

DIAMOND DRILLING

AREA: LITTLE OCHIG LAKE

REPORT NO: 14

WORK PERFORMED FOR: Power Explorations Inc.

RECORDED HOLDER: Same as Above [xx]
: Other []

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
Pa 786808/	KAS-87A-1	296'	Sept/87	(1)
Pa 786807	KAS-87A-2	233'	Sept/87	(1)
	KAS-87A-3	266'	Sept/87	(1)
	KAS-87A-4	206'	Sept/87	(1)
	KAS-87A-5	256'	Sept/87	(1)
	KAS-87A-6	196'	Sept/87	(1)
	KAS-87A-7	256'	Sept/87	(1)
Pa 786807 *	KAS-87A-8	216'	Sept/87	(1)
Pa 786807*	KAS-87A-9	316'	Sept/87	(1)
	KAS-87A-10	326'	Sept/87	(1)
	KAS-87A-11	256'	Sept/87	(1)
Pa 786808 *	KAS-87A-12	286'	Sept/87	(1)
	KAS-87A-13	226'	Sept/87	(1)
	KAS-87A-14	286'	Sept/87	(1)
Pa 786809 *	KAS-87A-15	337'	Sept/87	(1)
	KAS-87A-16	316'	Sept/87	(1)
	KAS-87A-17	346'	Sept/87	(1)
Pa 786796*	KAS-87A-18	510'	Sept/87	(1)
	KAS-87A-19	526'	Sept/87	(1)
	KAS-87A-20	516'	Sept/87	(1)
Pa 786801 *	KAS-87A-21	406'	Sept/87	(1)
Pa 786798 *	KAS-87A-22	291'	Sept/87	(1)
	KAS-87A-23	314'	Sept/87	(1)

NOTE: (1) W8803.285 date filed April, 1989

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<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
Pa 786797 •	KAS-87A-24	380'	Sept/87	(1)
Pa 786800 •	KAS-87A-25	351'	Sept/87	(1)
Pa 786808 •	KAS-87A-26	415'	Oct/87	(1)
	KAS-87A-27	667'	Oct/87	(1)
Pa 786808 •	KAS-87A-28	606'	Oct/87	(1)
Pa 786808/•	KAS-87A-29	406'	Oct/87	(1)
Pa 786809 •				
Pa 786808 •	KAS-87A-30	631'	Oct/87	(1)
	KAS-87A-31	444'	Oct/87	(1)
Pa 786807 •	KAS-87A-32	226'	Oct/87	(1)
	KAS-87A-33	206'	Oct/87	(1)
	KAS-87A-34	226'	Oct/87	(1)
Pa 786835 •	KAS-87A-35	505'	Oct/87	(1)
	KAS-87A-36	466'	Oct/87	(1)
	KAS-87A-37	526'	Oct/87	(1)
	KAS-87A-38	436'	Oct/87	(1)
Pa 769516 •	KAS-87A-39	407'	Oct/87	(1)
Pa 786809 •	KAS-87A-40	437'	Oct/87	(1)
Pa 786809 •	KAS-87A-41	607'	Oct/87	(1)
Pa 786809/•	KAS-88-1	650'	Jan/88	(1)
Pa 786810 •				
Pa 786809/•	KAS-88-2	492'	Jan/88	(1)
Pa 786810 •				

NOTES: (1) W8803.285, filed April/89

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<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
Pa 786810 •	KAS-88-3	692'	Jan/88	(1)
	KAS-88-4	494'	Jan/88	(1)
	KAS-88-5	657'	Jan/88	(1)
	KAS-88-6	537'	Feb/88	(1)
Pa 786836/	KAS-88-7	637'	Feb/88	(1)
Pa 786835`				

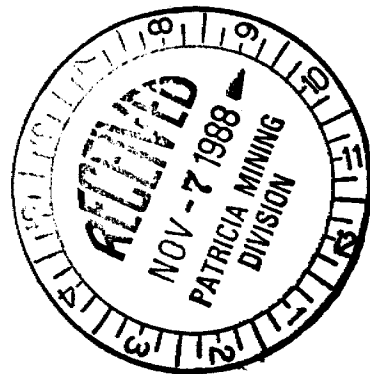
98 19284'

NOTES: (1) W8803.285, filed April/89



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

VOLUME 1



March, 1988

R. Higginson, B.Sc.



520085W00006 14 LITTLE OCHIG LAKE

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1.0 SUMMARY

The current diamond drilling program on the Kasagiminnis Lake property, totalling 19,971 feet in 49 holes, has outlined an extensive zone of potentially economic gold mineralization.

The zone has been sporadically drilled over a strike length of 3700 feet and the host horizon has a traceable strike length of 8000 feet.

Compilation of available data suggests that the gold is associated with sulphide replacement bodies hosted in a horizon of sheared and locally silicified mafic tuff and iron formation. The gold-bearing zones may plunge steeply eastward in the plane of the horizon.

A three phase exploration program is warranted and recommended for the property. Phase I would involve detailed ground magnetometer and HLEM surveys, followed by 11,300 feet of diamond drilling in Phase II. Phase III would involve additional diamond drilling contingent upon the results of Phases I and II.

2.0 INTRODUCTION

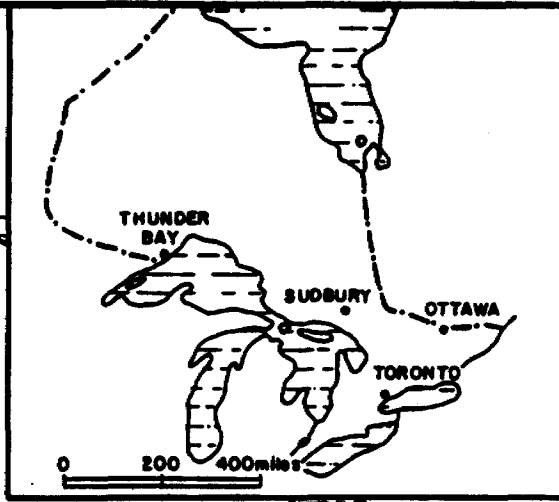
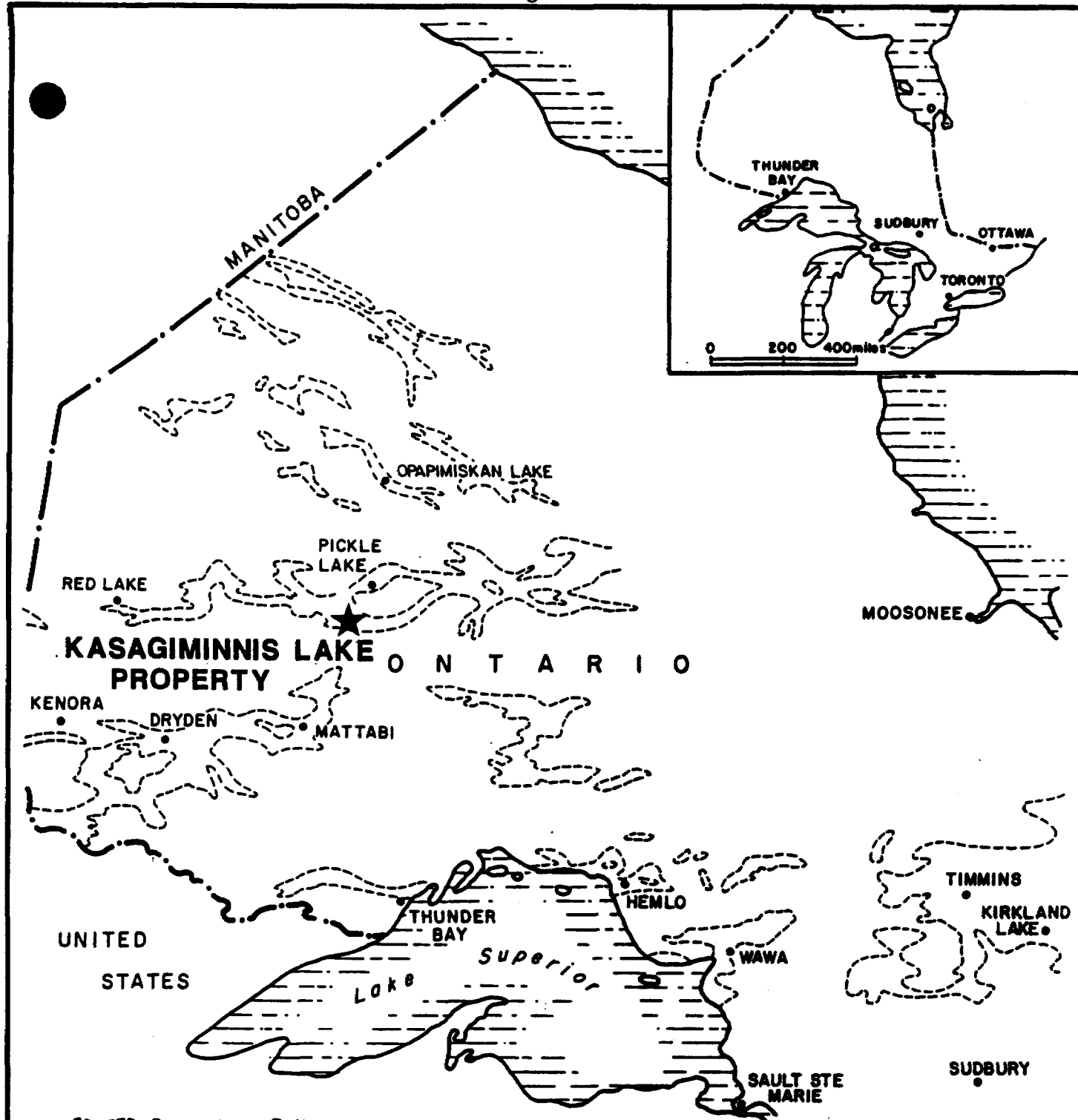
The following report describes the results of the 1987-88 diamond drilling program on the Kasagiminnis Lake Property in the Ochig Lake Area, Ontario (Figure No. 1). The property is located 16 miles south-southwest of the town of Pickle Lake (Figure No. 2) in the Patricia Mining Division, District of Kenora, Northwestern Ontario.

The present program was supervised by Geocanex Ltd. between September 2 to October 28, 1987, December 11 to December 17, 1987 and January 7 to February 9, 1988. Midwest Drilling was the diamond drilling contractor.

The property consists of 143 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	Project Geologist	Oro Stn., Ontario
B. Elliot	Geologist	Oshawa, Ontario
P. Taylor	Geologist	Kingston, Ontario
J. Pierce	Assistant	Wasaga Beach, Ontario
M. Stevens	Assistant	London, Ontario
S. Necan	Assistant	Osnaburgh House, Ont.
J. Cracknell	Assistant	Toronto, Ontario



KASAGIMINNIS LAKE PROPERTY ONTARIO

POWER EXPLORATIONS INC.	
KASAGIMINNIS L, PROPERTY	
Patricia M.D., Ontario	
LOCATION MAP	
SCALE: 1" = 100mi	BY: H.N./R.T.M
DATE: JAN. 88	FIG. No. 1

0 100miles

J. Adams

Drill targets were chosen from compiled geological, geochemical, geophysical and drilling data obtained during the 1986-87 programs. Quartz veining, alteration (shear-fault zones) and mineralized horizons were sampled 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.

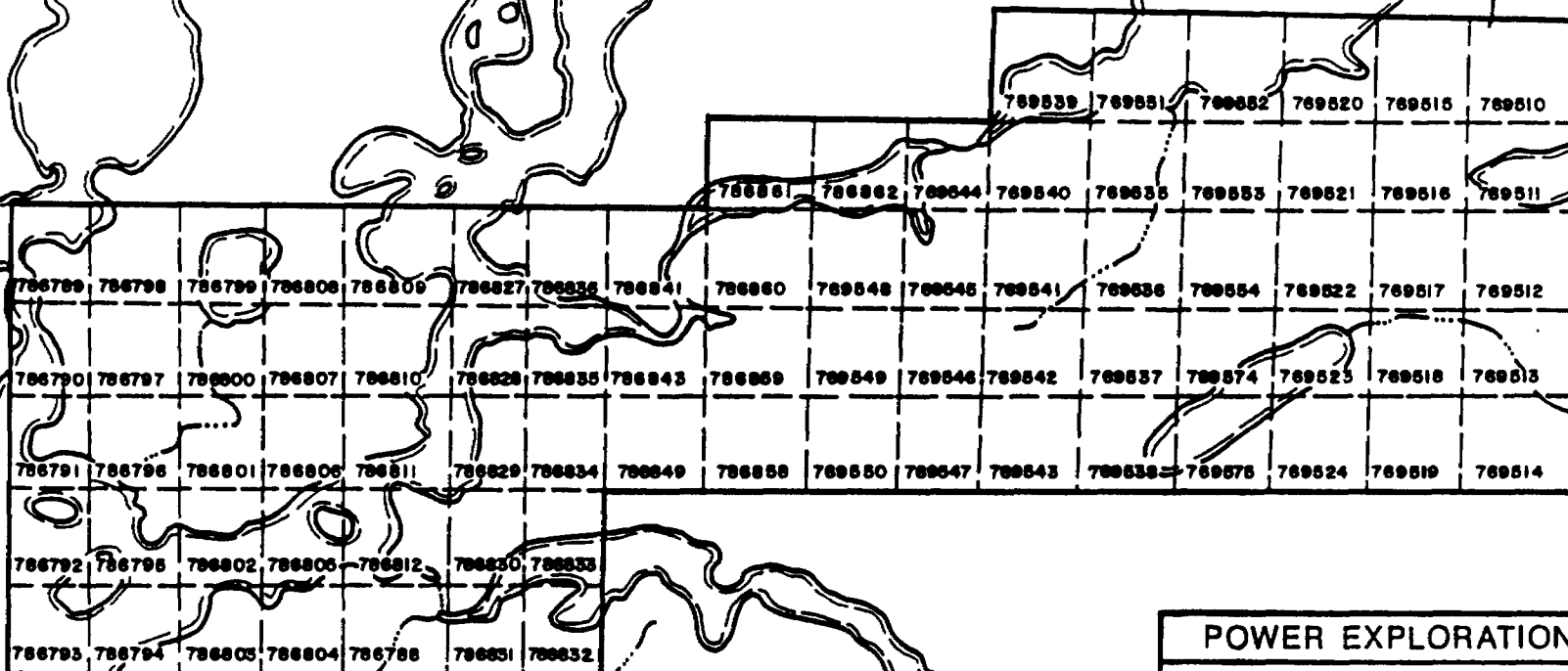
The property is on strike with, and six miles to the east of, Lac Minerals - Hasaga Property which has reported mineral reserves of 200,000 tons grading 0.19 ounces of gold per ton.

3.0 PROPERTY DESCRIPTION

The Kasagiminnis Lake Property consists of 143 contiguous mining claims in the Ochig Lake area, Patricia Mining Division, Northwestern Ontario (Fig. No. 3). The claim numbers and recording dates are as follows:

<u>Claim Numbers</u>		<u>Recording Date</u>
Pa 769510 - 769524 inclusive	(15)	April 30, 1984
Pa 786827 - 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

Kasagiminnis
Lake



POWER EXPLORATIONS INC.

**KASAGIMINNIS LAKE
PROPERTY**

Patricia M.D., Ontario

CLAIM SKETCH

0 0.5 1 mile

J.H. Williams



GEOCANEX LTD
TORONTO, CANADA

BY: R.T.M.
DATE: Dec. 1986
SCALE: 1" = 2640'
FIG No: 3.

<u>Claim Numbers</u>		<u>Recording Date</u>
769535 - 769554 inclusive	(20)	April 30, 1984
769574, 769575	(2)	April 30, 1984
786858 - 786862 inclusive	(5)	April 30, 1984
964971 - 964980 inclusive	(10)	February 10, 1987
965611 - 965623 inclusive	(13)	February 10, 1987
965694 - 965713 inclusive	(20)	February 10, 1987
965836 - 965842 inclusive	(7)	February 10, 1987
1008197 - 1008209 inclusive	<u>(13)</u>	December 16, 1987
Total		143 claims

The claims are held under a Joint Venture Agreement between Moss Resources Ltd. and Power Explorations Inc., of 1003-34 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 500. The town is connected by paved Highway 599 to Savant Lake and the Canadian National transcontinental railway line, 90 miles to the south, and Ignace and the Trans Canada Highway 17, 180 miles south. Electricity is supplied by a hydro line connecting Pickle Lake to the Ear Falls generating station. Air, ground and water transportation for local use are readily available in town. Pickle Lake is also serviced by regularly scheduled 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, drumlinoid 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 muskeg, black spruce, or cedar and alder swamps.

A more detailed analysis of the surficial geology can be obtained from Paradis and Rampton, 1986.

6.0 PREVIOUS WORK

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 Ltd. staked the current claim group. A regional 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. covering the property. Subsequent geological and geophysical surveys by Geocanex Ltd. for Power indicated the presence of several potentially gold-bearing horizons and structures, which were further explored by a 39 hole, 12,424 foot diamond drilling program during the winter of 1986-1987.

Three significant intersections of gold mineralization were reported (Higginson March 1987) and included:

1. A 38.9 foot intersection with values ranging from 0.01 to 0.23 ounces gold per ton in hole KAS-87-3.
2. An intersection of 0.58 and 1.40 ounces gold per ton over 4.7 and 4.2 feet, respectively, in hole KAS-87-6. Subsequent checks yielded trace gold.
3. An intersection of 0.32 ounces gold per ton over 1.0 foot in hole KAS-87-31.

A follow-up field program in the areas of the three intersections was undertaken in the summer of 1987 by Geocanex Ltd. The program included; detailed geological mapping, trenching-stripping, lithogeochemical sampling and ground magnetometer and induced polarization surveys. Higginson (Aug. 1987) reported that potentially economic gold mineralization occurred within a quartz vein hosted in silicified and sheared mafic volcanics. Trench sampling of the vein returned an intersection averaging 0.25 ounces gold per ton over 6.2 feet.

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.

Placer-Dome Inc. and St. Joe Canada both recently announced plans to develop new mines in the Pickle Lake area. The Placer-Dome Inc. Dona Lake Mine has reported reserves of 1,750,000 tons grading 0.24 ounces of gold per ton. Gold mineralization occurs as sulphide replacement bodies within a band of highly deformed oxidized 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 Mine 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 southward younging mafic-to-intermediate flows, mafic-to-felsic pyroclastics, sediments and 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 SUMMARY OF GEOPHYSICS

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. Forty-nine B.Q. size diamond drill holes totalling 19,971 feet were completed between September 2 and October 28, 1987 and December 11 to 17, 1987 and January 7 to February 9, 1988 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 fixed-wing aircraft from Pickle Lake as well as a winter road from Highway 599.

The drilling program was designed to define zones of significant gold mineralization encountered during the 1986/87 drilling, geological mapping, and prospecting programs and to test several additional geophysical targets.

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 Bell-White Analytical Laboratories of Haileybury, Ontario and Accurassay Ltd. of Kirkland Lake, Ontario.

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 are shown on Figures No. 4a and 4b. Assay highlights for Zone No. 1 are plotted on Figure No. 4c. Detailed logs with assay results are compiled in Appendix C. Drill Sections and legend are shown in Appendix E. All Assay Certificates are compiled in Appendix D.

10.2 Discussion of Results

Compilation of available geological, geophysical and drilling data has outlined a 3700 foot long zone of potentially economic gold mineralization (Figure No. 4b). The gold-bearing zone occurs in a horizon of mafic volcanics interbedded with oxide/silicate facies iron formation, which has an east-west trending magnetic signature traceable for 8000 feet from L48+00W at 14N to L32+00E at 9N (Figure No. 4a).

The horizon consists of sheared and locally silicified, amphibolitic mafic flows and tuffs which host bands of oxide to silicate facies iron formation. Individual bands within the iron formations consist of hornblende and grunerite and sericite, ± pyrrhotite alternating with chert + grunerite + sericite + magnetite ± hematite. Pyrite is ubiquitous as fracture coatings and stringers. Grunerite mantled quartz + carbonate stringers crosscut the horizon and carry rare specks of visible gold.

The horizon is overlain by a thick sequence of mafic to intermediate flows and is underlain by interbedded mafic flows and felsic tuff which in turn overlies a thick sequence of pillowed mafic flows intruded by granitic rocks of the Kasagiminnis Lake Pluton.

Analysis of diamond drilling data indicates that one or more zones of gold mineralization may be present. Initial results suggest that the zone(s) may plunge steeply eastward on the plane of the host horizon which dips steeply north at 59° to 90°. The data also suggests that the gold content is proportional to the percentage of sulphide present, especially pyrrhotite. Intersections grading over .05 ounces gold per ton were obtained in sections of the zone where magnetite has been replaced by pyrrhotite and in which the total sulphide content (pyrrhotite + pyrite) exceeds 10%. Further evidence for this relationship was obtained from drill hole KAS-88-6, which returned a value of .446 oz. Au/ton in a section containing up to 60% pyrrhotite.

A total of 35 drill holes intersected the horizon along 13 widely spaced sections extending from L28+00W to L14+00E. Plotting of the intersections in vertical long section (Figure No. 4c) indicates the extent of known and potential mineralization. Several large areas of the horizon require further testing and include:

Area A

Extending from L28+00W to L22+00W, in which a surface exposure of a quartz vein on L24+00W returned 0.25 oz. Au/ton over 6.2 feet (Higginson Aug. 1987). Shallow drilling in holes KAS-87A-4 through 11 intersected narrow mineralized zones. This portion of the zone is untested below 250 feet vertical depth.

Area B

Extends from L22+00W to L16+00W. Holes KAS-87-3, KAS-87A-1, 2, 26, 28, and 29 outline a steeply dipping "shoot" of potentially economic gold mineralization which extends down to at least 400' vertical depth. The width and vertical extent are as yet undefined.

Area C

Extends from L16+00W to L8+00W. Holes KAS-87A-40, 88-1, 2 and 3 encountered potentially economic gold mineralization at vertical depths of 350 to 500 feet. The holes are sited on 400' spacings along strike. This may represent a broad zone which includes several separate zones of gold mineralization. This area is untested above 300 feet and below 500 feet vertical depth.

Area D

Extends from L4+00W to approximately L12+00E. Holes KAS-88-6 and 7 and 87A-35 encountered potentially economic mineralization, however the holes are widely spaced and thus do not define specific zones or shoots. Hole KAS-88-6 is of particular interest because a 12.0 foot interval averaged .216 oz. Au/ton.

In addition to the above mentioned target areas the portion of the zone extending from L12+00E to L32+00E and from L28+00W to L48+00W are virtually untested and warrant investigation.

Several other geophysical and geological targets outside of Zone 1 were tested during the current program. No significant gold mineralization was encountered in these holes. A summary of the diamond drilling results is given in Table No. 1. Mineral Reserve estimates will be calculated and reported separately.

Table No. 3 in Appendix B tabulates results of resampling and reassaying of selected drill holes from the 1986-87 drilling program.

TABLE I

SUMMARY OF DIAMOND DRILL RESULTS

HOLE NO.	LOCATION	LENGTH FEET	GENERAL GEOLOGY	ASSAY NO.	OUNCES GOLD/TON	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-87A-1	L20+00W, 13+2N (AZ,180°)	296.0	Felsic to intermediate tuff interbedded with and overlain by mafic volcanics.		0.168	156.0	159.5	3.5	sheared mafic volcanics and iron formation, trace-5% po,py
					(0.174)				
					0.120	159.5	103.0	3.3	
					(.122)				
					0.064	176.0	181.0	5.0	
					(0.060)				
KAS-87A-2	L20+00W, 13+53N (AZ,180°)	233.0	as above		0.182	187.9	191.3	3.4	as above
					(0.168)				
					0.058	196.0	198.0	2.0	
				(0.056)					
KAS-87A-3	L20+00W, 13+54N (AZ,210°)	266	as above		0.054	146.0	151.0	5.0	as above
					(.054)				
					.068	151.0	156.0	5.0	
				(0.064)					
KAS-87A-4	L23+00W, 12+65N	206	Mafic flows overlie mafic tuff with abundant quartz veining and sheared mafic volcanics and iron formation.		trace to 0.062	74.5	146.8	72.3	mafic tuff, 1-5% po, tr-3%py
KAS-87A-5	L23+00W, 12+68N	256	Mafic flows interbedded with mafic tuff and chert overlie sheared iron formation and mafic tuff		trace to 0.020	10.0	43.1	33.1	sheared iron formation and mafic tuff
					trace to 0.066	146.4	167.3	21.1	mafic tuff, 1-2% po, py
KAS-87A-6	L24+00W, 12+64N	196.0	Interbedded mafic flows and sheared iron formation and mafic tuff overlie an amphibolitic-mafic intrusive.						
KAS-87A-7	L24+00W, 12+69N	256.0	Interbedded mafic flows and tuff overlie an amphibolitic- mafic intrusive.						

TABLE I

SUMMARY OF DIAMOND DRILL RESULTS

HOLE NO.	LOCATION	LENGTH FEET	GENERAL GEOLOGY	ASSAY NO.	OUNCES GOLD/TON	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-87A-8	L25+00W, 12+65N	216.0	Interbedded mafic tuffs and flows, minor diorite intrusives.		0.062	69.0	73.6	4.6	mafic tuff, 2-5% po
KAS-87A-9	L25+00W, 12+68N	316.0	Amphibolite overlies mafic tuff and flows.	10346	0.140 (0.142)	26.0	30.2	4.2	mafic tuff
				10360 to 10377 incl.	trace to 0.050	92.4	191.0	98.6	mafic tuff and flows
KAS-87A-10	L26+00W, 12+65N	326.0	Mafic flows and minor tuff.	10398 to 10412 incl.	trace to 0.092	18.9	77.0	58.1	mafic tuff with 7-20% quartz ± carbonate veining
				10473 to 10477 incl.	trace to 0.086	300.8	326.0	25.2	mafic flows, 3-5% quartz ± carbonate veining, trace-1% py, po, cpy, sph
KAS-87A-11	L26+00W, 12+63N	256.0	Intermediate to mafic tuff over mafic flows, an amphibolitic-mafic intrusive and mafic tuff.	10478 to 10483 incl.	trace to 0.034	14.0	41.0	27.0	mafic tuff, 2-3% py
KAS-87A-12	L25+03W, 15+95N (AZ, 210°)	286.0	Mafic flows hosting minor sediments and banded iron formation.	10591	0.044	281.0	286.0	5.0	mafic tuff and sediments, trace-2% py
KAS-87A-13	L25+00W, 15+94N (AZ, 180°)	226.0	As above with minor mafic intrusives.	10648	0.014	215.0	220.0	5.0	mylonite horizon in mixed greywacke, mudstone and tuff
				10649	0.010	220.0	223.0	3.0	
				10597	0.014	26.0	27.5	1.5	mafic intrusive
KAS-87A-14	L24+98W, 15+96N (AZ, 150°)	286.0	As per KAS-87A-12.	10654	0.020	30.0	33.0	3.0	silicified mafic flows with 2-3% magnetite
KAS-87A-15	L17+00W, 16+75N (AZ, 210°)	337.0	Mafic flows with numerous mylonitized zones and minor mafic intrusives	10785	0.028	332.0	337.0	5.0	mafic flows, carbonatized

TABLE I

SUMMARY OF DIAMOND DRILL RESULTS

HOLE NO.	LOCATION	LENGTH FEET	GENERAL GEOLOGY	ASSAY NO.	OUNCES GOLD/TON	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-87A-16	L17+00W, 16+75N (AZ,180°)	316.0	As above.						
KAS-87A-17	L16+97W, 16+74N (AZ,150°)	346.0	As above.						
KAS-87A-18	L47+00W, 3+48S	510.0	Siltstone to wacke overlying felsic tuff and mafic flows.						
KAS-87A-19	L49+00W, 3+49S	526.0	As above.						
KAS-87A-20	L51+00W, 3+04S	516.0	Interbedded siltstone, grey-wacke and felsic to intermediate tuff overlies mafic to intermediate flows.						
KAS-87A-21	L37+00W, 5+60S	406.0	As above with well defined sulphide zone at contact between mafics and felsics.						
KAS-87A-22	L56+00W, 23+00N	291.0	Interbedded felsic to intermediate tuff and siltstone overlain by mafic volcanics.						
KAS-87A-23	L44+00W, 23+54N	314.0	Felsic to intermediate tuff and siltstone overlies mafic flows and tuff.						
KAS-87A-24	L51+00W, 15+00N	380.0	Interbedded mafic flows, mafic to intermediate tuff and siltstone.						
KAS-87A-25	L34+00W, 12+40N	351.0	Mafic flows host felsic to mafic tuff.						

TABLE I

SUMMARY OF DIAMOND DRILL RESULTS

HOLE NO.	LOCATION	LENGTH FEET	GENERAL GEOLOGY	ASSAY NO.	OUNCES GOLD/TON	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-87A-26	L20+00W, 15+25N	415.0	A thick horizon of mafic flows host sheared iron formation and overlies interbedded mafic flows and felsic to intermediate tuff.	9684	0.020	349.3	354.0	4.7	
				9685	0.012	354.0	359.0	5.0	
				9686	0.168 (0.154)	359.0	353.0	4.0	
				9687	0.136 (0.130)	363.0	366.0	3.0	
				9688	0.130 (0.126)	366.0	371.0	5.0	
				9689	trace	371.0	376.0	5.0	
				9690	0.016	376.0	381.0	5.0	
				9691	0.012	381.0	382.1	1.1	
				9692	0.100 (0.098)	382.1	387.0	4.9	
KAS-87A-27	L20+00W, 16+25N	667.0	As above with minor mylonite zones.						
KAS-87A-28	L19+00W, 16+25N	606.0	As per KAS-87A-27.	1301	0.028	539.6	544.6	5.0	sheared mafic volcanics and iron formation, trace-4% py
				1302	0.024	544.6	548.3	3.7	
				1303	0.341	548.3	549.7	1.4	
				1304	0.010	549.7	553.0	3.3	
KAS-87A-29	L19+00W, 15+25N	406.0	As above.	9970	0.068	369.0	374.0	5.0	sheared mafic volcanics and iron formation, 1-4% po,py
				9971	0.164 (0.176)	374.0	378.8	4.8	
				9972	0.062	378.8	383.0	4.2	
KAS-87A-30	L21+00W, 16+22N	631.0	As above.	9983 to 9987 incl.	trace to 0.032	576.0	598.3	22.3	as above, 1-3% po,py
KAS-87A-31	L21+00W, 15+22N	444.0	As above.						
KAS-87A-32	L24+02W, 12+50N (AZ.210°)	226.0	Mafic flows hosting sheared mafic volcanics and iron formation	17674, 17684 to 17690 incl.	trace to 0.052	16.6	76.0	59.4	as above

TABLE I
SUMMARY OF DIAMOND DRILL RESULTS

HOLE NO.	LOCATION	LENGTH FEET	GENERAL GEOLOGY	ASSAY NO.	OUNCES GOLD/TON	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-87A-33	L24+00W, 12+50N (AZ, 180°)	206.0	As above.	6016 to 6029 Incl.	trace to 0.036	13.0	66.0	53.0	as above
KAS-87A-34	L24+00W, 12+50N (AZ, 150°)	226.0	As above.	6051 to 6063 Incl.	trace to 0.042	16.0	71.0	55.0	as above
KAS-87A-35	L12+02E, 7+28N (AZ, 325°)	505.0	Greywacke and felsic tuff overlie mafic flows hosting Iron formation (lean) and overlying felsic to inter- mediate tuffs, mafics cross- cut by mafic intrusives.	6272 6273 6274	0.016 0.278 0.004	366.0 370.2 373.7	370.2 373.7 375.0	4.2 3.5 1.3	-0.1 foot quartz vein, 2-3% py hosted in mafic flows
KAS-87A-36	L12+00E, 7+30N	466.0	As above.	6342 6343 6345 to 6354 Incl.	0.014 0.036 trace to 0.020	281.0 285.8 295.0	285.8 290.5 340.1	4.8 4.7 45.1	contact between mafic flows and mafic intrusive, 2-3% po, quartz + tourmaline veining mafic flows and Iron formation in contact with mafic intrusive
KAS-87A-37	L12+00E, 7+30N	526.0	Mafic flows crosscut by numerous mafic intrusives overlying felsic to intermediate tuffs.	6449	0.052 (0.048)	456.3	459.3	3.0	schistose, mafic flows
KAS-87A-38	L128+00E, 28+00N	436.0	Felsic to intermediate tuffs hosting banded Iron formation.						
KAS-87A-39	L120+00E, 15+00N	407.0	Felsic tuff overlying mafic flows.						

