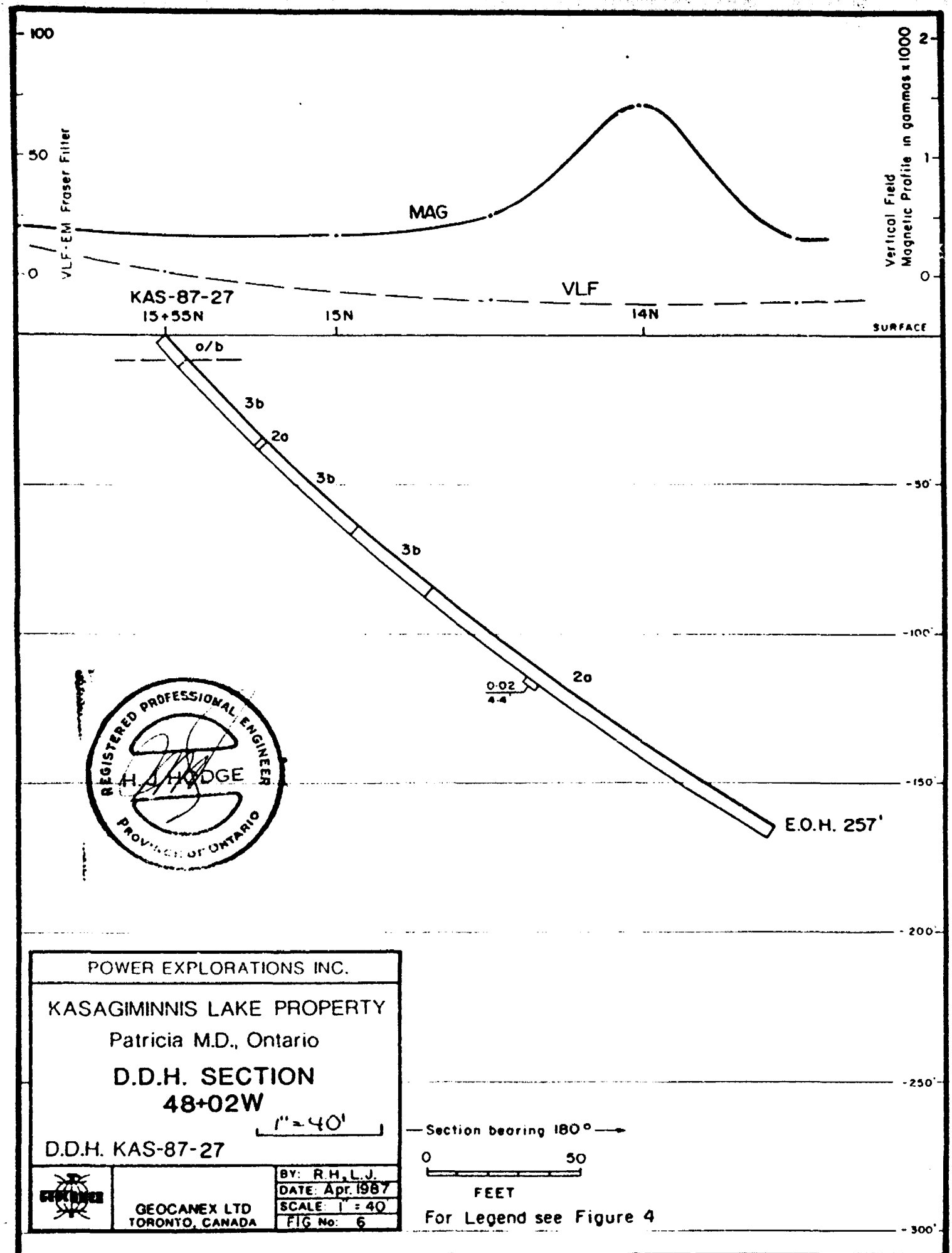
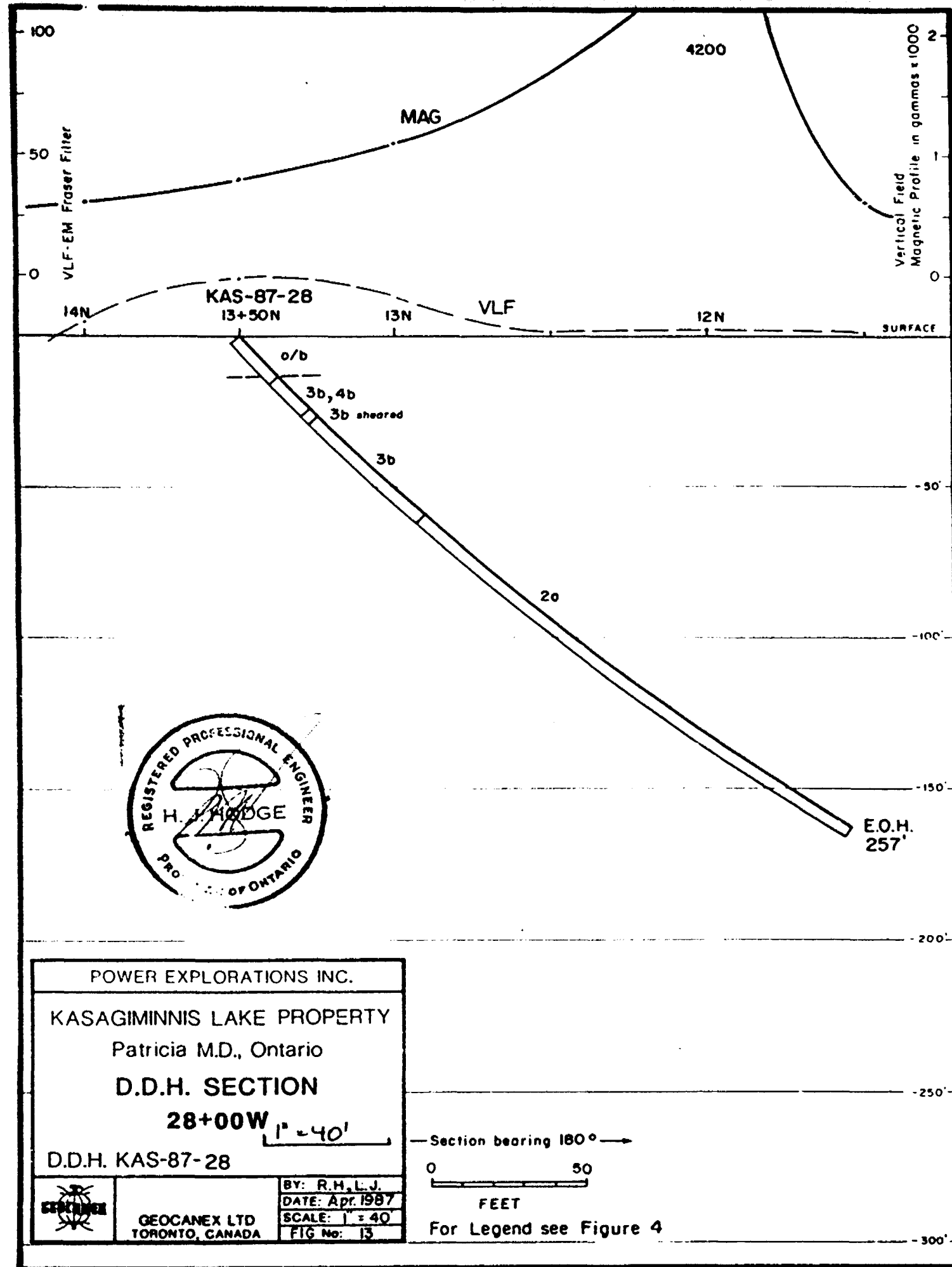


Fig. 4



LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS

- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet) with gold assay in ounces per ton..... 0.01/3.0
- Lost core..... LC

Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

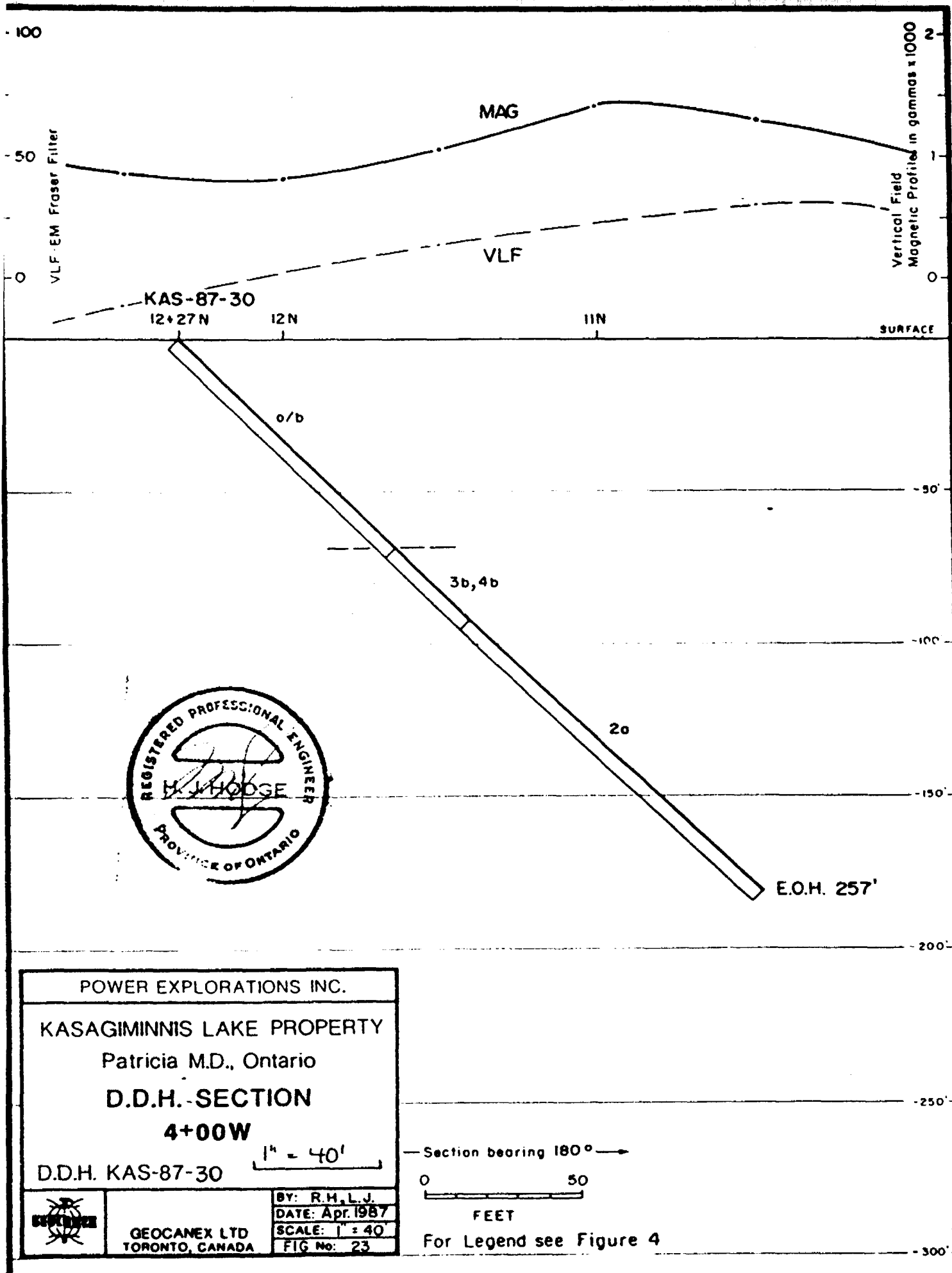
- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite



POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
D.D.H. SECTION
28+00W 1" = 40'
 D.D.H. KAS-87-28
 Section bearing 180°
 BY: R.H.L.J.
 DATE: Apr. 1987
 SCALE: 1" = 40'
 FIG No: 13
 GEOCANEX LTD
 TORONTO, CANADA

0 50 FEET
 For Legend see Figure 4

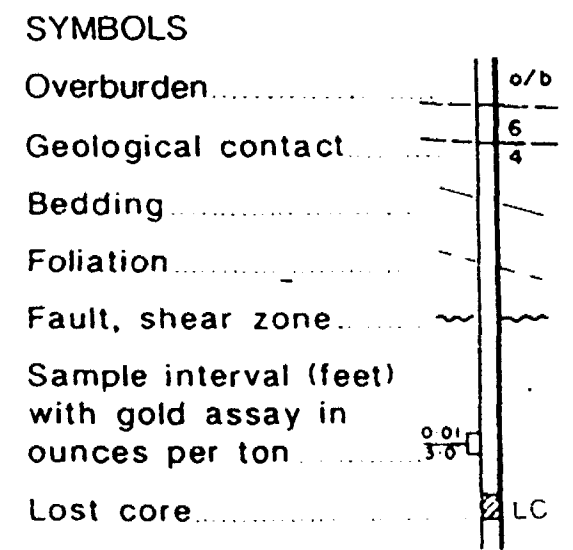
Fig. 4



LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

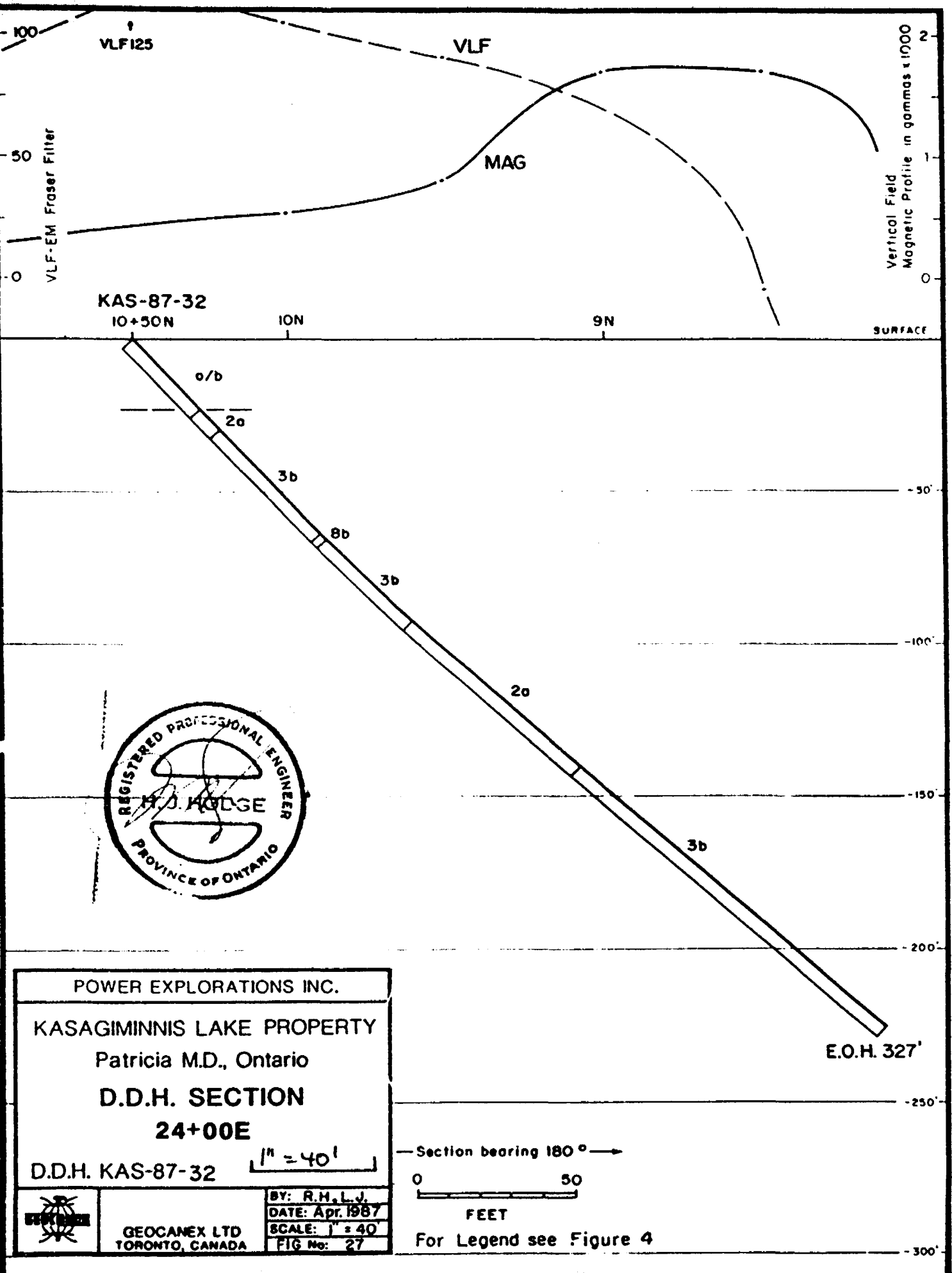
- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics



- Alteration**
- si - silicification
 - se - sericitization
 - ch - chloritization
 - ca - carbonatization

- Mineralization**
- s - sulphides
 - po - pyrrhotite
 - py - pyrite
 - cp - chalcopyrite
 - As - arsenopyrite
 - sp - sphalerite
 - Ga - galena
 - Mo - Molybdenite
 - gf - Graphite

Fig. 4



**LEGEND FOR DIAMOND DRILL HOLE SECTIONS
FOR THE KASAGIMINNIS LAKE PROJECT**
Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
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- 7 Mafic to ultramafic intrusives
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- 6 Iron formation
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 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS

- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet) with gold assay in ounces per ton..... 0.01/3.0
- Lost core..... LC

Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite

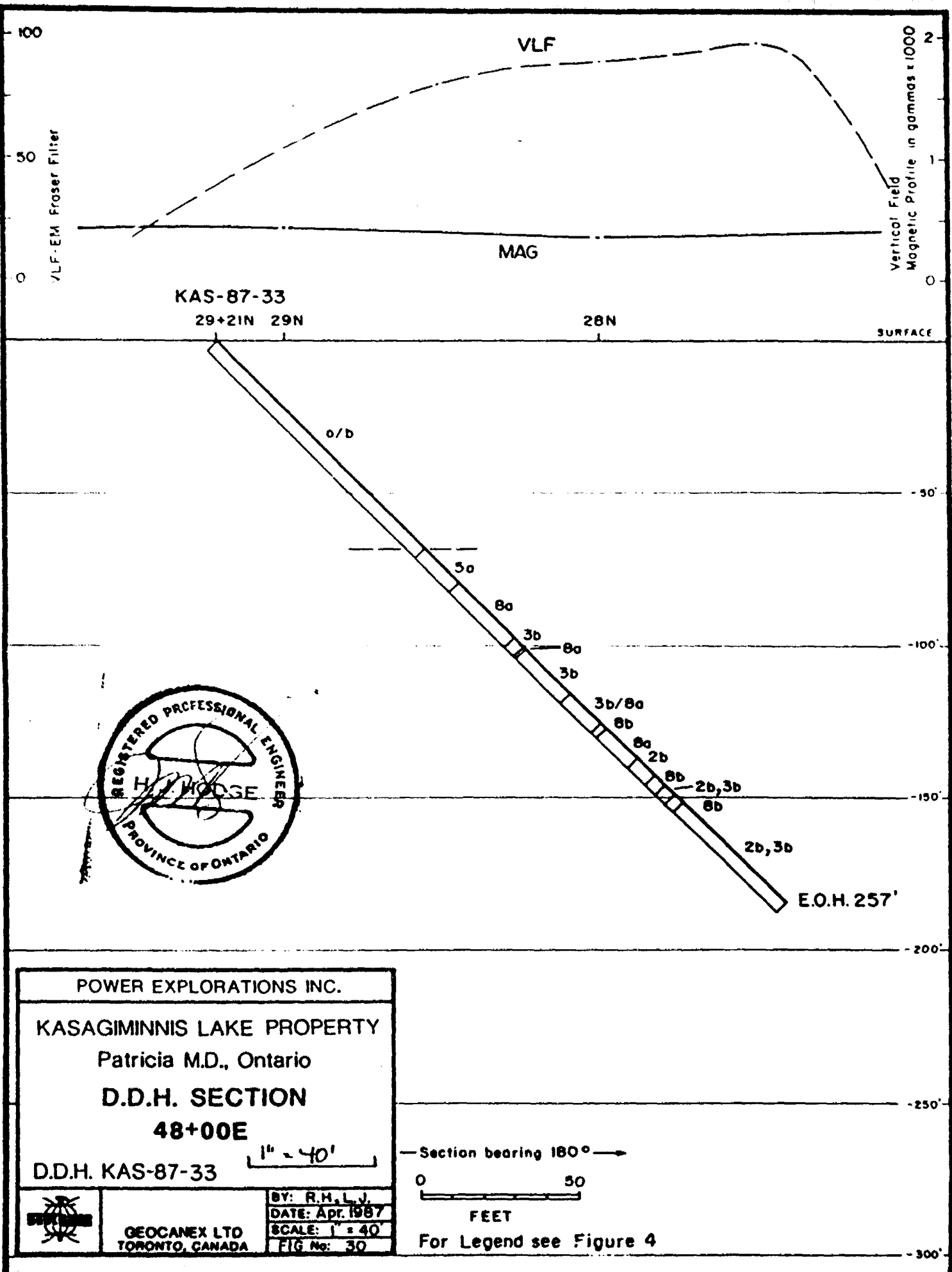
POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
**D.D.H. SECTION
24+00E**
D.D.H. KAS-87-32 1" = 40'

BY: R.H.L.J.
DATE: Apr. 1987
SCALE: 1" = 40'
FIG No: 27

GEOCANEX LTD
TORONTO, CANADA

Section bearing 180°
0 50 FEET
For Legend see Figure 4

Fig. 4



LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

q.v.c.v. Quartz/carbonate veins

8 Intermediate and felsic intrusives
 8a Granite
 8b Diorite
 8c Granite gneiss
 8d Porphyry, quartz/feldspar

7 Mafic to ultramafic intrusives
 7a Gabbro, diabase
 7b Peridotite

6 Iron formation
 6a Oxide facies
 6b Carbonate facies
 6c Silicate facies
 6d Sulphide facies

5 Clastic sediments
 5a Wacke
 5b Mudstone, argillite
 5c Siltstone

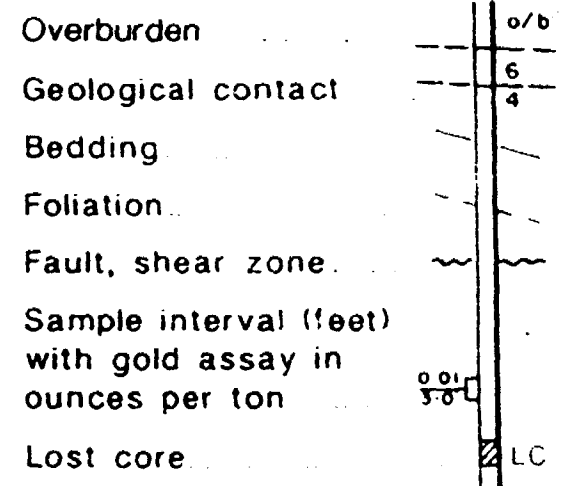
4 Felsic volcanics
 4a Flows
 4b Tuff, lapilli tuff
 4c Breccia, agglomerate

3 Intermediate volcanics
 3a Flows
 3b Tuff, lapilli tuff
 3c Breccia, agglomerate

2 Mafic volcanics
 2a Flows
 2b Tuff, lapilli tuff
 2c Breccia, agglomerate
 2d Amphibolite

1 Ultramafic volcanics

SYMBOLS



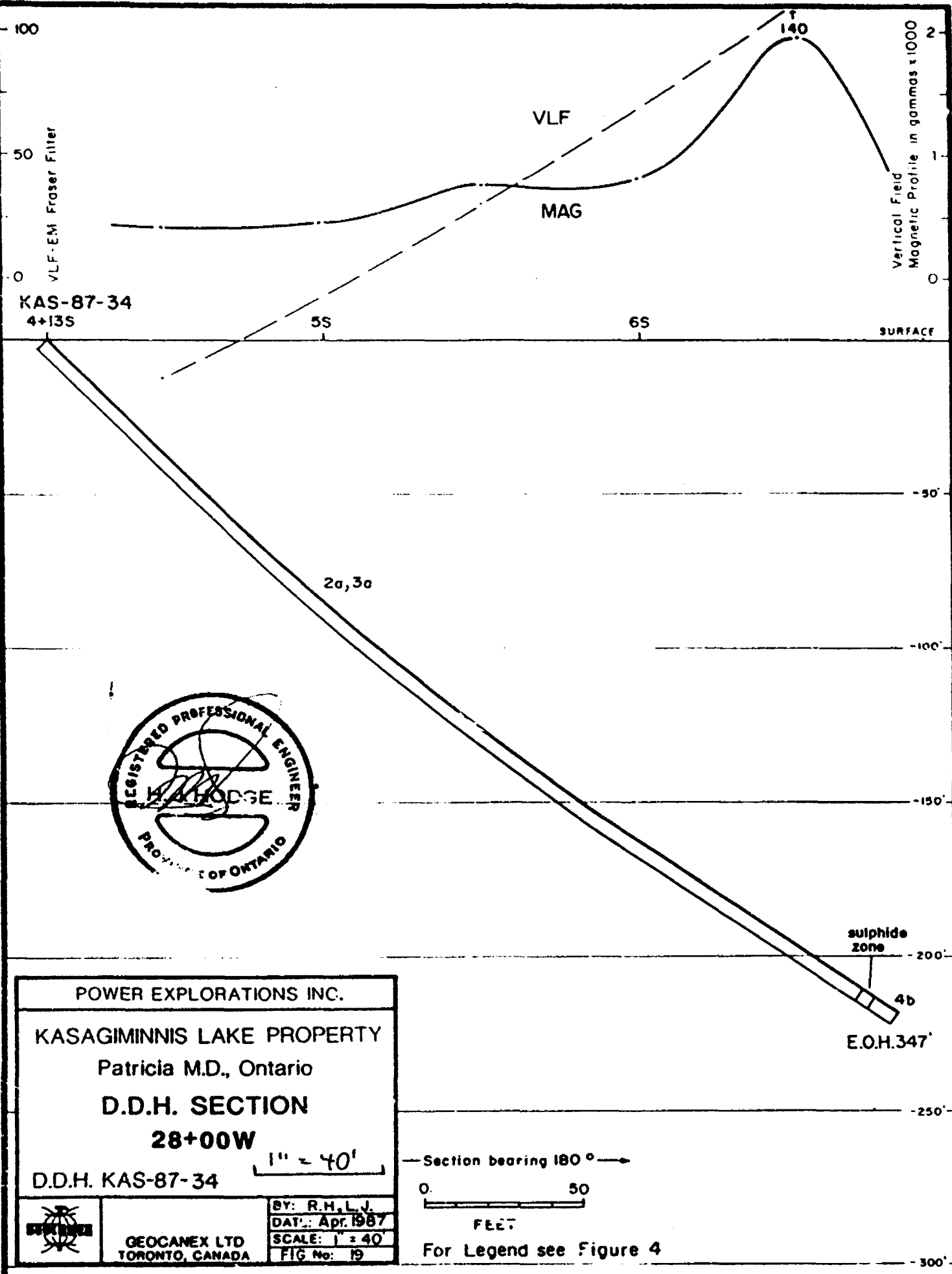
Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite

Fig. 4



**LEGEND FOR DIAMOND DRILL HOLE SECTIONS
FOR THE KASAGIMINNIS LAKE PROJECT**

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
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 - 4a Flows
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 - 4c Breccia, agglomerate
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 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS

- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet)
with gold assay in
ounces per ton..... 0.01/3.0
- Lost core..... LC

- Alteration**
- si - silicification
 - se - sericitization
 - ch - chloritization
 - ca - carbonatization

- Mineralization**
- s - sulphides
 - po - pyrrhotite
 - py - pyrite
 - cp - chalcopyrite
 - As - arsenopyrite
 - sp - sphalerite
 - Ga - galena
 - Mo - Molybdenite
 - gf - Graphite

POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
**D.D.H. SECTION
28+00W**
D.D.H. KAS-87-34

1" = 40'

Section bearing 180°

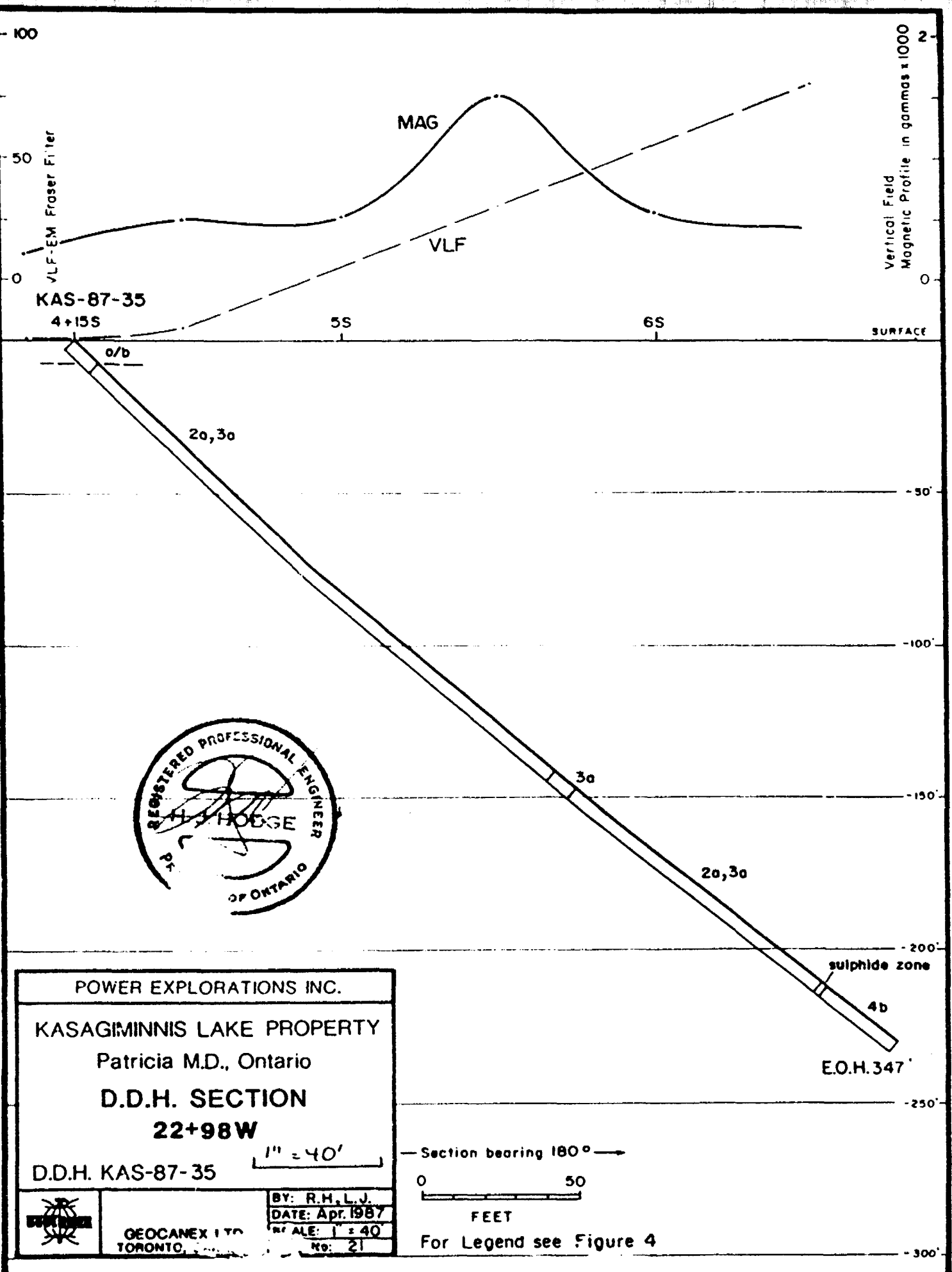
0 50 FEET

For Legend see Figure 4

BY: R.H.L.J.
DATE: Apr. 1987
SCALE: 1" = 40'
FIG No: 19

GEOCANEX LTD
TORONTO, CANADA

Fig. 4



LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
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 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
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 - 6b Carbonate facies
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 - 4b Tuff, lapilli tuff
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- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS

- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet) with gold assay in ounces per ton..... 0.01/3.0
- Lost core..... LC

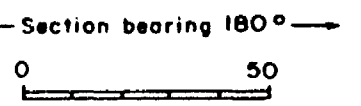
Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite

POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
D.D.H. SECTION 22+98W
 D.D.H. KAS-87-35
 1" = 40'
 BY: R.H.L.J.
 DATE: Apr. 1987
 SCALE: 1" = 40'
 No. 21
 GEOCANEX LTD.
 TORONTO, ONTARIO



For Legend see Figure 4

Fig. 4

APPENDIX E
ASSAY CERTIFICATES

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341



J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Geocanex - Kasagiminnis Lake Project

ASSAY CERTIFICATE

Date: December 18, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
17001	D. D.	Trace	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		.01	
09		Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		Tr	
20		Tr	
21		Tr	
22		Tr	
23		.01	
24		Tr	

Total assays for December 18, 1986 - 24

Assayer: _____

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 882-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Geocanex - Kasagiminnis Lake Project

ASSAY CERTIFICATE

Date: December 24, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
17025	D. D.	Trace	
26		Tr	
27		Tr	
28		Tr	
29		.01	
30		.02	
31		Tr	
32		Tr	
33		Tr	
34		.01	
35		Tr	
36		Tr	
37		Tr	
38		.01	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
43		Tr	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 862-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"

~~Cochonex~~ - Kasagiminnis Lake Project

ASSAY CERTIFICATE

Date: December 24, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
17 049	D. D.	Trace	
50		.01	
51		Tr	
52		Tr	
53		Tr	
54		.01	
55		.01	
56		Tr	
57		Tr	
58		Tr	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63	To follow		
64		.01	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		Tr	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3347



J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"

Geocanex - Kasagiminnis Lake Project

ASSAY CERTIFICATE

Date: December 24, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
17073	D. D.	Trace	
74		.01	
75		Tr	
76		Tr	
77		Tr	
78		.01	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
Total assays for December 24, 1986 - 61			

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341



J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Geocanex - Kasagiminnis Lake Project **ASSAY CERTIFICATE**

Date: January 13, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17086	D. D.	Trace	
87		Tr	
88		Tr	
89		Tr	
90		Tr	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		Tr	
99		Tr	
17100		Tr	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341



J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"

ASSAY CERTIFICATE

Date: January 13, 1987

Chocanex - Kasagiminnis Lake Project

Sample No.	Description	oz/ton Au	oz/ton Ag
17110	D. D.	Trace	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		Tr	
20		Tr	
21		Tr	
22		Tr	
23		Tr	
24		Tr	
25		Tr	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		Tr	
31		Tr	
32		Tr	
33		Tr	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2221
Res. 662-334

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"

Geoanex - Kasagiminnis Lake Project

ASSAY CERTIFICATE

Date: January 13, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17134	D. D.	Trace	
35		Tr	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
43		Tr	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
Total assays for January 13, 1987 - 64			

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"

ASSAY CERTIFICATE

Date: January 22, 1987

Cochonox - Kasagiminnis Project

Sample No.	Description	oz/ton Au	oz/ton Ag
17166	D. D.	Trace	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		.01	
76		Tr	
77		.02	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	
89		Tr	

Assayer: J. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2226
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.