TABLE I
SUMMARY OF DIAMOND DRILL RESULTS

HOLE NO.	LOCATION	LENGTH FEET	GENERAL GEOLOGY	ASSAY NO.	OUNCES GOLD/TON	FOOTAGE			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-87A-40	L16+00W, 15+00N	437.0	Sheared-silicified mafic volcanics and iron formation are separated from an underlying sequence of mafic flows and felsic to intermediate tuffs by an amphibolite-mafic intrusive.	4062	0.095 (0.121)	422.0	424.5	2.5	sheared-silicified mafic volcanics and iron formation, 1-2% po, py
				4063	0.166 (0.185)	424.5	427.0	2.5	
				4064	0.051 (0.049)	427.0	429.5	2.5	
				4065	0.014	429.5	432.0	2.5	
				4066	0.008	432.0	434.5	2.5	
				4067	0.017	434.5	437.0	2.5	
				KAS-87A-41	L16+00W, 16+25N	607.0	As above, with minor mylonite and graphitic schist horizons	4166	
4167	0.060 (0.052)	581.2	582.4					1.2	
4168	0.004	582.4	587.0					4.6	
KAS-88-1	L12+00W, 16+29N	650.0	Interbedded felsic to intermediate tuff and mafic flows hosting sheared-silicified mafic volcanics and iron formation and crosscut by minor mafic dykes and mylonitic horizons.					4249	0.016
				4250	0.002	536.8	541.8	5.0	
				4251	0.028	541.8	546.7	4.9	
				4255	0.160 (0.172)	556.0	559.0	3.0	
				4256	0.026	559.0	562.0	3.0	
				4257	0.106 (0.114)	562.0	564.5	2.5	
				4258	0.044	564.5	567.0	2.5	
				4262	0.080 (0.084)	577.4	580.0	2.6	
				4263	0.160	580.0	583.0	3.0	
				4264	0.076 (0.082)	583.0	586.0	3.0	
KAS-88-2	L12+00W, 15+22N	492.0	Sheared-silicified iron formation and mafic volcanics hosted in mafic flows overlying interbedded felsic to intermediate tuffs and mafic to intermediate flows.	4354	trace to 0.064	436.5	462.5	26.0	silicified-sheared mafic volcanics and iron formation with up to 7% py, po
				4361	Incl.				
				4362	0.268 (0.286)	462.5	465.5	3.0	
				4363	0.106 (0.108)	465.5	468.5	3.0	
				4364	0.100 (0.098)	468.5	472.5	4.0	
				4365	0.002	472.5	475.0	2.5	
				4366	0.056 (0.062)	475.0	478.0	3.0	

TABLE I

SUMMARY OF DIAMOND DRILL RESULTS

HOLE NO.	LOCATION	LENGTH FEET	GENERAL GEOLOGY	ASSAY NO.	OUNCES GOLD/TON	FOOTAGE			SAMPLE DESCRIPTION			
						FROM	TO	TOTAL				
KAS-88-3	L8+00W, 16+28N	692.0	As per KAS-87A-40 with abundant crosscutting mafic dykes and mylonitic horizons.	4491	0.062	634.4	637.4	3.0	silicified-sheared mafic volcanics and iron formation with up to 5% py,po			
				4492	0.088	637.4	640.2	2.8				
				4497	0.070	652.2	655.2	3.0				
								(0.066)				
				4500	0.036	661.2	665.9	4.7	mafic flows			
				4501	0.010	665.9	670.9	5.0				
KAS-88-4	L8+00W, 15+25N	494.0	As per KAS-87A-40.	4584	0.020	465.3	470.0	4.7	mafic volcanics and lean iron formation, 1-2% py,po			
KAS-88-5	L4+00W, 15+96N	657.0	Mafic volcanics and iron formation overlying interbedded felsic to intermediate tuffs and mafic flows with cross-cutting mafic dykes and mylonitic horizons.	4710	0.090	642.4	645.4	3.0	mafic volcanics, 1-2% py			
KAS-88-5A	L4+06W, 15+96N	687.0	As above, with narrow altered-brecciated zone.	4838	0.016	654.9	657.9	3.0	banded iron formation, 2-5% py, po			
KAS-88-6	L4+00W, 15+00N	537.0	Mafic flows overlying sheared-silicified mafic volcanics and iron formation overlying felsic to intermediate tuffs and mafic to intermediate flows hosting minor banded iron formation	4935	0.020	488.9	491.3	2.4	sheared-silicified mafic volcanics and iron formation, 5-10% po, py			
				4936	0.194	491.3	494.3	3.0				
								(0.196)				
				4937	0.436	494.3	497.3	3.0				
								(0.446)				
				4938	0.164	497.3	500.3	3.0				
								(0.160)				
				4939	0.060	500.3	503.3	3.0	3-5% po,py			
								(0.068)				
				4940	0.026	503.3	507.3	4.0				
				4941	0.030	507.3	511.3	4.0				
				4942	0.002	511.3	514.8	4.0				
4943	0.014	514.8	518.3	3.5								
4944	0.068	518.3	521.5	3.2								
				(0.062)								
4945	0.040	521.5	524.5	3.0	mafic flows, minor iron formation bands, 1-2% po							
4946	0.068	524.5	527.5	3.0								
				(0.064)								
4947	0.010	527.5	532.0	3.0								
4948	0.002	532.0	537.0	5.0								

TABLE I
SUMMARY OF DIAMOND DRILL RESULTS

HOLE NO.	LOCATION	LENGTH FEET	GENERAL GEOLOGY	ASSAY NO.	OUNCES GOLD/TON	←---FOOTAGE---→			SAMPLE DESCRIPTION
						FROM	TO	TOTAL	
KAS-88-7	L4+00E, 15+25N	637.0	As per KAS-88-6.	13774	0.030	587.9	592.0	4.1	cherty iron formation and mafic volcanics with 1-5% po
				13775	0.232	592.0	594.0	2.0	
				13776	0.026	594.0	597.0	3.0	
				13777	0.032	597.0	601.6	4.6	
				13781	0.046	610.1	612.7	2.6	

11.0 CONCLUSIONS

During the current drilling program a broad zone of potentially economic gold mineralization was outlined in a horizon of sheared and locally silicified mafic tuffs and iron formation.

The horizon has been sporadically tested along 3700 feet of the 8000 foot strike length inferred from geophysical data.

The gold mineralization is associated with pyrrhotite replacement bodies within the horizon of mafic tuffs and iron formation. These sulphide shoots or zones appear to plunge eastward in the plane of the host horizon.

Additional surface work and diamond drilling is warranted and recommended to define the full extent of the gold-bearing zones.

12.0 RECOMMENDATIONS

A three-phase exploration program is recommended for the property.

12.1 Phase I

Additional surface work including:

a) A detailed ground magnetometer survey with profiles at 100 foot spacings and readings at 10 to 20 foot intervals from L8W to L64E between BLO and 18N.

b) A Horizontal Loop Electromagnetic (HLEM) survey with profiles over selected magnetics and VLF-EM axes to define potential zones of gold-bearing sulphides.

12.2 Phase II

Diamond Drilling; 32 holes totalling 11,300 feet of drilling, to test the gold-bearing horizon.

Proposed collars are listed in Table No. 2.

12.3 Phase III

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

TABLE 2 - PHASE II - PROPOSED DRILL COLLARS

HOLE NO.	LOCATION	AZIM.	DIP	PROPOSED FOOTAGE	VERTICAL DEPTH OF PENETRATION
1	L36W,1025N	0°	-45°	350'	200'
2	L34W,1025N	0°	-45°	350'	200'
3	L32W,14N	180°	-45°	325'	200'
4	L30W,14N	180°	-45°	325'	200'
5	L26W,14N	180°	-45°	325'	200'
6	L24W,14N	180°	-45°	325'	200'
7	L16W,14N	180°	-45°	325'	200'
8	L14W,14N	180°	-45°	325'	200'
9	L12W,14N	180°	-45°	325'	200'
10	L10W,14N	180°	-45°	325'	200'
11	L8W,14N	180°	-45°	325'	200'
12	6W,14N	180°	-45°	325'	200'
13	5W,15N	180°	-45°	550'	350'
14	5W,14N	180°	-45°	325'	200'
15	L4W,14N	180°	-45°	325'	200'
16	3W,15N	180°	-45°	550'	350'
17	3W,14N	180°	-45°	325'	200'
18	2W,14N	180°	-45°	325'	200'
19	L0+00,8N	0°	-45°	400'	250'
20	2E,8+25N	0°	-45°	350'	200'
21	L4E,8+25N	0°	-45°	350'	200'
22	6E,8+25N	0°	-45°	350'	200'
23	L8E,8+25N	0°	-45°	350'	200'
24	10E,8+25N	0°	-45°	350'	200'
25	14E,7+25N	0°	-45°	350'	200'
26	16E,7+25N	0°	-45°	350'	200'
27	18E,7+25N	0°	-45°	350'	200'
28	20E,7+25N	0°	-45°	350'	200'
29	22E,7+25N	0°	-45°	350'	200'
30	26E,7+25N	0°	-45°	350'	200'
31	28E,7+25N	0°	-45°	350'	200'
32	30E,7+25N	0°	-45°	350'	200'
				11,300 ft.	

13.0 ESTIMATED COST OF RECOMMENDED EXPLORATION PROGRAM

13.1 Phase I

Linecutting, 10 miles at \$350 per mile-----	\$3,500.00
Detailed Ground Magnetometer Survey, 10 miles at \$300 per mile-----	\$3,000.00
HLEM Survey, 12 miles at \$300 per mile-----	\$3,600.00
Cost of Phase I	<u>\$10,100.00</u>

13.2 Phase II

Diamond Drilling, 32 holes totalling 11,300 feet at \$40 per foot-----	\$452,000.00
Contingencies 20%-----	<u>\$ 90,400.00</u>
Total Cost of Phase II-----	<u>\$542,400.00</u>
Total Costs of Phases I and II-----	<u><u>\$552,500.00</u></u>

13.3 Phase III

Additional Diamond Drilling, amounts and costs contingent upon the results of Phase I and II.

Respectfully submitted,



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

14.0 REFERENCES

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- Ontario Geological Survey, Resident Geologists Files - Toronto and Sioux Lookout. Various unpublished assessment reports.
- Paradis, S. and Rampton, V.N., 1986. Report on Surficial Geology and its relevance to Geochemical Exploration in the Pickle Lake - Meen Lake Area; Carp, Ontario. Terrain Analyses and Mapping Services Ltd., July, 1986, unpublished.

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 September 2, 1987 to October 28, 1987 and from December 11, 1987 to December 17, 1987 and, from January 7, 1988 to February 9, 1988.

The statements contained in this report, and conclusions reached, are based upon the study of all available data including 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 3rd day of June, 1987.

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



APPENDIX B

RESAMPLING OF 1986-1987 DRILL HOLES

TABLE 3 - RESAMPLING OF 1986-1987 DRILL HOLES

HOLE NO.	ASSAY NO.	INTERVAL		TOTAL	ASSAY VALUES (oz.Au/ton)
		FROM	TO		
KAS-87-25	10001	23.0	27.0	4.0	Tr
KAS-87-25	10002	27.0	32.0	5.0	Tr
KAS-87-25	10003	32.0	37.0	5.0	Tr
KAS-87-25	10004	37.0	42.0	5.0	Tr
KAS-87-25	10005	42.0	46.7	4.7	Tr
KAS-87-25	10006	54.5	58.5	4.0	Tr
KAS-87-25	10007	176.2	178.2	1.8	Tr
KAS-87-25	10008	178.0	182.0	4.0	Tr
KAS-87-25	10009	182.0	187.0	5.0	Tr
KAS-87-25	10010	187.0	192.0	5.0	Tr
KAS-87-25	10011	192.0	197.0	5.0	.01
KAS-87-25	10012	197.0	202.0	5.0	.002
KAS-87-25	10013	202.0	207.0	5.0	Tr
KAS-87-25	10014	207.0	212.0	5.0	.014
KAS-87-25	10015	212.0	217.0	5.0	Tr
KAS-87-25	10016	217.0	222.0	5.0	Tr
KAS-87-25	10017	222.0	227.0	5.0	.030
KAS-87-25	10018	227.0	232.0	5.0	.020
KAS-87-25	10019	232.0	233.1	1.1	.012
KAS-87-25	10020	233.1	237.0	3.9	.028
KAS-87-25	10021	237.0	240.8	3.8	Tr
KAS-87-25	10022	240.8	242.5	1.7	Tr
KAS-87-25	10023	242.5	247.0	4.5	.020
KAS-87-25	10024	247.0	248.3	1.3	.078(.074)
KAS-87-25	10025	271.9	274.2	2.3	.040
KAS-87-26	10026	27.0	32.0	5.0	Tr
KAS-87-26	10027	78.0	80.9	2.9	Tr
KAS-87-26	10028	89.1	90.4	1.3	Tr
KAS-87-26	10029	135.6	137.7	2.1	Tr
KAS-87-26	10030	137.7	142.0	4.3	.006
KAS-87-26	10031	142.0	147.0	5.0	.026
KAS-87-26	10032	147.0	149.4	2.4	.014
KAS-87-26	10033	170.8	172.0	1.2	Tr
KAS-87-26	10034	182.8	186.1	3.3	Tr
KAS-87-26	10035	202.0	203.2	1.2	Tr
KAS-87-26	10036	211.4	213.2	1.8	Tr

TABLE 3 - RESAMPLING OF 1986-1987 DRILL HOLES

HOLE NO.	ASSAY NO.	INTERVAL		TOTAL	ASSAY VALUES (oz.Au/ton)
		FROM	TO		
KAS-87-28	5901	18.2	23.1	4.9	Tr
KAS-87-28	5902	23.1	28.1	5.0	Tr
KAS-87-28	5903	28.1	33.1	5.0	Tr
KAS-87-28	5904	33.1	37.0	3.9	Tr
KAS-87-28	5905	37.0	42.0	5.0	Tr
KAS-87-28	5906	42.0	46.0	4.0	Tr
KAS-87-28	5907	46.0	48.6	2.6	Tr
KAS-87-28	5908	48.6	53.5	4.9	Tr
KAS-87-28	5909	53.5	57.0	3.5	Tr
KAS-87-28	5910	57.0	62.0	5.0	Tr
KAS-87-28	5911	62.0	67.0	5.0	Tr
KAS-87-28	5912	67.0	72.0	5.0	Tr
KAS-87-28	5913	72.0	77.0	5.0	Tr
KAS-87-28	5914	77.0	79.6	2.6	Tr
KAS-87-28	5915	79.6	84.6	5.0	Tr
KAS-87-28	5916	84.6	89.0	4.4	Tr
KAS-87-28	5917	89.0	92.0	3.0	Tr
KAS-87-28	5918	92.0	94.0	2.0	Tr
KAS-87-28	5919	94.0	99.0	5.0	Tr
KAS-87-28	5920	99.0	102.5	3.5	Tr
KAS-87-28	5921	102.5	106.6	4.1	Tr
KAS-87-28	5922	106.6	111.5	4.9	Tr
KAS-87-28	5923	111.5	114.5	3.0	Tr
KAS-87-28	5924	114.5	119.5	5.0	Tr
KAS-87-28	5925	119.5	122.0	2.5	Tr
KAS-87-28	5926	122.0	125.0	3.0	Tr
KAS-87-28	5927	125.0	130.0	5.0	Tr
KAS-87-28	5928	130.0	135.0	5.0	Tr
KAS-87-28	5929	135.0	140.0	5.0	.002
KAS-87-28	5930	140.0	143.0	3.0	.002
KAS-87-28	5931	143.0	146.0	3.0	Tr
KAS-87-28	5932	146.0	150.4	4.4	Tr
KAS-87-28	5933	150.4	154.9	4.5	.002
KAS-87-28	5934	154.9	160.0	5.1	.004
KAS-87-28	5935	160.0	164.9	4.9	.020
KAS-87-28	5936	164.9	169.9	5.0	.008

TABLE 3 - RESAMPLING OF 1986-1987 DRILL HOLES

HOLE NO.	ASSAY NO.	INTERVAL		TOTAL	ASSAY VALUES (oz.Au/ton)
		FROM	TO		
KAS-87-28	5937	169.9	172.0	2.1	Tr
KAS-87-28	5938	172.0	177.0	5.0	.002
KAS-87-28	5939	177.0	182.0	5.0	Tr
KAS-87-28	5940	182.0	187.0	5.0	.004
KAS-87-28	5941	187.0	192.0	5.0	.028
KAS-87-28	5942	192.0	197.0	5.0	.002
KAS-87-28	5943	197.0	202.0	5.0	.008
KAS-87-28	5944	202.0	207.0	5.0	.002
KAS-87-28	5945	207.0	210.5	3.5	Tr
KAS-87-28	5946	210.5	214.0	3.5	Tr
KAS-87-28	5947	214.0	218.7	4.7	Tr
KAS-87-28	5948	218.7	221.2	2.5	Tr
KAS-87-28	5949	221.2	226.0	4.8	Tr
KAS-87-28	5950	226.0	231.0	5.0	Tr
KAS-87-28	5951	231.0	235.0	4.0	Tr
KAS-87-28	5952	235.0	238.0	3.0	Tr
KAS-87-28	5953	238.0	242.8	4.8	Tr
KAS-87-28	5954	242.8	244.4	1.6	Tr
KAS-87-28	5955	244.4	248.0	3.6	Tr
KAS-87-28	5956	248.0	252.0	4.0	Tr
KAS-87-28	5957	252.0	257.0	5.0	Tr
KAS-87-31	4847	127.0	130.0	3.0	.002
KAS-87-31	4848	130.0	131.0	1.0	.382(.378)
KAS-87-31	4849	131.0	132.8	1.8	Tr
KAS-87-31	4850	178.7	182.9	4.2	.002
KAS-87-31	4851	182.9	186.5	3.6	Tr
KAS-87-31	4852	186.5	190.4	3.9	Tr

APPENDIX C

DIAMOND DRILL LOGS

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-1 LENGTH 296.0'
 LOCATION 20+00W, 13+53N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -61°
 STARTED September 2/87 FINISHED September 3/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
296.0	-48.5				

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

REMARKS PA786808
PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE FROM TO	TOTAL	%	%	Au OZ/TON	OZ/TON
0.0	9.0	CASING.								
9.0	36.0	FELSIC TO INTERMEDIATE TUFF.								
36.0	36.6	MAFIC FLOW.								
36.6	40.1	FELSIC TO INTERMEDIATE TUFF.								
40.1	42.4	MAFIC FLOWS.								
42.4	45.2	FELSIC TO INTERMEDIATE TUFF.								
45.2	46.8	MAFIC FLOWS.								
46.8	48.4	FELSIC TO INTERMEDIATE TUFF.								
48.4	49.8	INTERMEDIATE TUFF.								
49.8	74.2	MAFIC FLOWS.								
74.2	74.9	FELSIC TO INTERMEDIATE TUFF.								
74.9	77.6	MAFIC FLOWS.								
77.6	117.6	INTERBEDDED FELSIC TO INTERMEDIATE AND INTERMEDIATE TUFFS.								
117.6	147.3	SHEARED MAFIC VOLCANIC (FLOWS?) -	10063		141.0	146.0	5.0		.014	
147.3	198.0	SHEARED IRON FORMATION AND MAFIC VOLCANICS -	10067		156.0	159.5	3.5		.168	
			10068		159.5	163.0	3.5		.174	Check
			10072		176.0	181.0	5.0		.120	Check
			10075		187.9	191.3	3.4		.122	Check
			10076		191.3	196.0	4.7		.064	Check
			10077		196.0	198.0	2.0		.182	Check
									.168	Check
									.018	
									.058	
									.056	Check

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-1

SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	%	Au oz TON	oz TON
					FROM	TO				
198.0	210.9	<u>SHEARED MAFIC VOLCANIC (FLOWS?).</u>								
210.9	228.9	<u>MAFIC FLOWS.</u>								
228.9	234.0	<u>AMPHIBOLITE (MAFIC INTRUSIVE).</u>								
234.0	241.4	<u>MAFIC FLOWS.</u>								
241.4	243.6	<u>QUARTZ-FELDSPAR PORPHYRY INTRUSIVE.</u>								
243.6	296.0	<u>MAFIC FLOWS.</u>								
	296.0	<u>E.O.H.</u>								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-1 LENGTH 296.0'
 LOCATION 20+00W, 13+53N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -61°
 STARTED September 2/87 FINISHED September 3/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
296.0	-48.5				

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

REMARKS PA786808
PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON	
					FROM	TO					TOTAL
0.0	9.0	Casing.									
9.0	36.0	Felsic to Intermediate Tuff - dark grey to brown to dark green, fine grained, laminated. Modal percent: Quartz] 50-55% Feldspar] Sericite 10-15% Amphibole 10-15% Chlorite 5-10% Biotite 3-5% Pyrite 2-3% Carbonate 0.5-1% Pyrrhotite tr-0.5% Highly fractured, microfaulting with minor breccia zones with mylonite matrix and 3-5% pyrite, fractures sharp with irregular alteration consisting quartz-carbonate-epidote, abundant lapilli and quartz eyes throughout, quartz-carbonate-pyrite-tourmaline stringers - widely spaced, pyrite and pyrrhotite as disseminated grains, fracture fillings or blebs and bands parallel to foliation, foliation 43-46° to core axis across section, fractures at 6° to core axis at 11.0'.	10037		9.0	12.0	3.0			tr	
			10038		12.0	16.0	4.0			tr	
			10039		16.0	21.0	5.0			tr	
			10040		21.0	26.0	5.0			tr	
			10041		26.0	31.0	5.0			tr	
			10042		31.0	36.0	5.0			tr	
36.0	36.6	Mafic Flow - dark green, fine grained, massive with slight alignment of chlorite. Modal percent: Amphibole 40-45% Quartz] 35-40% Feldspar] Chlorite 10-15% Fine grained phaneritic, fracturing at 38° to core axis, trace disseminated pyrite.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A1

SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au OZ TON	OZ TON
					FROM	TO		
36.6	40.1	<u>Felsic to Intermediate Tuff</u> - typical, foliation at 57° to core axis at 37.0'.	10043		36.6	40.1	3.5	tr
40.1	42.4	<u>Mafic Flows</u> - typical, foliation at 52° to core axis.						
42.4	45.2	<u>Felsic to Intermediate Tuff</u> - typical, minor 1/4" pyrite band.	10044		42.4	45.2	2.8	tr
45.2	46.8	<u>Mafic Flows</u> - typical.						
46.8	48.4	<u>Felsic to Intermediate Tuff</u> - typical, trace-1% pyrite, minor fracturing.	10045		46.8	48.4	1.6	tr
48.4	49.8	<u>Intermediate Tuff</u> - dark green to grey, fine grained, crudely banded. Modal percent: Amphibole 40-45% Quartz] 30-35% Feldspar] Chlorite 15-20%	10046		48.4	49.8	1.4	tr
49.8	74.2	<u>Mafic Flows</u> - typical, fine to medium grained, irregular wispy foliation, common epidote-quartz-carbonate interflow bands, trace-1% pyrite and pyrrhotite, foliation at 37° to core axis at 58.0', conjugate fracture sets at 45° and 52° to core axis, single fracture sets at 10° and 28° to core axis.						
		- 61.6' - 64.6' - shear, partially carbonatized mafic flows, fine cherty-mylonitic green-pink-white gouge, strongest deformation at 61.6'.	10047		61.6	64.6	3.0	tr
		- 73.0' - 73.4' - quartz-epidote carbonate interflow bed.						
74.2	74.9	<u>Felsic to Intermediate Tuff</u> - typical.						
74.9	77.6	<u>Mafic Flows</u> - typical. - 76.2' - 76.5' - minor felsic to intermediate tuff bed, typical.						
77.6	117.6	<u>Interbedded Felsic to Intermediate and Intermediate Tuffs</u> - textural changes due to deformation?						

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-1

 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	Au oz/ton		
					FROM	TO	TOTAL				
77.6	117.6	Cont'd. - 77.6' - 106.0' - laminated to banded, trace-1% disseminated pyrite, minor quartz-tourmaline veins and stringers up to 0.1-foot. - 106.0' - 112.7' - irregular banding, common quartz eyes up to 1/4", generally stretched, trace pyrite. - 112.7' - 115.0' - intermediate tuff, trace pyrite. - 115.0' - 117.6' - cherty-felsic tuff, mottled-laminated, pink to grey. Foliation at 41° to core axis at 81.0'; 44° to core axis at 87.0'; 45° to core axis at 101.0'; 38° to core axis at 111.0'; 41° to core axis at 116.0'.	10048		77.6	82.6	5.0		.006		
			10049		82.6	86.0	3.4		tr		
			10050		86.0	91.0	5.0		tr		
			10051		91.0	96.0	5.0		tr		
			10052		96.0	101.0	5.0		tr		
			10053		101.0	106.0	5.0		tr		
			10054		106.0	111.0	5.0		tr		
			10055		111.0	112.7	1.7		tr		
			10056		112.7	116.0	3.3		tr		
			10057		116.0	117.6	1.6		tr		
117.6	147.3	Sheared Mafic Volcanic (Flows?) - dark green to black to grey, fine to medium grained, striped to crudely banded. Modal percent: Quartz] 45-50% Feldspar] Amphibole 40-45% Carbonate 2-3% Garnet tr-2% Magnetite tr-0.5% Pink poikiloblastic garnets, abundant discordant quartz-carbonate-pyrite (0.5-1%) stringers and veins, cherty-quartz-carbonate bands, trace tourmaline, generally non-magnetic foliation at 52° to core axis at 131.0'.	10058		117.6	121.0	3.4		tr		
			10059		121.0	126.0	5.0		tr		
			10060		126.0	131.0	5.0		tr		
			10061		131.0	136.0	5.0		tr		
			10062		136.0	141.0	5.0		tr		
			10063		141.0	146.0	5.0		.014		
			10064		146.0	147.3	1.3		.002		
147.3	198.0	Sheared Iron Formation and Mafic Volcanic - black to grey, fine grained, striped to mottled to banded.	10065		147.3	151.0	3.7		tr		
			10066		151.0	156.0	5.0		tr		
			10067		156.0	159.5	3.5		.168	.174	Check
			10068		159.5	163.0	3.5		.120	.122	Check
			10069		163.0	166.0	3.0		.004		
			10070		166.0	171.0	5.0		tr		
			10071		171.0	176.0	5.0		tr		
			10072		176.0	181.0	5.0		.064	.060	Check

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-1

 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au 07 TON	GZ TON	
					FROM	TO			TOTAL
147.3	198.0	Modal percent: Quartz] 40-45% Feldspar] Amphibole 30-35% Carbonate 1-3% Magnetite 0.5-2% Garnet tr-5% Pyrrhotite tr-5% Pyrite tr-3% Magnetite as disseminated grains in felsic bands or as wispy bands, garnet in amphibole-rich bands as stretched poikiloblastic grains, pyrrhotite and pyrite as disseminated wispy blebs and as cores or mantles in garnets. - 151.0' - 163.0' - 3-5% pyrrhotite. - 187.9' - 191.3' - irregular quartz veining with carbonate, tourmaline, and 1-2% pyrite as fracture coatings. Foliation at 48° to core axis at 142.0'. Foliation at 42° to core axis at 188.0'. Foliation at 45° to core axis at 194.0'.	10073	181.0	186.0	5.0	tr		
			10074	186.0	187.9	1.9	.004		
			10075	187.9	191.3	3.4	.182		
			10076	191.3	196.0	4.7	.168	Check	
			10077	196.0	198.0	2.0	.018		
								.058	
								.056	Check
198.0	210.9	<u>Sheared Mafic Volcanic</u> - as above, minor quartz veining, trace-1% pyrite.	10078	198.0	201.0	3.0	tr		
			10079	201.0	206.0	5.0	tr		
			10080	206.0	210.9	4.9	tr		
210.9	228.9	<u>Mafic Flows</u> - typical, fine to medium grained, abundant limonite-hematite staining along fractures parallel to core axis. - 212.7' - 213.2' - narrow shear, highly fractured with carbonate infilling. - 216.3' - 217.3' - discordant shear at 40° to core axis, partially brecciated, pink dolomite matrix, trace disseminated pyrite.	10081	211.7	214.2	2.5	tr		
			10082	216.3	217.3	1.0	tr		
			10083	228.9	234.0	5.1	tr		
228.9	234.0	<u>Amphibolite</u> - grey to black, coarse grained, massive.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-1

SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au OZ TON	OZ TON
					FROM	TO		
228.9	234.0	Cont'd. Modal percent: Plagioclase] 45-50% Sericite] Amphibole 40-45% Potash feldspar 3-5% Magnetite 1-2% Amphibolitic, possibly mafic intrusive, minor quartz veining with 1-2% pyrite on contacts, few widely spaced fractures.						
234.0	241.4	Mafic Flows - atypical, trace-2% magnetite, massive to slightly foliated, minor fine grained albite wisps, common quartz-carbonate-epidote interflow beds. Foliation at 47° to core axis at 241.0'.	10084		234.0	237.0	3.0	tr
			10085		237.0	242.4	5.4	tr
241.4	243.6	Quartz Feldspar Porphyry Intrusive - pink to black, fine to medium grained porphyritic, massive to slightly foliated. Modal percent: Quartz] 75-80% Feldspar] Chlorite 10-15% Pyrite 3-5% Medium grained feldspar phenocrysts, partially aligned with foliated chlorite grains, 0.4-foot section highly chloritic with 3-5% pyrite, banded to massive quartz vein with trace-0.5% pyrite on fractures at 242.9' - 243.6'.	10086	3-5	241.4	243.6	2.2	tr
243.6	296.0	Mafic Flows - typical, fractures subparallel to core axis with limonite, hematite and carbonate coatings, common albite wisps. - 278.3' - 284.9' - cherty clean white quartz vein, potash feldspar on contacts, trace disseminated tourmaline, hematite and chlorite. Foliation at 44° to core axis at 293.5'.	10087		278.3	281.0	2.7	tr
			10088		281.0	284.9	3.9	tr
	296.0	E.O.H.						

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-2 LENGTH 233.0'
 LOCATION 20+00W, 13+53N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 150° DIP -47°
 STARTED September 3/87 FINISHED September 4/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
233.0	37.8				

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

REMARKS PA786808
PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON
					FROM	TO				
0.0	12.0	CASING.								
12.0	38.6	FELSIC TO INTERMEDIATE TUFF.								
38.6	40.5	MAFIC FLOWS.								
40.5	46.0	FELSIC TO INTERMEDIATE TUFF.								
46.0	59.3	MAFIC FLOWS.								
59.3	104.9	FELSIC TO INTERMEDIATE TUFF.								
104.9	136.0	MAFIC FLOWS.								
136.0	173.3	SHEARED IRON FORMATION AND MAFIC VOLCANICS -	00096		136.0	141.0	5.0		.016	
			00097		141.0	146.0	5.0		.020	
			00098		146.0	151.0	5.0		.054	
									.054	Check
			00099		151.0	156.0	5.0		.068	
									.062	Check
			0100		156.0	161.0	5.0		.036	
			0101		161.0	166.0	5.0		.014	
173.3	233.0	MAFIC FLOWS.								
	233.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-2 LENGTH 233.0'
 LOCATION 20+00W, 13+53N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 150° DIP -47°
 STARTED September 3/87 FINISHED September 4/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
233.0	37.8				

HOLE NO. KAS-87A-2 SHEET NO. 1 of 2
 REMARKS PA786808
PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON
					FROM	TO				
0.0	12.0	Casing.								
12.0	38.6	Felsic to Intermediate Tuff - dark grey to dark green to black, fine grained, laminated to banded. Modal percent: Quartz 45-50% Sericite 25-30% Chlorite 10-15% Amphibole 3-5% Pyrite tr-3% Carbonate tr-1% Minor quartz eyes, frequently segregated sericite, quartz, chlorite and amphibole bands, foliation at 46° to core axis at 16.0', 46° at 30.0'. - 12.0' - 30.0' - highly fractured with quartz-epidote fracture fillings, trace-0.5% disseminated pyrite, minor quartz stringers and bands - 3-5% disseminated pyrite blebs in last 3.0'	10089	tr-.5	12.0	16.0	4.0			.006
			10090	tr-.5	16.0	21.0	5.0			tr
			10091	tr-.5	21.0	26.0	5.0			tr
			10092	tr-.5	26.0	30.0	4.0			tr
38.6	40.5	Mafic Flows - dark green, fine grained, massive. Modal percent: Amphibole 45-50% Quartz Plagioclase] 35-40% Chlorite 5-10% Fine grained phaneritic, closely spaced fractures at 43° to core axis.								
40.5	46.0	Felsic to Intermediate Tuff - typical.	10093	tr-1	40.5	44.0	3.5			tr
46.0	59.3	Mafic Flows - typical, weak foliation at 55° to core axis at 56.0'								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-2

SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE			Au 07 TON	02 TON
					FROM	TO	TOTAL		
59.3	104.9	Felsic to Intermediate Tuff - typical, trace-1% pyrite as fine bands, foliation at 57° to core axis at 61.0', 49° at 71.0', 50° at 86.0', fractures at 38° at 61.0'. - 76.0' - 86.0' - 0.5-1% disseminated pyrite.	10094	5-1	76.0	81.0	5.0	tr	
			10095	5-1	81.0	86.0	5.0	tr	
104.9	136.0	Mafic Flows - atypical, medium grained, common cherty bands, foliation at 60° to core axis at 104.9', 45° at 112.0', 54° at 125.0', 65° at 134.0'.							
136.0	173.3	Sheared Iron Formation and Mafic Volcanics - dark grey to greenish grey to black to white, fine grained, crudely banded to striped. Modal percent: Quartz 25-30% Chlorite 20-25% Amphibole 20-25% Sericite 5-7% Garnet 3-5% Carbonate 3-5% Magnetite tr-3% Pyrite tr-1%	10096	tr-1	136.0	141.0	5.0	.016	
			10097	tr-1	141.0	146.0	5.0	.020	
			10098	tr-1	146.0	151.0	5.0	.054	
			10099	tr-1	151.0	156.0	5.0	.068	Check
			10100	tr-1	156.0	161.0	5.0	.062	Check
			10101	tr-1	161.0	166.0	5.0	.036	
			10102	tr-1	166.0	171.0	5.0	.014	
			10103	tr-1	171.0	173.3	2.3	tr	
		Medium grained disseminated pink poikiloblastic garnets throughout, disseminated magnetite blebs in some horizons, pyrite on fractures and as disseminated grains, foliation at 50° to core axis at 161.0'.							
173.3	233.0	Mafic Flows - typical, fine grained, minor albite wisps, minor discordant mafic dykes. - 202.0' - 206.0' - coarse grained co-evol mafic dyke. - 223.0' - 223.3' - discordant, granite dyke at 48° to core axis. - 225.0' - 228.5' - discordant-irregular co-evol mafic dyke.	10105		202.0	206.0	4.0	tr	
			10104		222.0	224.3	2.3	tr	
			10106		225.0	228.5	3.5	tr	
233.0		E.O.H.							