"Assaying for over 30 Years"

Coocanex Nasagiminnis Property

ASSAY CERTIFICATE

Date: January 22, 1987

Sample No.	Description	¢ oz/ton Au	oz/ton Ag
17190	D. D.	Trace	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		Tr	
99		Tr	
17200		Tr	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		8X Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	

Assayer: J. Beck

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ASSAY CERTIFICATE

Date: January 22, 1987

Geocanex - Kasagiminnis PROJECT

Sample No.	Description	oz/ton Au	oz/ton Ag
17214		Trace	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		Tr	
20		.01	
21		.19	
22		.04	
23		.23	
24		.03	
25		.03	
26		.02	
27		Tr	
28		Tr	
29		.10	
30		.04	
31		Tr	
32		Tr	
33		Tr	
34		Tr	
35		Tr	
36		Tr	
37		Tr	

Assayer: J.W. Beck

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ASSAY CERTIFICATE

Date: January 22, 1987

Geonax - Kasagiminnis Project

Sample No.	Description	oz/ton Au	oz/ton Ag
17238	D. D,	Trace	
39		Tr	
40		Tr	
41		Tr	
42		.01	
43		Tr	
44		.01	
45		Tr	
46		Tr	
47		Tr	
48		.01	
49		.01	
50		Tr	
51		Tr	
52		Tr	
53		Tr	
54		Tr	
55		Tr	
56		Tr	
57		Tr	
58		Tr	
59		.01	
60		Tr	
61		Tr	

Assayer: J.W. Beck

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Res. 662-3341

J.W. Beck, Assayer,
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Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: January 22, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17262	D. D.	Trace	
63		Tr	
64		Tr	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		Tr	
76		.01	
77		.01	
78		.01	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		.01	
85		.02	

Assayer: J.W. Beck

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Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: January 22, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17286	D. D.	Trace	
87		.01	
88		Tr	
89		Tr	
90		Tr	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
Total assays for January 22, 1987 - 131			

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: January 23, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17297	D. D.	Trace	
98		Tr	
99		Tr	
17300		Tr	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		Tr	
20		Tr	

Assayer: J.W. Beck

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ASSAY CERTIFICATE

Date: January 23, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17321	D. D.	Trace	
22		Tr	
23		Tr	
24		Tr	
25		Tr	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		.01	
31		Tr	
32		Tr	
33		Tr	
34		Tr	
35		Tr	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
43		Tr	
44		Tr	

Assayer: J. Beck

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ASSAY CERTIFICATE

Date: January 23, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17345	D. D.	Trace	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		Tr	
52		Tr	
53		Tr	
54		Tr	
55		Tr	
56		Tr	
57		Tr	
58		Tr	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		Tr	
65		Tr	
66		Tr	
67		Tr	
68		Tr	

Assayer: J.W. Beck

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Res. 662-3341



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"Assaying for over 30 Years"
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ASSAY CERTIFICATE

Date: January 23, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17369	D. D.	.01	
70		Trace	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		Tr	
76		Tr	
77		Tr	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		.58	
88		Tr	
89		1.40	
90		Tr	
91		Tr	
92		Tr	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-222
Res. 682-334



J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: January 27, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17369	D. D. Revised sheet for Jan. 23. 1987	Trace	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		Tr	
76		Tr	
77		Tr	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87	in error on Jan 23, 1987	Tr	
88		Tr	
89	in error on Jan. 23, 1987	Tr	
90		Tr	
91		Tr	
92		Tr	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2221
Res. 862-334

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"

ASSAY CERTIFICATE

Date: Jan. 28, 1987.

Kaga Imminis

Sample No.	Description	oz/ton Au	oz/ton Ag
17398	D.D.	.01	
99		.03	
17400		.01	
01		.01	
02		Trace	
03		Tr	
04		Tr	
05		Tr	
06		.01	
07		Trace	
08		.01	
09		Trace	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		Tr	
20		Tr	
21		Tr	

Assayer: J.W. Beck



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Res. 662-3347

J.W. Beck, Assayer,
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"Assaying for over 30 Years"

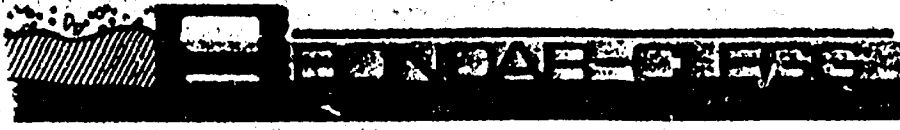
ASSAY CERTIFICATE

Date: Jan 28, 1987

Kasajimnis

Sample No.	Description	oz/ton Au	oz/ton Ag
17422	D.D.	x88	
17422	D.D.	Trace	
Total assays for Jan 38, 1987: 25			

Assayer: *J.W. Beck*



REPORT: 417-0349

PROJECT: R2

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	+150WT gms	AU-150 O/T	AG+150 O/T	AU AG O/T	-150WT gms
3101		5.82	<0.001	0.001	<0.001	329.80
3102		7.91	<0.001	<0.001	<0.001	285.23
3103		6.59	<0.001	<0.001	<0.001	306.90

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2221
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: February 3, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17442	D. D.	TRACE	
43		TR	
44		TR	
45		TR	
46		TR	
47		TR	
48		TR	
49		TR	
50		TR	
51		TR	
52		TR	
53		TR	
54		TR	
55		TR	
56		TR	
57		TR	
58		TR	
59		TR	
60		TR	
61		TR	
62		TR	
63		T\$	
64		TR	
65		TR	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2221
Res. 662-334



J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: February 3, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17466	D. D,	TRACE	
67		TR	
68		TR	
69		TR	
70		TR	
71		TR	
72		TR	
73		TR	
74		TR	
75		TR	
76		TR	
77		TR	
3001		TR	
02		TR	
03		TR	
04		TR	
05		TR	
06		TR	
07		TR	
08		TR	
09		TR	
10		TR	
11		TR	
12		TR	

Assayer: *J.W. Beck*

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Res. 662-334



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Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: February 3, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
3013	D. D.	TRACE	
14		TR	
15		TR	
16		TR	
3043		TR	
44		TR	
45		TR	
46		TR	
47		TR	
48		TR	
49		TR	
50		TR	
51		TR	
52		TR	
53		TR	
54		TR	
55		TR	
56		TR	
57		TR	
Total assays for February 3, 1987 - 67			

Assayer: *J.W. Beck*

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J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Geocanex - Kasagiminnis Property

ASSAY CERTIFICATE

Date: February 4, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
3017	D. D.	TRACE	
18		TR	
19		TR	
20		TR	
21		TR	
22		TR	
23		TR	
24		TR	
25		TR	
26		TR	
27		TR	
28		TR	
29		TR	
30		TR	
31		TR	
32		TR	
33		TR	
34		TR	
35		TR	
36		TR	
37		TR	
38		TR	
39		TR	
40		TR	

Assayer: J.W. Beck

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Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Geocanex - Kasagiminnis Property

ASSAY CERTIFICATE

Date: February 4, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
3041	D. D.	TRACE	
42		TR	
3059		TR	
60		TR	
61		TR	
62		TR	
63		TR	
64		TR	
65		TR	
66		TR	
67		TR	
68		TR	
69		TR	
70		TR	
71		TR	
72		TR	
73		TR	
74		TR	
75		TR	
76		TR	
77		TR	
78		TR	
79		TR	
80		TR	

Assayer: J.W. Beck

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J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: February 4, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17423	D. D.	TRACE	
24		TR	
25		TR	
26		TR	
27		TR	
28		TR	
29		TR	
30		TR	
31		TR	
32		TR	
33		TR	
34		TR	
35		TR	
36		TR	
37		TR	
38		TR	
39		TR	
40		TR	
41		TR	
17478		TR	
79		TR	
80		TR	
81		TR	
82		TR	

Assayer: *J.W. Beck*

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Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: February 4, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
17483	D. D.	TRACE	
84		TR	
85		TR	
86		TR	
87		TR	
88		TR	
89		TR	
90		TR	
91		TR	
92		TR	
93		TR	
94		TR	
95		TR	
96		TR	
97		TR	
98		TR	
99		TR	
17500		TR	
	Total assays for February 4, 1987 - 90		

Assayer: *J.W. Beck*



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Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: february 7, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
3081	D. D.	TRACE	
82		TR	
83		TR	
84		TR	
85		TR	
86		TR	
87		TR	
88		TR	
89		TR	
90		TR	
91		TR	
92		TR	
93		TR	
94		TR	
95		TR	
96		TR	
97		TR	
98		TR	
99		TR	
3100		TR	
3104		TR	
05		TR	
06		TR	
07		TR	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: February 7, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
3108	D. D.	TRACE	
09		TR	
10		TR	
11		TR	
12		TR	
13		TR	
14		TR	
15		TR	
16		TR	
17		TR	
18		TR	
19		TR	
20		TR	
3134		TR	
35		TR	
36		TR	
37		TR	
38		TR	
39		TR	
40		TR	
41		TR	
42		TR	
43		TR	
44		TR	

Assayer: J.W. Beck

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Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: February 7, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
3145	D. D.	TRACE	
46		TR	
47		TR	
48		TR	
49		TR	
50		TR	
51		TR	
52		TR	
53		TR	
54		TR	
55		TR	
56		TR	
57		TR	
58		TR	
59		TR	
60		TR	
61		TR	
62		TR	
63		TR	
64		TR	
65		TR	
66		TR	
67		TR	
68		TR	

Assayer: J.W. Beck

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ASSAY CERTIFICATE

Date: February 7, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
3169	D. D.	TRACE	
70		TR	
71		TR	
72		TR	
73		TR	
74		TR	
75		TR	
67		TR	
77		TR	
78		TR	
79		TR	
80		TR	
81		TR	
82		TR	
83		TR	
84		TR	
85		TR	
86		TR	
87		TR	
88		TR	
89		TR	
90		TR	
91		TR	
92		TR	

Assayer: J.W. Beck

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ASSAY CERTIFICATE

Date: February 7, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
3193	D. D.	TRACE	
94		TR	
95		TR	
96		TR	
97		TR	
98		TR	
99		TR	
3200		TR	
01		TR	
02		TR	
03		TR	
04		TR	
05		TR	
06		TR	
07		TR	
08		TR	
09		TR	
10		TR	
11		TR	
12		TR	
13		TR	
14		TR	
15		TR	
Total assays for February 7, 1987 - 119			

Assayer: J.W. Beck

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Res. 662-334

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Box 43, Cochenour, Ont.

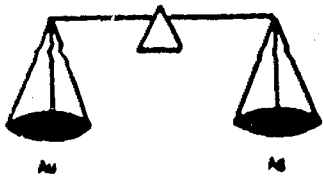
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Geocanex - Kasagiminnis Project

ASSAY CERTIFICATE

Date: February 10, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
3121	D. D.	TRACE	
22		TR	
23		TR	
24		TR	
25		TR	
26		TR	
27		TR	
28		TR	
29		TR	
30		TR	
31		TR	
32		TR	
33		TR	
Total assays for February 10, 1987 - 13			

Assayer: J.W. Beck



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 862-8171
Res. (807) 862-3361

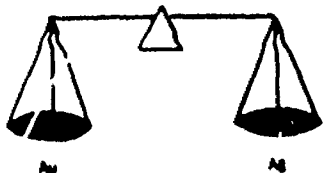
PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario P0V 1L0

Geocanex Ltd.

ASSAY CERTIFICATE

Date: Feb. 17, 1987.

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	3216	Kasagininnis	Trace	
2	17		"	
3	18		"	
4	19		"	
5	20		"	
6	21		"	
7	22		"	
8	23		"	
9	24		"	
10	25		"	
11	26		"	
12	27		"	
13	28		"	
14	29		"	
15	30		"	
16	31		"	
17	32		"	
18	33		"	
19	34		"	
20	35		"	
21	36		"	
22	37		"	
23	38		"	
24	39		"	
25	40		"	



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Box 253, Cochenour, Ontario P0V 1L0

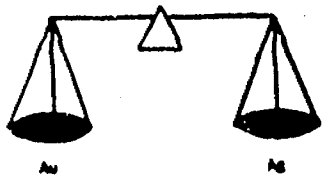
Geocanex Ltd.

ASSAY CERTIFICATE

Date: Feb. 17, 1987.