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DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-3 LENGTH 266.0'
 LOCATION 20+00W, 13+64N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 210° DIP -45°
 STARTED September 4/87 FINISHED September 5/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
266.0	37°				

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

REMARKS PA786808
PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON
					FROM	TO				
0.0	7.0	CASING.								
7.0	41.8	FELSIC TO INTERMEDIATE TUFF.								
41.8	64.6	MAFIC FLOWS.								
64.6	98.5	FELSIC TO INTERMEDIATE TUFF.								
98.5	130.4	INTERMEDIATE TO MAFIC TUFF.								
130.4	173.7	SHEARED MAFIC TUFF AND IRON FORMATION -	10124		136.0	141.0	5.0			.020
			10129		161.0	166.0	5.0			.018
			10130		166.0	171.0	5.0			.020
			10131		171.0	173.7	2.7			.016
173.7	266.0	MAFIC FLOWS.								
	266.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-3 LENGTH 266.0'
 LOCATION 20+00W, 13+64N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 210° DIP -45°
 STARTED September 4/87 FINISHED September 5/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
266.0	37°				

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

REMARKS PA786808
PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	7.0	Casing.									
7.0	41.8	Felsic to Intermediate Tuff - dark grey to black to dark green, fine grained, laminated to banded. Modal percent: Quartz 35-40% Sericite 35-40% Chlorite 10-15% Carbonate 1-3% Pyrite tr-2% Abundant quartz eyes, abundant discordant quartz stringers, fine to medium grained disseminated pyrite. - 18.8' - 20.6' - breccia zone, quartz-carbonate infilling-matrix. Foliation at 58° to core axis at 10.0', 54° at 25.0', 53° at 40.0' fractures at 37-42° to core axis.	10107	tr-2	7.0	11.0	4.0			tr	
			10108	tr-2	11.0	16.0	5.0			tr	
			10109	tr-2	16.0	21.0	5.0			tr	
			10110	tr-2	21.0	26.0	5.0			tr	
			10111	tr-2	26.0	31.0	5.0			tr	
			10112	tr-2	31.0	36.0	5.0			tr	
			10113	tr-2	36.0	41.8	5.8			tr	
41.8	64.6	Mafic Flows - dark green to black, fine to medium grained, massive. Modal percent: Amphibole 35-40% Quartz Plagioclase] 35-40% Chlorite 15-20% Amphibolitic, minor widely spaced fractures and quartz stringers, fractures at 38-44° to the core axis, foliation at 45° to core axis at 50.0', 55° at 55.0', 52° at 61.0'. - 53.6' - 54.1' - quartz vein discordant, epidote on contacts, trace - 0.5% disseminated pyrite. - 63.6' - 64.6' - highly fractured with quartz-carbonate infilling, 0.5-1% disseminated pyrite blebs.	10114	tr-.5	53.0	54.5	1.5			.002	

DIAMOND DRILL RECORD

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

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE		Au OZ TON	OZ TON	
					FROM	TO			TOTAL
64.6	98.5	<p><u>Felsic to Intermediate Tuff - typical.</u></p> <p>- 64.6' - 86.0' - trace - 2% pyrite as bands and disseminated grains.</p> <p>- 86.0' - 95.7' - banded, few quartz eyes, abundant lapilli.</p> <p>Foliation at 50° to core axis at 64.6', 47° at 83.5', 52° at 96.0'.</p>	0115	tr-2	64.6	66.0	1.4	tr	
			0116	tr-2	66.0	71.0	5.0	tr	
			0117	tr-2	71.0	76.0	5.0	tr	
			0118	tr-2	76.0	81.0	5.0	tr	
			0119	tr-2	81.0	86.0	5.0	tr	
			0120		86.0	91.0	5.0	tr	
			0121		91.0	95.7	4.7	tr	
			0122		95.7	98.5	2.8	tr	
98.5	130.4	<p><u>Intermediate to Mafic Tuff - dark green to dark grey, fine grained, crudely banded.</u></p> <p>Modal percent: Amphibole 45-50%</p> <p>Quartz] 40-45%</p> <p>Plagioclase]</p> <p>Carbonate 3-5%</p> <p>Pyrrhotite tr-0.5%</p> <p>Pyrite trace</p> <p>Amphibolitic, abundant quartz-carbonate bands and stringers, fine grained disseminated-wispy blebs of sulphides, foliation at 54° to core axis across interval.</p>							
130.4	173.7	<p><u>Sheared Mafic Tuff and Iron Formation - dark green to black to grey, fine grained, crudely banded to striped.</u></p> <p>Modal percent: Quartz 35-40%</p> <p>Amphibole 25-30%</p> <p>Sericite] 15-20%</p> <p>Chlorite]</p> <p>Garnet 1-5%</p> <p>Magnetite 1-3%</p> <p>Carbonate tr-1%</p> <p>Pyrrhotite]</p> <p>Pyrite] tr-1%</p>	0123	tr-1	130.4	136.0	5.6	tr	
			0124	tr-1	136.0	141.0	5.0	.020	
			0125	tr-1	141.0	146.0	5.0	tr	
			0126	tr-1	146.0	151.0	5.0	tr	
			0127	tr-1	151.0	156.0	5.0	.008	
			0128	tr-1	156.0	161.0	5.0	tr	
			0129	tr-1	161.0	166.0	5.0	.018	
			0130	tr-1	166.0	171.0	5.0	.020	
			0131	tr-1	171.0	173.7	2.7	.016	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-3

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		AU OZ TON	OZ TON
					FROM	TO		
130.4	173.7	Cont'd. Segregated garnet-chlorite-amphibole bands and quartz-amphibole-magnetite bands, common quartz stringers and chert bands, fine grained wispy pyrrhotite and pyrite blebs and grains, frequently as cores of, or mantles around garnet porphyroblasts, foliation at 60° to core axis at 135.0', fractures at 42° to core axis at 163.0'.						
173.7	266.0	Mafic Flows - typical, trace - 2% pyrrhotite as blebs parallel to foliation. - 173.7' - 210.1' - trace-1% magnetite, common chert bands. - 210.1' - 266.0' - non-magnetic. - 218.8' - 220.6' - coarse grained coevol mafic dyke, 0.5-1% pyrite, 1-2% magnetite contacts at 40° to core axis. - 232.8' - 236.0' - mafic dyke as above, trace-0.5% magnetite. - 254.3' - 258.7' - mafic dyke as above, 3-5% magnetite contacts at 60° to core axis. Foliation at 60° to core axis at 193.0', 50° at 229.0', 48° at 259.0'.	10132	tr-2	173.7	178.7	5.0	tr
			10133		196.3	197.6	1.3	tr
			10134		218.8	220.6	1.8	tr
			10135		232.8	236.0	3.2	tr
			10136		254.3	258.7	4.4	tr
266.0		E.O.H.						

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-4 LENGTH 206.0'
 LOCATION 23+00W, 12+65N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -49°
 STARTED September 5/87 FINISHED September 5/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
206.0	43.3°				

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

REMARKS PA786808
PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	Au	
					FROM	TO			TOTAL	OZ/TON
0.0	11.5	CASING.								
11.5	74.5	SHEARED - INTERBEDDED MAFIC VOLCANICS AND IRON FORMATION -	0144		36.0	38.7	2.7		.014	
			0153		66.0	68.4	2.4		.028	
			0155		69.6	73.1	3.5		.040	
74.5	165.1	MAFIC TUFF -								
		- 97.8' - 98.3' - quartz vein.	0157		74.5	76.0	1.5		.058	
			0161		91.0	96.0	5.0		.054	Check
			0163		101.0	106.0	5.0		.018	
		- 108.2' - 116.2' - quartz vein, 2-3% pyrite, 2-5% pyrrhotite	0164		106.0	108.2	2.2		.048	
			0167		116.2	121.0	4.8		.016	
			0169		126.0	130.2	4.2		.062	
		- 130.2' - 131.8' - chert bands, 3-5% pyrrhotite.	0170		130.2	135.1	4.9		.012	
		- 132.4' - 132.8' - quartz bands, pyrrhotite.							.022	
		- 135.1' - 142.4' - quartz vein, 2-3% pyrite, 2-5% pyrrhotite	0171		135.1	138.6	3.5		.028	
			0172		138.6	172.4	3.8		.022	
		- 144.1' - 146.8' - chert bands, 2-3% pyrrhotite.								
		- 150.6' - 151.0' - quartz vein.								
165.1	206.0	MAFIC FLOWS.								
	206.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-4 LENGTH 206.0'
 LOCATION 23+00W, 12+65N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -49°
 STARTED September 5/87 FINISHED September 5/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
206.0	43.3°				

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

REMARKS PA786808

PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		Ag ppm	%	Au oz/TON	oz/TON
				FROM	TO	TOTAL				
0.0	11.5	Casing.								
11.5	74.5	<p>Sheared Interbedded Mafic Volcanics and Iron Formation - mafic volcanic; dark green to black, fine grained, foliated.</p> <p>Modal percent: Amphibole 45-50% Quartz] 45-50% Plagioclase] Carbonate tr-0.5% Pyrite trace</p> <p>Phaneritic, few widely spaced fractures, iron formation; dark grey to black, fine grained, banded to massive.</p> <p>Modal percent: Quartz 55-60% Amphibole 25-30% Pyrrhotite 1-3% Magnetite tr-3% Pyrite tr-2% Biotite tr-2% Carbonate tr-1% Garnet tr-0.5%</p> <p>Irregular-unoriented to slightly aligned amphibole prisms in cherty groundmass with 1-3% magnetite, amphibole-biotite bands with minor pink garnet porphyroblasts, common chert bands and quartz-carbonate-pyrrhotite stringers, disseminated grains and blebs of sulphide throughout, probable sheared mafic flows.</p> <p>- 11.5' - 13.9' - mafic volcanic, foliation at 58° to core axis.</p> <p>- 13.9' - 17.9' - iron formation.</p> <p>- 17.9' - 19.2' - mafic volcanic.</p>								
			10137	11.5	13.9	2.4	1.2		tr	
			10138	13.9	17.9	4.0	1.8		tr	
			10139	17.9	20.6	2.7	1.6		tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-4

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	SULPH IDES	FOOTAGE			Ag ppm	Au OZ TON	OZ TON
					FROM	TO	TOTAL			
11.5	74.5	Cont'd.								
		- 19.2' - 20.6' - iron formation.	10140		20.6	26.0	5.4	1.2		tr
		- 20.6' - 32.8' - mafic volcanic.	10141		26.0	31.0	5.0	1.4		tr
			10142		31.0	32.8	1.8	0.6		tr
		- 32.8' - 42.7' - iron formation.	10143		32.8	36.0	3.2	0.4		tr
		- 38.7' - 42.7' - 0.5' quartz vein with 3-5% coarse grained pyrrhotite and possible argentite or tetrahedrite, foliation at 52° to core axis.	10144		36.0	38.7	2.7	1.2		.014
			10145	3-5	38.7	42.7	4.0	0.2		tr
		- 42.7' - 54.6' - mafic volcanic.	10146		42.7	46.0	3.3	0.4		tr
			10147		46.0	51.0	5.0	0.2		tr
			10148		51.0	54.6	3.6	N.D.		tr
		- 54.6' - 56.8' - iron formation.	10149		54.6	56.8	2.2	0.6		tr
		- 56.8' - 60.0' - mafic volcanic.								
		- 60.0' - 61.2' - finely bedded mafic volcanics and iron formation.	10150		56.8	61.2	4.4	0.8		tr
		- 61.2' - 67.1' - mafic volcanic, foliation at 35° to core axis at 65.0'.								
		- 61.2' - 62.4' - cherty quartz vein with disseminated chlorite.	10151		61.2	62.4	1.2	1.2		tr
			10152		62.4	66.0	3.6	0.4		tr
			10153		66.0	68.4	2.4	0.6		.028
		- 67.1' - 67.4' - iron formation, massive.								
		- 67.4' - 68.4' - mafic volcanic, abundant cherty quartz-carbonate veins - stringers.								
		- 68.4' - 69.6' - iron formation, foliated at 28° to core axis.	10154		68.4	69.6	1.2	1.0		tr
		- 69.6' - 73.1' - mafic volcanic.	10155		69.6	73.1	3.5	1.0		.040
		- 73.1' - 74.5' - iron formation.	10156		73.1	74.5	1.4	0.4		tr
74.5	165.1	Mafic Tuff - medium to dark green to white, fine grained, banded. Modal percent: Amphibole 30-35% Quartz 20-25%								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-4

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE		Ag ppm	Au oz TON	oz TON	
					FROM	TO				TOTAL
74.5	165.1	Cont'd.								
		Chlorite 10-15%								
		Sericite 5-10%								
		Carbonate 5-7%								
		Pyrrhotite 1-5%								
		Pyrite tr-3%								
		Carbonatized, chloritized, magnetic, abundant quartz veining, chert-carbonate bands and stringers with 1-5% pyrrhotite as disseminated grains or stringers, trace-3% pyrite as disseminated grains or fracture fillings. Foliation at 40° to core axis at 78.0', 46° at 86.0', 50° at 96.0', 45° at 105.0', 47° at 121.0', 51° at 134.0', 53° at 156.0'.	10157	1-5	74.5	76.0	1.5	0.6	.058	Check
			10158	1-5	76.0	81.0	5.0	0.4	.054	
			10159	1-5	81.0	86.0	5.0	0.6	.002	
			10160	1-5	86.0	91.0	5.0	1.0	tr	
			10161	1-5	91.0	96.0	5.0	1.2	tr	
		- 97.8' - 98.3' - cherty banded quartz vein.	10162	1-5	96.0	101.0	5.0	1.0	.018	Check
			10163	1-5	101.0	106.0	5.0	1.8	.002	
			10164	1-5	106.0	108.2	2.2	1.2	.048	
			10165	4-8	108.2	112.2	4.0	1.4	.016	
			10166	4-8	112.2	116.2	4.0	0.8	.002	
		- 108.2' - 116.2' - cherty quartz-carbonate vein, abundant chloritized-carbonatized mafic inclusions with 2-3% pyrite and 2-5% pyrrhotite.	10167	1-5	116.2	121.0	4.8	0.8	tr	Check
			10168	1-5	121.0	126.0	5.0	1.0	.062	
			10169	1-5	126.0	130.2	4.2	0.8	.062	
			10170	1-5	130.2	135.1	4.9	1.0	tr	
			10171	4-8	135.1	138.6	3.5	0.4	.012	
		- 130.2' - 131.8' - irregular, cherty bands and quartz stringers, 3-5% pyrrhotite.	10172	4-8	138.6	142.4	3.8	0.8	.022	Check
			10173	1-5	142.4	146.8	4.4	0.4	.028	
			10174	1-5	146.8	151.0	4.2	0.4	.006	
		- 132.4' - 132.8' - coarse grained quartz bands with coarse grained pyrrhotite blebs.	10175	1-5	151.0	156.0	5.0	0.4	tr	
			10176	1-5	156.0	161.0	5.0	0.2	tr	
		- 135.1' - 142.4' - as per 108.2' - 116.2'.	10177	1-5	161.0	165.1	4.1	0.4	tr	Check
			10178	1-5	161.0	165.1	4.1	0.4	.028	
			10179	1-5	161.0	165.1	4.1	0.4	.022	
		- 144.1' - 146.8' - chert bands and quartz stringers with 2-3% medium grained pyrrhotite blebs.	10180	1-5	161.0	165.1	4.1	0.4	tr	
			10181	1-5	161.0	165.1	4.1	0.4	tr	
		- 150.6' - 151.0' - banded cherty quartz vein.	10182	1-5	161.0	165.1	4.1	0.4	tr	Check
			10183	1-5	161.0	165.1	4.1	0.4	tr	
			10184	1-5	161.0	165.1	4.1	0.4	tr	
			10185	1-5	161.0	165.1	4.1	0.4	tr	
			10186	1-5	161.0	165.1	4.1	0.4	tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-4

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE		Ag ppm	Au oz ton	oz ton		
				FROM	TO	TOTAL					
165.1	206.0	Mafic Flows - typical, fine to medium grained, few fractures and chert bands, abundant albite wisps, foliation at 47° to core axis at 176.0' and 54° at 194.0'. - 200.9' - 202.2' - quartz-epidote-carbonate interflow band, trace pyrite.	10178	tr	200.9	202.2	1.3	0.4		tr	
	206.0	E.O.H.									

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-5 LENGTH 256.0'
 LOCATION 23+00W, 12+68N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -76°
 STARTED September 6/87 FINISHED September 7/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
256.0	70.9				

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

REMARKS PA786808

PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	10.0	CASING.									
10.0	43.1	SHEARED IRON FORMATION AND MAFIC TUFF.	0181		16.0	21.0	5.0			.016	
			0184		31.0	36.0	5.0			.012	
			0185		36.0	41.0	5.0			.020	
43.1	75.5	MAFIC FLOWS.	0187		49.8	51.3	1.5			.026	
75.5	83.9	INTERBEDDED MAFIC TUFF AND CHERT - 60:40.									
83.9	98.6	MAFIC FLOWS.									
98.6	119.5	MAFIC TUFF AND CHERT - 45:55.									
119.5	136.6	MAFIC FLOWS.									
136.6	138.4	MAFIC TUFF AND CHERT - as above.									
138.4	146.2	MAFIC FLOWS.									
146.2	167.3	MAFIC TUFF -	10201		146.2	151.0	4.8			.066	Check
			10202		151.0	156.0	5.0			.064	
			10213		220.0	222.0	2.0			.014	
167.3	256.0	MAFIC FLOWS AND TUFF - 70:30.								.024	
256.0	256.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-5 LENGTH 256.0'
 LOCATION 23+00W, 12+68N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -76°
 STARTED September 6/87 FINISHED September 7/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
256.0	70.9				

HOLE NO. KAS-87A-5 SHEET NO. 1 of 3
 REMARKS PA786808
PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	10.0	Casing.									
10.0	43.1	Sheared Iron Formation and Mafic Tuff - dark grey to dark green to black, fine grained, crudely banded to laminated, poorly foliated. Modal percent: Amphibole 35-40% Quartz 25-30% Chlorite 10-15% Sericite 5-10% Pyrrhotite 1-3% Magnetite tr-1% Garnet tr-1% Pyrite tr-1% Amphibolitic overgrowth of schistose amphibole-chlorite bands, pink porphyroblastic garnets in mafic bands, abundant chert-carbonate bands, foliation at 18° to core axis at 14.0', 22° at 26.0' 19° at 43.0'.	10179	1-3	10.0	13.0	3.0			.002	
			10180	1-3	13.0	16.0	3.0			tr	
			10181	1-3	16.0	21.0	5.0			.016	
			10182	1-3	21.0	26.0	5.0			tr	
			10183	1-3	26.0	31.0	5.0			tr	
			10184	1-3	31.0	36.0	5.0			.012	
			10185	1-3	36.0	41.0	5.0			.020	
			10186	1-3	41.0	43.1	2.1			.002	
43.1	75.5	Mafic Flows - dark green, medium grained, massive. Modal percent: Amphibole 50-55% Quartz Plagioclase] 40-45% Carbonate 0.5-1% Pyrite tr-0.5% Amphibolitic, few widely spaced fractures and chert-carbonate bands. - 49.8' - 51.3' - tuff horizon with 0.4-foot quartz-carbonate vein, foliation at 33° to core axis.	10187		49.8	51.3	1.5			.026	
75.5	83.9	Interbedded Mafic Tuff and Chert - 60:40, typical, 1-2% disseminated pink porphyroblastic garnets in chlorite-amphibole wisps in	10188	tr-1	75.5	78.5	3.0			tr	
			10189	tr-1	78.5	83.9	5.4			tr	

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DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-5

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE		%	%	Au	
					FROM	TO			TOTAL	OZ TON
75.5	83.9	Cont'd. chert, trace-1% pyrrhotite as medium grained blebs, minor quartz veining.								
83.9	98.6	Mafic Flows - medium to coarse grained, trace-1% magnetite, abundant-irregular chert bands, minor quartz veining, foliation at 20° to core axis at 83.9'.	10190		83.9	86.0	2.1		tr	
			10191		86.0	91.0	5.0		tr	
			10192		91.0	96.0	5.0		tr	
			10193		96.0	98.6	2.6		tr	
98.6	119.5	Mafic Tuff and Chert - as above, 45:55, foliation at 15° to core axis at 101.0'. - 98.6' - 109.1' - 0.5-1% pyrrhotite, 1-2% magnetite.	10194	.5-1	98.6	103.6	5.0		tr	
			10195	.5-1	103.6	106.0	2.4		tr	
			10196	.5-1	106.0	109.1	3.1		tr	
			10197		109.1	111.9	2.8		tr	
		- 111.9' - 119.5' - massive chert with minor amphibole grains partially aligned with foliation.	10198		111.9	116.0	4.1		tr	
			10199		116.0	119.5	3.5		tr	
119.5	136.6	Mafic Flows - medium grained, typical.								
136.6	138.4	Mafic Tuff and Chert - typical, as above.	10200		136.6	138.4	1.8		tr	
138.4	146.2	Mafic Flows - as above.								
146.2	167.3	Mafic Tuff - dark green to brown to grey, fine grained, banded. Modal percent: Amphibole 45-50% Quartz] 25-30% Plagioclase] Chlorite 10-15% Carbonate 1-2% Pyrrhotite] 1-2% Pyrite] Magnetite tr-1%	10201	1-2	146.2	151.0	4.8		.066	Check
			10202	1-2	151.0	156.0	5.0		.064	
			10203	1-2	156.0	161.0	5.0		.014	
			10204	1-2	161.0	164.0	3.0		tr	
			10205	1-2	164.0	167.3	3.3		.002	
									.004	
		Abundant chert-carbonate bands and quartz-carbonate stringers, sulphides in chert bands as stringers, foliation at 32° to core axis at 147.0', 28° at 156.0', 22° at 167.0', fracture at 52° to core axis at 156.0'.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-5

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE			Au OZ TON	OZ TON
					FROM	TO	TOTAL		
167.3	256.0	Mafic Flows and Tuff - 70:30, typical, trace-2% pyrite as fracture coatings, stringers and disseminated grains, foliation at 27° to core axis at 198.0', 26° at 216.0', 32° at 244.0', 4° at 255.0', fractures at 28° and 58° to core axis at 250.0'. - 180.1' - 181.7' - cherty tuff, abundant chlorite. - 186.2' - 210.2' - cherty tuff, trace-3% pyrrhotite and pyrite, quartz stringers common. - 220.0' - 222.0' - 0.2-foot massive <u>tourmaline</u> pod with 2-3% disseminated pyrite. - 225.0' - 232.5' - 1-2% pyrite on closely spaced fractures, subparallel to core axis. - 255.0' - 256.0' - quartz-carbonate-pyrite stringers, trace-1% pyrite.	10206	tr-2	180.1	181.7	1.6	tr	
			10207	tr-2	181.7	186.2	4.5	tr	
			10208	tr-3	186.2	191.0	4.8	tr	
			10209	tr-3	191.0	196.0	5.0	tr	
			10210	tr-3	196.0	201.0	5.0	tr	
			10211	tr-3	201.0	206.0	5.0	.002	
			10212	tr-3	206.0	210.2	4.2	tr	
			10213	2-3	220.0	222.0	2.0	.024	
			10214	tr-2	222.0	225.0	3.0	tr	
			10215	1-2	225.0	228.0	3.0	tr	
			10216	1-2	228.0	232.5	4.5	tr	
			10307	tr-1	251.0	256.0	5.0	tr	
256.0		E.O.H.							

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-6 LENGTH 196.0'
 LOCATION 24+00W, 12+64N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -50°
 STARTED September 8/87 FINISHED September 8/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
196.0	50.5				

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

REMARKS PA786807
PA786808

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	10.0	CASING.								
10.0	44.3	AMPHIBOLITE.								
44.3	53.2	SHEARED IRON FORMATION AND MAFIC TUFF.								
53.2	91.2	MAFIC FLOWS.								
91.2	129.3	SHEARED MAFIC TUFF AND IRON FORMATION.	10241		111.0	116.0	5.0			.022
129.3	196.0	MAFIC FLOWS.	10253		166.0	171.0	5.0			.010
	196.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-6 LENGTH 196.0'
 LOCATION 24+00W, 12+64N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -50°
 STARTED September 8/87 FINISHED September 8/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
196.0	50.5				

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

REMARKS PA786807
PA786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	10.0	Casing.									
10.0	44.3	Amphibolite - dark green to dark grey, medium to coarse grained, massive to slightly schistose. Modal percent: Amphibole 40-45% Plagioclase 25-30% Chlorite 10-15% Quartz 3-5% Magnetite 1-2% Carbonate 1-2% Epidote 0.5-1% Pyrrhotite] 0.5-1% Pyrite] Amphibolitic, few widely spaced fractures and minor shears, common quartz-carbonate veins and stringers with 1-2% disseminated sulphides, foliation at 52° to core axis at 12.0', 50° at 30.5', possible mafic intrusive.	10218	.5-1	10.0	13.0	3.0			tr	
			10219	.5-1	13.0	16.0	3.0			tr	
			10220	.5-1	16.0	21.0	5.0			tr	
			10221	.5-1	21.0	26.0	5.0			tr	
			10222	.5-1	26.0	31.0	5.0			tr	
			10223	.5-1	31.0	36.0	5.0			tr	
			10224	.5-1	36.0	41.0	5.0			tr	
			10225	.5-1	41.0	44.3	3.3			tr	
44.3	53.2	Sheared Iron Formation and Mafic Tuff - grey to dark green, fine grained, banded. Modal percent: Quartz 35-40% Amphibole 25-30% Chlorite 10-15% Sericite 5-7% Carbonate 1-2% Pyrrhotite 1-2% Magnetite 0.5-3% Garnets 0.5-1% Segregated quartz-sericite-magnetite bands and chlorite-amphibole-garnet bands, abundant chert bands, disseminated pyrrhotite blebs and grains throughout.	10226	1-2	44.3	49.3	5.0			tr	
			10227	1-2	49.3	53.2	4.9			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-6

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au OZ TON	OZ TON					
					FROM	TO	TOTAL							
53.2	91.2	<p>Mafic Flows - dark green, fine to medium grained, massive to schistose.</p> <p>Modal percent: Amphibole 50-55% Quartz 35-40% Plagioclase] Carbonate 1-2% Pyrrhotite 1-2% Pyrite tr-0.5% Magnetite tr-0.5%</p> <p>Amphibolitic, medium grained horizons with 2-3% coarse grained pyrrhotite blebs, common chert and quartz-carbonate bands, stringers and veins, foliation at 50° to core axis at 46.0', 54° at 90.0', fractures at 40° to core axis at 57.0', 50° at 68.0'. - 72.8' - 74.5' - medium grained flows. - 84.1' - 88.9' - medium grained flows. - 88.9' - 91.2' - disseminated magnetite and pyrrhotite throughout.</p>	10228	1-2	53.2	56.0	2.8			tr				
			10229	1-2	56.0	61.0	5.0			tr				
			10230	1-2	61.0	66.0	5.0			tr				
			10231	1-2	66.0	71.0	5.0			tr				
			10232	1-3	71.0	76.0	5.0			tr				
			10233	1-3	76.0	81.0	5.0			tr				
			10234	1-3	81.0	84.1	3.1			tr				
			10235	1-3	84.1	88.9	4.8			.002				
			10236	1-3	88.9	91.2	2.3			tr				
			91.2	129.3	<p>Sheared Mafic Tuff and Iron Formation - typical, spotty magnetic horizons with tr-2% pyrrhotite and/or tr-3% magnetite, foliation at 56° to core axis at 96.0' and 55° at 116.0'.</p>	10237	tr-2	91.2	96.0	4.8			tr	
						10238	tr-2	96.0	101.0	5.0			tr	
						10239	tr-2	101.0	106.0	5.0			tr	
						10240	tr-2	106.0	111.0	5.0			tr	
10241	tr-2	111.0				116.0	5.0			.022				
10242	tr-2	116.0				121.0	5.0			tr				
10243	tr-2	121.0				126.0	5.0			tr				
10244	tr-2	126.0				129.3	3.3			tr				
129.3	196.0	<p>Mafic Flows - typical, 1-2% fine grained pyrrhotite throughout, 0.5-1% pyrite as fracture coatings, minor chert bands, foliation at 46° to core axis at 146.0', 45° at 166.0', 38° at 186.0', fractures at 35° to core axis at 146.0', 27° at 176.0', 25° at 185.0'.</p>	10245	1-2	129.3	131.0	1.7			.002				
			10246	1-2	131.0	136.0	5.0			tr				
			10247	1-2	136.0	141.0	5.0			tr				
			10248	1-2	141.0	146.0	5.0			tr				
			10249	1-2	146.0	151.0	5.0			tr				
			10250	1-2	151.0	156.0	5.0			tr				
			10251	1-2	156.0	161.0	5.0			tr				
			10252	1-2	161.0	166.0	5.0			tr				

DIAMOND DRILL RECORD

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

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE			Au	OZ TON	OZ TON	OZ TON
					FROM	TO	TOTAL				
129.3	196.0	Cont'd.	0253	1-2	166.0	171.0	5.0	.010			
			0254	1-2	171.0	176.0	5.0	tr			
			0255	1-2	176.0	181.0	5.0	tr			
			0256	1-2	181.0	186.0	5.0	tr			
			0257	1-2	186.0	191.0	5.0	tr			
			0258	1-2	191.0	196.0	5.0	tr			
	196.0	E.O.H.									

[Handwritten signature]

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-7 LENGTH 256.0'
 LOCATION 24+00W. 12+69N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -76°
 STARTED September 7/87 FINISHED September 7/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
256.0	73°				

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

REMARKS PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		%	%	Au OZ/TON	OZ/TON
				FROM	TO				
0.0	5.0	CASING.							
5.0	67.3	AMPHIBOLITE.							
67.3	94.4	MAFIC TUFF.	10266	81.0	86.0	5.0		.014	
94.4	99.6	MAFIC FLOWS.							
99.6	102.0	MAFIC TUFF.							
102.0	129.9	MAFIC FLOWS.							
129.9	152.4	MAFIC TUFF.							
152.4	256.0	MAFIC FLOWS AND TUFF - 90:10	10302	225.8	230.8	5.0		.014	
256.0	256.0	E.O.H.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-7 LENGTH 256.0'
 LOCATION 24+00W, 12+69N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -76°
 STARTED September 7/87 FINISHED September 7/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
256.0	73°				

HOLE NO. KAS-87A-7 SHEET NO. 1 of 3

REMARKS PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	5.0	Casing.									
5.0	67.3	Amphibolite - dark green to dark grey, coarse grained, massive to slightly schistose. Modal percent: Amphibole 40-45% Plagioclase } 40-45% Quartz } Chlorite 3-5% Carbonate 2-3% Pyrrhotite tr-1% Pyrite tr-0.5% Magnetite tr-0.5% Amphibolitic, weakly carbonatized, few widely spaced fractures and quartz-carbonate bands, patches of disseminated sulphides and magnetite, trace chalcopyrite. Foliation at 32° to core axis at 16.5', 34° at 39.0'. fracture sets at 56° to core axis at 50.0'. - 17.0' - 17.5' - chloritized-carbonatized with 1-2% pyrrhotite stringers, trace-0.5% disseminated pyrite, 0.5-1% disseminated chalcopyrite. - 34.5' - 43.8' - 1-2% disseminated pyrrhotite and pyrite, trace chalcopyrite.	10259	tr-1	5.0	10.0	5.0			tr	
			10260	1-2	16.0	21.0	5.0			tr	
			10261	1-2	34.5	39.0	4.5			tr	
			10262	1-2	39.0	43.8	4.8			tr	
67.3	94.4	Mafic Tuff - dark green to black to white, fine grained, crudely banded to laminated to striped. Modal percent: Quartz 40-45% Amphibole 30-35% Chlorite 5-10% Garnets 1-2% Carbonate 1-2% Pyrrhotite tr-3%	10263	tr-3	67.3	71.0	3.7			tr	
			10264	tr-3	71.0	76.0	5.0			tr	
			10265	tr-3	76.0	81.0	5.0			tr	
			10266	tr-3	81.0	86.0	5.0			.014	
			10267	tr-3	86.0	91.0	5.0			.004	
			10268	tr-3	91.0	94.4	3.4			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-7

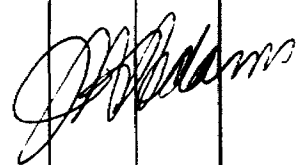
SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE		Au	oz ton	oz ton
					FROM	TO			
67.3	94.4	Cont'd. Pyrite tr-2% Magnetite tr-1% Abundant quartz-carbonate veining (20-30%) with disseminated sulphides and magnetite, pyrite as fractures coatings, disseminated pink garnet porphyroblasts in amphibole-chlorite bands, amphibole consists of 5-10% grunerite, banding at 45° to core axis at 71.0'.							
94.4	99.6	Mafic Flows - dark green, fine grained, massive with weak schistosity. Modal percent: Amphibole 40-45% Quartz] 40-45% Plagioclase] Chlorite 5-10% Pyrite tr-0.5% Amphibolitic, few widely spaced fractures, foliation at 33° to core axis at 94.4'.	10269	tr-.5	94.4	96.0	1.6		tr
			10270	tr-.5	96.0	99.6	3.6		tr
99.6	102.0	Mafic Tuff - as above, 1-2% disseminated sulphides.	10271	1-2	99.6	102.0	2.4		tr
102.0	129.9	Mafic Flows - typical, quartz-carbonate stringers and quartz-epidote-carbonate veins, trace-1% disseminated pyrrhotite. - 120.7' - 123.8' - quartz rich, 1-2% pyrrhotite.	10272	tr-1	102.0	106.0	4.0		tr
			10273	tr-1	106.0	111.0	5.0		tr
			10274	tr-1	111.0	116.0	5.0		tr
			10275	tr-1	116.0	120.7	4.7		tr
			10276	1-2	120.7	123.8	3.1		tr
			10277	tr-1	123.8	126.9	3.1		tr
			10278	tr-1	126.9	129.9	3.0		tr
129.9	152.4	Mafic Tuff - as above, common irregular quartz-carbonate-pyrrhotite stringers (trace-1%) disseminated fine to coarse grained garnet porphyroblasts, banding at 47° to core axis at 137.0', foliation at 27° to core axis at 151.0', fractures at 58° to core axis at 151.0'	10279	tr-1	129.9	132.5	2.6		tr
			10280	tr-1	132.5	136.0	3.5		tr
			10281	tr-1	136.0	141.0	5.0		tr
			10282	tr-1	141.0	146.0	5.0		tr
			10283	tr-1	146.0	150.0	4.0		.002
			10284	tr-1	150.0	152.4	2.4		.002
152.4	256.0	Mafic Flows and Tuff - 90:10, typical, regular closely spaced fractures sets with 0.5-1% pyrite as coatings, minor quartz-carbonate stringers, trace-3% magnetite throughout.	10285	tr-1	152.4	157.0	4.6		tr

DIAMOND DRILL RECORD

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

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		AU OZ TON	OZ TON	OZ TON
					FROM	TO			
152.4	256.0	Cont'd.							
		- 155.0' - 156.0' - mafic tuff, numerous quartz-carbonate stringers.							
		- 164.1' - 165.1' - 1-2% magnetite in massive grey quartz.	10286		164.1	165.1	1.0		tr
		- 168.5' - 170.1' - 2-3% magnetite in massive grey quartz.	10287		168.5	170.1	1.6		tr
			10288	.5-1	170.1	175.8	5.7		tr
		- 175.8' - 176.6' - mafic tuff, typical.	10289	.5-1	175.8	180.7	4.9		tr
		- 180.7' - 182.9' - mafic tuff, typical.	10290	tr-1	180.7	182.9	2.2		tr
			10291	tr-1	182.9	185.4	2.5		tr
		- 185.4' - 188.9' - mafic tuff, typical.	10292	tr-1	185.4	188.9	3.5		tr
			10293	.5-1	188.9	193.4	4.5		tr
			10294	tr-1	193.4	197.4	4.0	.002	
			10295	tr-1	197.4	202.4	5.0	.002	
			10296	tr-1	202.4	207.6	5.2		tr
			10297	tr-1	207.6	211.5	3.9		tr
			10298	tr-1	211.5	216.0	4.5		tr
			10299	tr-1	216.0	221.0	5.0		tr
			10300	tr-1	221.0	223.0	2.0		tr
		- 223.0' - 225.8' - mafic tuff, trace-1% pyrite blebs, no magnetite.	10301	tr-1	223.0	225.8	2.8		tr
			10302	tr-1	225.8	230.8	5.0	.014	
			10303	tr-1	230.8	235.8	5.0		tr
			10304	tr-1	235.8	240.0	4.2		tr
		- 240.5' - 241.0' - quartz vein, 3-5% pyrrhotite and pyrite stringers.	10305	3-5	240.0	241.5	1.5		tr
		- 245.0' - 246.0' - mafic tuff, typical.	10306	tr-1	241.5	246.0	4.5		tr
		Foliation averages 24° to core axis. Fracture sets at 69° to core axis at 153.0', 60° at 187.0', 63° at 222.0', 52° at 244.0', banding at 40° to core axis at 206.0'.							
	256.0	E.O.H.							



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-8 LENGTH 216.0'
 LOCATION 25+00W, 12+65N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -50°
 STARTED September 9/87 FINISHED September 9/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
216.0	-44.5				

HOLE NO. KAS-87A-8 SHEET NO. 1 of 1

REMARKS PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	AU OZ/TON	OZ/TON
0.0	3.0	CASING.							
3.0	45.8	SHEARED - SILICIFIED MAFIC TUFF AND IRON FORMATION - 0.5-3% pyrrhotite, tr-0.5% pyrite, tr-2% magnetite.	10314		26.1 28.2 2.1			.010	
45.8	61.1	MAFIC FLOWS.							
61.1	73.6	MAFIC TUFF.	10323		66.0 69.0 3.0			.012	
			10324		69.0 73.6 4.6			.062	
73.6	146.8	MAFIC FLOWS AND TUFF - 90:10	10325		73.6 76.0 2.4			.028	
146.8	147.1	DIORITE INTRUSIVE.							
147.1	176.5	MAFIC FLOWS AND TUFF - 90:10							
176.5	178.5	DIORITE INTRUSIVE.							
178.5	216.0	MAFIC FLOWS AND TUFF - 50:50							
	216.0	E.O.H.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-8 LENGTH 216.0'
 LOCATION 25+00W, 12+65N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -50°
 STARTED September 9/87 FINISHED September 9/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
216.0	44.5°				

HOLE NO. KAS-87A-8 SHEET NO. 1 of 3

REMARKS PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	3.0	Casing.									
3.0	45.8	Sheared-Silicified Mafic Tuff and Iron Formation - dark green to black to grey, fine grained, banded - schistose. Modal percent: Quartz 35-40% Amphibole 25-30% Sericite 10-15% Chlorite 5-7% Carbonate 1-3% Pyrrhotite 0.5-3% Magnetite tr-2% Pyrite tr-0.5% Disseminated magnetite in felsic, quartz-sericite bands, pyrrhotite in amphibole-chlorite bands, abundant quartz-carbonate bands and stringers. Foliation at 45° to core axis at 6.0', 44° at 16.0', 38° at 28.0', 44° at 45.8'. - 3.0' - 24.5' - 2-3% pyrrhotite. - 24.5' - 26.1' - brecciated, discordant quartz stringers with chlorite inclusions. - 26.1' - 28.2' - trace-2% pyrrhotite as sparse bands. - 28.2' - 30.4' - brecciated zone, quartz-carbonate matrix, discordant quartz stringers with 1-2% sulphides. - 30.4' - 45.8' - typical tuff, as per 3.0' - 24.5'. - 34.5' - 36.7' - 3-5% pyrrhotite as blebs, quartz rich.	10308	2-3	3.0	6.0	3.0			tr	
			10309	2-3	6.0	11.0	5.0			tr	
			10310	2-3	11.0	16.0	5.0			tr	
			10311	2-3	16.0	21.0	5.0			tr	
			10312	2-3	21.0	24.5	3.5			tr	
			10313		24.5	26.1	1.6			tr	
			10314	tr-2	26.1	28.2	2.1			.010	
			10315	1-2	28.2	30.4	2.2			tr	
			10316	2-3	30.4	34.5	4.1			.002	
			10317	3-5	34.5	36.7	2.2			tr	
			10318	2-3	36.7	41.0	4.3			tr	
			10319	2-3	41.0	45.8	4.8			tr	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-8

 SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO	SULPHIDES	FOOTAGE		TOTAL	Au OZ TON	OZ TON
					FROM	TO			
45.8	61.1	Mafic Flows - dark green, fine grained, massive. Modal percent: Amphibole 50-55% Quartz 40-45% Plagioclase] Carbonate 1-2% Pyrite tr-0.5% Magnetite tr-0.5%	10320	tr	45.8	49.0	3.2		tr
		Amphibolitic, abundant quartz-carbonate stringers and bands, foliation at 51° to core axis at 58.0'.	10321	tr	58.1	61.1	3.0		tr
61.1	73.6	Mafic Tuff - atypical, amphibolitic, banded to schistose, abundant quartz-carbonate stringers with trace-3% disseminated to banded pyrrhotite, foliation at 47° to core axis at 62.0'. - 69.0' - 73.6' - 2-3% pyrrhotite.	10322	tr-3	61.1	66.0	4.9		.008
			10323	tr-3	66.0	69.0	3.0		.012
			10324	2-3	69.0	73.6	4.6		.062
73.6	146.8	Mafic Flows and Tuff - 90:10, typical, trace-1% disseminated pyrrhotite, 1-2% pyrite as fracture coatings, foliation averages 45° to core axis, fractures at 52° to core axis at 96.0', 47° at 118.0'. - 83.4' - 86.0' - tuff, abundant quartz-carbonate stringers. - 87.5' - 91.4' - tuff, typical. - 96.0' - 96.6' - chloritized tuff, 0.5-1% magnetite. - 99.7' - 100.2' - quartz-carbonate-epidote vein, trace-0.5% pyrite. - 131.5' - 134.4' - discordant quartz-carbonate stringers with trace -1% sulphides.	10325	tr-2	73.6	76.0	2.4		.028
			10326		83.4	87.5	4.1		tr
			10327		87.5	91.4	3.9		tr
			10328		91.4	96.0	4.6		tr
			10329	tr-.5	96.0	100.2	4.2		tr
			10330	tr-1	131.0	136.0	5.0		tr
146.8	147.1	Diorite Intrusive - dark green, very fine grained, massive. Modal percent: Quartz 50-55% Plagioclase] Amphibole 40-45% Carbonate 1-2%	10331		146.0	148.4	2.4		tr
		Slightly crosscutting, sharp contacts, no fractures.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-8

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPH IDES	FOOTAGE			%	%	Au OZ TON	OZ TON
					FROM	TO	TOTAL				
147.1	176.5	Mafic Flows and Tuff - 90:10, typical foliation at 45° to core axis at 148.4'. - 148.4' - 150.6' - tuff, typical. - 154.6' - 157.1' - discordant quartz-carbonate stringers, 1-2% carbonate throughout. - 165.7' - 166.9' - fractured - silicified, mauve coloured, quartz-carbonate fracture filling.	10332		148.4	150.6	2.2			tr	
			10333		150.6	154.6	4.0			.002	
			10334		154.6	157.1	2.5			tr	
			10335		165.0	167.0	2.0			tr	
176.5	178.5	Diorite Intrusive - typical, subparallel to core axis, irregular contacts with quartz-carbonate stringers parallel to contacts.	10336		176.5	178.5	2.0			tr	
178.5	216.0	Mafic Flows and Tuff - 50:50, typical. - 178.5' - 179.8' - fine grained flows. - 179.8' - 186.0' - carbonatized tuff, abundant-discordant quartz-carbonate veins. - 186.0' - 189.4' - medium grained amphibolitic flows. - 189.4' - 190.6' - carbonatized mafic tuff. - 190.6' - 216.0' - medium grained, amphibolitic flows, fracturing at 35° to core axis at 209.0'.	10337		178.5	179.8	1.3			tr	
			10338		179.8	182.5	2.7			tr	
			10339		182.5	186.0	3.5			tr	
			10340		186.0	190.6	4.6			.006	
	216.0	E.O.H.									

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-9 LENGTH 316.0'
 LOCATION 25+00W, 12+68N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -75°
 STARTED September 9/87 FINISHED September 10/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
316.0	67.5°				

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

REMARKS PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Au	
					FROM	TO			TOTAL	oz/TON
0.0	2.0	CASING.								
2.0	63.0	MAFIC TUFF.	10346		26.0	30.2	4.2		.146	Check
								.142		
63.0	245.0	MAFIC FLOWS AND TUFF.	10363		101.0	104.7	3.7		.018	
			10364		104.7	109.7	5.0		.050	
			10365		109.7	114.7	5.0		.010	
			10369		151.0	155.0	4.0		.012	
			10375		176.0	181.0	5.0		.024	
			10376		181.0	186.0	5.0		.030	
245.0	316.0	AMPHIBOLITE.								
	316.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-9 LENGTH 316.0'
 LOCATION 25+00W, 12+68N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -75°
 STARTED September 9/87 FINISHED September 10/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
316.0	67.5°				

HOLE NO. KAS-87A-9 SHEET NO. 1 of 3

REMARKS PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au oz/TON	oz/TON
					FROM	TO	TOTAL				
0.0	2.0	Casing.									
2.0	63.0	Mafic Tuff - dark green to black to grey, fine grained, banded. Modal percent: Amphibole } 40-45% Grunerite } Quartz } 35-40% Sericite } 3-5% Carbonate } 3-5% Magnetite } tr-3% Pyrrhotite } Pyrite } tr-2% Magnetite disseminated in quartz-sericite bands, sulphide in amphibole bands, abundant quartz-carbonate stringers in upper portion of section, foliation averages 28° to core axis. Fractures at 62° to core axis at 56.0'. - 43.7' - 53.5' - abundant, irregular quartz-carbonate stringers with trace-1% sulphides, 3-5% coarse grained, pink, porphyroblastic garnets in garnet-chlorite bands, minor brecciation.	10341 tr-2	2.0	7.0	5.0			tr		
			10342	7.0	12.0	5.0			.002		
			10343	12.0	16.0	4.0			tr		
			10344	16.0	21.0	5.0			.002		
			10345	21.0	26.0	5.0			tr		
			10346	26.0	30.2	4.2			.146		
									.142	Check	
			10347	30.2	35.0	4.8			tr		
			10348	35.0	40.0	5.0			.002		
			10349	40.0	43.7	3.7			.004		
			10350 tr-1	43.7	48.7	5.0			.004		
			10351 tr-1	48.7	53.5	4.8			.006		
			10352 tr-2	53.5	58.5	5.0			tr		
			10353 tr-2	58.5	63.0	4.5			.002		
63.0	245.0	Mafic Flows and Tuffs - flows are dark green, fine to medium grained, massive. Modal percent: Amphibole } 50-55% Quartz } Plagioclase } 40-45% Carbonate } tr-1% Pyrite } Pyrrhotite } trace Fine grained flows - slightly foliated, medium grained flows - amphibolitic, massive, few widely spaced fractures. Foliation									

LANGRIGES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-9

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SULPH IDES	FOOTAGE		AU OZ TON	OZ TON
					FROM	TO		
63.0	245.0	Cont'd. averages 22° to core axis and varies between 14° and 32°, fracturing averages 63° and 4° to core axis. - 63.0' - 69.3' - fine grained flows. - 69.3' - 75.8' - tuff. - 75.8' - 88.7' - fine grained flows. - 88.7' - 89.7' - tuff. - 89.7' - 92.4' - fine grained flows. - 92.4' - 122.2' - tuff, minor biotite-garnet bands, fracturing subparallel to core axis. - 98.1' - 104.7' - abundant-discordant quartz-carbonate stringers, 1-3% coarse grained pyrrhotite blebs, 3-5% carbonate. - 122.2' - 151.0' - fine grained flows. - 125.0' - 126.0' - 0.1-foot quartz stringer with 1-2% coarse grained magnetite and pyrrhotite. - 151.0' - 194.8' - tuff, abundant quartz-carbonate stringers.						
			10354		69.3	73.0	3.7	tr
			10355		73.0	75.8	2.8	tr
			10356		75.8	80.8	5.0	tr
			10357		80.8	85.8	5.0	tr
			10358		85.8	89.7	3.9	.002
			10359	tr	89.7	92.4	2.7	tr
			10360	tr	92.4	96.0	3.6	.002
			10361	tr	96.0	98.1	2.1	.002
			10362	tr	98.1	101.0	2.9	.008
			10363	1-3	101.0	104.7	3.7	.018
			10364	tr	104.7	109.7	5.0	.050
			10365	tr	109.7	114.7	5.0	.010
			10366	tr	114.7	119.7	5.0	.008
			10367	tr	119.7	122.2	2.5	tr
			10368	1-2	122.2	126.0	3.8	.002
			10369	tr	151.0	155.0	4.0	.012
			10370	tr	155.0	160.0	5.0	.002
			10371	tr	160.0	163.0	3.0	.004
			10372	tr	163.0	166.0	3.0	tr
			10373	tr	166.0	171.0	5.0	tr
			10374	tr	171.0	176.0	5.0	.004
			10375	tr	176.0	181.0	5.0	.024
			10376	tr	181.0	186.0	5.0	.030
			10377	tr	186.0	191.0	5.0	.002
			10378	tr	191.0	194.8	3.8	tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-9

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			Au	07 TON	02 TON	
					FROM	TO	TOTAL				
63.0	245.0	Cont'd. - 194.8' - 245.0' - fine to medium grained flows with trace-2% wispy albite grains, 0.5-1% pyrite as fracture coatings. - 210.4' - 212.2' - irregular quartz-carbonate veins with 2-3% pyrrhotite, trace-1% pyrite as stringers. - 236.2' - 236.6' - irregular quartz-carbonate vein with 3-5% disseminated pyrite.	10379	5-1	194.8	198.8	4.0				
			10380	5-1	198.8	202.8	4.0			tr	
			10381	5-1	202.8	206.0	3.2			tr	
			10382	5-1	206.0	210.4	4.4			tr	
			10383	2-3	210.4	212.2	1.8			tr	
			10384	5-1	212.0	216.0	4.0			tr	
			10385	5-1	216.0	221.0	5.0			.002	
			10386	5-1	221.0	226.0	5.0			tr	
			10387	5-1	226.0	231.0	5.0			tr	
			10388	5-1	231.0	236.0	5.0			tr	
			10389	5-1	236.0	241.0	5.0			tr	
			10390	5-1	241.0	245.0	4.0			tr	
245.0	316.0	Amphibolite - dark green, coarse grained, massive. Modal percent: Amphibole 50-55% Plagioclase 40-45% Pyrite trace Amphibolitic texture, unoriented, well developed amphibole grains, few widely spaced fractures. - 261.0' - 262.1' - shearing parallel to core axis, irregular quartz-carbonate stringers with 1-2% sulphide. - 286.0' - 296.6' - closely spaced fractures at 4° and 59° to core axis, quartz-carbonate stringers, carbonatization, trace-0.5% tourmaline bands, 1-2% fine grained pyrite.	10391	1-2	261.0	262.1	1.1				tr
			10392	1-2	286.0	289.0	3.0				.002
			10393	1-2	289.0	293.0	4.0				tr
			10394	1-2	293.0	296.6	3.6				tr
316.0		E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-10 LENGTH 326.0'
 LOCATION 26+00W, 12+65N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -75°
 STARTED September 10/87 FINISHED September 11/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
326.0	67.8°				

HOLE NO. KAS-87A-10 SHEET NO. 1 of 1
 REMARKS PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON
					FROM	TO				
0.0	6.0	CASING.								
6.0	18.9	MAFIC FLOWS - fine grained.								
18.9	77.0	SHEARED - SILICIFIED MAFIC TUFF AND IRON FORMATION.	10401		29.9	33.0	3.1		.010	
			10402		33.0	36.0	3.0		.010	
			10408		60.1	62.9	2.8		.036	
			10409		62.9	65.4	2.5		.092	
			10410		65.4	69.0	3.6		.048	
			10412		72.0	77.0	5.0		.030	
77.0	88.1	MAFIC FLOWS - medium grained.								
88.1	90.7	MAFIC FLOWS - chloritized.								
90.7	326.0	MAFIC FLOWS - medium grained, amphibolitic with chloritized horizons.	10433		146.0	151.0	5.0		.016	
			10446		194.5	197.7	3.2		.012	
			10474		306.0	311.0	5.0		.010	
			10476		316.0	321.0	5.0		.080	
			10477		321.0	326.0	5.0		.086	Check
326.0		E.O.H.							.018	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-10 LENGTH 326.0'
 LOCATION 26+00W, 12+65N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -75°
 STARTED September 10/87 FINISHED September 11/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
326.0	-67.8				

HOLE NO. KAS-87A-10 SHEET NO. 1 of 4

REMARKS PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON
					FROM	TO				
0.0	6.0	Casing.								
6.0	18.9	Mafic Flows - dark green, fine grained, massive to slightly foliated. Modal percent: Amphibole 50-55% Plagioclase] 40-45% Quartz Carbonate 1-2% Pyrite trace Amphibolitic, few widely spaced fractures, 1-2% quartz-carbonate stringers, foliation at 21° to core axis at 8.0'.	10395		6.0	11.0	5.0			tr
			10396		11.0	16.0	5.0			tr
			10398		16.0	18.9	2.9			tr
18.9	77.0	Sheared-Silicified Mafic Tuff and Iron Formation - dark green to black to white, fine grained, banded. Modal percent: Amphibole 40-45% Plagioclase] 40-45% Quartz Chlorite 5-7% Carbonate 2-3% Garnet tr-1% Pyrrhotite tr-1% Abundant quartz veining and quartz carbonate stringers, minor pink porphyroblastic garnet bands in chlorite-amphibole bands, pyrrhotite as patches of disseminated grains. Foliation at 30° to core axis at 23.0', 32° at 43.0', 30° at 76.0'. - 18.9' - 60.1' - 7-10% quartz stringers with 3-20% carbonate and trace-1% disseminated sulphides. - 28.9' - 29.9' - 0.3-foot quartz vein with 1-3% disseminated pyrite.	10398	tr-1	18.9	23.9	5.0			.002
			10399	tr-1	23.9	28.9	5.0			tr
			10400	1-3	28.9	29.9	1.0			.002
			10401	tr-1	29.9	33.0	3.1			.010
			10402	tr-1	33.0	36.0	3.0			.010
			10403	tr-1	36.0	41.0	5.0			.002

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-10

 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS		
FROM	TO		NO	SULPHIDES	FOOTAGE			Au 0.7 TON	0.7 TON	0.7 TON
					FROM	TO	TOTAL			
18.9	77.0	Cont'd.								
		- 60.1' - 77.0' - 15-20% quartz-carbonate veins and stringers	10404	tr-1	41.0	46.0	5.0			tr
		- 62.9' - 65.4' - composite quartz-carbonate vein, 2-3% pyrrhotite stringers with inclusions of 2-3% biotite, amphibole and chlorite, trace-1% tourmaline bands, contacts parallel to foliation.	10405	tr-1	46.0	51.0	5.0			tr
			10406	tr-1	51.0	56.0	5.0			.004
			10407	tr-1	56.0	60.1	4.1			.002
			10408	tr-1	60.1	62.9	2.8			.036
			10409	2-3	62.9	65.4	2.5			.092
			10410	tr-1	65.4	69.0	3.6			.048
			10411	tr-1	69.0	72.0	3.0			.002
			10412	tr-1	72.0	77.0	5.0			.030
77.0	88.1	Mafic Flows - medium grained, massive, amphibolitic, 3-5% quartz-carbonate veins.	10413	tr	77.0	79.5	2.5			tr
		- 79.5' - 80.4' - 0.1-foot quartz vein, 1-2% pyrrhotite stringers.	10414	1-2	79.5	81.0	1.5			tr
			10415	tr	81.0	86.0	5.0			tr
			10416	tr	86.0	88.1	2.1			tr
88.1	90.7	Mafic Flows - chloritized, 25-30% chlorite, schistose, 1-2% quartz-carbonate stringers, trace pyrite.	10417	tr	88.1	90.7	2.6			tr
90.7	326.0	Mafic Flows - medium grained, amphibolitic, massive, overall 3-5% narrow quartz-carbonate veins with trace-1% pyrite, pyrrhotite, trace-0.5% chalcopyrite, trace sphalerite.	10418	tr-1	90.7	96.0	5.3			tr
			10419		96.0	101.0	5.0			tr
			10420		101.0	106.0	5.0			tr
			10421		106.0	111.0	5.0			tr
			10422		111.0	116.0	5.0			tr
			10423		116.0	121.0	5.0			tr
			10424		121.0	126.0	5.0			tr
			10425		126.0	129.8	3.8			tr
		- 129.8' - 131.2' - 0.1-foot quartz-carbonate vein with trace-1% sulphides.	10426		129.8	131.2	1.4			tr
			10427		131.2	133.4	2.2			.002
		- 133.4' - 134.8' - as above.	10428		133.4	134.8	1.4			tr
			10429		134.8	137.8	3.0			tr
			10430		137.8	140.8	3.0			tr
		- 140.8' - 142.0' - as above.	10431		140.8	142.0	1.2			tr
			10432		142.0	146.0	4.0			.002
			10433		146.0	151.0	5.0			.016
			10434		151.0	154.7	3.7			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-10

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		AU	CU
				FROM	TO	TOTAL	07 TON	02 TON
90.7	326.0	Cont'd.						
		- 154.7' - 156.0' - as above.	10435		154.7	156.0	1.3	tr
			10436		156.0	161.0	5.0	tr
			10437		161.0	165.0	4.0	.002
		- 165.0' - 173.5' - 5-10% quartz-carbonate stringers, trace-2% pyrrhotite proximal to/on contacts of stringers.	10438	tr-2	165.0	170.0	5.0	tr
			10439	tr-2	170.0	173.5	3.5	tr
			10440		173.5	176.0	2.5	tr
			10441	tr-1	176.0	181.0	5.0	tr
			10442	tr-1	181.0	184.0	3.0	tr
			10443	tr-1	184.0	186.3	2.3	tr
		- 186.3' - 191.0' - chloritized flows with 5-7% quartz-carbonate stringers, 1-2% pyrrhotite blebs.	10444	1-2	186.3	191.0	4.7	tr
			10445	tr-1	191.0	194.5	3.5	tr
			10446	tr-1	194.5	197.7	3.2	.012
		- 197.7' - 198.8' - discordant banded quartz-carbonate stringers.	10447	tr	197.7	198.8	1.1	tr
			10448	tr-1	198.8	207.5	8.7	tr
		- 207.5' - 209.6' - fine grained flows, foliated at 46° to core axis.	10450		207.5	209.6	2.1	.002
			10451		209.6	212.7	3.1	.002
		- 210.8' - 212.7' - chloritized flows with 0.9-foot composite quartz vein, 1-2% carbonate as fracture fillings, minor sericite and biotite bands.	10452		212.7	216.0	3.3	tr
			10453		216.0	221.0	5.0	tr
			10454		221.0	226.0	5.0	tr
			10455		226.0	231.0	5.0	tr
			10456		231.0	236.0	5.0	tr
			10457		236.0	241.0	5.0	tr
			10458		241.0	246.0	5.0	tr
			10459		246.0	248.4	2.4	tr
		- 248.4' - 251.5' - fine grained, chloritized flows, 3-5% quartz-carbonate stringers.	10460		248.4	251.5	3.1	tr
			10461		251.5	256.0	4.5	tr
			10462		256.0	261.0	5.0	tr
			10463		261.0	266.0	5.0	tr
			10464		266.0	271.0	5.0	tr
			10465		271.0	276.0	5.0	tr
			10466		276.0	281.0	5.0	tr
			10467		281.0	286.0	5.0	tr
			10468		286.0	289.0	3.0	tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-10

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE		Au OZ TON	OZ TON	
					FROM	TO			TOTAL
90.7	326.0	Cont'd.							
		- 289.0' - 291.0' - chloritized flows with 0.3-foot quartz-carbonate vein, foliation at 35° to core axis.	0469	tr-1	289.0	291.0	2.0	tr	
			0470		291.0	296.0	5.0	tr	
			0471		296.0	299.8	3.8	tr	
			0472		299.8	300.8	1.0	tr	
		- 299.8' - 300.8' - 0.1-foot, quartz-carbonate vein, discordant.	0473		300.8	306.0	5.2	.002	
			0474		306.0	311.0	5.0	.010	
			0475		311.0	316.0	5.0	tr	
			0476		316.0	321.0	5.0	.080	
								.086	Check
			0477		321.0	326.0	5.0	.018	
	326.0	E.O.H.							

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-11 LENGTH 256.0'
 LOCATION 26+00W, 12+63N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -49.5°
 STARTED September 11/87 FINISHED September 12/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-49.5				

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

REMARKS PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	AU OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	14.0	CASING.									
14.0	52.4	SHEARED - SILICIFIED MAFIC TUFF AND IRON FORMATION.	10479		18.0	22.0	4.0			.014	
			10480		22.0	26.0	4.0			.032	
			10482		31.0	36.0	5.0			.034	
52.4	57.0	AMPHIBOLITE.									
57.0	243.2	MAFIC FLOWS.									
243.2	256.0	INTERMEDIATE TO MAFIC TUFF.									
	256.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-11

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au	oz ton	oz ton
					FROM	TO			
57.0	243.2	Cont'd. axis at 71.0' and 109.0'.	10495		91.0	96.0	5.0		tr
			10496		96.0	101.0	5.0		tr
			10497		101.0	106.0	5.0		tr
			10498		106.0	111.0	5.0		tr
			10499		111.0	116.0	5.0		tr
			10500		116.0	121.0	5.0		tr
			10501		121.0	126.0	5.0		tr
			10502		126.0	131.0	5.0		tr
			10503		131.0	136.0	5.0		tr
			10504		136.0	141.0	5.0		tr
			10505		141.0	146.0	5.0		tr
			10506		146.0	149.0	3.0		tr
			10507		149.0	151.6	2.6		tr
		- 151.6' - 154.2' - chloritic flows, 25-30% quartz-carbonate stringers and veins, foliation at 62° to core axis at 152.0'.	10508		151.6	154.2	2.6		tr
			10509		154.2	156.0	1.8		tr
			10510		156.0	161.0	5.0		tr
			10511		161.0	166.0	5.0		tr
			10512		166.0	171.0	5.0		tr
			10513		171.0	176.0	5.0		tr
			10514		176.0	181.0	5.0		tr
			10515		181.0	182.8	1.8		.002
		- 182.8' - 194.9' - as above with 25-30% quartz veins, tr-2% carbonate on fractures, 3-5% coarse grained biotite clots.	10516		182.8	186.8	4.0		tr
			10517		186.8	191.8	5.0		tr
			10518		191.8	194.9	3.1		tr
			10519		194.9	199.9	5.0		tr
			10520		199.9	201.0	1.1		tr
			10521		201.0	206.0	5.0		tr
			10522		206.0	211.0	5.0		.002
			10523		211.0	216.0	5.0		tr
			10524		216.0	221.0	5.0		.002
			10525		221.0	226.0	5.0		tr
			10526		226.0	228.5	2.5		tr
		- 228.5' - 243.2' - chloritic flows, 20-25% carbonate, 5-10% biotite, 5-10% quartz-carbonate stringers foliation at 65° to core axis at 231.0'.	10527		228.5	231.0	2.5		tr
			10528		231.0	236.0	5.0		tr
			10529		236.0	241.0	5.0		tr
			10530		241.0	243.2	2.2		tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-11

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SULPHIDES	FOOTAGE		Au OZ TON	OZ TON
					FROM	TO		
243.2	256.0	Intermediate to Mafic Tuff - dark grey to dark green, fine grained banded to schistose. Modal percent: Amphibole 45-50% Quartz Plagioclase] 30-35% Biotite 5-10% Carbonate 3-5% Medium grained disseminated to banded biotite, few widely spaced fractures and quartz stringers, foliation at 53° to core axis at 256.0'.	10531		243.2	236.0	2.8	tr
			10532		246.0	251.0	5.0	tr
			10533		251.0	256.0	5.0	tr
	256.0	E.O.H.						