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	3241	Kasagininnis	Trace	
2	42		"	
3	43		"	
4	44		"	
5	45		"	
6	46		"	
7	47		"	
8	48		"	
9	49		"	
10	50		"	
11			X	
12				
13				
14				
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25				

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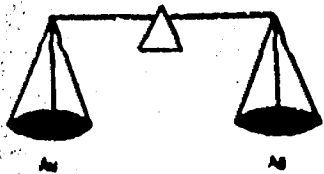
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ASSAY CERTIFICATE

Date: Mar. 3-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	5752	Kasagiminnis Lake	Trace	
2	53		"	
3	54		"	
4	55		"	
5	56		"	
6	57		"	
7	58		"	
8	59		"	
9	60		"	
10	61		"	
11	62		"	
12	63		"	
13	64		"	
14	65		"	
15	66		"	
16	67		"	
17	68		"	
18	69		"	
19	70		"	
20	71		"	
21	72		"	
22	73		"	
23	74		"	
24	75		"	
25	76		"	

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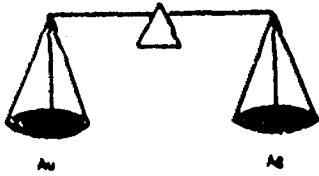
ASSAY CERTIFICATE

Date: Mar. 3-87

Sample No.	Description	oz/ton Au	oz/ton Ag
1	5777 Kasaggminnis Lake	Trace	
2	78	"	
3	79	"	
4	80	"	
5	81	"	
6	82	"	
7	83	"	
8	84	"	
9	85	"	
10	86	"	
11	87	"	
12	88	"	
13	89	"	
14	90	"	
15	91	"	
16	92	"	
17	93	"	
18	94	"	
19	95	"	
20	96	"	
21	97	"	
22	98	"	
23	99	"	
24	5800	"	
25	01	"	

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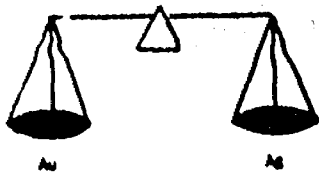
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ASSAY CERTIFICATE

Date: Mar. 3-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	5802	Kasagiminnis Lake	Trace	
2	03		"	
3	04		"	
4	05		"	
5	06		"	
6	07		"	
7	08		"	
8	09		"	
9	10		"	
10	11		"	
11	12		"	
12	13		"	
13	14		"	
14	15		"	
15	16		"	
16	17		"	
17	18		"	
18	19		"	
19	20		"	
20	21		"	
21	22		"	
22	23		"	
23	24		"	
24	25		"	
25	26		"	

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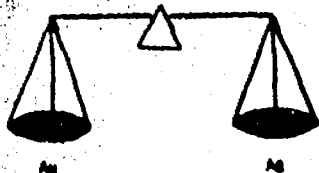
ASSAY CERTIFICATE

Date: Mar. 3-87

Sample No.	Description	oz/ton Au	oz/ton Ag
1	5827 Kasagiminnis Lake	Trace	
2	28	"	
3	29	"	
4	30	"	
5	31	"	
6	32	"	
7	33	"	
8	34	"	
9	35	"	
10	36	"	
11	37	"	
12	38	"	
13	39	"	
14	40	"	
15	41	"	
16	42	"	
17	43	"	
18	44	"	
19	45	"	
20	46	"	
21	47	"	
22	48	"	
23	49	"	
24	50	"	
25	51	"	

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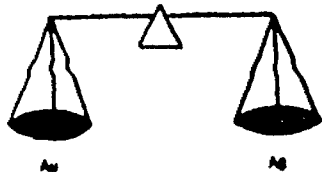
ASSAY CERTIFICATE

Date: Mar. 3-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	5852	K. sagaminnis Lake	Trace	
2	53		"	
3	5861		"	
4	62		"	
5	63		"	
6	64		"	
7	65		"	
8	66		"	
9	67		"	
10	68		"	
11	69		"	
12	70		"	
13	71		"	
14	72		"	
15	73		"	
16	74		"	
17	75		"	
18	76		"	
19	77		"	
20	78		"	
21	79		"	
22	80		"	
23	81		"	
24	82		"	
25	83		"	

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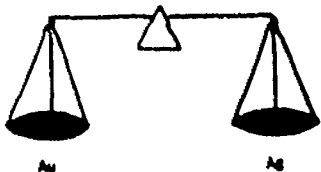
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ASSAY CERTIFICATE

Date: Mar. 3-87

Sample No.	Description	oz/ton Au	oz/ton Ag
1	5884 Kasagaminis Lake	Trace	
2	85	"	
3	86	"	
4	87	"	
5	88	"	
6	89	"	
7	90	"	
8	891	"	
9	92	"	
10	93	"	
11	94	"	
12	95	"	
13	96	"	
14	97	"	
15	98	"	
16	99	"	
17	5900	"	
18	01	"	
19	02	"	
20	03	.32	
21	04	.02	
22	05	Trace	
23	06	"	
24	18155	"	
25	56	"	

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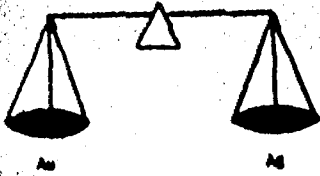
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ASSAY CERTIFICATE

Date: Mar. 3-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	18157	Kasagaminnis Lake	Trace	
2	58		"	
3	59		"	
4	60		"	
5	61		"	
6	62		"	
7	63		"	
8	64		"	
9	65		"	
10	66		"	
11	67		"	
12	68		"	
13	69		"	
14	70		"	
15	71		"	
16	72		"	
17	73		"	
18	74		"	
19	18241		"	
20	42		"	
21	43		"	
22	44		"	
23	45		"	
24	46		"	
25	47		"	

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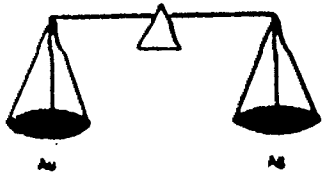
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	Sample No.	Description	oz/ton Au	oz/ton Ag
1	18209	Kasagaminis Lake	Trace	
2	10		"	
3	11		"	
4	12		"	
5	13		"	
6	14		"	
7	15		"	
8	16		"	
9	17		"	
10	18		"	
11	19		"	
12	20		"	
13	21		"	
14	22		"	
15	23		"	
16	24		"	
17	25		"	
18	26		"	
19	27		"	
20	28		"	
21	29		"	
22	30		"	
23	31		"	
24	32		"	
25	33		"	

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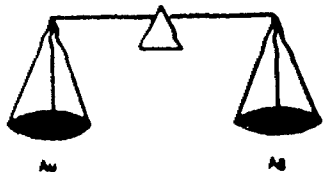
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Date: Mar. 3-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	18234	Kasagaminnis Lake	Trace	
2	35		"	
3	36		"	
4	37		"	
5	38		"	
6	39		"	
7	40		"	
8	18249		"	
9	50		"	
10	51		"	
11	52		"	
12	53		"	
13	54		"	
14	55		"	
15	18156		"	
16	57		"	
17	58		"	
18	59		"	
19	60		"	
20	61		"	
21	62		"	
22	63		"	
23	64		"	
24	65		"	
25	66		"	

~~57~~
~~58~~

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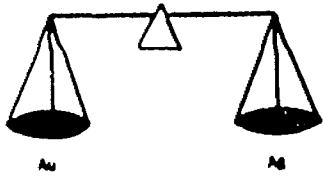
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Date: Mar. 3-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	18167	Kasagaminnis Lake	Trace	
2	68		"	
3	69		"	
4	70		"	
5	71		"	
6	72		"	
7	73		"	
8	74		"	
9	75		"	
10	76		.01	
11	77		Trace	
12	78		"	
13	79		"	
14	80		"	
15	5857		"	
16	58		"	
17	59		"	
18	60		"	
19				
20				
21				
22				
23				
24				
25				

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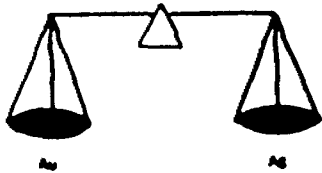
ASSAY CERTIFICATE

Date: Mar. 3-87

Sample No.	Description	oz/ton Au	oz/ton Ag
1	18248 Kasagaminnis Lake	Trace	
2	18281	"	
3	82	.01	
4	83	.01	
5	84	Trace	
6	85	"	
7	86	"	
8	87	.01	
9	88	Trace	
10	89	"	
11	90	"	
12	91	"	
13	18196	"	
14	97	"	
15	98	"	
16	99	"	
17	18200	"	
18	01	"	
19	02	"	
20	03	"	
21	04	"	
22	05	"	
23	06	"	
24	07	"	
25	08	"	

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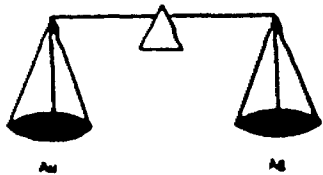
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ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	3263	Kasagininnis	Trace	
2	4		"	
3	5		"	
4	6		"	
5	7		"	
6	70		"	
7	1		"	
8	2		"	
9	3		"	
10	4		"	
11	5		"	
12	6		"	
13	7		"	
14	8		"	
15	9		"	
16	80		"	
17	1		"	
18	2		"	
19	3268		"	
20	9		"	
21	3251		"	
22	2		"	
23	3		"	
24	4		"	
25	5		"	

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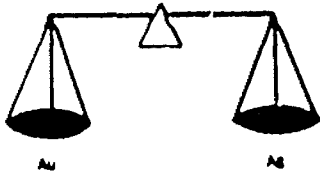
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ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	3256	Kasagininnis	Trace	
2	7		"	
3	8		"	
4	9		"	
5	60		"	
6	1		"	
7	2		"	
8	5701		"	
9	2		"	
10	3		"	
11	4		"	
12	5		"	
13	6		"	
14	7		"	
15	8		"	
16	9		"	
17	10		"	
18	1		"	
19	2		"	
20	3		"	
21	4		"	
22	5		"	
23	6		"	
24	7		"	
25	8		"	

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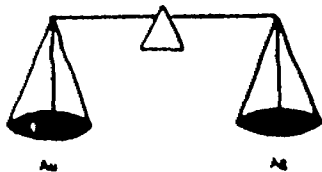
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Date: Mar 11, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
1	5719 Kasagininnis	.02	
2	20	Trace	
3	1	"	
4	2	"	
5	3	"	
6	4	"	
7	5	"	
8	5907	"	
9	8	"	
10	9	"	
11	10	"	
12	1	"	
13	2	"	
14	3	"	
15	4	"	
16	5	"	
17	6	"	
18	7	"	
19	8	"	
20	9	"	
21	20	"	
22	1	"	
23	2	"	
24	5937	"	
25	8	"	

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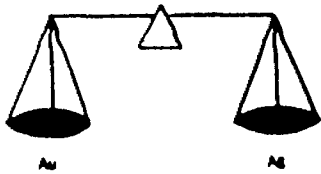
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ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	5939	Kasagininnis	Trace	
2	40		"	
3	1		"	
4	2		"	
5	3		"	
6	4		"	
7	5		"	
8	6		"	
9	7		"	
10	8		"	
11	9		"	
12	50		"	
13	1		"	
14	2		"	
15	3		"	
16	4		"	
17	5		"	
18	6		"	
19	7		"	
20	8		"	
21	9		"	
22	60		"	
23	1		"	
24	2		"	
25	3		"	

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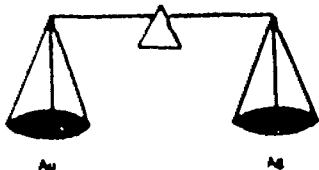
ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	5964	Kasagininnis	Trace	
2	5		"	
3	6		"	
4	7		"	
5	8		"	
6	9		"	
7	70		"	
8	1		"	
9	2		"	
10	3		"	
11	4		"	
12	5		"	
13	6		"	
14	7		"	
15	8		"	
16	9		"	
17	80		"	
18	1		"	
19	2		"	
20	3		"	
21	4		"	
22	5		"	
23	6		"	
24	7		"	
25	8		"	

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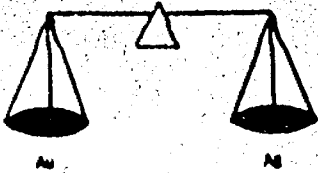
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ASSAY CERTIFICATE

Date: Mar 11, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
1	5989 Kasagininnis	Trace	
2	90	"	
3	1	"	
4	2	"	
5	3	"	
6	4	"	
7	5	"	
8	6	"	
9	7	"	
10	8	"	
11	9	"	
12	6000	"	
13	8001	.01	
14	2	Trace	
15	3	"	
16	4	"	
17	5	"	
18	6	"	
19	7	"	
20	8	"	
21	9	"	
22	10	"	
23	1	"	
24	2	"	
25	3	"	

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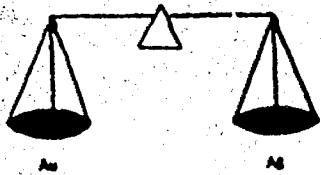
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ASSAY CERTIFICATE

Date: Mar 11, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
1	8014 Kasagininnis	Trace	
2	5	"	
3	6	"	
4	7	"	
5	8	"	
6	9	"	
7	20	"	
8	1	"	
9	2	"	
10	3	"	
11	4	"	
12	5	"	
13	6	"	
14	7	"	
15	8	"	
16	9	"	
17	30	"	
18	1	"	
19	2	"	
20	3	"	
21	4	"	
22	5	"	
23	6	"	
24	7	"	
25	8	"	

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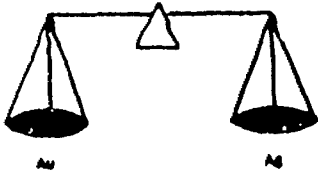
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ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	8039	Kasagininnis	Trace	
2	40		"	
3	1		"	
4	2		"	
5	3		"	
6	4		"	
7	5		"	
8	6		"	
9	7		"	
10	8		"	
11	9		"	
12	50		"	
13	1		"	
14	2		"	
15	3		"	
16	4		"	
17	5		"	
18	6		"	
19	7		"	
20	8		"	
21	9		"	
22	60		"	
23	1		"	
24	2		"	
25	3		"	

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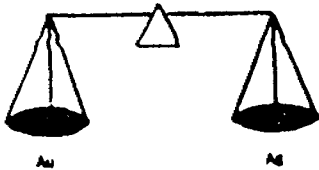
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ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	8064	Kasagininnis	Trace	
2	5		"	
3	6		"	
4	7		"	
5	8		"	
6	9		"	
7	70		"	
8	1		"	
9	2		"	
10	3		"	
11	4		"	
12	5		"	
13	6		"	
14	7		"	
15	8		"	
16	9		"	
17	80		"	
18	1		"	
19	2		"	
20	3		"	
21	4		"	
22	5		"	
23	6		"	
24	7		"	
25	8		"	

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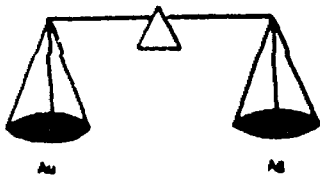
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ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	8089	Kasagininnis	Trace	
2	90		"	
3	1		"	
4	2		"	
5	3		"	
6	4		"	
7	5		"	
8	6		"	
9	7		"	
10	8		"	
11	9		"	
12	8100		"	
13	1		"	
14	2		"	
15	3		"	
16	4		"	
17	5		"	
18	6		"	
19	7		"	
20	8		"	
21	9		"	
22	10		"	
23	1		"	
24	2		"	
25	3		"	

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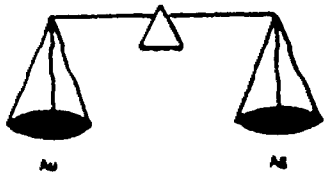
Geocanex Ltd.

ASSAY CERTIFICATE

Date: Mar 11, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
1	8114 Kasagininnis	Trace	
2	5	"	
3	6	"	
4	7	"	
5	8	"	
6	9	"	
7	20	"	
8	1	"	
9	2	"	
10	3	"	
11	4	"	
12	5	"	
13	6	"	
14	7	"	
15	8	"	
16	9	"	
17	8201	"	
18	2	"	
19	3	"	
20	4	"	
21	5	"	
22	6	"	
23	7	"	
24	8	"	
25	9	"	

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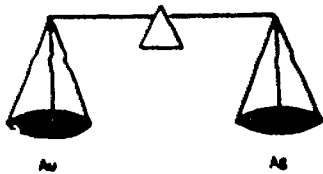
Geccanex Ltd.

ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	8210	Kasagininnis	Trace	
2	1		"	
3	2		"	
4	3		"	
5	4		"	
6	5		"	
7	6		"	
8	7		"	
9	8		"	
10	9		"	
11	20		"	
12	1		"	
13	2		"	
14	3		"	
15	4		"	
16	5		"	
17	6		"	
18	7		"	
19	8		"	
20	9		"	
21	30		"	
22	1		"	
23	2		"	
24	3		"	
25	4		"	

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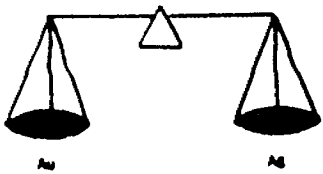
Geocanex Ltd.