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-12 LENGTH 286.0'
 LOCATION 25+03W, 15+96N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 210° DIP -45°
 STARTED September 12/87 FINISHED September 13/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
286.0	-36°				

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

REMARKS PA786808

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE FROM TO TOTAL		%	%	AU OZ/TON	OZ/TON
0.0	4.0	CASING.								
4.0	39.2	MAFIC FLOWS - fine grained.								
39.2	49.9	MAFIC FLOWS - medium grained.								
49.9	108.6	MAFIC FLOWS - chloritized.								
108.6	109.9	SILTSTONE.								
109.9	111.1	BANDED IRON FORMTION.								
111.1	152.0	AMPHIBOLITE.								
152.0	182.0	MAFIC FLOWS - fine grained.								
182.0	198.3	MUDSTONE.								
198.3	217.6	INTERMIXED MAFIC TUFF AND MUDSTONE.								
217.6	232.0	MAFIC FLOWS - fine grained.								
232.0	286.0	INTERMIXED GREYWACKE, MUDSTONE AND TUFF.								
	286.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-12 LENGTH 286.0'
 LOCATION 25+03W, 15+96N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 210° DIP -45°
 STARTED September 12/87 FINISHED September 13/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
286.0	-36.0°				

HOLE NO. KAS-87A-12 SHEET NO. 1 of 4

REMARKS PA786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	%	Au OZ/TON	OZ/TON
0.0	4.0	Casing.									
4.0	39.2	Mafic Flows - dark green, fine grained, schistose. Modal percent: Amphibole 50-55% Plagioclase] 40-45% Quartz 5-10% quartz veining, trace carbonate on fractures, foliation at 62° to core axis at 36.0'. - 13.2' - 16.0' - discordant quartz veins, chlorite inclusions. - 20.6' - 21.3' - quartz vein, as above.	10534		4.0	9.0	5.0			tr	
			10535		9.0	13.2	4.2			tr	
			10536		13.2	16.0	2.8			tr	
			10537		16.0	20.6	4.6			tr	
			10538		20.6	25.6	5.0			tr	
			10539		25.6	29.0	3.4			tr	
			10540		29.0	32.5	3.5			tr	
			10541		32.5	37.0	4.5			tr	
			10542		37.0	39.2	2.2			tr	
39.2	49.9	Mafic Flows - medium grained, massive, amphibolitic.									
49.9	108.6	Mafic Flows - chloritized, schistose, 3-5% carbonate, 2-5% biotite 3-5% light green acicular tremolite bands, 0.5-2% disseminated tourmaline, 2-3% quartz-carbonate veins and stringers with trace- 1% disseminated pyrite, foliation at 50° to core axis at 53.0', 65° at 72.0'.	10543	tr-1	49.9	54.9	5.0			tr	
			10544	tr-1	54.9	59.9	5.0			tr	
			10545	tr-1	59.9	64.9	5.0			tr	
			10546	tr-1	64.9	69.9	5.0			tr	
			10547	tr-1	69.9	74.9	5.0			tr	
			10548		74.9	79.9	5.0			tr	
			10549		79.9	84.9	5.0			tr	
			10550		84.9	89.9	5.0			.002	
			10551		89.9	94.9	5.0			tr	
			10552		94.9	99.9	5.0			tr	
			10553		99.9	104.9	5.0			tr	
			10554		104.9	108.6	3.7			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO KAS-87A-12

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO TOTAL			Au OZ TON	OZ TON
108.6	109.9	Siltstone - brown to white, fine grained, banded. Modal percent: Quartz 55-60% Sericitite 20-25% Biotite 10-15% Carbonate trace Finely banded (bedded?) with fine disseminated biotite grains, 3-5% quartz-carbonate stringers, foliation at 50° to core axis, fractures at 47° to core axis.	10555		108.6 109.9 1.3			tr	
109.9	111.1	Banded Iron Formation - black to green to white, fine grained, banded. Modal percent: Magnetite 30-35% Quartz 20-25% Grunerite] 20-25% Tremolite] Carbonate 5-10% Pyrite 2-5% Discordant 0.5-foot quartz vein with amphibole inclusions and 3-5% disseminated pyrite, 2-3% pyrite as fracture fillings, banding at 61° to core axis.	10556	2-5	109.9 111.1 1.2			tr	
111.1	152.0	Amphibolite - dark green to dark grey, coarse grained, massive. Modal percent: Amphibole 45-50% Quartz] 40-45% Plagioclase] Biotite 3-5% Amphibolitic, minor biotite bands throughout, minor quartz veining and few widely spaced fractures, fractures at 59-61° to core axis.	10557		111.1 116.0 4.9			tr	
			10558		131.0 136.0 5.0			tr	
			10559		147.0 152.0 5.0			tr	
152.0	182.0	Mafic Flows - fine grained typical fractures at 22° to core axis at 173.0'. - 160.9' - 161.9' - composite quartz vein, 5-7% pyrrhotite, 0.5-1% pyrite as anastomosing stringers. - 161.9' - 182.0' - abundant quartz-carbonate stringers and veins with chlorite inclusions, 10-15% carbonate.	10560		152.0 156.0 4.0			tr	
			10561		156.0 160.9 4.9			tr	
			10562	5-7	160.9 161.9 1.0			tr	
			10563		161.9 166.0 4.1			tr	
			10564		166.0 171.0 5.0			tr	
			10565		171.0 176.0 5.0			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-12

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE		Au	g/TON	g/TON
					FROM	TO			
152.0	182.0	Cont'd.	10566		176.0	179.0	3.0		tr
			10567		179.0	182.0	3.0		tr
182.0	198.3	Mudstone - purplish-brown to green to white, fine grained, laminated to banded. Modal percent: Biotite 35-40% Carbonate 20-25% Quartz 15-20% Sericite 5-10% Amphibole] 3-5% Chlorite]	10568		182.0	186.0	4.0		tr
			10569		186.0	191.0	5.0		tr
			10570		191.0	196.0	5.0		tr
			10571		196.0	198.3	2.3		tr
		Minor narrow porphyroblastic garnet bands banding (bedding) at 54° to core axis at 194.0'.							
198.3	217.6	Intermixed Mafic Tuff and Metasediments (Mudstone) - dark green to purplish-brown to white, fine grained, banded to laminated. Modal percent: Amphibole 30-35% Plagioclase] 25-30% Quartz] Biotite 10-15% Carbonate 10-15% Garnet 3-5%	10572		198.3	201.0	2.7		tr
			10573		201.0	206.0	5.0		tr
			10574		206.0	211.0	5.0		tr
			10575		211.0	216.0	5.0		tr
			10576		216.0	217.6	1.6		.002
		5-10% quartz-carbonate stringers, biotite bands with disseminated fine grained pink porphyroblastic garnets, fractures at 19° to core axis at 199.0'.							
217.6	232.0	Mafic Flows - fine grained, typical. - 230.5' - 232.0' - minor mylonitic zone with quartz-carbonate cherty infilling of fractures, greenish to mauve coloured.	10577		217.6	221.0	3.4		tr
			10578		221.0	226.0	5.0		tr
			10579		226.0	230.5	4.5		tr
			10580		230.5	232.0	1.5		tr
232.0	286.0	Intermixed Greywacke, Mudstone and Tuff - purplish-grey to dark green to brown, fine grained, banded to laminated. Modal percent: Biotite 30-35%	10581	2-3	232.0	236.0	4.0		tr
			10582	2-3	236.0	241.0	5.0		tr
			10583	2-3	241.0	246.0	5.0		tr

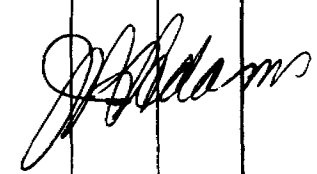
DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-12

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au 07 TON	GZ TON
					FROM	TO		
232.0	286.0	Cont'd.						
		Quartz	10584	2-3	246.0	251.0	5.0	tr
		Amphibole	10585	2-3	251.0	256.0	5.0	tr
		Chlorite]	10586	tr-2	256.0	261.0	5.0	tr
		Feldspar	10587	tr-2	261.0	266.0	5.0	tr
		Carbonate	10588	tr-2	266.0	271.0	5.0	tr
		Sericite	10589	tr-2	271.0	276.0	5.0	tr
		Pyrite	10590	tr-2	276.0	281.0	5.0	tr
			10591	tr-2	281.0	286.0	5.0	.044
		Abundant quartz-feldspar-carbonate eyes, individual horizons vary compositionally, and grade into each other, abundant fracturing with a greenish quartz-carbonate infilling, foliation at 58° to core axis at 241.0', 57° to core axis at 280.0', pyrite as disseminated blebs or stringers.						
		- 232.0' - 256.0' - 2-3% pyrite blebs throughout.						
	286.0	E.O.H.						



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-13 LENGTH 226.0'
 LOCATION 25+00W, 15+94N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 13/87 FINISHED September 14/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
226.0'	-37.2				

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

REMARKS PA786808

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% Sulfides	FOOTAGE		%	%	Au OZ/TON	OZ/TON
					FROM	TO				
0.0	7.0	CASING.								
7.0	26.0	MAFIC FLOWS - fine grained.								
26.0	27.5	MAFIC INTRUSIVE.								
27.5	36.8	MAFIC FLOWS - fine grained.								
36.8	39.0	MAFIC FLOWS - medium grained, amphibolitic.								
39.0	40.8	MAFIC INTRUSIVE.								
40.8	48.6	MAFIC FLOWS - medium grained, amphibolitic.								
48.6	56.0	MAFIC FLOWS - fine grained.								
56.0	62.4	MAFIC FLOWS - medium grained, amphibolitic.								
62.4	86.0	MAFIC FLOWS - chloritized.								
86.0	92.0	MAFIC FLOWS - carbonatized.								
92.0	110.3	MAFIC FLOWS - fine grained.								
110.3	111.6	SILTSTONE.								
111.6	112.9	BANDED IRON FORMATION.								
112.9	148.2	MAFIC FLOWS - fine to medium grained, amphibolitic.								
148.2	149.8	QUARTZ VEIN - 5-7% pyrite.								
149.8	172.7	MAFIC FLOWS - fine grained, carbonatized.								
172.7	187.7	INTERMIXED MAFIC TUFF AND MUDSTONE.								
187.7	188.8	MUDSTONE - mylonitized - silicified.								
188.8	213.7	MAFIC FLOWS - mottled, amphibolitic.								
213.7	226.0	INTERMIXED GREYWACKE, MUDSTONE AND TUFF.								
	226.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-13 LENGTH 226.0'
 LOCATION 25+00W, 15+94N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 13/87 FINISHED September 14/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
226.0	37.2				

HOLE NO. KAS-87A-13 SHEET NO. 1 of 4
 REMARKS PA786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	7.0	Casing.									
7.0	26.0	Mafic Flows - dark green to black, fine grained, schistose. Modal percent: Amphibole 50-55% Quartz] 30-35% Plagioclase] Carbonate 5-10% Highly fractured and silicified with green quartz-carbonate in- filling, foliation at 58° to core axis at 11.0'. - 11.0' - 15.0' - quartz veining, maximum width of veins 1.5 feet, trace carbonate on fractures.	10592		7.0	11.0	4.0			tr	
			10593		11.0	15.0	4.0			tr	
			10594		15.0	20.0	5.0			tr	
			10595		20.0	23.0	3.0			tr	
			10596		23.0	26.0	3.0			tr	
26.0	27.5	Mafic Intrusive - cream to pink to green, medium grained, massive. Modal percent: Amphibole 35-40% Plagioclase 25-30% Microcline 15-20% Carbonate 5-10% Inequigranular with medium grained amphibole grains in a fine grained feldspar matrix, foliated chloritic contacts with carbon- ate stringers parallel to contacts at 40° to core axis.	10597		26.0	27.5	1.5			.014	
27.5	36.8	Mafic Flows - fine grained, typical. Foliation at 53° to core axis at 36.0'.	10598		27.5	32.0	4.5			tr	
			10599		32.0	36.8	4.8			tr	
36.8	39.0	Mafic Flows - medium grained, massive, amphibolitic, 3-5% quartz- carbonate stringers.	10600		36.8	39.0	2.2			tr	
39.0	40.8	Mafic Intrusive - as above.	10601		39.0	40.8	1.8			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-13

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPH IDES	FOOTAGE			%	%	Au oz TON	OZ TON
					FROM	TO	TOTAL				
40.8	48.6	<u>Mafic Flows</u> - medium grained, as above.	10602		40.8	45.0	4.2			tr	
			10603		45.0	48.6	3.6			tr	
48.6	56.0	<u>Mafic Flows</u> - fine grained, typical.	10604		48.6	51.0	2.4			tr	
			10605		51.0	56.0	5.0			.002	
56.0	62.4	<u>Mafic Flows</u> - medium grained, as above.	10606		56.0	59.0	3.0			.002	
			10607		59.0	62.4	3.4			tr	
62.4	86.0	<u>Mafic Flows</u> - chloritized, schistose, weakly carbonatized, common quartz-carbonate stringers, foliation at 66° to core axis at 66.0'	10608		62.4	66.0	3.6			.002	
			10609		66.0	71.0	5.0			tr	
			10610		71.0	76.0	5.0			.002	
			10611		76.0	81.0	5.0			.002	
			10612		81.0	86.0	5.0			tr	
86.0	92.0	<u>Mafic Flows</u> - carbonatized, 5-7% disseminated medium grained biotite, 15-20% quartz-carbonate veining, trace <u>arsenopyrite</u> , foliation at 54° to core axis at 90.0'.	10613		86.0	89.5	3.5			.004	
			10614		89.5	92.0	2.5			.002	
92.0	110.3	<u>Mafic Flows</u> - fine grained, typical, foliation at 58° to core axis at 95.0'.	10615		92.0	96.0	4.0			tr	
			10616		96.0	101.0	5.0			.002	
			10617		101.0	106.0	5.0			tr	
			10618		106.0	110.3	4.3			tr	
110.3	111.6	<u>Siltstone</u> - brown to white, fine grained, banded. Modal percent: Quartz 55-60% Sericite 20-25% Biotite 10-15% Carbonate trace	10619		110.3	111.6	1.3			tr	
			Finely banded (bedded?) with fine disseminated biotite grains, 3-5% quartz-carbonate stringers.								
111.6	112.9	<u>Banded Iron Formation</u> - black to green to white, fine grained, banded. Modal percent: Magnetite 30-35% Quartz 25-30% Grunerite] 20-25% Tremolite]	10620	1-3	111.6	112.9	1.3			tr	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-13

 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SULPHIDES	FOOTAGE		Au oz ton	GZ ton
					FROM	TO		
111.6	112.9	Cont'd. Carbonate 5-7% Pyrite 1-3%						
		Discordant quartz-carbonate stringers with 1-2% pyrite and trace tourmaline, banding distorted, ½" garnet-tremolite band with acicular-radiating tremolite prisms.						
112.9	148.2	Mafic Flows - fine to medium grained, amphibolitic, common quartz-carbonate stringers, foliation at 58° to core axis at 145.0', fractures vary from 28° - 32° to core axis.	10621		112.9	116.0	3.1	tr
			10622		116.0	121.0	5.0	tr
			10623		121.0	126.0	5.0	tr
			10624		126.0	131.0	5.0	tr
			10625		131.0	136.0	5.0	tr
			10626		136.0	141.0	5.0	tr
			10627		141.0	146.0	5.0	tr
			10628		146.0	148.2	2.2	tr
148.2	149.8	Quartz Vein - blue-grey, banded, 5-7% pyrite bands and stringers, 3-5% grunerite bands.	10629	5-7	148.2	149.8	1.6	tr
149.8	172.7	Mafic Flows - fine grained, weak to moderate carbonatization, abundant irregular quartz-carbonate stringers, foliation at 52° to core axis at 150.0'.	10630		149.8	153.0	3.2	tr
			10631		153.0	156.0	3.0	tr
			10632		156.0	161.0	5.0	tr
			10633		161.0	166.0	5.0	tr
			10634		166.0	171.0	5.0	tr
			10635		171.0	172.7	1.7	tr
172.7	187.7	Intermixed Mafic Tuff and Mudstone - dark green to purplish-brown to white, fine grained, banded to laminated. Modal percent: Amphibole 30-35% Plagioclase } 25-30% Quartz Carbonate 10-15% Biotite 10-15% Garnet 3-5%	10636		172.7	176.0	3.3	tr
			10637		176.0	181.0	5.0	tr
			10638		181.0	186.0	5.0	tr
			10639		186.0	187.7	1.7	tr
		5-10% quartz-carbonate stringers, biotite bands with disseminated fine grained pink porphyroblastic garnets.						

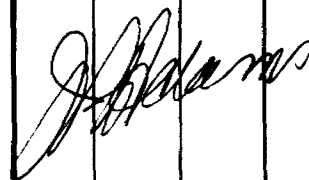
DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-13

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE			Au oz TON	GZ TON
					FROM	TO	TOTAL		
187.7	188.8	Mudstone - mylonitized and silicified, highly fractured with green quartz-carbonate fracture filling, 3-5% carbonate throughout.	0640		187.7	188.8	1.1		tr
188.8	213.7	Mafic Flows - mottled, amphibolitic, foliation at 60° to core axis at 199.0'.	0641		188.8	193.8	5.0		tr
			0642		193.8	196.0	2.2		tr
			0643		196.0	201.0	5.0		tr
			0644		201.0	206.0	5.0		tr
			0645		206.0	211.0	5.0		tr
			0646		211.0	213.7	2.7		tr
213.7	226.0	Intermixed Greywacke, Mudstone and Tuff - purplish-grey to dark green to brown, fine grained, banded to laminated. Modal percent: Biotite 30-35% Quartz 25-30% Amphibole] 10-15% Chlorite Feldspar 5-10% Carbonate 5-7% Sericite 2-3% Pyrite tr-2%	0647	tr-2	213.7	215.0	1.3		tr
			0648	tr-2	215.0	220.0	5.0		.014
			0649	tr-2	220.0	223.0	3.0		.010
			0650	tr-2	223.0	226.0	3.0		tr
		Abundant quartz, feldspar, carbonate eyes, gradational compositional changes, mylonitic zones with green, quartz-carbonate fracture fillings, quartz-carbonate stringers with disseminated coarse grained pyrite blebs, foliation at 57° to core axis at 226.0'. - 215.0' - 226.0' - mylonitic bands, highly fractured, silicification along fractures with quartz-carbonate infillings.							
	226.0	E.O.H.							



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-14 LENGTH 286.0'
 LOCATION 24+98W, 15+96N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 150° DIP -45°
 STARTED September 14/87 FINISHED September 15/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
286.0	36.25				

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

REMARKS PA786808

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON
					FROM	TO				
0.0	10.0	CASING.								
10.0	49.0	MAFIC FLOWS - fine grained.								
49.0	78.7	MAFIC FLOWS - medium grained.								
78.7	138.5	MAFIC FLOWS - chloritic, carbonatized.								
138.5	142.6	MUDSTONE.								
142.6	169.8	MAFIC FLOWS - medium grained.								
169.8	171.8	SILTSTONE.								
171.8	190.4	MAFIC FLOWS - fine grained, carbonatized.								
190.4	194.0	MYLONITE.								
194.0	207.7	MAFIC TUFF.								
207.7	218.8	MAFIC TUFF AND GREYWACKE.								
218.8	221.0	MAFIC TUFF.								
221.0	230.0	GREYWACKE.								
230.0	286.0	MAFIC TUFF, GREYWACKE AND MUDSTONE.								
	286.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-14 LENGTH 286.0'
 LOCATION 24+98W, 15+96N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 150° DIP -45°
 STARTED September 14/87 FINISHED September 15/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
286.0	36.25				

HOLE NO. KAS-87A-14 SHEET NO. 1 of 4
 REMARKS PA786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0.0	10.0	Casing.										
10.0	49.0	Mafic Flows - dark green to black, fine grained, massive with slight schistosity. Modal percent: Amphibole 50-55% Quartz] 35-40% Plagioclase] Carbonate 3-5% Pyrite tr-1% 3-5% quartz-carbonate stringers and veins with trace-1% disseminated pyrite; 0.5-1% pyrite as fracture coatings, foliation at 42° to core axis at 11.0', 44° at 37.0'. - 12.1' - 14.7' - silicified with 0.6-foot discordant quartz vein, 2-3% pyrite in chlorite inclusions. - 27.0' - 30.0' - silicified with 2-3% disseminated magnetite - 33.0' - 35.6' - as above.	0651	2-3	12.0	14.7	2.7			tr		
			0652		27.0	30.0	3.0			tr		
			0653		30.0	33.0	3.0			.002		
			0654		33.0	35.6	2.6			.020		
			0655		35.6	40.6	5.0			.002		
			0656		40.6	45.6	5.0			tr		
			0657		45.6	49.0	3.4			tr		
			0658		56.0	58.7	2.7			tr		
49.0	78.7	Mafic Flows - dark green to dark grey, medium grained, massive to slightly foliated. Modal percent: Amphibole 40-45% Plagioclase 40-45% Quartz] 3-5% Carbonate] Albite 3-5% Albite wisps throughout, amphibolitic, foliation at 63° to core axis at 56.0'.										

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DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-14

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE		AU	OZ TUN	OZ TUN
					FROM	TO			
49.0	78.7	Cont'd. - 58.7' - 62.9' - 10-15% quartz and carbonate stringers, and veins, chloritic, trace pyrite.	10659		58.7	62.9	4.2		tr
			10660	tr	62.9	66.0	3.1		tr
			10661		66.0	71.0	5.0		tr
			10662		71.0	76.0	5.0		tr
			10663		76.0	78.7	2.7		.012
78.7	138.5	Mafic flows - fine to medium grained, chloritic, weakly carbonatized, 3-5% carbonate, 5-15% biotite, as disseminated grains, 0.5-1% pyrite blebs on fracture and foliation planes, foliation at 52° to core axis at 83.0', 43° at 136.0'.	10664		78.7	81.0	2.3		tr
			10665		81.0	86.0	5.0		.002
			10666		86.0	91.0	5.0		.002
			10667		91.0	96.0	5.0		tr
			10668		96.0	101.0	5.0		tr
			10669		101.0	106.0	5.0		tr
			10670		106.0	111.0	5.0		tr
			10671		111.0	116.0	5.0		tr
			10672		116.0	121.0	5.0		tr
			10673		121.0	126.0	5.0		tr
			10674		126.0	131.0	5.0		.002
			10675		131.0	136.0	5.0		tr
			10676		136.0	138.5	2.5		tr
			10677		138.5	142.6	4.1		tr
138.5	142.6	Mudstone - purplish-brown to white, fine grained, laminated to banded. Modal percent: Biotite 35-40% Carbonate 20-25% Quartz 15-20% Sericitite 5-10% Amphibole] 3-5% Chlorite]							
		Minor blue-grey chert bands, carbonate as bands or grains, chloritic fractures banding (bedding?) at 45° to core axis, fractures at 39° to core axis.							
142.6	169.8	Mafic Flows - medium grained, amphibolitic, mottled, 3-5% quartz-carbonate stringers, foliation at 47° to core axis, fractures at 25° to core axis.	10678		142.6	146.0	3.4		tr
			10679		146.0	151.0	5.0		tr
			10680		151.0	156.0	5.0		tr

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-14

 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			%	Au oz TON	oz TON
					FROM	TO	TOTAL			
142.6	169.8	Cont'd. - 156.0' - 169.8' - as above, 1-2% quartz carbonate stringers massive, few widely spaced fractures at 43° to core axis.	10681		156.0	161.0	5.0			tr
			10682		161.0	166.0	5.0			tr
			10683		166.0	169.8	3.8			tr
169.8	171.8	Siltstone - purplish-brown to grey, fine grained, finely banded. Modal percent: Quartz 55-60% Sericite 20-25% Biotite 10-15% Carbonate trace 3-5% quartz-carbonate stringers, 3-5% carbonate and pyrite in upper 0.5 feet, banding (bedding?) at 49° to core axis.	10684	tr-5	169.8	171.8	2.0			tr
171.8	190.4	Mafic Flows - dark green, fine grained, highly fractured and carbonatized, 10-15% banded quartz-carbonate veins with 3-5%, very coarse grained pyrrhotite blebs, banding at 42° to core axis.	10685	3-5	171.8	176.0	4.2			tr
			10686	3-5	176.0	181.0	5.0			tr
			10687	3-5	181.0	186.0	5.0			tr
			10688	3-5	186.0	190.4	4.4			tr
190.4	194.0	Mylonite - pink to greyish-green, fine grained, banded to brecciated. Modal percent: Quartz 25-30% Carbonate 25-30% Amphibole 15-20% Chlorite 5-10% Biotite 3-5% Sericite 3-5% Carbonate and chlorite matrix around angular fragments and as fracture coatings, banding at 51° to core axis.	10689		190.4	194.0	3.6			tr
194.0	207.7	Mafic Tuff - dark green to brown to white, fine grained, banded. Modal percent: Amphibole 40-45% Quartz 15-20% Chlorite 10-15% Biotite 10-15% Carbonate 5-10% Segregated banding 2-3% quartz-carbonate stringers, foliation at 52° to core axis at 203.0'.	10690		194.0	199.0	5.0			tr
			10691		199.0	204.1	5.1			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-14

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE		%	Au oz ton	GZ ton
					FROM	TO			
194.0	207.7	Cont'd. - 204.1' - 207.7' - brecciated and silicified greenish quartz-carbonate fracture filling, foliation at 50° to core axis at 207.7'.	10692		204.1	207.7	3.6		tr
207.7	218.8	Mafic Tuff and Greywacke - intermixed to interbedded, greywacke - dark grey to black to brown, fine to medium grained. Modal percent: Quartz 20-25% Feldspar 20-25% Carbonate 20-25% Biotite 10-15% Chlorite 3-5% Sericite 3-5% Quartz-carbonate-feldspar eyes in fine grained biotite-sericite-chlorite.	10693		207.7	212.7	5.0		tr
			10694		212.7	216.0	3.3		tr
			10695		216.0	218.8	2.8		tr
218.8	221.0	Mafic Tuff - typical.	10696		218.8	221.0	2.2		tr
221.0	230.0	Greywacke - typical fractures at 34° to core axis at 230.0'.	10697		221.0	226.0	5.0		tr
			10698		226.0	231.0	5.0		tr
230.0	286.0	Mafic Tuff, Greywacke and Mudstone - minor chert bands, 1-5% fine grained disseminated to banded pyrite throughout, abundant fracturing with greenish-yellow silicification haloes, 1-3% quartz-carbonate stringers, interbedded to gradational-intermixed bands, banding at 53° to core axis at 236.0', 50° at 244.0', 57° at 286.0', fractures at 40° to core axis at 251.0', 30° at 274.0'. - 246.0' - 266.0' - 3-5% pyrite as stringers and bands.	10699	1-5	231.0	236.0	5.0		tr
			10700	1-5	236.0	241.0	5.0		tr
			10701	1-5	241.0	246.0	5.0		tr
			10702	1-5	246.0	251.0	5.0		tr
			10703	1-5	251.0	256.0	5.0		tr
			10704	1-5	256.0	261.0	5.0		tr
			10705	1-5	261.0	266.0	5.0		tr
			10706	1-5	266.0	271.0	5.0	.002	tr
			10707	1-5	271.0	276.0	5.0		tr
			10708	1-5	276.0	281.0	5.0		tr
			10709	1-5	281.0	286.0	5.0		tr
286.0		E.O.H.							

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-15 LENGTH 337.0'
 LOCATION 17+00W, 16+75N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 210° DIP -48°
 STARTED September 15/87 FINISHED September 16/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
200.0	88.75				

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

REMARKS PA786809

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON
					FROM	TO				
0.0	11.0	CASING.								
11.0	18.9	MAFIC FLOWS.								
18.9	26.0	MAFIC INTRUSIVE.								
26.0	39.1	MAFIC FLOWS.								
39.1	56.0	MAFIC FLOWS - mylonitized.								
56.0	66.0	MAFIC FLOWS.								
66.0	76.7	MAFIC FLOWS - mylonitized.								
76.7	78.1	MAFIC INTRUSIVE.								
78.1	98.9	MAFIC FLOWS.								
98.9	101.8	MYLONITE.								
101.8	122.2	MAFIC TUFF.								
122.2	125.8	MYLONITE.								
125.8	140.8	MAFIC FLOWS.								
140.8	144.0	MAFIC FLOWS - mylonitized.								
144.0	164.7	MAFIC FLOWS.								
164.7	197.1	MYLONITE.								
197.1	236.7	MAFIC FLOWS.								
236.7	248.2	INTERMEDIATE FLOWS.								
248.2	337.0	MAFIC FLOWS - amphibolitic.								
		- 284.0' - 337.0' - carbonatized, chloritized.								
337.0		E.O.H.								

LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-15 LENGTH 337.0'
 LOCATION 17+00W, 16+75N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 210° DIP -48°
 STARTED September 15/87 FINISHED September 16/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
200.0	38.75				

HOLE NO. KAS-87A-15 SHEET NO. 1 of 4
 REMARKS PA786809

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	11.0	Casing.									
11.0	18.9	Mafic Flows - dark green to black, fine grained, massive with slight foliation. Modal percent: Amphibole 45-50% Plagioclase 40-45% Quartz] 3-5% Carbonate] Amphibolitic, few widely spaced fractures and quartz-carbonate stringers.	10710 10711		11.0 16.0	16.0 18.9	5.0 2.9			tr tr	
18.9	26.0	Mafic Intrusive - dark green to black, fine to medium grained, massive. Modal percent: Amphibole 50-55% Biotite 30-35% Carbonate 5-10% Porphyritic texture, medium grained biotite grains in fine grained groundmass, no fractures, quartz-carbonate stringers on contacts, contacts at 18° to core axis.	10712 10713		18.9 22.5	22.5 26.0	3.6 3.5			tr tr	
26.0	39.1	Mafic Flows - typical.	10714 10715 10716		26.0 31.0 36.0	31.0 36.0 39.1	5.0 5.0 3.1			tr tr tr	
39.1	56.0	Mafic Flows - mylonitized, green to pink to black, banded, silicified and carbonatized, minor zones of breccia, potassic alteration throughout, 3-5% quartz-carbonate bands and fracture fillings, foliation at 45° to core axis at 56.0'.	10717 10718 10719 10720		39.1 42.0 46.0 51.0	42.0 46.0 51.0 56.0	2.9 4.0 5.0 5.0			tr tr tr tr	
56.0	66.0	Mafic Flows - typical, minor quartz veining.	10721		56.0	61.0	5.0			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-15

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au oz ton	oz ton
					FROM	TO		
56.0	66.0	Cont'd.	10722		61.0	66.0	5.0	tr
66.0	76.7	<u>Mafic Flows</u> - mylonitized.	10723		66.0	71.0	5.0	tr
			10724		71.0	74.0	3.0	tr
			10725		74.0	76.7	2.7	tr
76.7	78.1	<u>Mafic Intrusive</u> - as above.	10726		76.7	78.1	1.4	tr
78.1	98.9	<u>Mafic Flows</u> - typical.	10727		78.1	81.0	2.9	.002
			10728		81.0	86.0	5.0	tr
			10729		86.0	91.0	5.0	tr
			10730		91.0	96.0	5.0	tr
			10731		96.0	98.9	2.9	.004
98.9	101.8	<u>Mylonite</u> - pink to grey, fine grained, banded. Modal percent: Quartz 40-45% Sericite 35-40% Carbonate 5-10% Epidote 5-7% Tourmaline 1-3%	10732		98.9	101.8	2.9	tr
		Numerous quartz blebs and stringers, carbonate throughout and as stringers and fracture fillings, tourmaline as disseminated grains						
101.8	122.2	<u>Mafic Tuff</u> - dark green to brown to grey, fine grained, banded. Modal percent: Amphibole 45-50% Quartz 25-30% Carbonate 5-10% Biotite 5-10%	10733		101.8	105.8	4.0	tr
			10734		105.8	110.8	5.0	.012
			10735		110.8	115.8	5.0	.006
			10736		115.8	120.8	5.0	tr
			10737		120.8	125.8	5.0	
		Increasing quartz-carbonate stringers towards 122.2', foliation at 47° to core axis at 102.0'.						
122.2	125.8	<u>Mylonite</u> - typical, breccia zones with fragments up to 0.1-foot across, 3-5% quartz-carbonate stringers.						
125.8	140.8	<u>Mafic Flows</u> - typical, minor black chert bands, foliation at 40° to core axis at 131.0', fractures at 33° to core axis at 131.0'.	10738		125.8	130.8	5.0	tr
			10739		130.8	135.8	5.0	tr
			10740		135.8	140.8	5.0	tr

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-15

 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SULPH IDES	FOOTAGE		Au OZ TON	OZ TON
					FROM	TO		
140.8	144.0	Mafic Flows - mylonitic, minor zones of intense alteration, 3-5% quartz-carbonate stringers.	10741		140.8	144.0	3.2	tr
144.0	164.7	Mafic Flows - typical, 2-3% quartz-carbonate stringers, foliation at 47° to core axis at 157.0'.	10742		144.0	147.0	3.0	tr
			10743		147.0	151.0	4.0	tr
			10744		151.0	156.0	5.0	tr
			10745		156.0	161.0	5.0	tr
			10746		161.0	164.7	3.7	tr
164.7	197.1	Mylonite - typical, 10-15% quartz-carbonate stringers, veins and fracture fillings, highly fractured with 10-15% ground core.	10747		164.7	167.7	3.0	tr
			10748		167.7	171.0	3.3	tr
			10749		171.0	176.0	5.0	tr
			10750		176.0	181.0	5.0	tr
			10751		181.0	186.0	5.0	tr
			10752		186.0	190.0	4.0	tr
			10753		190.0	194.0	4.0	tr
			10754		194.0	197.1	3.1	tr
197.1	236.7	Mafic Flows - atypical, fine to medium grained, 10-15% quartz-carbonate as fracture fillings, fracturing with minor dislocations throughout 2-3% epidote, 5-10% chlorite, limonite staining and potash feldspar in quartz stringers, foliation at 43° to core axis at 202.0'.	10755		197.1	201.0	3.9	tr
			10756		201.0	206.0	5.0	tr
			10757		206.0	211.0	5.0	tr
			10758		211.0	216.0	5.0	tr
			10759		216.0	221.0	5.0	tr
			10760		221.0	226.0	5.0	tr
			10761		226.0	229.0	3.0	tr
			10762		229.0	232.0	3.0	tr
			10763		232.0	236.7	4.7	tr
			236.7	248.2	Intermediate Flows - Modal percent: Quartz 40-45% Amphibole 35-40% Sericite 10-15%	10764		236.7
10765		241.7				246.0	4.3	tr
10766		246.0				248.2	2.2	tr
		Minor banded quartz-carbonate (dolomite) veins, few widely spaced fractures.						
248.2	337.0	Mafic Flows - atypical, fine to medium grained, amphibolitic, sporadic horizons with 2-3% disseminated magnetite.	10767		248.2	251.0	2.8	tr
			10768		251.0	256.0	5.0	tr
			10769		256.0	261.0	5.0	tr
			10770		261.0	266.0	5.0	tr
			10771		266.0	271.0	5.0	tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-15

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	Au	
					FROM	TO		TOTAL	02 TON
248.2	337.0	Cont'd.							
		- 284.0' - 337.0' - increasing carbonatization and chloritization downhole, carbonate increases from 2-20%, 3-5% quartz-carbonate stringers throughout, disseminated tourmaline as widely spaced coarse clots or aggregates of grains.	10772		271.0	276.0	5.0		tr
			10773		276.0	281.0	5.0		tr
			10774		281.0	286.0	5.0		tr
			10775		286.0	291.0	5.0		tr
			10776		291.0	296.0	5.0		tr
			10777		296.0	301.0	5.0		tr
			10778		301.0	306.0	5.0		tr
			10779		306.0	311.0	5.0		tr
			10780		311.0	316.0	5.0		tr
			10781		316.0	321.0	5.0		tr
			10782		321.0	326.0	5.0		tr
			10783		326.0	329.0	3.0		tr
			10784		329.0	332.0	3.0		tr
			10785		332.0	337.0	5.0		.028
337.0		E.O.H.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-16 LENGTH 316.0'
 LOCATION 17+00W, 16+75N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47.5°
 STARTED September 16/87 FINISHED September 17/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
316.0	35.0°				

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

REMARKS PA786809

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	12.0	CASING.									
12.0	19.6	MAFIC FLOWS.									
19.6	27.7	MAFIC INTRUSIVE.									
27.7	30.3	MAFIC FLOWS.									
30.3	31.5	MAFIC INTRUSIVE.									
31.5	35.6	MAFIC FLOWS.									
35.6	70.6	MAFIC FLOWS AND MYLONITE. - 35.6' - 40.6' - mylonite. - 40.6' - 48.8' - mafic flows, silicification. - 48.8' - 50.9' - mylonite. - 50.9' - 60.2' - mafic flows. - 60.2' - 70.6' - mylonite.									
70.6	71.3	MAFIC INTRUSIVE.									
71.3	159.7	MAFIC FLOWS AND MYLONITE. - 71.3' - 84.5' - mafic flows. - 84.5' - 90.4' - mafic flows, silicification. - 90.4' - 107.5' - mafic flows. - 107.5' - 115.7' - mafic flows, silicification. - 115.7' - 143.0' - mafic flows, carbonatization. - 143.0' - 156.7' - mylonite. - 156.7' - 159.7' - mafic flows.									
159.7	173.3	MAFIC TUFF.									
173.3	292.6	MAFIC FLOWS - amphibolitic.									
292.6	316.0	MAFIC FLOWS - mottled to massive.									
	316.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-16 LENGTH 316.0'
 LOCATION 17+00W, 16+75N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47.5°
 STARTED September 16/87 FINISHED September 17/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
316.0	35.0°				

HOLE NO. KAS-87A-16 SHEET NO. 1 of 4
 REMARKS PA786809

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	AU OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	12.0	Casing.									
12.0	19.6	Mafic Flows - dark green to black, fine grained, massive with slight foliation. Modal percent: Amphibole 50-55% Plagioclase 40-45% Quartz] Carbonate] 2-3% Few widely spaced fractures and quartz-carbonate stringers.	10786 10787		12.0 16.0	16.0 19.6	4.0 3.6			.008 tr	
19.6	27.7	Mafic Intrusive - dark green to black, fine to medium grained, massive. Modal percent: Amphibole 50-55% Biotite 30-35% Carbonate 5-10% Porphyritic textures, medium grained, biotite grains in fine grained groundmass, no fractures, quartz-carbonate stringers parallel to contacts at 42° to core axis.	10788 10789		19.6 23.6	23.6 27.7	4.0 4.1			tr tr	
27.7	30.3	Mafic Flows - typical.	10790		27.7	30.3	2.6			tr	
30.3	31.5	Mafic Intrusive - typical, contacts at 41° to core axis.	10791		30.3	31.5	1.2			tr	
31.5	35.6	Mafic Flows - typical, foliation at 47° to core axis at 35.0'.	10792		31.5	35.6	4.1			tr	
35.6	70.6	Mafic Flows and Mylonite - intense fracturing and brecciation with silicification, potassic alteration and carbonitization, minor dislocations along fracture planes sub-parallel to core axis, greenish-yellow silicification along fractures, 3-5% quartz-carbonate stringers, foliation at 52° to core axis at 46.0', 63° at 70.6'.									

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-16

 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	Au oz TON	oz TON
					FROM	TO	TOTAL				
35.6	70.6	Cont'd.									
		- 35.6' - 40.6' - mylonite, 5-10% carbonate, minor crypto-crystalline chert bands, pink to grey, banded.	10793		35.6	40.6	5.0			tr	
		- 40.6' - 48.8' - mafic flows, quartz-carbonate stringers with silicification haloes.	10794		40.6	44.6	4.0			tr	
			10795		44.6	48.8	4.2			tr	
		- 48.8' - 50.9' - mylonite, 15-20% carbonate, pink to greenish yellow to grey, potassic alteration, silicification.	10796		48.8	50.9	2.1			tr	
		- 50.9' - 60.2' - mafic flows, minor silicification haloes around quartz-carbonate stringers.	10797		50.9	56.0	5.1			tr	
			10798		56.0	60.2	4.2			tr	
		- 60.2' - 70.6' - mylonite, muddy-brown to yellow-green, 3-5% quartz-carbonate stringers, 10-15% carbonate, potassic alteration and silicification	10799		60.2	63.0	2.8			tr	
			10800		63.0	66.0	3.0			tr	
			10801		66.0	70.6	4.6			tr	
70.6	71.3	Mafic Intrusive - as above with minor potassic alteration and 25-30% carbonate near upper contact.	10802		70.6	71.3	0.7			tr	
71.3	159.7	Mafic Flows and Mylonite - foliation at 52° to core axis at 80.0', 53° at 94.4', 60° at 112.0', 48° at 136.0', 38° at 138.0', 57° at 151.0', 54° at 159.7', fractures at 9° and 35° to core axis at 130.5'.	10803		71.3	76.0	4.7			tr	
			10804		76.0	80.0	4.0			tr	
			10805		80.0	84.5	4.5			tr	
		- 71.3' - 84.5' - mafic flows, typical.									
		- 84.5' - 90.4' - mafic flows, fractured with quartz-carbonate stringers and adjacent silicification haloes.	10806		84.5	86.0	1.5				
			10807		86.0	90.4	4.4			tr	
			10808		90.4	94.4	4.0			.008	
		- 90.4' - 107.5' - mafic flows, typical.	10809		94.4	98.4	4.0			tr	
		- 98.4' - 99.5' - 0.3-foot banded quartz-tourmaline vein, discordant, 3-5% carbonate.	10810		98.4	99.5	1.1			tr	
			10811		99.5	104.3	4.8			.002	
		- 104.3' - 107.5' - 1.7-foot irregular-discordant quartz-tourmaline vein with 3-5% disseminated pyrite, 3-5% carbonate and minor potassic alteration.	10812		104.3	107.5	3.2			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-16

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	Au OZ TON	OZ TON
					FROM	TO			
71.3	159.7	Cont'd.							
		- 107.5' - 115.2' - mafic flows, silicified.	10813		107.5	111.5	4.0		tr
		- 115.2' - 143.0' - mafic flows, carbonatized, highly fractured, abundant cryptocrystalline chert bands, 3-5% carbonate and quartz-carbonate stringers.	10814		111.5	115.2	3.7		tr
			10815		115.2	118.0	2.8		tr
			10816		118.0	121.0	3.0		tr
			10817		121.0	126.0	5.0		tr
			10818		126.0	131.0	5.0		tr
			10819		131.0	136.0	5.0		tr
			10820		136.0	139.5	3.5		tr
			10821		139.5	143.0	3.5		tr
		- 143.0' - 156.7' - mylonite, minor blue-grey cryptocrystalline chert blebs and bands, 5-10% carbonate, 1-2% quartz-carbonate stringers.	10822		143.0	146.7	3.7		tr
			10823		146.7	151.7	5.0		tr
			10824		151.7	156.7	5.0		tr
		- 156.7' - 159.7' - mafic flows, typical.	10825		156.7	159.7	3.0		.002
159.7	173.3	Mafic Tuff - dark green to grey to brown, fine grained, banded. Modal percent: Amphibole 35-40% Quartz 30-35% Carbonate 5-7% Biotite 10-15% Magnetite 2-3%	10826		159.7	161.0	1.3		tr
			10827		161.0	166.0	5.0		tr
			10828		166.0	171.0	5.0		tr
			10829		171.0	173.3	2.3		tr
		Silicification haloes around fractures with greenish-yellow fracture filling, minor cryptocrystalline chert bands, narrow mylonite zones, foliation at 60° to core axis at 173.3'.							
173.3	292.6	Mafic Flows - atypical, fine to medium grained, amphibolitic, 3-5% quartz-carbonate stringers throughout foliation at 48° to core axis at 231.0', 42° at 266.0', few widely spaced fractures at 37° to core axis at 202.0' and 17° to core axis at 276.0'. - 186.0' - 187.5' - 5-7% quartz-carbonate stringers.	10830		173.3	176.0	2.7		tr
			10831		176.0	181.0	5.0		tr
			10832		181.0	186.0	5.0		tr
			10833		186.0	187.5	1.5		tr
			10834		187.5	191.0	3.5		tr
			10835		191.0	196.0	5.0		tr
			10836		196.0	201.0	5.0		tr
			10837		201.0	206.0	5.0		tr
			10838		206.0	211.0	5.0		.002
			10839		211.0	212.8	1.8		tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-16

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	SULPH IDES	FOOTAGE			%	Au	
					FROM	TO	TOTAL		02 TON	02 TON
173.3	292.6	Cont'd. - 212.8' - 226.0' - as above.	10840		212.8	216.0	3.2		tr	
			10841		216.0	221.0	5.0		tr	
			10842		221.0	226.0	5.0		tr	
			10843		226.0	231.0	5.0		tr	
			10844		231.0	236.0	5.0		tr	
			10845		236.0	241.0	5.0		tr	
			10846		241.0	246.0	5.0		tr	
			10847		246.0	251.0	5.0		tr	
			10848		251.0	256.0	5.0		tr	
		- 256.0' - 292.6' - schistose, chloritic flows, quartz-carbonate stringers and fracture fillings.	10849		256.0	261.0	5.0		tr	
			10850		261.0	266.0	5.0		tr	
			10851		266.0	271.0	5.0		tr	
			10852		271.0	276.0	5.0		tr	
			10853		276.0	281.0	5.0		tr	
			10854		281.0	286.0	5.0		tr	
			10855		286.0	291.0	5.0		tr	
			10856		291.0	296.0	5.0		tr	
292.6	316.0	Mafic Flows - atypical, massive-mottled, medium grained, foliation at 57° to core axis at 313.0'. - 292.6' - 296.0' - 5-10% quartz-carbonate stringers and fracture fillings.	10857		296.0	301.0	5.0		tr	
			10858		301.0	306.0	5.0		tr	
			10859		306.0	311.0	5.0		.002	
			10860		311.0	316.0	5.0		tr	
	316.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-17 LENGTH 346.0'
 LOCATION 16+97W, 16+74N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 150° DIP -45°
 STARTED September 17/87 FINISHED September 18/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
346.0	37.25				

HOLE NO. KAS-87A-17 SHEET NO. 1 of 1
 REMARKS PA786809

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	All OZ/TON	OZ/TON
					FROM	TO				
0.0	13.0	CASING.								
13.0	25.1	MAFIC FLOWS.								
25.1	32.0	MAFIC INTRUSIVE.								
32.0	78.9	MAFIC FLOWS AND MYLONITE.								
78.9	81.0	MAFIC INTRUSIVE.								
81.0	96.0	MAFIC FLOWS AND MYLONITE.								
96.0	185.0	MAFIC TUFF AND MYLONITE.								
185.0	316.6	MAFIC FLOWS - amphibolitic to chloritic-carbonatized.								
316.6	328.0	MAFIC TUFF.								
328.0	346.0	MAFIC FLOWS.								
	346.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-17 LENGTH 346.0'
 LOCATION 16+97W, 16+74N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 150° DIP -45°
 STARTED September 17/87 FINISHED September 18/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
346.0	37.25				

HOLE NO. KAS-87A-17 SHEET NO. 1 of 5

REMARKS PA786809

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	AU	oz/TON
					FROM	TO	TOTAL				
0.0	13.0	<u>Casing.</u>									
13.0	25.1	<u>Mafic Flows</u> - dark green to black, fine grained, massive to foliated. Modal percent: Amphibole 50-55% Plagioclase 40-45% Quartz } 2-3% Carbonate] 2-3% quartz-carbonate stringers foliation at 42° at 16.0', fractures at 47° to core axis at 14.0'.	10861 10862 10863		13.0 16.0 21.0	16.0 21.0 25.1	3.0 5.0 4.1			tr tr tr	
25.1	32.0	<u>Mafic Intrusive</u> - dark green to black, fine to medium grained, massive. Modal percent: Amphibole 50-55% Biotite 30-35% Carbonate 5-10% Porphyritic texture, medium grained biotite in fine grained groundmass, no fractures, carbonate stringers on contacts, contacts at 17° to core axis.	10864 10865		25.1 29.0	29.0 32.0	3.9 3.0			tr tr	
32.0	78.9	<u>Mafic Flows and Mylonite</u> - mylonite: pink to grey, fine grained, banded. Modal percent: Quartz 40-45% Potash Feldspar 20-25% Carbonate 10-15% Sericite 10-15% Mylonitic zones highly fractured to brecciated, gradational changes from flows, flows fractured, silicified and carbonatized variable potassic alteration.									

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-17

 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO.	SULPHIDES	FOOTAGE		Au oz TON	GZ TON	
					FROM	TO			TOTAL
32.0	78.9	Cont'd.							
		- 32.0' - 38.4' - mafic flows, typical.	10866		32.0	36.0	4.0	tr	
			10867		36.0	38.4	2.4	tr	
		- 38.4' - 42.4' - mafic flows, brecciated, microfaulted, dislocations of 1/4" at 14° to core axis, minor drag folding along fault lineament, quartz-carbonate (calcite-dolomite) infillings of fractures.	10868		38.4	42.4	4.0	tr	
		- 42.4' - 51.2' - mafic flows, fractured, 3-5% quartz-carbonate veins.	10869		42.4	46.0	3.6	tr	
			10870		46.0	51.2	5.2	tr	
		- 51.2' - 51.5' - mylonite.							
		- 51.5' - 66.7' - fractured mafic flows, minor silicification	10871		51.2	53.7	2.5	tr	
			10872		53.7	56.7	3.0	tr	
			10873		56.7	61.0	4.3	tr	
			10874		61.0	66.0	5.0	tr	
		- 66.7' - 72.0' - mylonite, ruddy cryptocrystalline chert bands, 2-3% quartz-carbonate stringers.	10875		66.0	69.5	3.5	tr	
			10876		69.5	72.0	2.5	tr	
		- 72.0' - 78.9' - mafic flows, fractured, minor silicification.	10877		72.0	76.0	4.0	tr	
			10878		76.0	78.9	2.9	tr	
		Foliation at 37° to core axis at 33.0', 44° at 42.4', 45° at 56.0'							
78.9	81.0	<u>Mafic Intrusive</u> - typical, as above.	10879		78.9	81.0	2.1	tr	
81.0	96.0	<u>Mafic Flows and Mylonite</u> -							
		- 81.0' - 88.1' - mafic flows, fractured, minor silicification.	10880		81.0	86.0	5.0	tr	
			10881		86.0	88.1	2.1	tr	
		- 88.1' - 96.0' - mylonite, trace disseminated pyrite, 10-13% quartz-carbonate stringers.	10882	tr	88.1	91.0	2.9	tr	
			10883	tr	91.0	96.0	5.0	tr	
		Foliation at 47° to core axis at 22.5', 50° at 91.0'.							
96.0	185.0	<u>Mafic Tuff and Mylonite</u> - dark green to grey to brown, fine grained, banded.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-17

SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SULPHIDES	FOOTAGE		Au OZ TON	OZ TON
					FROM	TO		
96.0	185.0	Cont'd.						
		Modal percent: Amphibole-Grunerite 35-40%						
		Quartz 35-40%						
		Biotite 5-7%						
		Carbonate 3-5%						
		Tourmaline 2-3%						
		Epidote 1-2%						
		Pyrite tr-2%						
		Pyrrhotite tr-1%						
		Highly fractured, silicified, 5-10% quartz-carbonate stringers, banded with grunerite-tremolite-tourmaline-pyrite, minor cryptocrystalline chert bands, pyrite as blebs and fracture coatings, pyrrhotite as disseminated grains and blebs.						
		- 96.0' - 156.9' - minor potassic alteration and silicification.	10884	tr-2	96.0	101.0	5.0	tr
		- 145.1' - 146.2' - mottled with quartz-feldspar eyes.	10885	tr-2	101.0	106.0	5.0	tr
			10886	tr-2	106.0	111.0	5.0	tr
			10887	tr-2	111.0	116.0	5.0	tr
			10888	tr-2	116.0	121.0	5.0	tr
			10889	tr-2	121.0	126.0	5.0	tr
			10890	tr-2	126.0	131.0	5.0	tr
			10891	tr-2	131.0	136.0	5.0	tr
			10892	tr-2	136.0	141.0	5.0	tr
			10893	tr-2	141.0	145.1	4.1	tr
			10894		145.1	146.2	1.1	tr
			10895		146.2	149.6	3.4	tr
			10896		149.6	152.5	2.9	tr
			10897		152.5	156.9	4.4	tr
		- 156.9' - 169.6' - mylonite, typical, 5-10% carbonate-chlorite fracture fillings.	10898		156.9	161.0	4.1	tr
			10899		161.0	166.0	5.0	tr
			10900		166.0	169.0	3.0	tr
		- 169.6' - 172.0' - mafic tuff, typical.	10901		169.0	172.0	3.0	tr
		- 172.0' - 185.0' - mylonite, typical, increased carbonation downhole, 5-15% carbonate.	10902	tr-2	172.0	176.0	4.0	.002
			10903	tr-2	176.0	181.0	5.0	.002
			10904	tr-2	181.0	185.0	4.0	tr
		foliation at 49° to core axis at 106.0', 52° at 138.0', 48° at 156.0', 49° at 170.0'.						

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-17

SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au	oz TON	oz TON
					FROM	TO			
185.0	316.6	Mafic Flows - medium grained-amphibolitic to fine grained-chloritic and schistose.							
		- 185.0' - 188.5' - chloritic flows 20-25% carbonate, foliation at 46° to core axis.	10905		185.0	188.5	3.5	.002	
		- 188.5' - 244.3' - amphibolitic flows medium to coarse grained, 3-5% quartz-carbonate stringers, foliation at 51° to core axis at 216.0'.	10906		188.5	191.0	2.5	tr	
			10907		191.0	196.0	5.0	tr	
			10908		196.0	201.0	5.0	.016	
			10909		201.0	206.0	5.0	tr	
			10910		206.0	211.0	5.0	tr	
			10911		211.0	216.0	5.0	tr	
			10912		216.0	221.0	5.0	tr	
			10913		221.0	226.0	5.0	tr	
			10914		226.0	231.0	5.0	tr	
			10915		231.0	236.0	5.0	tr	
			10916		236.0	241.0	5.0	tr	
			10917		241.0	244.3	3.3	tr	
		- 244.3' - 246.9' - chloritic flows, 20-25% quartz-carbonate stringers with trace-1% hematite weathering on fractures, trace-2% disseminated tourmaline wisps.	10918		244.3	246.9	2.6	tr	
		- 246.9' - 281.5' - amphibolitic flows, fractures at 12° to core axis.	10919		246.9	251.0	4.1	tr	
			10920		251.0	256.0	5.0	tr	
			10921		256.0	261.0	5.0	tr	
			10922		261.0	266.0	5.0	tr	
			10923		266.0	271.0	5.0	tr	
			10924		271.0	276.0	5.0	tr	
			10925		276.0	278.5	2.5	tr	
			10926		278.5	281.5	3.0	tr	
		- 281.5' - 286.9' - chloritic flows, as above.	10927		281.5	284.0	2.5	tr	
			10928		284.0	286.9	2.9	tr	
		- 286.9' - 295.0' - amphibolitic flows.	10929		286.9	291.0	4.1	tr	
			10930		291.0	294.5	3.5	tr	
		- 295.0' - 296.0' - chloritic flows as above.	10931		294.5	296.0	1.5	tr	
		- 296.0' - 300.2' - amphibolitic flows.	10932		296.0	300.2	4.2	tr	
		- 300.2' - 306.0' - chloritic flows, as above.	10933		300.2	303.0	2.8	tr	
			10934		303.0	306.0	3.0	tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-17 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	SULPH IDES	FOOTAGE			AV GZ TON	GZ TON	
				FROM	TO	TOTAL				
185.0	316.6	Cont'd. - 306.0' - 307.9' - amphibolitic flows. - 307.9' - 312.9' - chloritic flows. - 312.9' - 316.6' - amphibolitic flows.	10935		306.0	307.9	1.9		tr	
			10936		307.9	312.9	5.0		tr	
			10937		312.9	316.6	3.7		tr	
316.6	328.0	<u>Mafic Tuff</u> - typical, foliation at 50° to core axis at 318.0'.	10938		316.6	321.0	4.4		tr	
			10939		321.0	326.0	5.0		tr	
			10940		326.0	328.0	2.0		tr	
328.0	346.0	Mafic Flows - atypical, mottled with coarse grained amphibole clots in chlorite-amphibole groundmass, 1-2% quartz-carbonate stringers, fractures at 40° to core axis at 334.0'.	10941		328.0	331.0	3.0		tr	
			10942		331.0	336.0	5.0		tr	
			10943		336.0	341.0	5.0		tr	
			10944		341.0	346.0	5.0		tr	
	346.0	E.O.H.								

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-18 LENGTH 510.0'
 LOCATION 47+00W, 03+48S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 18/87 FINISHED September 19/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
250.0	39.25				
510.0	30.50				

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

REMARKS PA786796

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON
				FROM	TO	TOTAL				
0.0	14.0	CASING.								
14.0	261.1	MAFIC TO INTERMEDIATE FLOWS - 151.0' - 155.5' - 5-7% pyrrhotite.								
261.1	322.7	FELSIC TUFF. - 261.1' - 270.5' - 3-7% pyrrhotite.								
322.7	330.1	GRANITIC INTRUSIVE.								
330.1	510.0	SILTSTONE TO WACKE. E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-18 LENGTH 510.0'
 LOCATION 47+00W, 03+48S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 18/87 FINISHED September 19/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
250.0	39.25				
510.0	30.50				

HOLE NO. KAS-87A-18 SHEET NO. 1 of 3
 REMARKS PA786796

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON
					FROM	TO				
0.0	14.0	Casing.								
14.0	261.1	Mafic to Intermediate Flows - dark grey to dark green to black, fine to medium grained, banded. Modal percent: Hornblende 40-45% Plagioclase 20-25% Quartz 10-15% Chlorite 3-5% Grunerite 2-3% Garnet 2-3% Carbonate 1-2% Sericite 1-2% Interbanded feldspar-quartz-hornblende-sericite and hornblende-chlorite-garnet-grunerite bands with porphyroblastic pink garnets in chlorite, foliation varies from 59° to 64° across interval. - 26.0' - 31.0' - 0.5-foot quartz-carbonate vein, 1-2% disseminated pyrrhotite and pyrite grains and blebs. - 98.9' - 100.9' - 0.6-foot discordant quartz-carbonate vein, highly fractured, 2-3% disseminated pyrite throughout. - 109.1' - 124.9' - 3-5% quartz-carbonate stringers and veins 1-2% disseminated <u>tourmaline</u> . - 128.8' - 131.7' - 3-5% fine grained biotite bands with 1-3% fine grained disseminated pyrrhotite blebs.								
			10945	1-2	26.0	31.0	5.0			tr
			10946	2-3	98.9	100.9	2.0			tr
			10947		100.9	106.0	5.1			tr
			10948		106.0	109.1	3.1			tr
			10949		109.1	111.0	1.9			tr
			10950		111.0	116.0	5.0			tr
			10951		116.0	121.0	5.0			tr
			10952		121.0	124.9	3.9			tr
			10953		124.9	128.8	3.9			tr
			10954	1-3	128.8	131.7	2.9			tr
			10955		146.0	151.0	5.0			tr

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-18

 SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			OZ Au/TON	OZ TON	
					FROM	TO	TOTAL			
14.0	261.0	Cont'd.								
		- 151.0' - 155.5' - 5-7% pyrrhotite as massive discordant stringers, highly folded to wispy, 3-5% disseminated carbonate.	10956	5-7	151.0	155.5	4.5			tr
			10957		155.5	160.5	5.0			tr
			10958		160.5	162.8	2.3			tr
		- 162.8' - 164.6' - 1-2% disseminated pyrrhotite.	10959	1-2	162.8	164.6	1.8			tr
		- 190.6' - 192.5' - 0.3-foot discordant quartz-carbonate vein	10960		190.6	192.5	1.9			tr
		- 214.0' - 216.6' - 1-2% disseminated pyrrhotite and pyrite in amphibole-chlorite-garnet bands.	10961	1-2	214.0	216.6	2.6			tr
		- 260.1' - 261.1' - 2-3% wispy pyrrhotite.	10962	2-3	260.1	261.1	1.0			tr
261.1	322.7	<u>Felsic Tuff</u> - dark grey, fine grained, schistose. Modal percent: Sericite 40-45% Quartz 30-35% Chlorite 5-10% Garnet tr-5% Biotite 1-3% Amphibole 1-2%								
		Crenulated, foliation - schistosity at 65° to core axis at 277.0', 61° at 306.0'.								
		- 261.1' - 270.5' - 3-7% pyrrhotite bands and stringers, 2-3% medium grained magnetite, exclusive of pyrrhotite.	10963	3-7	261.1	266.0	4.9			tr
			10964	3-7	266.0	270.5	4.5			tr
		- 319.9' - 322.7' - distorted bands, crenulated, 5-7% quartz-carbonate stringers.	10965		319.9	322.7	2.8			tr
322.7	330.1	<u>Granitic Intrusive</u> - cream to white to purplish-grey to green, coarse grained, massive. Modal percent: Feldspar 45-50% Quartz 25-30% Muscovite 15-20%								
		Coarse anhedral grains, feldspars white to cream coloured, quartz purplish grey, mica green, fine grained and disseminated throughout, contacts at 54° to core axis at 322.7', 89° at 330.1'.								
			10966		322.7	326.0	3.3			tr
			10967		326.0	330.1	4.1			tr

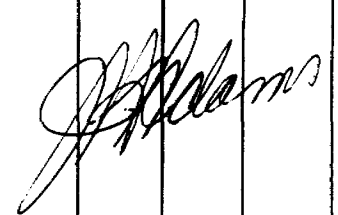
DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-18

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au OZ TON	OZ TON
					FROM	TO		
330.1	510.0	<p>Siltstone to Wacke - black to grey, finely laminated, fine grained</p> <p>Modal percent: Quartz 40-45% Biotite 15-20% Feldspar 10-15% Chlorite 5-10% Sericite 3-5% Carbonate 3-5% Amphibole 1-2% Pyrite tr-1% Garnet tr-0.5%</p> <p>Very finely laminated, plagioclase as medium grained eyes in some horizons, minor carbonate bands, few widely spaced fractures and quartz-carbonate stringers, pyrite as very fine grained wisps, foliation at 70° to core axis across interval.</p> <p>- 361.3' - 361.8' - granite dykelet as above.</p> <p>- 383.5' - 384.1' - fractured horizon, 3-5% quartz-carbonate stringers, 2-3% coarse grained pyrrhotite blebs.</p> <p>- 467.9' - 486.8' - 3-5% quartz-carbonate stringers and veins trace-0.5% pyrrhotite.</p>						
			10968		361.0	362.0	1.0	tr
			10969	2-3	383.5	386.0	2.5	tr
			10970	tr-.5	467.9	474.1	6.2	tr
			9699		474.1	478.9	4.8	tr
			9700		478.9	481.8	2.9	tr
			10971	tr-.5	481.8	486.8	5.0	tr
			10972	tr-1	506.0	510.0	4.0	tr
510.0		E.O.H.						



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-19 LENGTH 526.0'
 LOCATION 49+00W, 03+49S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 19/87 FINISHED September 20/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
250.0	40°				
506.0	33°				

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

REMARKS PA786796

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	4.0	CASING.									
4.0	241.8	MAFIC TO INTERMEDIATE VOLCANIC FLOWS. - 84.1' - 91.0' - 3-5% pyrrhotite.									
241.8	322.7	FELSIC TUFF.									
322.7	526.0	SILTSTONE TO ARKOSE, FELSIC TUFF.									
	526.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-19 LENGTH 526.0'
 LOCATION 49+00W, 03+49S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 19/87 FINISHED September 20/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
250.0	40°				
506.0	33°				

HOLE NO. KAS-87A-19 SHEET NO. 1 of 3
 REMARKS PA786796

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	4.0	Casing.									
4.0	241.8	Mafic to Intermediate Volcanic Flows - dark grey to dark green to black, fine grained, banded. Modal percent: Hornblende 40-45% Plagioclase 20-25% Quartz 10-15% Chlorite 3-5% Grunerite 2-3% Garnet 2-3% Carbonate 1-2% Sericite 1-2% Bands of hornblende-chlorite-garnet-grunerite in feldspar-quartz-hornblende-sericite groundmass, fine to medium grained porphyroblastic pink garnets on chlorite bands. Foliation varies from 58° to 65° to core axis across interval. - 4.0' - 8.2' - quartz-carbonate veining up to 1.0-foot wide, banded with trace-1% pyrite and pyrrhotite. - 29.9' - 32.2' - as above. - 34.5' - 36.7' - as above. - 36.7' - 44.1' - 1-2% disseminated pyrrhotite and pyrite. - 51.0' - 56.0' - 3.0-foot banded quartz-carbonate vein with 3-5% disseminated or aggregated <u>tourmaline</u> . - 75.0' - 78.8' - quartz-carbonate vein subparallel to core axis. - 84.1' - 91.0' - 3-5% pyrrhotite as widely spaced massive stringers.									
			10973	tr-1	4.0	8.2	4.2			tr	
			10974	tr-1	29.9	34.5	4.6			tr	
			10975	tr-1	34.5	36.7	2.2			tr	
			10976	1-2	36.7	41.0	3.3			tr	
			10977	1-2	41.0	44.1	3.1			tr	
			10978		51.0	56.0	5.0			tr	
			10979		75.0	78.8	3.8			tr	
			10980	3-5	84.1	86.0	1.9			tr	
			10981	3-5	86.0	91.0	5.0			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNTS LAKE

HOLE NO. KAS-87A-19

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			Au	oz TON	oz TON
					FROM	TO	TOTAL			
4.0	241.8	Cont'd. - 103.7' - 106.0' - 2-3% quartz-carbonate stringers.	0982		103.7	106.0	2.3			tr
			0983		156.0	161.0	5.0			tr
			0984		196.0	201.0	5.0			tr
			0985		236.8	241.8	5.0			tr
241.8	322.7	Felsic Tuff - dark grey, fine grained, schistose. Modal percent: Sericite 40-45% Quartz 30-35% Chlorite 5-10% Garnet tr-5% Biotite 1-3% Amphibole 1-2% Upper 5.0 feet consists of 10-15% disseminated porphyroblastic pink garnets, 1-2% pyrrhotite throughout, foliation at 68° to core axis at 249.0', 60° at 256.0' and 311.0'. - 266.0' - 291.6' - sericite schist, 3-5% quartz-carbonate stringers, 2-3% disseminated pyrrhotite wisps. - 291.6' - 322.7' - 1-3% pyrrhotite.	0986		241.8	246.0	4.2			tr
			10987	2-3	266.0	271.0	5.0			tr
			10988	2-3	271.0	276.0	5.0			tr
			10989	2-3	276.0	281.0	5.0			tr
			10990	2-3	281.0	286.0	5.0			tr
			10991	2-3	286.0	291.0	5.0			tr
			10992	1-3	291.0	296.0	5.0			tr
			10993	1-3	296.0	301.0	5.0			tr
			10994	1-3	301.0	306.0	5.0			tr
			10995	1-3	306.0	311.0	5.0			tr
			10996	1-3	311.0	316.0	5.0			tr
			10997	1-3	316.0	321.0	5.0			tr
			10998	1-3	321.0	322.7	1.7			tr
322.7	526.0	Sitstone to Arkose, Felsic Tuff - white to black to grey, finely laminated to massive, fine grained. Modal Percent: Quartz 40-45% Biotite 15-20% Feldspar 10-15% Chlorite 5-10% Sericite 3-5% Carbonate 3-5% Amphibole 1-2%								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-19

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au	DZ TON
					FROM	TO		
322.7	526.0	Cont'd. Siltstones very finely laminated, arkose mottled to poorly banded, white to cream coloured, foliation varies from 63° to 72° to core axis across interval.						
		- 356.0' - 376.0' - intermixed felsic tuff and siltstone with 3-5% quartz-carbonate stringers.	0999		356.0	361.0	5.0	tr
			1000		361.0	366.0	5.0	tr
			9501		366.0	371.0	5.0	tr
			9502		371.0	376.0	5.0	tr
		- 411.3' - 413.6' - 5-7% quartz-carbonate stringers.	9503		411.3	413.6	2.3	tr
		- 432.2' - 435.0' - as above.	9504		432.2	435.0	2.8	tr
		- 453.0' - 456.0' - 0.5-foot quartz vein, abundant quartz-carbonate stringers.	9505		453.0	456.0	3.0	tr
		- 476.0' - 492.7' - arkose, 0.6-foot carbonate vein.	9506		476.0	481.0	5.0	tr
			9507		481.0	486.0	5.0	.006
			9508		486.0	491.0	5.0	tr
			9509		491.0	492.7	1.7	tr
		- 509.9' - 526.0' - 2-3% banded quartz-carbonate stringers with 1-3% disseminated pyrrhotite and pyrite.	9510	1-3	509.9	514.9	5.0	tr
			9511	1-3	514.9	519.9	5.0	tr
			9512	1-3	519.9	524.0	4.1	tr
			9513	1-3	524.0	526.0	2.0	tr
526.0		E.O.H.						