ASSAY CERTIFICATE

Date: Mar 11, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
1	8235 Kasagininnis	Trace	
2	6	"	
3	7	"	
4	8	"	
5	9	"	
6	40	"	
7	1	"	
8	2	"	
9	3	"	
10	4	"	
11	5	"	
12	6	"	
13	7	"	
14	8	"	
15	9	"	
16	50	"	
17	1	"	
18	2	"	
19	17719	"	
20	20	"	
21	1	"	
22	2	"	
23	3	"	
24	4	"	
25	5	"	

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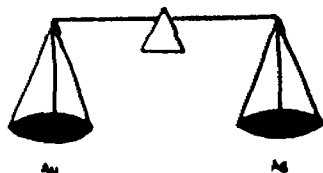
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ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	17726	Kasagininnis	Trace	
2	7		"	
3	8		"	
4	17777		"	
5	8		"	
6	9		"	
7	80		"	
8	1		"	
9	2		"	
10	3		"	
11	4		"	
12	5		"	
13	6		"	
14	17809		"	
15	10		"	
16	1		"	
17	2		"	
18	3		"	
19	4		"	
20	5		"	
21	6		"	
22	7		"	
23	8		"	
24	9		"	
25	20		"	

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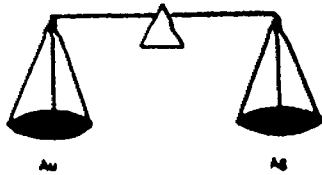
ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	17821	Kasagininnis	Trace	
2	2		"	
3	3		"	
4	4		"	
5	5		"	
6	6		"	
7	7		"	
8	8		"	
9	9		"	
10	30		"	
11	1		"	
12	2		"	
13	3		"	
14	4		"	
15	17930		"	
16	1		"	
17	2		"	
18	3		"	
19	4		"	
20	5		"	
21	6		"	
22	7		"	
23	8		"	
24	9		"	
25	40		"	

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Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	17941	Kasagininnis	Trace	
2	2		"	
3	3		"	
4	4		"	
5	5		"	
6	6		"	
7	7		"	
8	8		"	
9	9		"	
10	50		"	
11	1		"	
12	2		"	
13	3		"	
14	4		"	
15	5		"	
16	6		"	
17	7		"	
18	8		"	
19	9		"	
20	60		"	
21	1		"	
22	2		"	
23	3		"	
24	4		"	
25	5		"	

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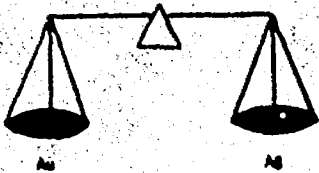
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ASSAY CERTIFICATE

Date: Mar 11, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
1	17966	Kasagininnis	Trace
2	7		"
3	8		"
4	9		"
5	17980		"
6	1		"
7	2		"
8	3		"
9	4		"
10	5		"
11	6		"
12	7		"
13	8		"
14	9		"
15	90		"
16	1		"
17	2		"
18	3		"
19	4		"
20	5		"
21	6		"
22	7		"
23	8		"
24	9		"
25	18000		"

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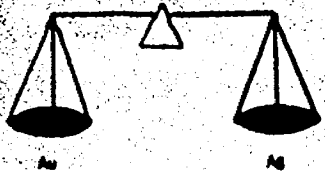
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ASSAY CERTIFICATE

Date: Mar 11, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	18101	Kasagininnis	Trace	
2	2		"	
3	3		"	
4	4		"	
5	5		"	
6	6		"	
7	7		"	
8	8		"	
9	9		"	
10	10		"	
11	1		"	
12	2		"	
13	3		"	
14	4		"	
15	5		"	
16	6		"	
17	7		"	
18	8		"	
19	9		"	
20	20		"	
21	1		"	
22	2		"	
23	3		"	
24	4		"	
25	5		"	

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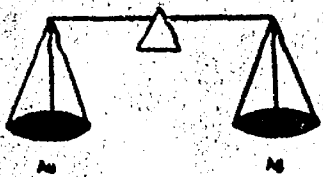
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ASSAY CERTIFICATE

Date: Mar 11, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
1 18126	Kasagininnis	Trace	
2 7		"	
3 18292		"	
4 3		"	
5 4		"	
6 5		"	
7 6		"	
8 7		"	
9 8		"	
10 9		"	
11 18300		"	
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

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ASSAY CERTIFICATE

Date: Mar. 17-87

Sample No.	Description	oz/ton Au	oz/ton Ag
1	5726 Kasagaminnis Lake	Trace	
2	27	"	
3	28	"	
4	29	"	
5	30	"	
6	31	"	
7	32	"	
8	33	"	
9	34	"	
10	35	"	
11	36	"	
12	37	"	
13	38	"	
14	39	"	
15	40	"	
16	41	"	
17	42	"	
18	43	"	
19	44	"	
20	45	"	
21	46	"	
22	47	"	
23	48	"	
24	49	"	
25	50	"	

ASSAYER

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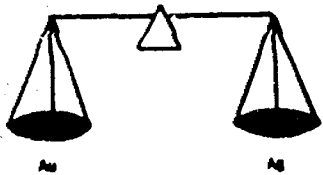
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ASSAY CERTIFICATE

Date: Mar. 17-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	5751	Kasagaminnis Lake	Trace	
2	5854		"	
3	55		"	
4	56		"	
5	5923		"	
6	24		"	
7	25		"	
8	26		"	
9	27		"	
10	28		"	
11	29		"	
12	30		"	
13	31		"	
14	32		"	
15	33		"	
16	34		"	
17	35		"	
18	36		"	
19	17704		"	
20	05		"	
21	06		"	
22	07		"	
23	17740		"	
24	41		"	
25	42		"	

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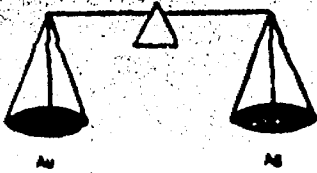
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ASSAY CERTIFICATE

Date: Mar. 17-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	17743	KAAsagaminnis Lake	Trace	
2	44		"	
3	45		"	
4	46		"	
5	47		"	
6	48		"	
7	49		"	
8	50		"	
9	51		"	
10	52		"	
11	17787		"	
12	88		"	
13	89		"	
14	90		"	
15	91		"	
16	92		"	
17	93		"	
18	94		"	
19	95		"	
20	96		"	
21	97		"	
22	98		"	
23	99		"	
24	17800		"	
25	01		"	

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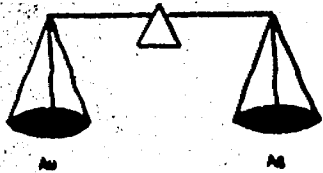
Geocanex Ltd.

ASSAY CERTIFICATE

Date: Mar. 17-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	17802	Kasagaminnis Lake	Trace	
2	17894		"	
3	95		"	
4	96		"	
5	97		"	
6	98		"	
7	99		"	
8	17900		"	
9	01		"	
10	02		"	
11	03		"	
12	04		"	
13	05		"	
14	06		"	
15	07		"	
16	17970		"	
17	71		"	
18	72		"	
19	73		"	
20	74		"	
21	75		"	
22	76		"	
23	77		"	
24	78		"	
25	79		"	

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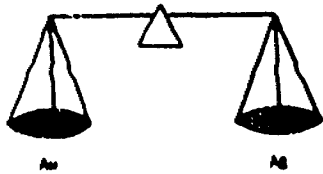
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ASSAY CERTIFICATE

Date: Mar. 17-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	18128	Kasagamins Lake	Trace	
2	29		"	
3	30		"	
4	31		"	
5	32		"	
6	33		"	
7	34		"	
8	35		"	
9	36		"	
10	37		"	
11	38		"	
12	39		"	
13	40		"	
14	41		"	
15	42		"	
16	43		"	
17	44		"	
18	45		"	
19	46		"	
20	47		"	
21	48		"	
22	49		"	
23	50		"	
24	51		"	
25	52		"	

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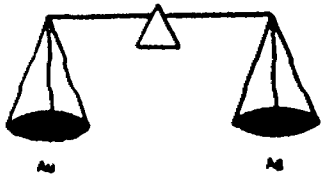
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ASSAY CERTIFICATE

Date: Mar. 17-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	1815X3	Kasagaminnis Lake	Trace	
2	54		"	
3	18175		"	
4	76		"	
5	77		"	
6	78		"	
7	79		"	
8	80		"	
9	81		"	
10	82		"	
11	83		"	
12	84		"	
13	85		"	
14	86		"	
15	87		"	
16	88		"	
17	89		"	
18	90		"	
19	91		"	
20	92		"	
21	93		"	
22	94		"	
23	95		"	
24				
25				

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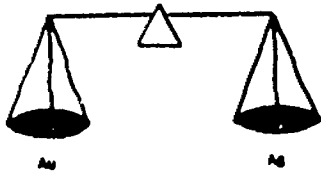
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ASSAY CERTIFICATE

Date: Mar 18, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	3283	Kasagiminnis	Trace	
2	4		"	
3	5		"	
4	6		"	
5	7		"	
6	8		"	
7	9		"	
8	90		"	
9	1		"	
10	2		"	
11	3		"	
12	4		"	
13	5		"	
14	6		"	
15	7		"	
16	8		"	
17	9		"	
18	3300		"	
19	17701		"	
20	2		"	
21	3		"	
22	8		"	
23	9		"	
24	10		"	
25	2		"	

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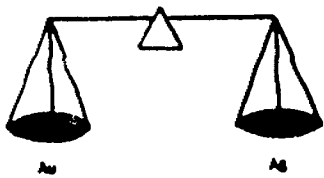
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ASSAY CERTIFICATE

Date: Mar 18, 1987

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	17713	Kasagaminnis	Trace	
2	4		"	
3	5		"	
4	6		"	
5	7		"	
6	8		"	
7	17729		"	
8	30		"	
9	1		"	
10	2		"	
11	3		"	
12	4		"	
13	5		"	
14	6		"	
15	7		"	
16	8		"	
17	9		"	
18	17753		"	
19	4		"	
20	5		"	
21	6		"	
22	7		"	
23	8		"	
24	9		"	
25	17760		"	

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Res. (807) 662-3381

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario P0V 1L0

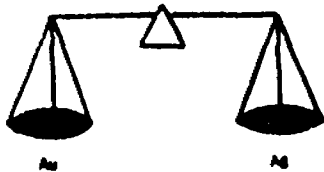
Geocanex Ltd.

ASSAY CERTIFICATE

Date: Mar 18, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
1 17761	Kasagiminnis	Trace	
2 2		"	
3 3		"	
4 4		"	
5 5		"	
6 17835		"	
7 6		"	
8 7		"	
9 8		"	
10 9		"	
11 40		"	
12 1		"	
13 2		"	
14 3		"	
15 4		"	
16 5		"	
17 6		"	
18 7		"	
19 8		"	
20 9		"	
21 50		"	
22 1		"	
23 2		"	
24 3		"	
25 4		"	

Assayer: *Paul Okanski*



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8171
Res. (807) 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario P0V 1L0

Geocanex Ltd.

ASSAY CERTIFICATE

Date: Mar 18, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
1	17803 Kasagiminnis	Trace	
2	4	"	
3	5	"	
4	6	"	
5	7	"	
6	8	"	
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

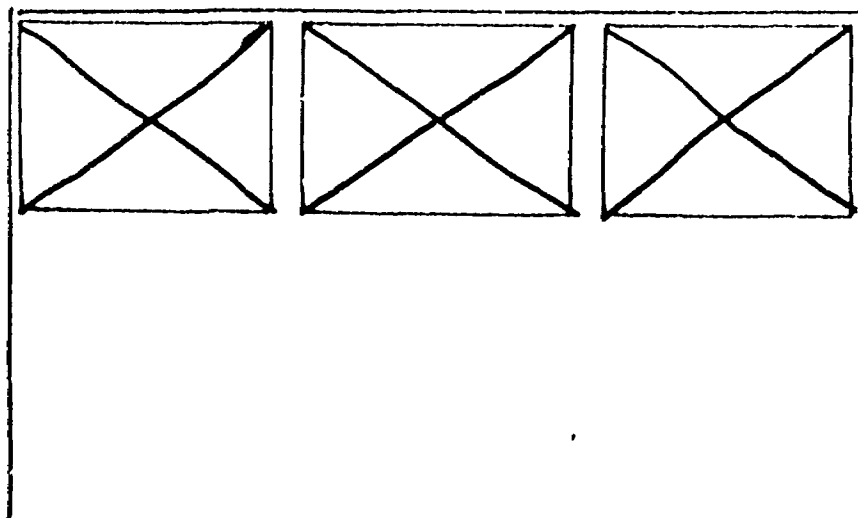
ASSAYER Paul Okanski

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

520/08SW-0015 # 1-3

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

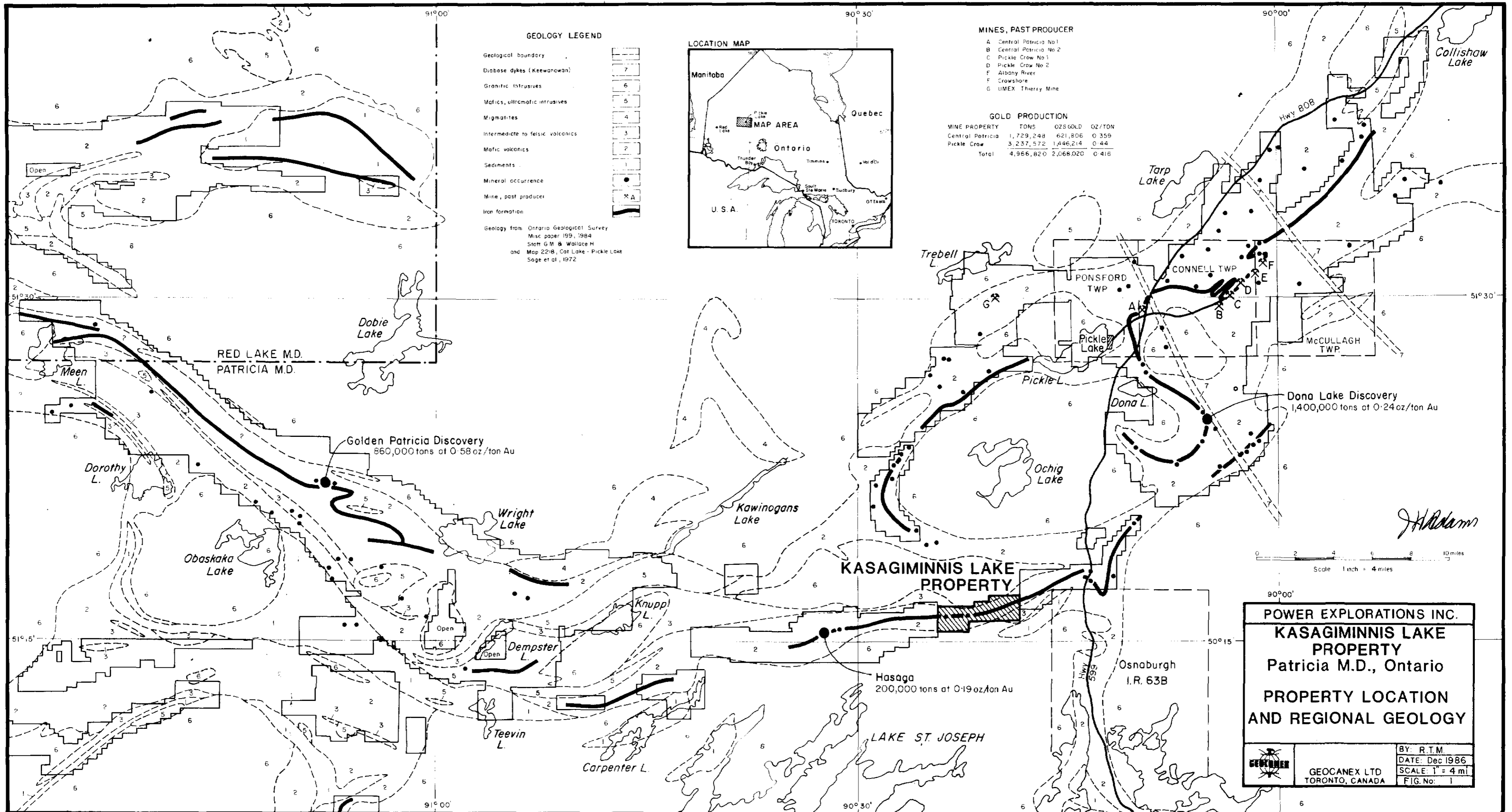
(X)



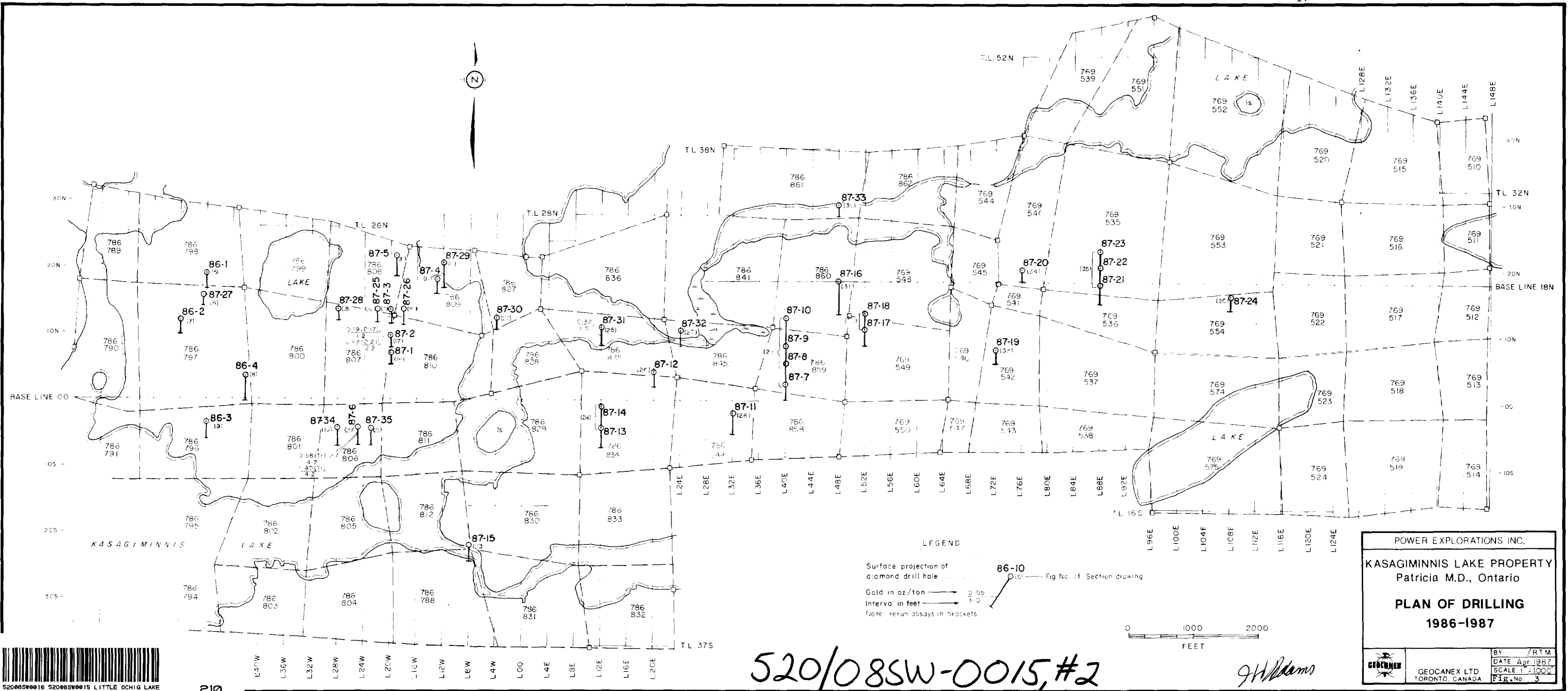
**FOR ADDITIONAL
INFORMATION**

SEE MAPS:

520/08SW-0015 # 4-12



520/08SW-0015, #1



210

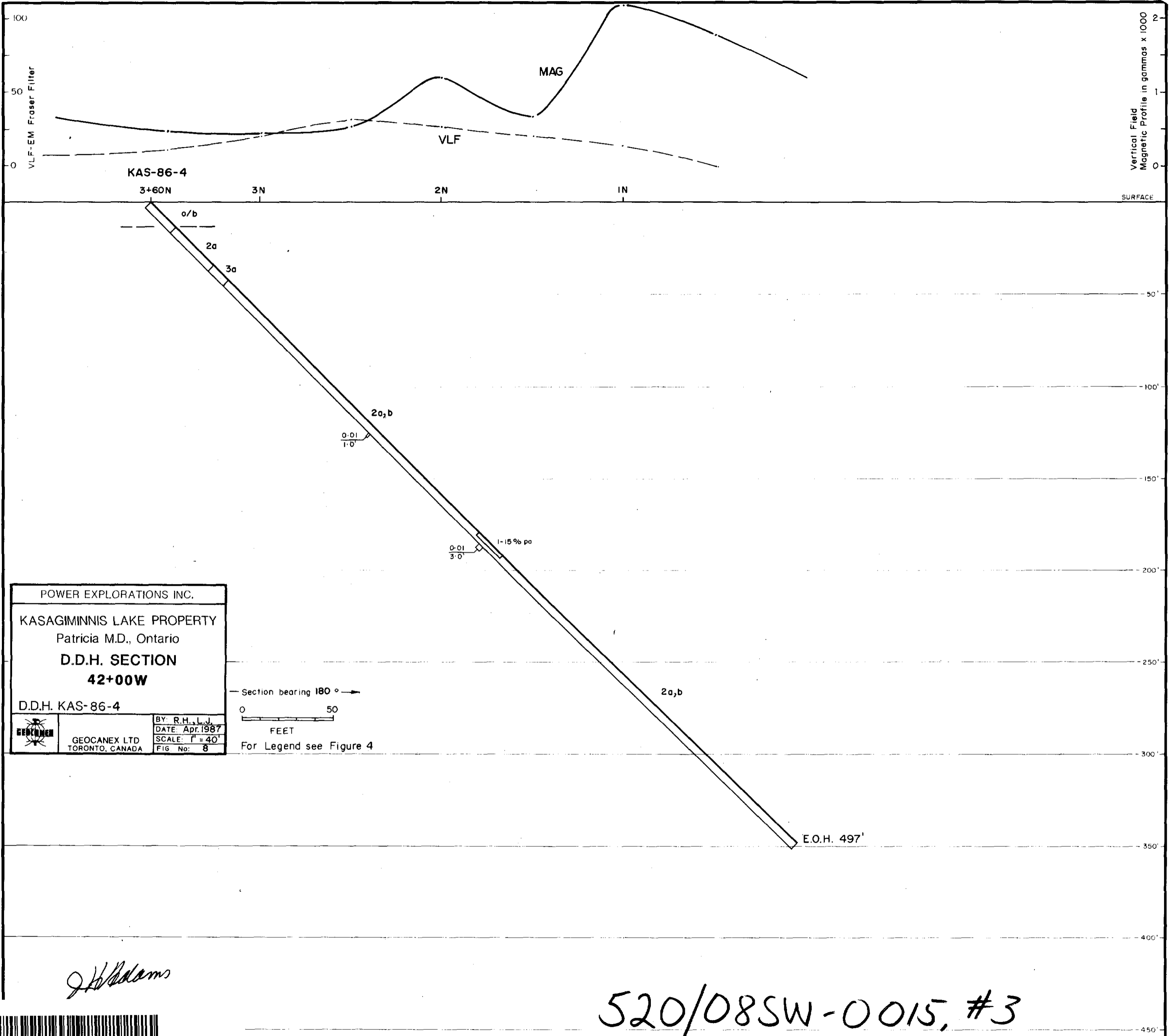
520/08SW-0015, #2

J.H. Williams

POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
PLAN OF DRILLING
 1986-1987

BY: /RTM
 DATE: Apr 1987
 SCALE: 1"=1000'
 Fig. No. 3

GEOCANEX LTD
 TORONTO, CANADA



POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
 D.D.H. SECTION
 42+00W
 D.D.H. KAS-86-4

	BY: R.H.L.J.
	DATE: Apr. 1987
	SCALE: 1" = 40'
	FIG No: 8

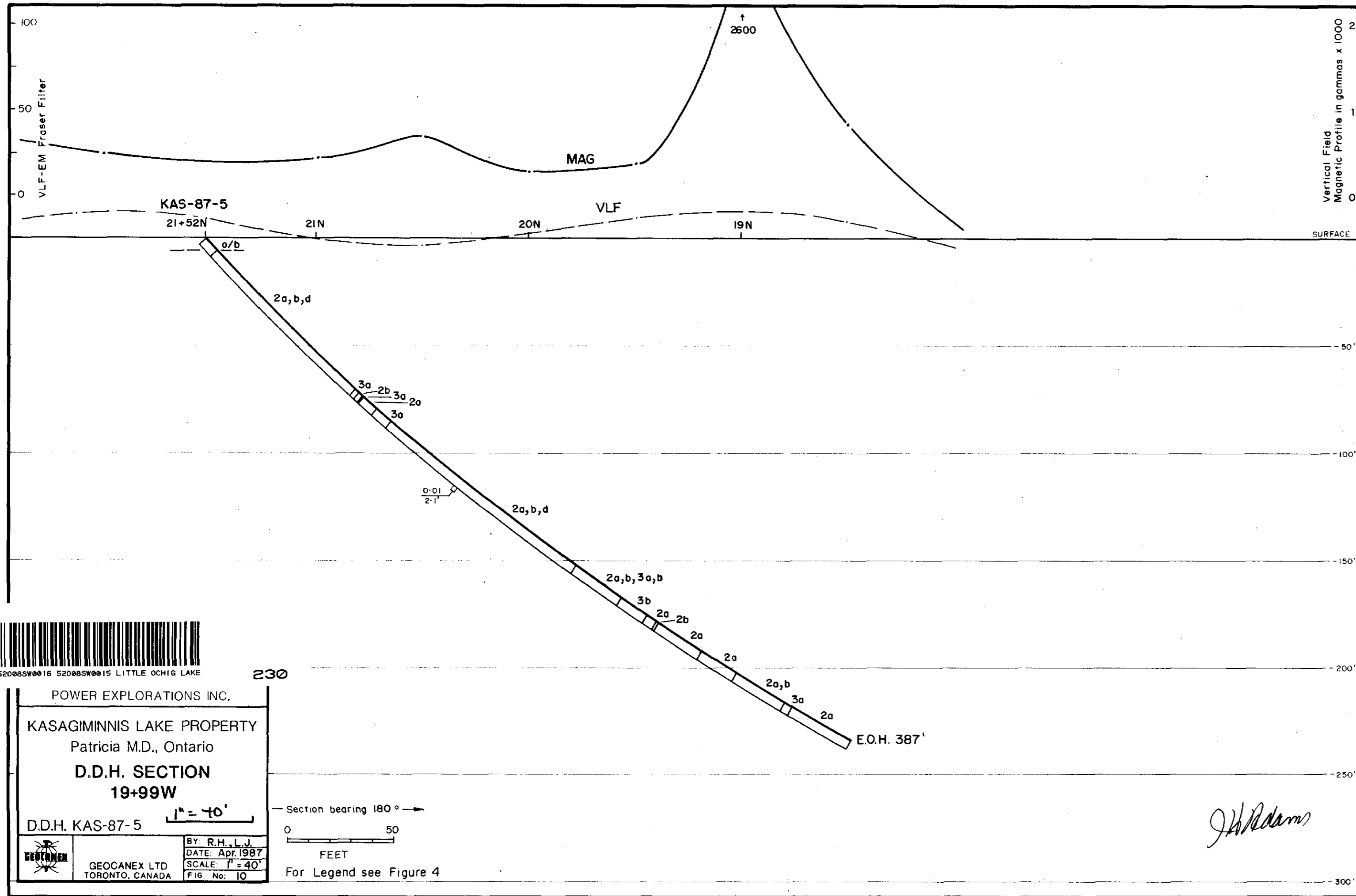
GEOCANEX LTD
 TORONTO, CANADA

Section bearing 180° →
 0 50
 FEET
 For Legend see Figure 4

J.H. Adams

520/08SW-0015, #3





**LEGEND FOR DIAMOND DRILL HOLE SECTIONS
FOR THE KASAGIMINNIS LAKE PROJECT**

Pickle Lake Area, Patricia M.D., Ontario

- | | |
|---|------------------------------------|
| q.v.,c.v. | Quartz/carbonate veins |
| 8 | Intermediate and felsic intrusives |
| 8a | Granite |
| 8b | Diorite |
| 8c | Granite gneiss |
| 8d | Porphyry, quartz/feldspar |
| 7 | Mafic to ultramafic intrusives |
| 7a | Gabbro, diabase |
| 7b | Peridotite |
| 6 | Iron formation |
| 6a | Oxide facies |
| 6b | Carbonate facies |
| 6c | Silicate facies |
| 6d | Sulphide facies |
| 5 | Clastic sediments |
| 5a | Wacke |
| 5b | Mudstone, argillite |
| 5c | Siltstone |
| 4 | Felsic volcanics |
| 4a | Flows |
| 4b | Tuff, lapilli tuff |
| 4c | Breccia, agglomerate |
| 3 | Intermediate volcanics |
| 3a | Flows |
| 3b | Tuff, lapilli tuff |
| 3c | Breccia, agglomerate |
| 2 | Mafic volcanics |
| 2a | Flows |
| 2b | Tuff, lapilli tuff |
| 2c | Breccia, agglomerate |
| 2d | Amphibolite |
| 1 | Ultramafic volcanics |

SYMBOLS

- | | |
|---|-------------|
| Overburden..... | o/b |
| Geological contact..... | 6
4 |
| Bedding..... | |
| Foliation..... | |
| Fault, shear zone..... | |
| Sample interval (feet)
with gold assay in
ounces per ton..... | 0.01
3.0 |
| Lost core..... | LC |

Alteration

- | | |
|----|-------------------|
| si | - silicification |
| se | - sericitization |
| ch | - chloritization |
| ca | - carbonatization |

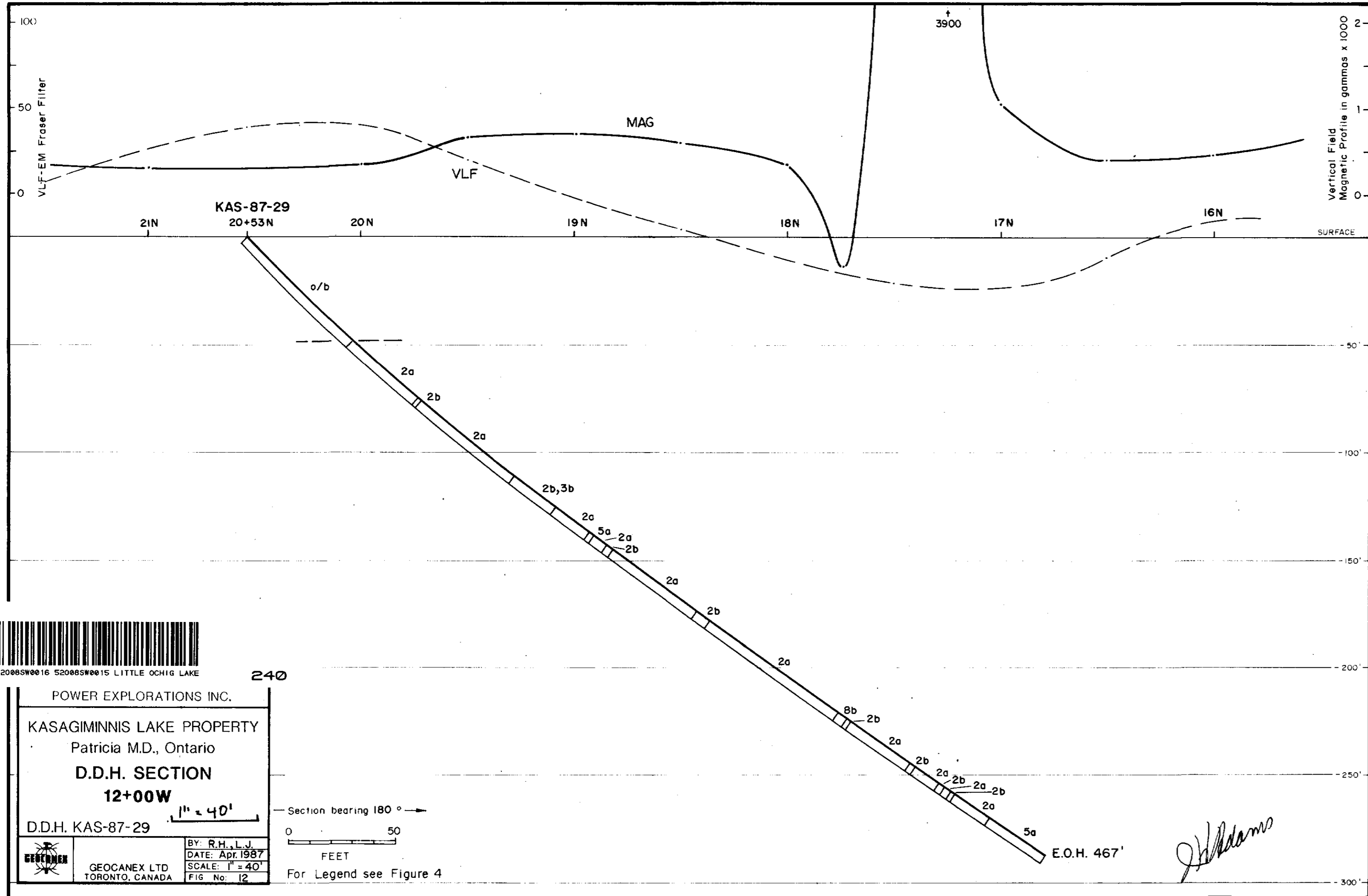
Mineralization

- | | |
|----|----------------|
| s | - sulphides |
| po | - pyrrhotite |
| py | - pyrite |
| cp | - chalcopyrite |
| As | - arsenopyrite |
| sp | - sphalerite |
| Ga | - galena |
| Mo | - Molybdenite |
| gf | - Graphite |

J.W. Adams

520/08SW-0015, #4

Fig. 4



LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8** Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7** Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6** Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5** Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4** Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3** Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2** Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1** Ultramafic volcanics

SYMBOLS

- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet) with gold assay in ounces per ton..... 0.01/3.0
- Lost core..... LC

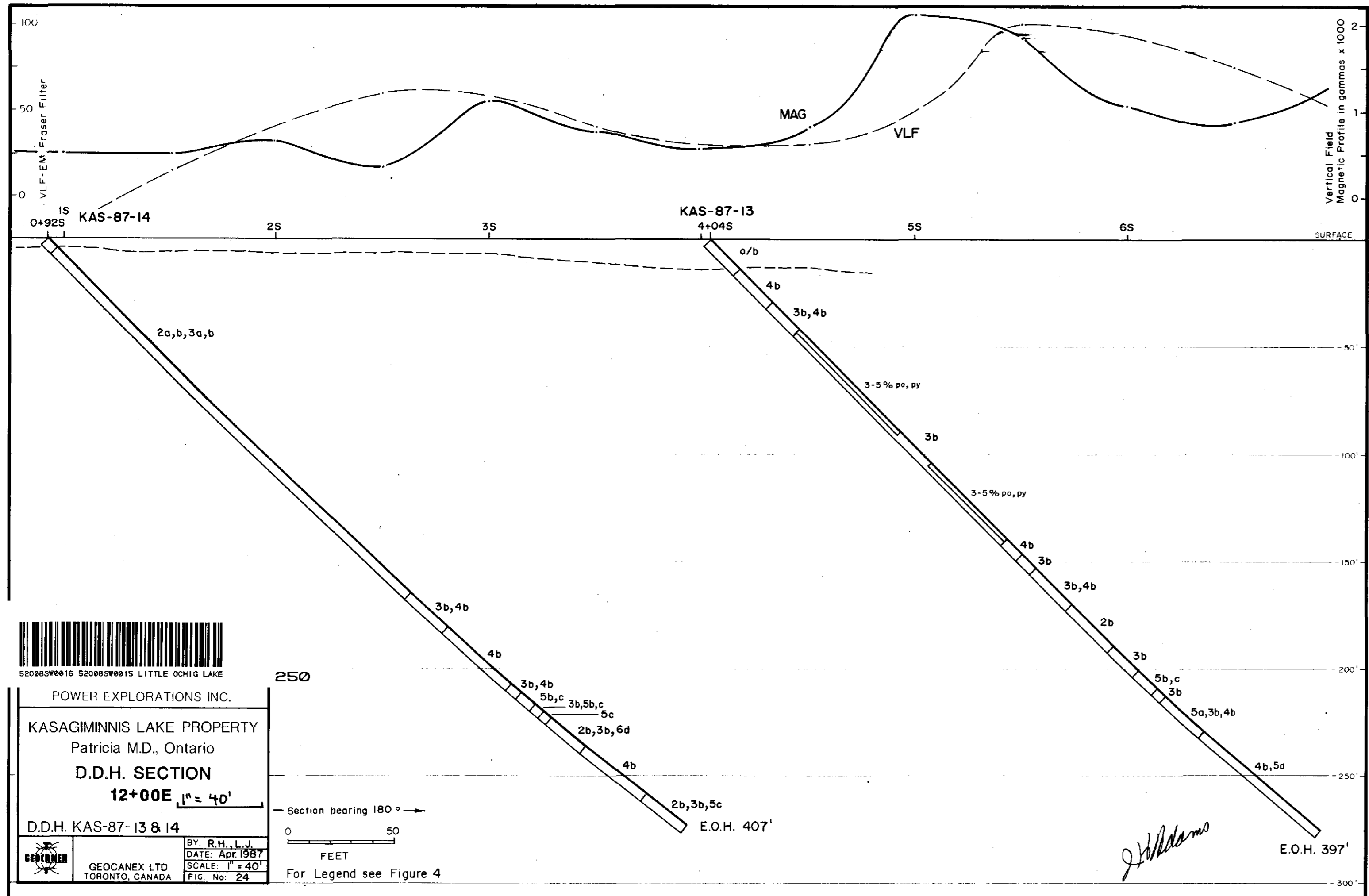
Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite

Fig. 4



LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT
 Pickle Lake Area, Patricia M.D., Ontario

- | | | |
|---|---|--|
| q.v.,c.v. Quartz/carbonate veins | SYMBOLS
Overburden..... o/b
Geological contact..... 5/4
Bedding.....
Foliation.....
Fault, shear zone.....
Sample interval (feet) with gold assay in ounces per ton..... 0-01/3-0
Lost core..... LC | |
| 8 Intermediate and felsic intrusives
8a Granite
8b Diorite
8c Granite gneiss
8d Porphyry, quartz/feldspar | | |
| 7 Mafic to ultramafic intrusives
7a Gabbro, diabase
7b Peridotite | | |
| 6 Iron formation
6a Oxide facies
6b Carbonate facies
6c Silicate facies
6d Sulphide facies | | |
| 5 Clastic sediments
5a Wacke
5b Mudstone, argillite
5c Siltstone | | |
| 4 Felsic volcanics
4a Flows
4b Tuff, lapilli tuff
4c Breccia, agglomerate | | |
| 3 Intermediate volcanics
3a Flows
3b Tuff, lapilli tuff
3c Breccia, agglomerate | | |
| 2 Mafic volcanics
2a Flows
2b Tuff, lapilli tuff
2c Breccia, agglomerate
2d Amphibolite | | |
| 1 Ultramafic volcanics | | |
| Alteration | | |
| si - silicification | | |
| se - sericitization | | |
| ch - chloritization | | |
| ca - carbonatization | | |
| Mineralization | | |
| s - sulphides | | |
| po - pyrrhotite | | |
| py - pyrite | | |
| cp - chalcopyrite | | |
| As - arsenopyrite | | |
| sp - sphalerite | | |
| Ga - galena | | |
| Mo - Molybdenite | | |
| gf - Graphite | | |



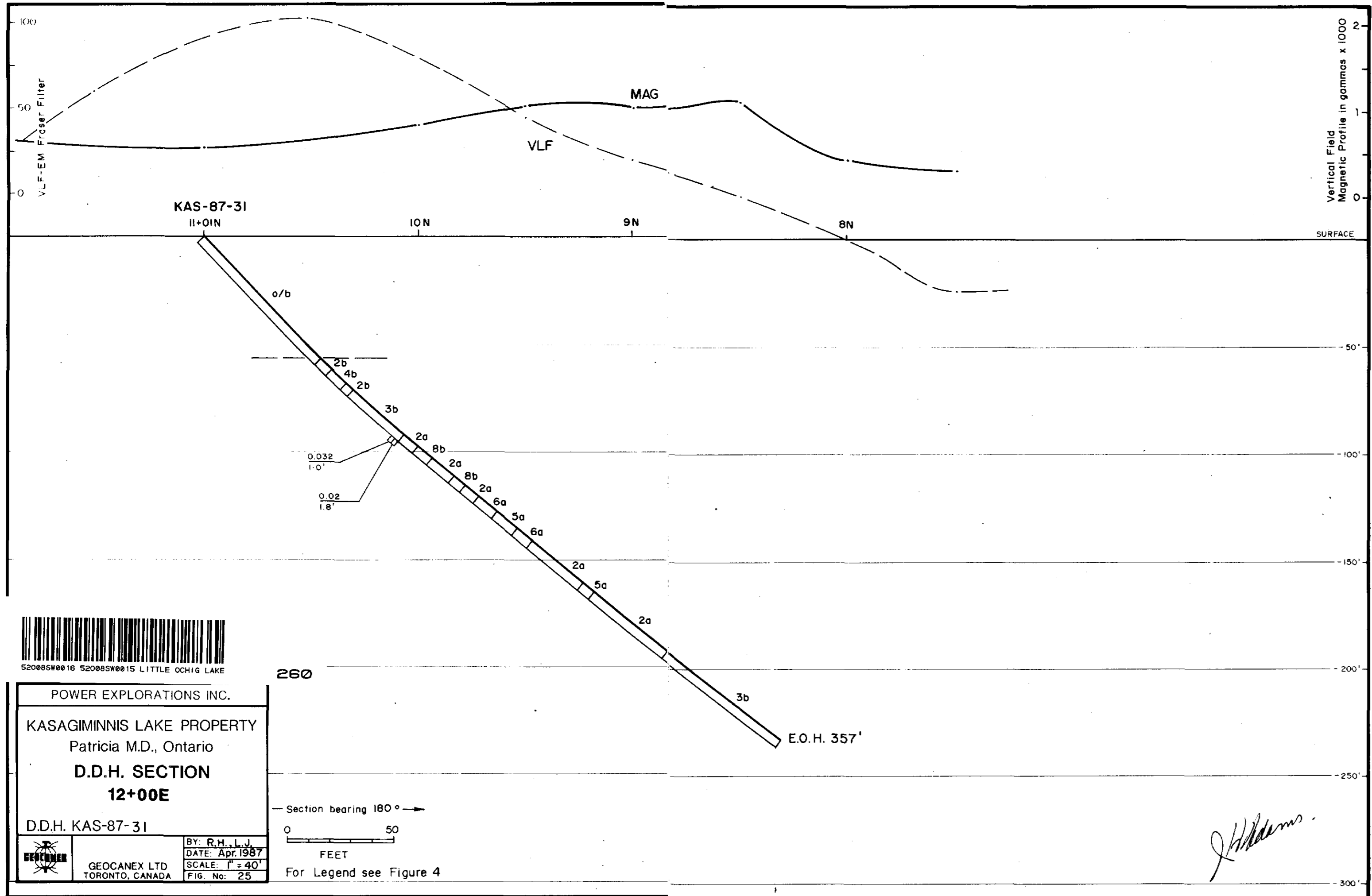
POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
D.D.H. SECTION
 12+00E 1" = 40'
 D.D.H. KAS-87-13 & 14
 Section bearing 180°
 E.O.H. 407'
 E.O.H. 397'

BY: R.H., L.J.
 DATE: Apr. 1987
 SCALE: 1" = 40'
 FIG. No: 24
 For Legend see Figure 4

J. Williams

520/08SW-0015, #6

Fig. 4



LEGEND FOR DIAMOND DRILL HOLE SECTIONS FOR THE KASAGIMINNIS LAKE PROJECT

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS

- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet)
with gold assay in
ounces per ton..... 0.01/3.0'
- Lost core..... LC

Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite

520/08SW-0015, #7

Fig. 4



POWER EXPLORATIONS INC.

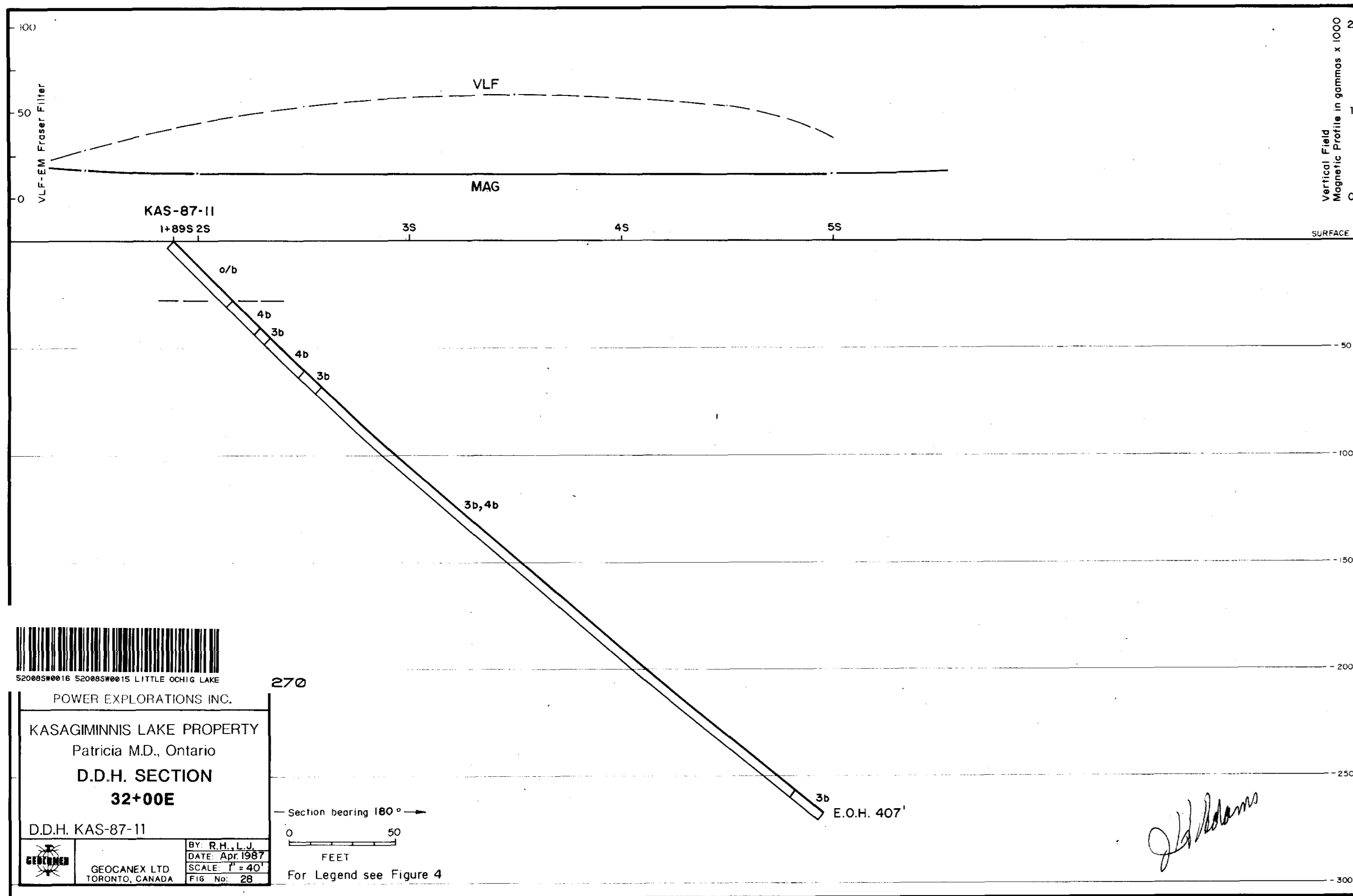
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

**D.D.H. SECTION
12+00E**

D.D.H. KAS-87-31

BY: R.H.L.J.
DATE: Apr 1987
SCALE: 1" = 40'
FIG. No: 25

GEOCANEX LTD
TORONTO, CANADA



**LEGEND FOR DIAMOND DRILL HOLE SECTIONS
FOR THE KASAGIMINNIS LAKE PROJECT**

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS

- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet) with gold assay in ounces per ton..... 0-01/3-0
- Lost core..... LC

Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite



POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
**D.D.H. SECTION
32+00E**
D.D.H. KAS-87-11

270
Section bearing 180° →
0 50
FEET
For Legend see Figure 4

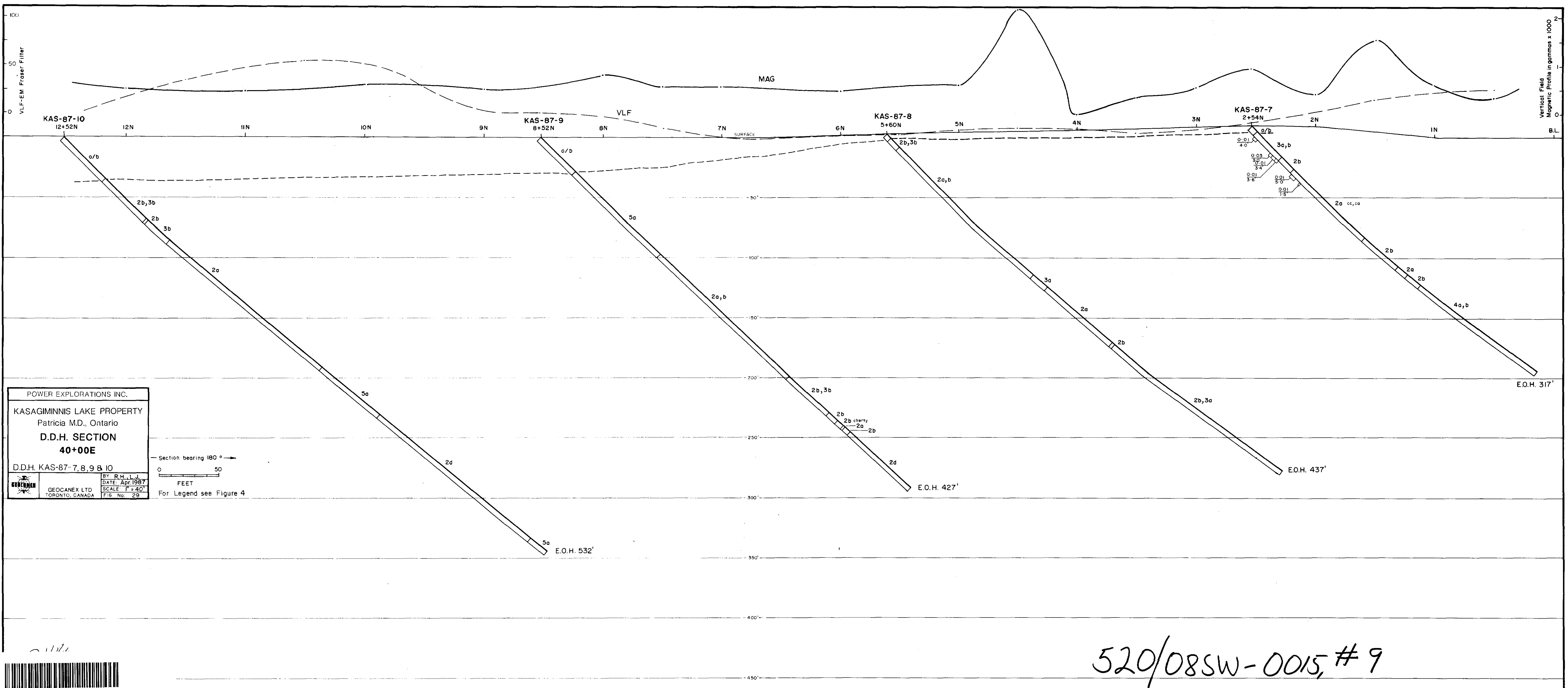
BY: R.H., L.J.
DATE: Apr. 1987
SCALE: 1" = 40'
FIG. No. 28