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-20 LENGTH 516.0'
 LOCATION 51+00W, 03+04S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 20/87 FINISHED September 22/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
250.0	-42°				
516.0	-34°				

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

REMARKS PA786796

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON
					FROM	TO				
0.0	6.0	CASING.								
6.0	290.6	MAFIC TO INTERMEDIATE VOLCANIC FLOWS - 49.6' - 60.6' - 3-7% pyrrhotite. - 64.5' - 72.7' - 3-7% pyrrhotite.								
290.6	308.1	FELSIC TUFF.								
308.1	310.4	GRANITIC INTRUSIVE.								
310.4	313.0	FELSIC TUFF.								
313.0	318.4	GRANITIC INTRUSIVE.								
318.4	335.1	FELSIC TO INTERMEDIATE TUFF.								
335.1	366.0	SILTSTONE.								
366.0	367.7	FELSIC TO INTERMEDIATE TUFF.								
367.7	375.0	GREYWACKE.								
375.0	516.0	SILTSTONE.								
	516.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-20 LENGTH 516.0'
 LOCATION 51+00W, 03+04S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 20/87 FINISHED September 22/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
250.0	-42°				
516.0	-34°				

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

REMARKS PA786796

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	6.0	Casing.									
6.0	290.6	Mafic to Intermediate Volcanic Flows - dark grey to dark green to black, fine to medium grained, banded. Modal percent: Hornblende 40-45% Plagioclase 20-25% Quartz 10-15% Chlorite 3-5% Grunerite 2-3% Garnet 2-3% Carbonate 1-2% Sericite 1-2% Hornblende-chlorite-garnet-grunerite bands in feldspar-quartz-hornblende-sericite groundmass, pink porphyroblastic garnets in chlorite bands, foliation varies from 58° to 68° to core axis across interval. - 16.0' - 18.4' - 2-3% quartz-carbonate stringers. - 29.9' - 31.8' - as above. - 39.4' - 40.4' - 0.1-foot irregular quartz vein with 2-3% pyrite stringers. - 49.6' - 60.6' - 3-7% pyrrhotite in chlorite-carbonate bands as disseminated grains and in tourmaline-carbonate veins as 5-7% coarse grained blebs, 3-5% quartz-carbonate stringers. - 64.5' - 72.7' - as above. - 82.4' - 83.6' - irregular banded quartz vein, clean. - 91.0' - 93.0' - 0.4-foot quartz-carbonate vein, 3-5% pyrr-									
			9514		16.0	18.4	2.4			tr	
			9515		29.9	31.8	1.9			tr	
			9516	2-3	39.4	40.4	1.0			tr	
			9517	3-7	49.6	54.0	4.4			tr	
			9518	3-7	54.0	57.0	3.0			tr	
			9519	3-7	57.0	60.6	3.6			tr	
			9520		60.6	64.5	3.9			tr	
			9521	3-7	64.5	68.0	3.5			tr	
			9522	3-7	68.0	72.7	4.7			tr	
			9523		82.4	83.6	1.2			tr	
			9524	3-5	91.0	93.0	2.0			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-20

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	Au oz TON	oz TON
					FROM	TO	TOTAL				
6.0	290.6	Cont'd.									
		hotite as massive stringers.									
		- 96.0' - 101.0' - 3-5% quartz-carbonate stringers, 1.0-foot quartz-carbonate vein with 1-3% disseminated pyrite.	9525	1-3	96.0	101.0	5.0			tr	
		- 108.7' - 127.7' - 2-3% irregular quartz-carbonate stringers	9526		108.7	111.0	2.3			tr	
			9527		111.0	116.0	5.0			tr	
			9528		116.0	121.0	5.0			tr	
			9529		121.0	126.0	5.0			tr	
			9530		126.0	127.7	1.7			tr	
		- 136.0' - 138.5' - 1.0-foot irregular banded quartz-carbonate vein with 1-2% coarse grained pyrrhotite.	9531	1-2	136.0	138.5	2.5			tr	
		- 161.0' - 166.0' - 2-3% irregular quartz-carbonate stringers	9532		161.0	166.0	5.0			tr	
		- 187.0' - 196.0' - 3-5% quartz-carbonate veins, less than 0.2 feet wide.	9533		187.0	191.0	4.0			.002	
			9534		191.0	196.0	5.0			tr	
		- 246.0' - 251.0' - 1-2% quartz-carbonate veins.	9535		246.0	251.0	5.0			tr	
		- 251.0' - 266.0' - 1-2% pyrite and carbonate infilling, irregular fractures.	9536	1-2	251.0	256.0	5.0			tr	
			9537	1-2	256.0	261.0	5.0			.002	
			9538	1-2	261.0	266.0	5.0			tr	
		- 277.7' - 280.6' - 1-3% disseminated pyrrhotite in chlorite bands.	9539	1-3	277.7	280.6	2.9			tr	
290.6	308.1	<u>Felsic Tuff</u> - dark grey, fine grained, schistose.	9540	2-3	290.6	296.0	5.4			tr	
		Modal percent: Sericite 40-45%	9541	1-2	296.0	301.0	5.0			tr	
		Quartz 30-35%	9542	1-2	301.0	306.0	5.0			tr	
		Chlorite 5-10%	9543	1-2	306.0	308.1	2.1			tr	
		Garnet 5-10%									
		Crenulated, irregular quartz stringers with 1-2% disseminated pyrite, upper 5.0 feet has 10-15% garnets (pink, medium grained, porphyroblastic) with 2-3% pyrite stringers, foliation at 60° to core axis at 296.0'.									

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-20

 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton						
					FROM	TO	TOTAL							
308.1	310.4	<p><u>Granitic Intrusive</u> - cream to purplish-grey to green, coarse grained, massive. Modal percent: Feldspar 45-50% Quartz 25-30% Muscovite 15-20%</p> <p>Coarse anhedral grains of cream-coloured feldspar and purplish-grey quartz; fine grained green muscovite disseminated throughout, contacts at 78° to core axis at 308.1', 55° at 310.4'.</p>	9544		308.1	310.4	2.3				tr			
310.4	313.0	<u>Felsic Tuff</u> - as above.	9545	1-2	310.4	313.0	2.6				.005			
313.0	318.4	<p><u>Granitic Intrusive</u> - as above, contact 72° to core axis at 313.0', irregular at 318.4', 1-2% coarse grained potash felspar laths.</p>	9546		313.0	316.0	3.0				tr			
			9547		316.0	318.4	2.4				tr			
318.4	335.1	<p><u>Felsic to Intermediate Tuff</u> - brown to white to green, fine to medium grained, banded. Modal percent: Quartz] 50-55% Feldspar] Biotite 20-25% Amphibole 15-20% Carbonate tr-1% Pyrite] Pyrrhotite] tr-0.5%</p> <p>Some bands with medium grained feldspar eyes, minor quartz stringers, foliation - banding at 80° to core axis at 321.0'.</p>	9548	tr	318.4	321.0	2.6				tr			
335.1	366.0	<p><u>Siltstone</u> - dark grey to pink, fine grained, finely laminated. Modal percent: Quartz 40-45% Chlorite 30-35% Garnet 5-10% Biotite 3-5% Pyrite] Pyrrhotite] 1-3% Carbonate 0.5-2%</p> <p>Disseminated fine to medium grained porphyroblastic pink garnets, pyrrhotite and pyrite disseminated throughout pyrite as fracture fillings.</p>	9549	1-3	335.1	340.1	5.0				tr			
			9550	1-3	340.1	345.1	5.0				tr			
			9551	1-3	345.1	350.1	5.0				tr			
			9552	1-3	350.1	355.1	5.0				tr			
			9553	1-3	355.1	360.1	5.0				tr			
			9554	1-3	360.1	363.0	2.9				tr			
			9555	1-3	363.0	366.0	3.0				tr			

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-20

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS	
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		
366.0	367.7	<u>Felsic to Intermediate Tuff</u> - as above.						
367.7	375.0	<u>Greywacke</u> - dark grey to brown to white to dark green, poorly laminated, fine to medium grained. Modal percent: Quartz } 35-40% Feldspar } Amphibole } 15-20% Carbonate } 15-20% Chlorite } 5-10% Biotite } 5-10%	9556		367.7	371.0	3.3	tr
			9557		371.0	375.0	4.0	tr
		Numerous quartz-feldspar-carbonate eyes and bands interbedded with biotite, chlorite, amphibole bands, 2-3% quartz-carbonate stringers.						
375.0	516.0	<u>Siltstone</u> - as above, foliation averages 68° to core axis.						
		- 382.8' - 388.2' - 3-5% quartz-carbonate veins and stringers with trace-1% disseminated pyrite.	9558	tr-1	382.8	386.0	3.2	tr
			9559	tr-1	386.0	388.2	2.2	
		- 393.3' - 394.8' - quartz-carbonate stringers and 2-3% pyrrhotite stringers.	9560		393.3	394.8	1.5	tr
		- 399.4' - 400.4' - irregular banded quartz-carbonate vein with fractured and silicified wallrock fragments.	9561		399.4	400.4	1.0	tr
		- 415.8' - 421.0' - 5-7% irregular quartz-carbonate stringers with trace-1% pyrrhotite and pyrite.	9562	tr-1	415.8	421.0	5.2	tr
		- 466.5' - 488.2' - irregular, arkosic siltstone bands, 15-20% feldspar, 5-7% carbonate, poorly banded.						
		- 466.5' - 471.0' - 2-3% irregular quartz stringers with 3-5% pyrrhotite, pyrite stringers.	9563	3-5	466.5	471.0	4.5	tr
		- 495.5' - 500.5' - 1-2% irregular quartz-carbonate stringers	9564		495.5	500.5	5.0	tr
		- 502.9' - 504.8' - irregular quartz-carbonate vein with 1-3% disseminated pyrrhotite and pyrite.	9565	1-3	502.9	504.8	1.9	tr
516.0		E.O.H.						

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-21 LENGTH 406.0'
 LOCATION 37+00W, 05+60S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED September 23/87 FINISHED September 24/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
200.0	45.25				
406.0	35.00				

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

REMARKS PA786801

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	AI OZ/TON	OZ/TON
0.0	30.5	CASING.							
30.5	194.4	MAFIC TO INTERMEDIATE VOLCANIC FLOWS.							
194.4	202.2	SULPHIDE ZONE - 5-7% pyrrhotite, 2-3% pyrite.							
202.2	220.4	FELSIC TUFF - 1-3% pyrrhotite, pyrite.							
220.4	233.5	MAFIC TO INTERMEDIATE VOLCANIC FLOWS.							
233.5	301.4	FELSIC TUFF - 2-3% pyrite.							
301.4	325.5	FELSIC TO INTERMEDIATE TUFF.							
325.5	406.0	SILTSTONE.							
	406.0	E.O.H.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-21 LENGTH 406.0'
 LOCATION 37+00W, 05+60S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED September 23/87 FINISHED September 24/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
200.0	45.25				
406.0	35.00				

HOLE NO. KAS-87A-21 SHEET NO. 1 of 3

REMARKS PA786801

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	30.5	Casing.								
30.5	194.4	Mafic To Intermediate Volcanic Flows - dark green to dark grey to black, fine grained, poorly banded to massive. Modal percent: Hornblende 45-50% Plagioclase 20-35% Quartz 10-15% Chlorite 3-5% Garnet 1-5% Interbanded amphibole-chlorite-garnet bands and amphibole-quartz-plagioclase bands, pink porphyroblastic garnets increase in size and proportion downhole, foliation varies from 52° to 60° to core axis across interval. - 41.0' - 43.0' - 1-2% quartz-carbonate stringers. - 53.8' - 58.3' - as above. - 106.0' - 116.0' - as above.								
			9566		41.0	43.0	2.0			tr
			9567		53.8	58.3	4.5			tr
			9568		106.0	111.0	5.0			tr
			9569		111.0	116.0	5.0			tr
194.4	202.2	Sulphide Zone - dark grey, fine grained, folded banding. Modal Percent: Quartz 50-55% Sericite 15-20% Biotite 5-7% Pyrrhotite 5-7% Garnet 3-5% Pyrite 2-3% Grunerite 2-3% Highly distorted banding, sulphides banded or as stringers, may represent sulphide facies, iron formation, foliation at 50° to core axis at 196.0'.	9570	7-10	194.9	198.9	4.0			tr
			9571	7-10	198.9	202.2	3.3			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-21

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton			
					FROM	TO				TOTAL
202.2	220.4	Felsic Tuff - dark grey to pink, fine grained, schistose. Modal percent: Sericite 40-45% Quartz 25-30% Garnet 10-15% Chlorite 5-10% Pyrrhotite] 1-3% Pyrite] Crenulated, foliation-schistosity at 63° to core axis at 219.5', disseminated finegrained porphyroblastic pink garnets.	9572	1-3	202.2	206.0	3.8			tr
			9573	1-3	206.0	211.0	5.0			tr
			9574	1-3	211.0	216.0	5.0			tr
			9575	1-3	216.0	220.4	4.4			tr
220.4	233.5	Mafic to Intermediate Volcanic Flows - typical.	9576		220.4	226.0	5.6			tr
			9577		226.0	231.0	5.0			tr
			9578		231.0	233.5	2.5			tr
233.5	301.4	Felsic Tuff - typical, with 2-3% chlorite blebs and 2-3% pyrite as blebs and fracture coatings, foliation at 50-70° to core axis over interval. - 246.0' - 248.5' - 0.8-foot quartz vein, clean. - 290.0' - 291.0' - 0.6-foot quartz vein, clean. - 296.0' - 301.4' - 3-5% quartz-carbonate stringers with 1-2% coarse grained pyrrhotite and pyrite.	9579	2-3	233.5	236.0	2.5			tr
			9580	2-3	236.0	241.0	5.0			tr
			9581	2-3	241.0	246.0	5.0			tr
			9582	2-3	246.0	251.0	5.0			tr
			9583	2-3	251.0	256.0	5.0			tr
			9584	2-3	256.0	261.0	5.0			tr
			9585	2-3	261.0	266.0	5.0			tr
			9586	2-3	266.0	271.0	5.0			tr
			9587	2-3	271.0	276.0	5.0			tr
			9588	2-3	276.0	281.0	5.0			tr
			9589	2-3	281.0	286.0	5.0			tr
			9590	2-3	286.0	291.0	5.0			.002
			9591	2-3	291.0	296.0	5.0			tr
			9592	1-2	296.0	301.4	5.4			tr
301.4	325.5	Felsic to Intermediate Tuff - purplish-grey to dark green to white, fine grained, banded. Modal percent: Quartz 35-40% Sericite 30-35% Amphibole 20-25% Carbonate tr-1% Pyrite tr-1% Pyrite as disseminated grains gradational contact with sediments.	9593	tr-1	301.4	306.0	4.6			tr
			9594	tr-1	321.0	325.5	4.5			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-21 SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton					
				FROM	TO	TOTAL						
325.5	406.0	<p><u>Siltstone</u> - dark grey to grey, fine grained, finely laminated.</p> <p>Modal percent: Quartz 40-45% Chlorite 30-35% Garnet 5-10% Biotite 3-5% Carbonate 1-3% Pyrite tr-1%</p> <p>Very fine porphyroblastic pink garnets throughout, 2-5% quartz-carbonate eyes; pyrite as fracture coatings, foliation at 70° to core axis at 326.0' and 345.0', 81° at 371.0', 73° at 400.5'.</p>	9595	tr-1	325.5	330.5	5.0					
			9596	tr-1	341.0	346.0	5.0					
			9597	tr-1	361.0	366.0	5.0					
			9598	tr-1	381.0	386.0	5.0					
			9599	tr-1	396.0	401.0	5.0					
			9600	tr-1	401.0	406.0	5.0					
	406.0	E.O.H.										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-22 LENGTH 291.0'
 LOCATION 56+00W, 23+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED September 24/87 FINISHED September 25/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-47°				
291.0	-31°				

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

REMARKS PA786798

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	17.0	<u>CASING.</u>									
17.0	68.2	<u>FELSIC TO INTERMEDIATE TUFF.</u>									
68.2	74.0	<u>SILTSTONE.</u>									
74.0	122.9	<u>FELSIC TO INTERMEDIATE TUFF.</u>									
122.9	139.1	<u>MAFIC FLOWS.</u>									
139.1	146.6	<u>MAFIC TO INTERMEDIATE TUFF AND SILTSTONE - 65:35.</u>									
146.6	291.0	<u>MAFIC FLOWS.</u>									
	291.0	<u>E.O.H.</u>									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-22 LENGTH 291.0'
 LOCATION 56+00W, 23+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED September 24/87 FINISHED September 25/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-47°				
291.0	-31°				

HOLE NO. KAS-87A-22 SHEET NO. 1 of 3

REMARKS PA786798

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	FOOTAGE			%	%	Au OZ/TON	OZ/TON
				FROM	TO	TOTAL				
0.0	17.0	Casing.								
17.0	68.2	Felsic to Intermediate Tuff - grey to green, fine grained, laminated to banded. Modal percent: Quartz 30-35% Feldspar 20-25% Amphibole 15-20% Biotite 15-20% Carbonate 1-3% Few widely spaced fractures or quartz-carbonate stringers, trace pyrite, foliation at 59° to core axis across interval. - 27.6' - 29.0' - medium grained quartz-plagioclase, crystal tuff. - 60.9' - 63.9' - 2-3% quartz-carbonate stringers.	9996	17.0	21.0	4.0			tr	
68.2	74.0	Siltstone - purplish-brown to green to white, fine grained, laminated. Modal percent: Biotite 30-35% Carbonate 25-30% Quartz 15-20% Amphibole 10-15% Epidote 1-2% 2-3% quartz-carbonate stringers and eyes.	9997 9998 9999 10000	60.9 63.9 68.2 71.0	63.9 68.2 71.0 74.0	3.0 4.3 2.8 3.0			tr tr tr tr	
74.0	122.9	Felsic to Intermediate Tuff - typical, foliation at 59° to core axis at 86.0', 63° at 105.0', 62° at 118.0'. - 96.0' - 102.5' - 3-5% irregular quartz-carbonate veins, trace-1% disseminated <u>tourmaline</u> and pyrite.	1401 1402 tr-1 1403 tr-1 1404	74.0 96.0 99.0 102.5	76.0 99.0 102.5 105.0	2.0 3.0 3.5 2.5			tr tr tr tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-22 SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton			
					FROM	TO	TOTAL				
74.0	122.9	Cont'd. - 105.0' - 107.1' - fractured - silicified, yellowish-green, quartz-carbonate-epidote infilling. - 113.7' - 118.8' - brecciated zone, minor potassic alteration, greenish-yellow matrix. - 118.8' - 122.9' - 3-5% disseminated to banded pyrite.	1405		105.0	107.1	2.1				tr
			1406		107.1	111.0	3.9				tr
			1407		111.0	113.7	2.7				tr
			1408		113.7	118.8	5.1				tr
			1409	3-5	118.8	122.9	4.1				tr
122.9	139.1	<u>Mafic Flows</u> - dark green, fine grained, massive to slightly schistose. Modal percent: Amphibole 50-55% Plagioclase 40-45% Quartz Carbonate] 2-3% Amphibolitic, 2-3% quartz-carbonate stringers with 1-2% pyrite, foliation at 70° to core axis at 137.0'.	1410	1-2	122.9	126.0	3.1				tr
			1411	1-2	126.0	131.0	5.0				tr
			1412	1-2	131.0	136.0	5.0				tr
			1413	1-2	136.0	139.1	3.1				tr
139.1	146.6	<u>Mafic to Intermediate Tuff and Siltstone</u> - 65:35, siltstone as beds or bands, tuff dark green to dark grey, fine grained, banded. Modal percent: Amphibole 45-50% Quartz 30-35% Chlorite 10-15% Carbonate 1-2% Interbedded siltstone horizons, typical, few widely spaced fractures or quartz-carbonate stringers.	1414		139.1	146.6	7.5				tr
146.6	291.0	<u>Mafic Flows</u> - fine to coarse grained, typical. - 146.6' - 186.0' - fine grained flows. - 181.0' - 186.0' - 2-3% quartz-carbonate veins - tourmaline - 2-3% pyrrhotite. - 186.0' - 291.0' - medium to coarse grained flows with minor schistose horizons, 2-5% quartz-carbonate stringers. - 186.0' - 219.8' - 2-5% quartz-carbonate-epidote veins.	1415		146.6	151.6	5.0				tr
			1416	2-3	181.0	186.0	5.0				tr
			1417		186.0	191.0	5.0				tr
			1418		191.0	196.0	5.0				tr
			1419		196.0	201.0	5.0				tr
			1420		201.0	206.0	5.0				tr
			1421		206.0	211.0	5.0				tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-22

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO.	% SULPH IDES	FOOTAGE		Au oz/Ton		
					FROM	TO			
146.6	291.0	Cont'd.	1422		211.0	216.0	5.0		tr
			1423		216.0	219.8	3.8		tr
			1424		237.7	240.7	3.0		tr
			1425		240.7	243.7	3.0		tr
		- 237.7' - 243.7' - 2-3% quartz-carbonate stringers at 12° and 20° to core axis.	1426		243.7	245.7	2.0		tr
			1427		245.7	249.7	4.0		tr
			1428		249.7	253.7	4.0		tr
		- 281.6' - 291.0' - mottled flows, 2-3% irregular quartz-carbonate veins.	1429		281.6	286.0	4.4		tr
			1430		286.0	291.0	5.0		tr
	291.0	E.O.H.							



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-23 LENGTH 314.0'
 LOCATION 44+00W, 23+54N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 25/87 FINISHED September 26/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-45°				
300.0	-33°				

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

REMARKS PA786798

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	7.0	CASING.									
7.0	74.6	MAFIC FLOWS.									
74.6	97.7	MAFIC TUFF.									
97.7	187.0	MAFIC FLOWS.									
187.0	230.0	SILTSTONE.									
230.0	314.0	FELSIC TO INTERMEDIATE TUFF.									
	314.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-23 LENGTH 314.0'
 LOCATION 44+00W, 23+54N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED September 25/87 FINISHED September 26/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-45°				
300.0	-33°				

HOLE NO. KAS-87A-23 SHEET NO. 1 of 3

REMARKS PA786798

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Au oz/TON	oz/TON
					FROM	TO				
0.0	7.0	Casing.								
7.0	74.6	Mafic Flows - dark green, fine grained, foliated - massive. Modal percent: Amphibole 50-55% Plagioclase 40-45% Quartz] 2-3% Carbonate] Few widely spaced fractures, amphibolitic, foliated at 51° to core axis at 26.0', 50° at 52.0', 45° at 74.6'. - 11.0' - 21.7' - 3-5% quartz-carbonate-epidote veining. - 37.7' - 39.7' - fracturing, silicified. - 42.0' - 46.0' - veining, as above with 1-2% pyrrhotite and and pyrite. - 47.8' - 52.2' - clean, quartz-carbonate vein.	1431		11.0	16.0	5.0			tr
			1432		16.0	19.0	3.0			tr
			1433		19.0	21.7	2.7			tr
			1434		37.7	39.7	2.0			tr
			1435		39.7	42.0	2.3			tr
			1436	1-2	42.0	46.0	4.0			tr
			1437		46.0	47.8	1.8			tr
			1438		47.8	52.2	4.4			tr
74.6	97.7	Mafic Tuff - dark green to white to brown, fine grained, banded. Modal percent: Amphibole 45-50% Quartz 20-25% Carbonate 10-15% Biotite 5-10% 3-5% quartz-carbonate veining with trace-0.5% pyrite and pyrrhotite foliation at 56° to core axis at 96.0'.	1439	tr-.5	74.6	79.6	5.0			tr
			1440	tr-.5	79.6	84.6	5.0			tr
			1441	tr-.5	84.6	89.6	5.0			tr
			1442	tr-.5	89.6	94.6	5.0			tr
			1443	tr-.5	94.6	97.7	3.1			tr
97.7	187.0	Mafic Flows - fine grained to medium grained, massive to slightly schistose, trace-0.5% tourmaline and pyrrhotite as stringers, minor ankerite stringers, 2-3% quartz-carbonate stringers-	1444	tr-2	97.7	101.0	3.3			tr
			1445	tr-2	101.0	106.0	5.0			.002
			1446	tr-2	106.0	111.0	5.0			tr

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-23 SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton		
					FROM	TO	TOTAL			
97.7	187.0	Cont'd. 1-2% pyrrhotite, pyrite. - 166.0' - 186.0' - 2-3% disseminated pyrrhotite. Foliation averages 60° to core axis.	1447	tr-2	111.0	116.0	5.0			
			1448	tr-2	116.0	121.0	5.0			
			1449	tr-2	121.0	126.0	5.0			.004
			1450	tr-2	126.0	131.0	5.0			tr
			1451	tr-2	131.0	136.0	5.0			tr
			1452	tr-2	136.0	141.0	5.0			tr
			1453	tr-2	141.0	146.0	5.0			tr
			1454	tr-2	146.0	151.0	5.0			tr
			1455	tr-2	151.0	156.0	5.0			tr
			1456	tr-2	156.0	161.0	5.0			tr
			1457	tr-2	161.0	166.0	5.0			tr
			1458	tr-2	166.0	171.0	5.0			tr
			1459	tr-2	171.0	176.0	5.0			tr
			1460	tr-2	176.0	181.0	5.0			tr
			1461	tr-2	181.0	186.0	5.0			tr
			1462	tr-2	186.0	187.0	1.0			tr
187.0	230.0	<u>Siltstone</u> - purplish-brown to green to white, fine grained, laminated. Modal percent: Biotite 30-35% Carbonate 25-30% Quartz 15-20% Amphibole 10-15% Carbonate as bands and disseminated grains, abundant carbonate and quartz eyes, minor quartz-carbonate stringers. - 206.0' - 209.7' - fractured and silicified with greenish-yellow quartz-epidote-carbonate infilling - 215.0' - 230.0' - as above with minor brecciation, 3-5% quartz-carbonate veins with trace-2% pyrrhotite and pyrite. Foliation averages 65.6° to core axis.	1463		187.0	191.0	4.0			tr
			1464		206.0	209.7	3.7			tr
			1465	tr-2	215.0	220.0	5.0			tr
			1466	tr-2	220.0	225.0	5.0			tr
			1467	tr-2	225.0	230.0	5.0			tr
230.0	314.0	<u>Felsic to Intermediate Tuff</u> - grey to green, fine grained, laminated to banded.								

LANGHEES - TORONTO - 306-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-23

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		TOTAL
230.0	314.0	Modal percent: Quartz 30-35% Feldspar 20-25% Amphibole 15-20% Biotite 15-20% Carbonate 1-3% Minor lapilli and plagioclase crystals (medium grained), foliation averages 68.4° to core axis. - 236.5' - 237.5' - breccia zone, chlorite carbonate infilling-matrix. - 239.6' - 240.6' - breccia zone, 50:50, matrix clasts, clasts pink to grey from potassic alteration, chlorite carbonate infilling. - 240.6' - 242.7' - trace - 1% disseminated arsenopyrite and pyrite, 2-3% quartz-carbonate stringers. - 266.0' - 268.2' - 3-5% quartz-carbonate stringers. - 281.3' - 284.3' - 3-5% quartz-carbonate veins and stringers with 2-3% disseminated pyrite. - 289.0' - 314.0' - 2-3% quartz-carbonate stringers with 1-3% disseminated pyrite.						
			1468		236.5	240.6	4.1	tr
			1469	tr-1	240.6	242.7	2.1	tr
			1470		266.0	268.2	2.2	tr
			1471	2-3	281.3	284.3	3.0	tr
			1472		289.0	291.0	2.0	tr
			1473		291.0	296.0	5.0	tr
			1474		296.0	301.0	5.0	tr
			1475		301.0	306.0	5.0	tr
			1476		306.0	311.0	5.0	tr
			1477		311.0	314.0	3.0	.006
314.0		E.O.H.						

J. Adams

LANGRISHES - TORONTO - 388-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-24 LENGTH 380.0'
 LOCATION 51+00W, 15+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED September 27/87 FINISHED September 27/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-47°				
380.0	-43°				

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

REMARKS PA786797

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON
					FROM	TO				
0.0	10.0	CASING.								
10.0	135.9	MAFIC FLOWS.								
135.9	161.9	SILTSTONE.								
161.9	214.9	INTERMEDIATE TO MAFIC TUFF.								
214.9	228.3	SILTSTONE.								
228.3	357.6	INTERMEDIATE TO MAFIC TUFF.								
357.6	380.0	MAFIC FLOWS.								
	380.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-24 LENGTH 380.0'
 LOCATION 51+00W, 15+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED September 27/87 FINISHED September 27/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-47°				
380.0	-43°				

HOLE NO. KAS-87A-24 SHEET NO. 1 of 4

REMARKS PA786797

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	AU OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	10.0	Casing.									
10.0	135.9	Mafic Flows - dark green to black, fine to coarse grained, massive to schistose. Modal percent: Amphibole 50-55% Plagioclase 40-45% Quartz] 2-3% Carbonate] Amphibolitic, few widely spaced fractures, common quartz-carbonate stringers, foliation at 50° to core axis at 16.0', 70° at 48.0', 42° at 103.5', 58° at 133.0', fractures at 44° to core axis at 133.0'. - 10.0' - 43.7' - fine grained, massive. - 36.0' - 37.6' - 3-5% quartz-carbonate stringers. - 40.8' - 43.7' - as above with 2-3% disseminated pyrite. - 43.7' - 52.2' - medium grained, massive. - 52.2' - 59.8' - fine grained, massive to schistose. - 52.2' - 54.6' - 3-5% quartz-carbonate veining. - 57.9' - 59.8' - as above with 5-10% coarse grained <u>tourmaline</u> clots. - 59.8' - 94.3' - medium grained, massive. - 76.0' - 79.8' - 2-5% quartz-carbonate stringers. - 82.0' - 84.0' - as above. - 86.0' - 89.1' - as above.									
			1478		36.0	37.6	1.6			.002	
			1479		40.8	43.7	2.9			tr	
			1480		52.2	54.6	2.4			tr	
			1481		57.9	59.8	1.9			.002	
			1482		76.0	79.8	3.8			.002	
			1483		79.8	82.0	2.2			tr	
			1484		82.0	84.0	2.0			tr	
			1485		84.0	89.1	5.1			tr	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-24

 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		TOTAL	Au oz/ton		
					FROM	TO				
10.0	135.9	Cont'd. - 94.3' - 135.9' - massive, mottled, medium to coarse grained - 94.3' - 96.3' - 1-2% quartz-carbonate stringers subparallel to core axis.	1486		94.3	96.3	2.0			tr
			1487		103.3	105.5	2.2			.002
135.9	161.9	Siltstone - purplish-brown to green to white, fine grained, laminated. Modal percent: Biotite 30-35% Carbonate 25-30% Quartz 15-20% Amphibole 10-15% Minor quartz stringers and eyes, foliation at 59° to core axis at 161.0' fracturing and silicification with quartz-carbonate-epidote infillings throughout.	1488		135.9	139.9	4.0			tr
			1489		139.9	141.9	2.0			tr
			1490		141.9	146.9	5.0			tr
			1491		146.9	151.9	5.0			tr
			1492		151.9	156.9	5.0			tr
			1493		156.9	161.9	5.0			tr
161.9	214.9	Intermediate to Mafic Tuff - green to grey to white, fine grained, banded to laminated. Modal percent: Amphibole 45-50% Quartz] 20-25% Plagioclase] Biotite 5-10% Chlorite 5-10% Carbonate 3-5% Garnet 2-3% Minor disseminated porphyroblastic pink garnets, few fractures, foliation at 60° to core axis at 186.0', fractures at 50° to core axis at 186.0'. - 181.6' - 183.3' - 3-5% quartz-carbonate stringers. - 186.0' - 187.0' - as above. - 195.3' - 209.2' - 5-10% quartz-carbonate stringers, 1-3% disseminated pyrrhotite, trace-1% pyrite.	1494		181.6	183.3	1.7			tr
			1495		183.3	186.0	2.7			tr
			1496		186.0	187.0	1.0			.012
			1497		187.0	191.0	4.0			tr
			1498		191.0	195.3	4.3			tr
			1499	1-3	195.3	198.0	2.7			tr
			17501	1-3	198.0	201.0	3.0			tr
			17502	1-3	201.0	206.0	5.0			.002
			17503	1-3	206.0	209.2	3.2			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-24

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPH IDES	FOOTAGE			Au oz/ton					
					FROM	TO	TOTAL						
161.9	214.9	Cont'd.	17504		209.2	212.4	3.2				tr		
			17505		212.4	214.9	2.5				tr		
214.9	228.3	Siltstone - irregular laminations and banding, 3-5% irregular quartz-carbonate stringers and veins, foliation at 55° to core axis at 226.0'.	17506		214.9	217.9	3.0				tr		
			17507		217.9	221.0	3.1				tr		
			17508		221.0	226.0	5.0				.002		
			17509		226.0	228.3	2.3				.002		
228.3	357.6	Intermediate to Mafic Tuff - trace-5% disseminated porphyroblastic pink garnets, foliation at 66° to core axis at 256.0', 57° at 286.0', 48° at 313.0', 62° at 346.0', 62° at 357.0'. - 228.3' - 238.8' - 2-3% quartz-carbonate stringers with trace-3% pyrrhotite. - 245.2' - 247.7' - 3-5% quartz-carbonate stringers. - 260.5' - 349.9' - fracturing and brecciation, 2-5% quartz-carbonate stringers.	17510	tr-3	228.3	232.8	4.5				.002		
			17511	tr-3	232.8	235.7	2.9				.002		
			17512	tr-3	235.7	238.8	3.1				.002		
			17513		238.8	241.5	2.7				.004		
			17514		241.5	245.2	3.7				tr		
			17515		245.2	247.7	2.5				.010		
			17516		247.7	251.0	3.3				tr		
			17517		251.0	256.0	5.0				.002		
			17518		256.0	260.5	4.5				tr		
			17519		260.5	263.0	2.5				tr		
			17520		263.0	266.0	3.0				.004		
			17521		266.0	271.0	5.0				tr		
			17522		271.0	276.0	5.0				tr		
			17523		276.0	281.0	5.0				.002		
			17524		281.0	286.0	5.0				.004		
			17525		286.0	291.0	5.0				tr		
			17526		291.0	296.0	5.0				tr		
			17527		296.0	301.0	5.0				tr		
			17528		301.0	306.0	5.0				tr		
			17529		306.0	311.0	5.0				tr		
			17530		311.0	316.0	5.0				tr		
			17531		316.0	321.0	5.0				tr		
			17532		321.0	326.0	5.0				tr		
			17533		326.0	331.0	5.0				tr		
			17534		331.0	336.0	5.0				tr		
			17535		336.0	341.0	5.0				tr		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-24

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS															
FROM	TO		NO.	% SULPH IDES	FOOTAGE			Au oz/ton														
					FROM	TO	TOTAL															
228.3	357.6	Cont'd.	17536		341.0	346.0	5.0															
			17537		346.0	349.9	3.9															
			17538		349.9	354.7	4.8															
357.6	380.0	Mafic Flows - fine to medium grained, foliation at 68° to core axis at 376.0'. - 376.8' - 379.0' - 2-3% quartz-carbonate stringers. E.O.H.																				
	380.0																					
	280.0																					

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DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-25 LENGTH 351.0'
 LOCATION 34+00W, 12+40N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -56°
 STARTED September 28/87 FINISHED September 29/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	56.0°				
351.0	45.3°				