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TORONTO, CANADA

520/08SW-0015, #8

Fig. 4



POWER EXPLORATIONS INC.
 KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
D.D.H. SECTION
40+00E
 D.D.H. KAS-87-7, 8, 9 & 10

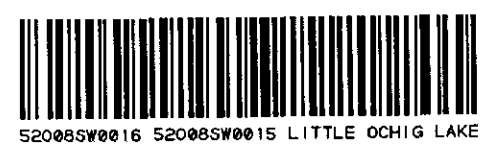
Section bearing 180°
 0 50
 FEET
 For Legend see Figure 4

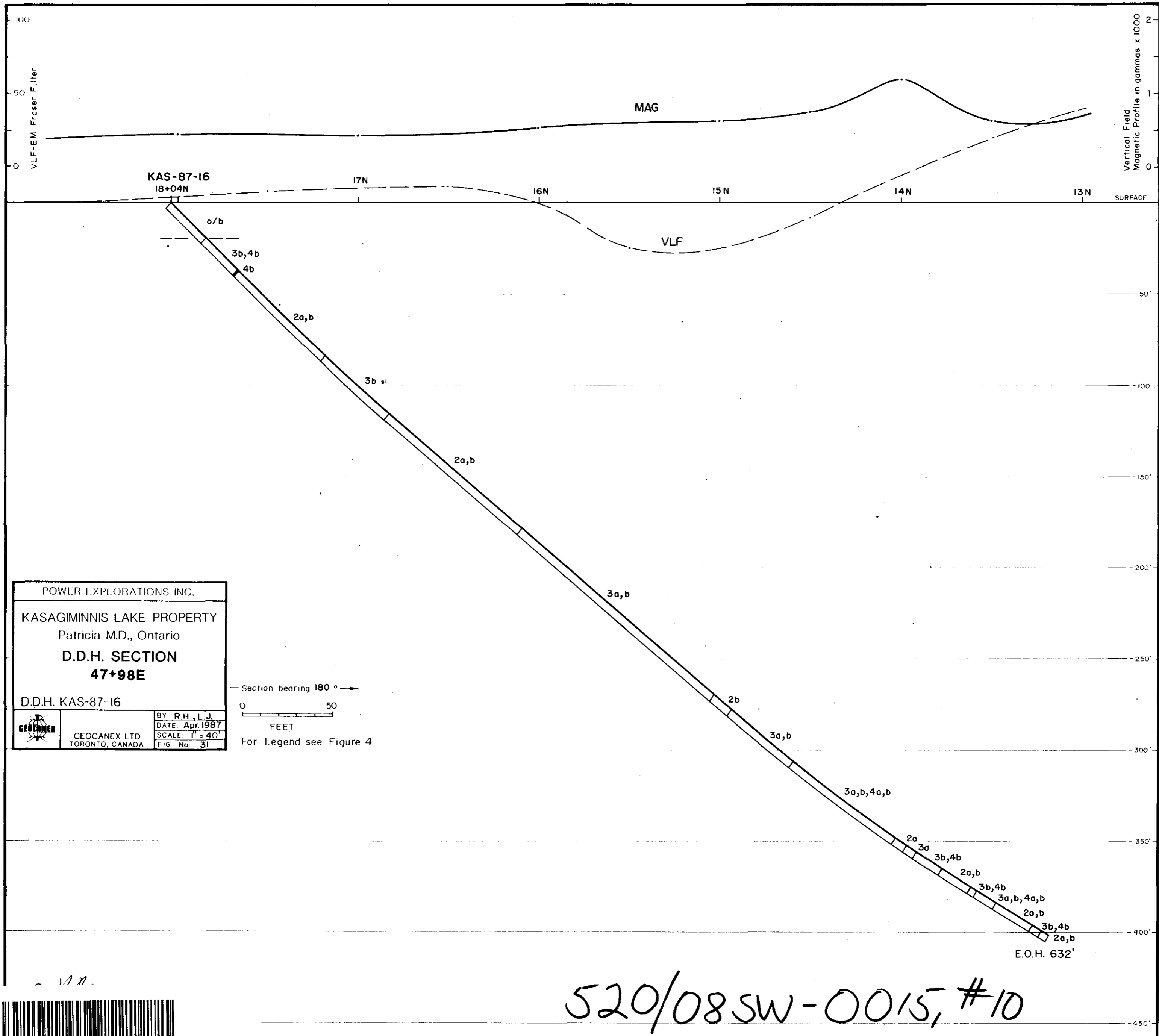
BY R.H.L.J.
 DATE: Apr 1987
 SCALE: 1" = 40'
 FIG No. 29

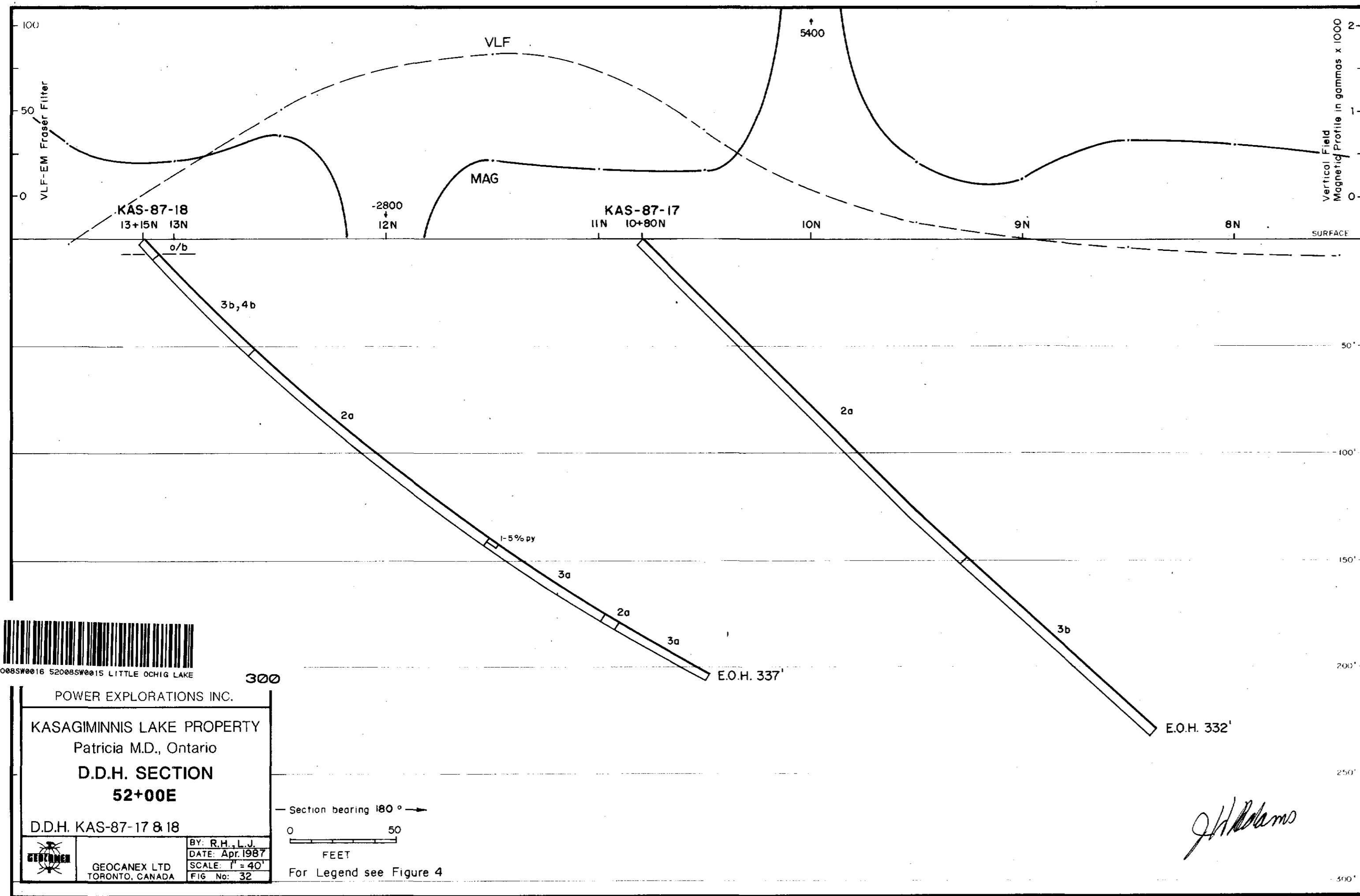


GEOCANEX LTD
 TORONTO, CANADA

520/08SW-0015, # 9







**LEGEND FOR DIAMOND DRILL HOLE SECTIONS
FOR THE KASAGIMINNIS LAKE PROJECT**

Pickle Lake Area, Patricia M.D., Ontario

- q.v.,c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

SYMBOLS

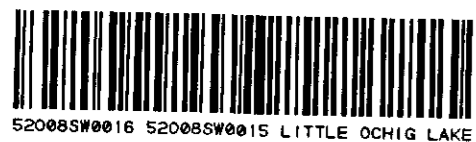
- Overburden..... o/b
- Geological contact..... 6/4
- Bedding.....
- Foliation.....
- Fault, shear zone.....
- Sample interval (feet)
with gold assay in
ounces per ton..... 0-01
3-0
- Lost core..... LC

Alteration

- si - silicification
- se - sericitization
- ch - chloritization
- ca - carbonatization

Mineralization

- s - sulphides
- po - pyrrhotite
- py - pyrite
- cp - chalcopyrite
- As - arsenopyrite
- sp - sphalerite
- Ga - galena
- Mo - Molybdenite
- gf - Graphite



POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
**D.D.H. SECTION
52+00E**
D.D.H. KAS-87-17 & 18

BY: R.H.L.J.
DATE: Apr. 1987
SCALE: 1" = 40'
FIG No: 32

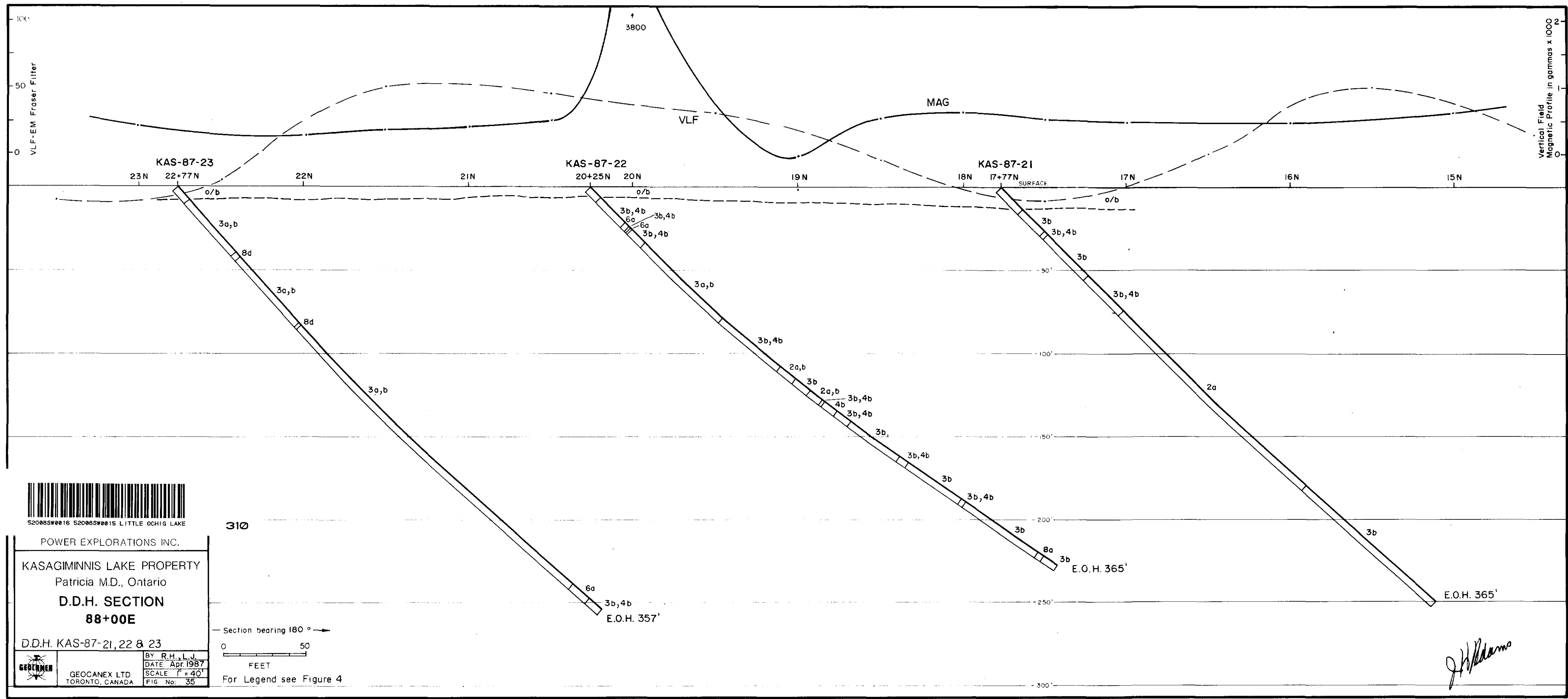
GEOCANEX LTD
TORONTO, CANADA

Section bearing 180° →
0 50
FEET
For Legend see Figure 4

J.H. Williams

520/088W-0015, #11

Fig. 4



**LEGEND FOR DIAMOND DRILL HOLE SECTIONS
FOR THE KASAGIMINNIS LAKE PROJECT**

Pickle Lake Area, Patricia M.D., Ontario

- q.v.c.v. Quartz/carbonate veins
- 8 Intermediate and felsic intrusives
 - 8a Granite
 - 8b Diorite
 - 8c Granite gneiss
 - 8d Porphyry, quartz/feldspar
- 7 Mafic to ultramafic intrusives
 - 7a Gabbro, diabase
 - 7b Peridotite
- 6 Iron formation
 - 6a Oxide facies
 - 6b Carbonate facies
 - 6c Silicate facies
 - 6d Sulphide facies
- 5 Clastic sediments
 - 5a Wacke
 - 5b Mudstone, argillite
 - 5c Siltstone
- 4 Felsic volcanics
 - 4a Flows
 - 4b Tuff, lapilli tuff
 - 4c Breccia, agglomerate
- 3 Intermediate volcanics
 - 3a Flows
 - 3b Tuff, lapilli tuff
 - 3c Breccia, agglomerate
- 2 Mafic volcanics
 - 2a Flows
 - 2b Tuff, lapilli tuff
 - 2c Breccia, agglomerate
 - 2d Amphibolite
- 1 Ultramafic volcanics

- SYMBOLS**
- Overburden..... o/b
 - Geological contact..... 6/4
 - Bedding.....
 - Foliation.....
 - Fault, shear zone.....
 - Sample interval (feet)
with gold assay in
ounces per ton..... 0.01/3.0
 - Lost core..... LC

- Alteration**
- si - silicification
 - se - sericitization
 - ch - chloritization
 - ca - carbonatization

- Mineralization**
- s - sulphides
 - po - pyrrhotite
 - py - pyrite
 - cp - chalcopyrite
 - As - arsenopyrite
 - sp - sphalerite
 - Ga - galena
 - Mo - Molybdenite
 - gf - Graphite



POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
**D.D.H. SECTION
88+00E**
D.D.H. KAS-87-21, 22 & 23

Section bearing 180°
0 50
FEET
For Legend see Figure 4

520/08SW-0015, #12

Fig. 4