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

REMARKS PA786800

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	Au oz/TON	oz/TON
					FROM	TO				
0.0	16.0	<u>CASING.</u>								
16.0	194.6	<u>MAFIC FLOWS.</u>								
194.6	276.1	<u>FELSIC TO INTERMEDIATE TUFF.</u>								
276.1	314.3	<u>MAFIC TO INTERMEDIATE TUFF.</u>								
314.3	351.0	<u>MAFIC FLOWS.</u>								
	351.0	<u>E.O.H.</u>								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-25 LENGTH 351.0'
 LOCATION 34+00W, 12+40N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -56°
 STARTED September 28/87 FINISHED September 29/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	56.0°				
351.0	45.3°				

HOLE NO. KAS-87A-25 SHEET NO. 1 of 4

REMARKS PA786800

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au oz/TON	oz/TON
					FROM	TO	TOTAL				
0.0	16.0	Casing.									
16.0	194.6	Mafic Flows - dark green to black, fine to coarse grained, massive to schistose. Modal percent: Amphibole 45-50% Plagioclase 40-45% Quartz Carbonate] 2-5% Tourmaline tr-2% Pyrite Pyrrhotite] trace Amphibolitic, abundant quartz-carbonate veining in some horizons, foliation at 72° to core axis at 25.0', 58° at 50.0', 50° at 145.0', 43° at 181.0', 43° at 190.5'. - 16.0' - 51.9' - fine grained, massive flows. - 24.4' - 25.3' - quartz-carbonate vein, 3-5% pyrrhotite and pyrite blebs, 2-3% medium grained magnetite, 1-2% <u>tourmaline</u> as needles and grains. - 37.2' - 41.4' - 3-5% quartz-carbonate stringers. - 42.6' - 46.0' - 5-7% quartz-carbonate veining, trace-1% pyrite and pyrrhotite with trace <u>chalcopyrite</u> . - 51.9' - 134.0' - medium grained, massive flows. - 51.9' - 53.4' - 3-5% quartz-carbonate veining with 2-3% <u>tourmaline</u> grains and 1-2% pyrite blebs. - 77.3' - 78.6' - 2-3% quartz-carbonate stringers.									
			17539	3-5	21.0	26.0	5.0			tr	
			17540		37.2	41.4	4.2			tr	
			17541		41.4	46.0	4.6			.002	
			17542	1-2	51.9	56.0	4.1			tr	
			17543		76.0	78.6	2.6			tr	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-25

 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton		
					FROM	TO			
16.0	194.6	Cont'd.							
		- 130.6' - 131.7' - coarse grained flow, massive with 5-7% coarse grained <u>tourmaline</u> clots.	17544		130.6	131.7	1.1	tr	
			17545		131.7	134.0	2.3	tr	
		- 134.0' - 167.9' - fine to medium grained, schistose flows.							
		- 134.0' - 146.0' - 5-10% composite quartz-carbonate veining, 1-2% disseminated pyrite, 3-5% biotite grains in flows.	17546	1-2	134.0	136.0	2.0	tr	
			17547	1-2	136.0	141.0	5.0	.010	
			17548	1-2	141.0	146.0	5.0	.008	
			17549		146.0	149.4	3.4	.002	
		- 149.4' - 153.8' - 3-5% quartz-carbonate veining.	17550		149.4	153.8	4.4	tr	
		- 167.9' - 182.3' - medium grained flows and 3-5% banded mafic tuff, 2-5% quartz-carbonate stringers.	17551		167.9	171.0	3.1	tr	
			17552		171.0	176.0	5.0	tr	
			17553		176.0	181.0	5.0	tr	
		- 182.3' - 190.4' - medium grained, flows.							
		- 190.4' - 194.6' - fine grained, flows.	17554		181.0	182.3	1.3	tr	
194.6	276.1	<u>Felsic to Intermediate Tuff</u> - dark grey to brown to dark green, fine grained, laminated to banded. Modal percent: Quartz] 50-55% Feldspar] Sericite 10-15% Amphibole 10-15% Chlorite 5-10% Biotite 3-5% Carbonate 2-3%							
		Minor quartz-carbonate stringers and widely spaced fractures, foliation at 53° to core axis at 195.5', 60° at 235.5', 56° at 251.0', 53° at 266.0'.							
		- 194.6' - 212.1' - 3-5% quartz and plagioclase crystals, medium grained.							
		- 216.7' - 218.4' - breccia zone, potassic alteration of clasts, chlorite, quartz and carbonate infillings.	17555		216.0	221.0	5.0	tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-25

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL		Au oz/ton		
194.6	276.1	Cont'd. - 221.0' - 223.0' - 3-5% quartz-carbonate stringers. - 236.0' - 257.3' - fractured to brecciated horizon, 3-5% irregular quartz-carbonate-tourmaline stringers, 1-2% pyrite, potassic alteration, minor mylonitic zones with 5-7% epidote and 15-20% carbonate. - 257.3' - 273.5' - 2-3% pyrrhotite and pyrite as stringers sub-parallel to core axis and as bands and irregular blebs.	17556		221.0	223.0	2.0		tr		
			17557	1-2	236.0	241.0	5.0		tr		
			17558	1-2	241.0	246.0	5.0		tr		
			17559	1-2	246.0	251.0	5.0		tr		
			17560	1-2	251.0	254.2	3.2		tr		
			17561		254.2	257.3	3.1		tr		
			17562	2-3	257.3	261.0	3.7		tr		
			17563	2-3	261.0	266.0	5.0		.006		
			17564	2-3	266.0	271.0	5.0		tr		
			17565	2-3	271.0	273.5	2.5		tr		
276.1	314.3	Mafic to Intermediate Tuff - green to grey to white, fine grained, banded to laminated. Modal percent: Amphibole 45-50% Quartz] 20-25% Plagioclase] Biotite 5-10% Chlorite 5-10% Carbonate 3-5% Garnet 2-3% Minor disseminated porphyroblastic pink garnets, 2-3% quartz-carbonate stringers throughout, foliation at 45° to core axis at 290.0', 52° to core axis at 312.0'. - 289.0' - 290.0' - irregular quartz-carbonate vein, clean. - 291.7' - 296.0' - fracturing and silicification, 3-5% quartz-carbonate-epidote stringers. - 307.1' - 310.1' - 3-5% quartz-carbonate stringers, trace garnet, trace pyrite stringers sub-parallel to core axis.	17566		276.1	281.0	4.9		.008		
			17567		281.0	286.0	5.0		.006		
			17568		286.0	289.0	3.0		tr		
			17569		289.0	290.0	1.0		.012		
			17570		290.0	291.7	1.7		tr		
			17571		291.7	296.0	4.3		.008		
			17572		296.0	301.0	5.0		tr		
			17573		301.0	304.0	3.0		tr		
			17574		304.0	307.1	3.1		.002		
			17575		307.1	310.1	3.0		tr		
			17576		310.1	314.3	4.2		.002		
314.3	351.0	Mafic Flows - fine to medium grained, massive to mottled flows, foliation at 55° to core axis at 327.0', 59° at 351.0'.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-25

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Au oz/ton		
					FROM	TO	TOTAL				
314.3	351.0	Cont'd.									
		- 314.3' - 324.9' - fractured, silicified with 3-5% irregular quartz-carbonate-epidote stringers.	17577		314.3	318.0	3.7		tr		
			17578		318.0	321.0	3.0		tr		
			17579		321.0	324.9	3.9		tr		
		- 346.0' - 351.0' - as above with irregular mauve coloured quartz-carbonate fracture fillings.	17580		346.0	351.0	5.0		tr		
	351.0	E.O.H.									

J. Adams

LAMARQUES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-26 LENGTH 415.0'
 LOCATION 20+00W, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -53.5°
 STARTED September 30/87 FINISHED October 1/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	53.5°				
200.0	42.0°				
400.0	39.6°				

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

REMARKS PA786808

SUMMARY LOG

LOGGED BY P. Taylor

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	4.0	CASING.									
4.0	114.2	MAFIC FLOW.									
114.2	119.2	FELSIC TO INTERMEDIATE TUFF.									
119.2	127.6	MAFIC FLOW.									
127.6	238.6	FELSIC TO INTERMEDIATE TUFF.									
238.6	242.8	MAFIC FLOW.									
242.8	251.0	FELSIC TO INTERMEDIATE TUFF.									
251.0	252.0	MAFIC FLOW.									
252.0	255.8	FELSIC TO INTERMEDIATE TUFF.									
255.8	269.2	MAFIC FLOW.									
269.2	297.4	FELSIC TO INTERMEDIATE TUFF.									
297.4	346.0	MAFIC FLOW.									
346.0	382.1	SHEARED IRON FORMATION AND MAFIC VOLCANICS.	9686		359.0	363.0	4.0			.168	
			9687		363.0	366.0	3.0			.154	Check
										.136	
			9688		366.0	371.0	5.0			.130	Check
										.130	
			9692		382.1	387.0	4.9			.126	Check
										.100	
										.098	Check
382.1	395.8	SHEARED MAFIC VOLCANICS.									
395.8	415.0	MAFIC FLOW.									
	415.0	E.O.H.									

LANGRIDGES - TORONTO - 365-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-26 LENGTH 415.0'
 LOCATION 20+00W, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -53.5°
 STARTED September 30/87 FINISHED October 1/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
200.0	42.0°				
400.0	39.6°				

HOLE NO. KAS-87A-26 SHEET NO. 1 of 11

REMARKS PA786808

LOGGED BY P. Taylor

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON
				FROM	TO	TOTAL				
0.0	4.0	Casing.								
4.0	114.2	Mafic Flow - greenish grey to dark green, very fine to medium grained; weakly foliated, irregular to wispy, indistinct banding. Modal percent: Amphibole 40-45% Quartz] 30-35% Feldspar] Chlorite 10-15% Carbonate tr-2% Magnetite tr-1% Pyrite tr-1% Pyrrhotite tr-1% Foliation at 43° to core axis at 18.0', fracture at 38° to core axis at 14.5'; quartz-epidote-carbonate interflow bands common; trace pyrite and pyrrhotite common throughout section occurring as disseminations or parallel to foliation surface. - 4.0' - 6.4' - trace to 1% pyrite-pyrrhotite occurring as disseminations or parallel to foliation surface; at 5.5', ½" quartz vein, concordant, with trace-1% very fine grained pyrite. - 6.4' - 7.4' - 1-2% pyrite-pyrrhotite occurring along foliation surface and on fracture surface. - 7.4' - 10.0' - trace-1% pyrite-pyrrhotite occurring as disseminations or along foliation surface. - 10.0' - 12.9' - as per above. - 12.9' - 17.9' - typical mafic flow. - 17.9' - 22.6' - typical mafic flow.								
			9601	1	4.0	6.4	2.4			tr
			9602	1-2	6.4	7.4	1.0			tr
			9603	1	7.4	10.0	2.6			tr
			9604	1	10.0	12.9	2.9			tr
			9605		12.9	17.9	5.0			tr
			9606		17.9	22.6	4.7			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS 87A-26

SHEET NO. 2 of 11

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	Au oz/ton		
					FROM	TO	TOTAL				
4.0	114.6	Cont'd.									
		- 22.6' - 26.0' - mafic flow with siliceous, carbonaceous bands and coarser grained amphibole.	9607		22.6	26.0	3.4		tr		
		- 26.0' - 31.0' - as per above.	9608		26.0	31.0	5.0		tr		
		- 31.0' - 36.0' - mafic flow with medium grained green amphibole.	9609		31.0	36.0	5.0		tr		
		- 36.0' - 41.0' - mafic flow with siliceous, carbonaceous bands and coarser grained amphibole.	9610		36.0	41.0	5.0		tr		
		- 40.9' - 3/4" quartz - carbonate pod with amphibole clasts.									
		- 41.0' - 46.0' - mafic flow with intermittent 1/4" - 1/2" quartz - carbonate veinlets; concordant; medium grained amphibole fracture at 43° to core axis at 42.7'.	9611		41.0	46.0	5.0		tr		
		- 46.0' - 51.0' - mafic flow with several 1/4" quartz-carbonate veinlets; concordant; foliation at 46° to core axis at 47.1'.	9612		46.0	51.0	5.0		tr		
		- 51.0' - 56.0' - mafic flow with quartz-carbonate-epidote interflow bands and medium grained amphibole.	9613		51.0	56.0	5.0		tr		
		- 56.0' - 59.9' - as per above.	9614		56.0	59.9	3.9		tr		
		- 59.9' - 64.9' typical mafic flow.	9615		59.9	64.9	5.0		tr		
		- 64.9' - 66.0' - typical mafic flow.	9616		64.9	66.0	1.1		tr		
		- 65.5' - 65.7' - wispy, discordant 1/8" quartz-carbonate veinlets.									
		- 66.0' - 71.0' - typical mafic flow, fracture at 39° to core axis at 66.0'.	9617		66.0	71.0	5.0		tr		
		- 71.0' - 76.0' - typical mafic flow.	9618		71.0	76.0	5.0		tr		
		- 76.0' - 78.8' - typical mafic flow, foliation at 41° to core axis at 76.0'.	9619		76.0	78.8	2.8		tr		
		- 78.8' - 82.0' - typical mafic flow.	9620		78.8	82.0	3.2		tr		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-26 SHEET NO. 3 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		TOTAL
4.0	114.6	Cont'd.						
		- 82.0' - 86.0' - typical mafic flow.	9621		82.0	86.0	4.0	tr
		- 86.0' - 91.0' - typical mafic flow.	9622		86.0	91.0	5.0	tr
		- 91.0' - 94.5' - typical mafic flow.	9623		91.0	94.5	3.5	tr
		- 94.5' - 97.7' - mafic flow strongly foliated with biotite lenses; foliation at 40° to core axis at 95.0'.	9624		94.5	97.7	3.2	.006
		- 97.7' - 102.6' - typical mafic flow with several 1/4" to 1/2" quartz-carbonate-epidote veinlets at 39° to core axis; foliation at 37° to core axis at 98.6'.	9625		97.7	102.6	4.9	.004
		- 102.6' - 106.0' - typical mafic flow.	9626		102.6	106.0	3.4	.002
		- 106.0' - 111.0' - typical mafic flow.	9627		106.0	111.0	5.0	tr
		- 111.0' - 114.2' - typical mafic flow.	9628		111.0	114.2	3.2	tr
		- 113.8' - 114.2' - very fine grained; massive.						
114.6	119.2	<u>Felsic to Intermediate Tuff</u> - dark grey to brown to green; fine grained; strong to irregular banding; well foliated.	9629		114.2	116.3	2.1	tr
		Modal percent: Quartz] 50-55%	9630		116.3	119.2	2.9	tr
		Feldspar]						
		Amphibole 10-15%						
		Sericite 5-10%						
		Chlorite 5-10%						
		Biotite 3-5%						
		Carbonate 1-3%						
		Pyrite tr-1%						
		Pyrrhotite tr-1%						
		Interflow bands of quartz-carbonate-epidote occurring infrequently; pyrite and pyrrhotite occurring as disseminated grains or thin stringers parallel to foliation; foliation at 52° to core axis at 118.0'.						

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-26 SHEET NO. 4 of 11

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	S SULPH IDES	FOOTAGE			%	Au oz/ton			
					FROM	TO	TOTAL					
119.2	127.6	<p><u>Mafic Flow</u> - typical; foliation at 66° to core axis at</p> <p>- 119.2' - 123.0' - typical.</p> <p>- 123.0' - 126.6' - typical.</p> <p>- 126.0' - ½" quartz-carbonate vein.</p> <p>- 126.6' - 127.6' - mafic flow; slightly distorted; trace-1% pyrite occurring as disseminated grains or wispy irregular blebs and veinlets along more siliceous contacts.</p>	9631		119.2	123.0	3.8				tr	
			9632		123.0	126.6	3.6					tr
			9633	1	126.6	127.6	1.0					tr
127.6	238.6	<p><u>Felsic to Intermediate Tuff</u> - dark grey to brown to green, fine grained, strong to irregular banding; well foliated.</p> <p>Modal percent: Quartz] 45-50%</p> <p>Feldspar]</p> <p>Amphibole 10-15%</p> <p>Sericite 10-15%</p> <p>Chlorite 5-10%</p> <p>Carbonate 3-5%</p> <p>Biotite 3-5%</p> <p>Pyrite trace</p> <p>Magnetite trace</p> <p>Interflow bands of quartz-carbonate-epidote abundant, stretched to angular quartz lapilli abundant; pyrite occurring as disseminated grains or thin stringers parallel to foliation.</p> <p>- 127.6' - 130.0' - typical.</p> <p>- 130.0' - 135.0' - typical.</p> <p>- 133.3' - 133.5' - microfaulting with a minor breccia zone and a mylonite matrix; 1-2% pyrite in matrix.</p> <p>- 135.0' - 139.9' - typical.</p> <p>- 139.9' - 144.8' - typical, foliation at 49° to core axis at 144.0'.</p> <p>- 142.4' - 142.7' - brecciated zone with mylonite matrix, trace pyrite in matrix.</p> <p>- 142.9' - 143.3' - ½" concordant quartz veins.</p>	9634		127.6	130.0	2.4					tr
			9635	1-2	130.0	135.0	5.0					tr
			9636		135.0	139.9	4.9					tr
			9637	tr	139.9	144.8	4.9					tr

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-26

 SHEET NO. 5 of 11

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton				
					FROM	TO	TOTAL					
127.6	238.6	Cont'd.										
		- 144.8' - 149.0' - typical; foliation at 50° to core axis at 148.6'.	9638		144.8	149.0	4.2		.002			
		- 148.6' - 148.7' - 1% pyrite occurring as small blebs parallel to foliation.										
		- 149.0' - 154.0' - typical.	9639		149.0	154.0	5.0		tr			
		- 153.2' - 153.5' - quartz-carbonate-epidote veinlet.										
		- 154.0' - 158.8' - typical; foliation at 48° to core axis at 156.5', trace pyrite.	9640	tr	154.0	158.8	4.8		tr			
		- 158.8' - 163.0' - typical.	9641		158.8	163.0	4.2		tr			
		- 158.9' - 159.0' - quartz-carbonate vein with trace pyrite on contact; contact at 53° to core axis.										
		- 163.0' - 168.0' - typical; fracture at 24° to core axis at 165.4'.	9642		163.0	168.0	5.0		tr			
		- 168.0' - 173.0' - typical.	9643		168.0	173.0	5.0		tr			
		- 173.0' - 176.0' - typical; foliation at 48° to core axis at 175.0'.	9644		173.0	176.0	3.0		tr			
		- 176.0' - 181.0' - typical.	9645	tr	176.0	181.0	5.0		tr			
		- 178.6' - 179.0' - ½" and 2" quartz carbonate veins, trace pyrite on contact.										
		- 181.0' - 186.0' - typical.	9646	1-2	181.0	186.0	5.0		tr			
		- 182.2' - 182.8' - breccia zone with mylonite matrix.										
		- 183.1' - 183.4' - zone of quartz veining; pyrite occurring as disseminations or as small blebs on or near contact of quartz vein and tuff.										
		- 186.0' - 191.0' - typical.	9647	1	186.0	191.0	5.0		tr			
		- 190.6' - 1/16" band of pyrite on foliation plane.										
		- 191.0' - 196.0' - typical, foliation at 54° to core axis at 194.0'.	9648		191.0	196.0	5.0		tr			

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-26 SHEET NO. 6 of 11

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton				
					FROM	TO	TOTAL					
127.6	238.6	Cont'd.										
		- 193.2' - 193.3' - quartz-carbonate vein; concordant.										
		- 196.0' - 201.0' - typical tuff with trace-1% pyrite occurring as small blebs or crude stringers parallel to the foliation.	9649	1-5	196.0	201.0	5.0				tr	
		- 197.2' - 197.4' - 2-5% pyrrhotite/pyrite.										
		- 198.0' - 198.3' - epidote-feldspar alteration showing fracture displacement; 2% pyrrhotite occurring as blebs in a micro-brecciated quartz-carbonate zone.										
		- 199.1' - 199.5' - 2" quartz vein with 2 1/4" quartz-carbonate veinlets; quartz vein has 1-2% pyrrhotite/pyrite occurring as blebs.										
		- 201.0' - 206.0' - typical; 1% pyrrhotite/pyrite occurring as small blebs parallel to the foliation.	9650	1	201.0	206.0	5.0				tr	
		- 206.0' - 210.6' - typical.	9651		206.0	210.6	4.6				tr	
		- 210.6' - 215.0' - typical; foliation at 55° to core axis at 212.2'.	9652		210.6	215.0	4.4				tr	
		- 214.2' - 214.3' - fracture with quartz-carbonate-epidote alteration crosscutting foliation at 30° to core axis.										
		- 215.0' - 220.0' - minor microfaulting and brecciation with a mylonite matrix and quartz-carbonate-interflow bands.	9653		215.0	220.0	5.0				tr	
		- 220.0' - 223.0' - as per 215.0' - 220.0'.	9654		220.0	223.0	3.0				tr	
		- 223.0' - 228.0' - typical; 1% pyrite as small blebs parallel to foliation.	9655	1	223.0	228.0	5.0				tr	
		- 224.7' - 225.0' - quartz-carbonate vein; concordant; contact at 48° to core axis; 1% pyrite as disseminated blebs or patches.										
		- 228.0' - 233.0' - typical; foliation at 59° to core axis at 231.0'.	9656		228.0	233.0	5.0				tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-26

SHEET NO. 7 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	Au oz/ton
					FROM	TO		
127.6	238.6	Cont'd. - 232.6' - 233.0' - brecciation zone with mylonite matrix and sericitic-feldspar alteration. - 233.0' - 237.0' - typical. - 237.0' - 238.6' - typical.						
			9657		233.0	237.0	4.0	tr
			9658		237.0	238.6	1.6	tr
238.6	242.8	<u>Mafic Flow</u> - dark green to grey green; fine to medium grained; massive to weakly foliated, irregularly banded to no banding. Modal percent: Amphibole 50-55% Quartz] 25-30% Feldspar] Chlorite 5-10% Biotite 0-5% Carbonate tr-1% Pyrite trace Pyrrhotite trace Foliation at 46° to core axis at 239.5'; trace sulphide as disseminated grains. - 241.8' - 242.8' - zone of extensive quartz-carbonate-epidote irregular interflow banding.	9659		238.6	242.8	4.2	tr
242.8	251.0	<u>Felsic to Intermediate Tuff</u> - typical, foliation at 50° to core axis at 246.4'.	9660		242.8	247.0	4.2	tr
			9661		247.0	251.0	4.0	tr
251.0	252.0	<u>Mafic Flow</u> - typical as per 238.6' - 242.8', foliation at 51° to core axis at 251.5'.	9662		251.0	252.0	1.0	tr
252.0	255.8	<u>Felsic to Intermediate Tuff</u> - typical, trace-1% pyrite as disseminated grains or irregular stringers parallel to the foliation.	9663	1	252.0	255.8	3.8	tr
255.8	269.2	<u>Mafic Flow</u> - typical as per 238.6' - 242.8', trace pyrite as disseminated grains parallel to the foliation; foliation at 54° to core axis at 266.5', fracture at 8° to core axis at 259.5', carbonate-epidote on fracture surface.	9664	tr	255.8	260.1	4.3	tr
			9665	tr	260.1	265.0	4.9	tr
			9666	tr	265.0	269.2	4.2	tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-26

SHEET NO. 8 of 11

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton				
					FROM	TO	TOTAL					
269.2	297.4	Felsic to Intermediate Tuff - typical as per 127.6' - 238.6'; foliation at 52° to core axis at 274.0', fracture at 12° to core axis at 287.0'; trace pyrite on fracture surface.	9667	tr	269.2	274.0	4.8				tr	
			9668	tr	274.0	279.0	5.0					tr
			9669	tr	279.0	284.0	5.0					tr
			9670		284.0	288.3	4.3					tr
			9671		288.3	293.0	4.7					tr
			9672		293.0	297.4	4.4					tr
297.4	346.0		<p>Mafic Flow - dark green to grey green; foliated to massive; in frequent, irregular banding.</p> <p>Modal percent: Amphibole 50-55% Quartz] 20-25% Feldspar] Chlorite 10-15% Biotite 0-3% Carbonate tr-1% Magnetite tr-1% Pyrite trace Pyrrhotite trace</p> <p>Rock is slightly sheared to massive, quartz-carbonate-epidote interflow bands common throughout section; magnetite occurs as disseminated grains in magnetite rich zones; pyrite/pyrrhotite occur as disseminated grains or blebs parallel to the foliation.</p> <p>- 297.4' - 301.0' - typical; foliation at 55° to core axis at 300.5'. - 301.0' - 306.0' - typical. - 306.0' - 311.0' - typical. - 307.0' - 308.2' - small, wispy carbonate blebs. - 311.0' - 316.0' - typical; fracture at 8° to core axis at 312.0', carbonate-epidote on fracture surface. - 316.0' - 321.0' - typical. - 321.0' - 326.0' - typical. - 322.9' - 323.1' - quartz-carbonate-epidote veinlet.</p>									
		9673			297.4	301.0	3.6					tr
		9674			301.0	306.0	5.0					tr
		9675			306.0	311.0	5.0					tr
		9676			311.0	316.0	5.0					tr
		9677			316.0	321.0	5.0					tr
		9678			321.0	326.0	5.0					tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-26

SHEET NO. 9 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Au oz/ton		
					FROM	TO	TOTAL				
297.4	346.0	Cont'd.									
		- 325.1' - 325.4' - quartz-carbonate-epidote vein.									
		- 326.0' - 331.0' - medium grained mafic flow; 1% pyrite as disseminated grains or as wispy stringers on fracture surfaces.	9679	1	326.0	331.0	5.0		tr		
		- 330.5' - 330.6' - quartz-carbonate veinlet.									
		- 331.0' - 336.0' - medium grained flow; trace to 1% pyrite as disseminated grains or small blebs.	9680	tr-1	331.0	336.0	5.0		tr		
		- 333.0' - 333.6' - quartz-carbonate-epidote-tourmaline with trace to 1% pyrite occurring as blebs.									
		- 336.0' - 341.0' - typical, foliation at 60° to core axis at 340.0'.	9681		336.0	341.0	5.0		.004		
		- 341.0' - 346.0' - magnetite-rich zone occurring as disseminated grains; trace-1% pyrite occurring as disseminated grains or small blebs.	9682		341.0	346.0	5.0		tr		
346.0	382.1	<p><u>Sheared Iron Formation and Mafic Volcanics - black to grey to dark green; fine to medium grained; striped to mottled to banded.</u></p> <p>Modal percent: Quartz] 40-45%</p> <p>Feldspar]</p> <p>Amphibole 35-40%</p> <p>Garnet 3-5%</p> <p>Carbonate tr-5%</p> <p>Magnetite tr-3%</p> <p>Pyrite tr-1%</p> <p>Pyrrhotite tr-1%</p> <p>Magnetite occurring as disseminated grains in felsic bands or as wispy bands; garnets occurring in amphibole-rich bands as stretched or irregularly shaped poikiloblastic grains; pyrrhotite and pyrite occurring as disseminated wispy blebs, as cores or mantles in garnets; as blebs parallel to foliation; quartz-carbonate-epidote-pyrite bands common.</p>									

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-26

 SHEET NO. 10 of 11

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton				
					FROM	TO	TOTAL					
346.0	382.1	Cont'd.										
		- 346.0' - 349.3' - typical, foliation at 51° to core axis at 348.4'.	9683	tr	346.0	349.3	3.3			tr		
		- 349.3' - 354.0' - garnet poikiloblast-rich zone; trace-1% pyrite/pyrrhotite; several quartz-carbonate interflow bands.	9684	tr-1	349.3	354.0	4.7			.020		
		- 354.0' - 359.0' - as per 349.3' - 354.0'.	9685	tr-1	354.0	359.0	5.0			.012		
		- 359.0' - 363.0' - garnet poikiloblast-rich zone; 1% pyrite/pyrrhotite; several quartz-carbonate interflow bands.	9686	1	359.0	363.0	4.0			.168 .154	Check	
		- 363.0' - 366.0' - as per 359.0' - 363.0', 1% pyrite/pyrrhotite occurring as disseminated grains or wispy blebs parallel to foliation.	9687	1	363.0	366.0	3.0			.136 .130	Check	
		- 366.0' - 371.0' - typical; foliation at 46° to core axis at 368.8'.	9688	1-2	366.0	371.0	5.0			.130 .126	Check	
		- 370.0' - 371.0' - 1-2% pyrite/pyrrhotite.										
		- 371.0' - 376.0' - typical; garnet poikiloblast-rich.	9689	tr-1	371.0	376.0	5.0			tr		
		- 376.0' - 381.0' - typical; garnet-poikiloblast-rich.	9690	tr-1	376.0	381.0	5.0			.016		
		- 381.0' - 382.1' - typical, garnet-poikiloblast-rich.	9691	tr	381.0	382.1	1.1			.012		
382.1	395.8	Sheared Mafic Volcanics - as per 346.0' - 382.1', trace magnetite, disseminated, trace-1% pyrite/pyrrhotite; limonite-hematite staining on fracture surfaces.										
		- 382.1' - 387.0' - typical; fracture at 34° to core axis at 383.5'; with 2" quartz-carbonate-epidote vein.	9692		382.1	387.0	4.9			.100 .098	Check	
		- 384.7' - 1/16" blebs or arsenopyrite parallel to the foliation.										
		- 387.0' - 392.0' - typical.	9693		387.0	392.0	5.0			tr		
		- 392.0' - 395.8' - garnet poikiloblast rich; foliation at 43° to core axis at 392.8'.	9694		392.0	395.8	3.8			tr		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-26 SHEET NO. 11 of 11

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton				
					FROM	TO	TOTAL					
395.8	415.0	<p><u>Mafic Flow</u> - dark green to grey-green, fine to medium grained; massive to poorly foliated.</p> <p>Modal percent: Amphibole 45-50% Chlorite 10-15% Quartz] 30-35% Feldspar] Carbonate tr-1% Hematite tr-1% Pyrite trace Pyrrhotite trace</p> <p>Trace pyrite/pyrrhotite occurring as disseminated grains or blebs parallel to the foliation; minor hematite staining on fracture surface common.</p> <p>- 395.8' - 400.0' - typical. - 397.7' - 397.9' - sericitic and potassic alteration; minor hematite staining.</p> <p>- 400.0' - 405.0' - typical; fracture at 22° to core axis at 400.0'.</p> <p>- 405.0' - 410.0' - typical.</p> <p>- 410.0' - 415.0' - typical.</p>										
			9695		395.8	400.0	4.2				tr	
			9696		400.0	405.0	5.0				tr	
			9697		405.0	410.0	5.0				.002	
			9698		410.0	415.0	5.0				tr	
415.0		E.O.H.										

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-27 LENGTH 667.0'
 LOCATION 20+00W, 16+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -60°
 STARTED October 1/87 FINISHED October 3/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-60.0				
200.0	-59.0				
400.0	-50.5				
650.0	-44.5				

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

REMARKS PA786808

SUMMARY LOG

LOGGED BY B.E. Elliott

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON
					FROM	TO				
0.0	8.6	CASING.								
8.6	21.8	FELSIC TO INTERMEDIATE TUFF.								
21.8	22.4	MYLONITE.								
22.4	81.8	FELSIC TO INTERMEDIATE TUFF.								
81.8	95.8	MYLONITE.								
95.8	121.0	FELSIC TO INTERMEDIATE TUFF.								
121.0	212.8	MAFIC FLOWS.								
212.8	236.0	FELSIC TO INTERMEDIATE TUFF.								
236.0	296.8	MAFIC FLOWS.								
296.8	384.0	INTERMEDIATE TO MAFIC TUFF.								
384.0	422.9	SHEARED INTERMEDIATE TO MAFIC TUFF.								
422.9	489.6	INTERMEDIATE TO MAFIC TUFF.								
489.6	549.6	MAFIC FLOWS.								
549.6	560.1	GARNETIFEROUS MAFIC VOLCANIC.								
560.1	573.6	SHEARED MAFIC FLOWS.								
573.6	607.1	MAFIC FLOWS.								
607.1	625.3	SHEARED IRON FORMATION AND MAFIC VOLCANIC.	9808		618.6	621.6	3.0			.028
			9809		621.6	625.3	3.7			.042
625.3	638.0	MAFIC VOLCANIC.								
638.0	639.2	FELSIC INTRUSIVE.								
639.2	642.8	MAFIC INTRUSION.								
642.8	667.0	MAFIC FLOWS.								
667.0		E.O.II.								

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-27 LENGTH 667.0'
 LOCATION 20+00W, 16+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -60°
 STARTED October 1/87 FINISHED October 3/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-60.0				
200.0	-59.0				
400.0	-50.5				
650.0	-44.5				

HOLE NO. KAS-87A-27 SHEET NO. 1 of 8

REMARKS PA786808

LOGGED BY B.E. Elliott

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	8.6	Casing.									
8.6	21.8	Felsic to Intermediate Tuff - dark grey to dark green to black, fine grained, laminated to banded. Modal percent: Quartz 45-50% Sericite 25-30% Chlorite 10-15% Amphibole 3-5% Pyrite tr-1% Carbonate tr-2% Texture - rare quartz eyes, frequently segregated sericite, quartz chlorite and amphibole bands; foliated 30° to core axis at 16.0'; few to several quartz-carbonate-chlorite-epidote veinlets and fracture fillings, few quartz veinlets up to 1.0" with minor carbonate-trace pyrite-trace hematite.	9701		8.6	13.6	5.0			tr	
			9702		13.6	18.6	5.0			tr	
			9703		18.6	21.4	2.8			tr	
21.8	22.4	Mylonite - medium grey, fine grained, schistose. Modal percent: Quartz 60-65% Sericite 25-35% Pyrite tr-1% Chlorite trace Carbonate trace Texture - highly fractured with quartz-epidote infilling; trace-1% disseminated pyrite.	9704		21.4	22.8	1.4			.002	
22.4	81.8	Felsic to Intermediate Tuff - typical as per 8.6' - 21.8' - 57.2' - 58.9' - several 1" quartz-carbonate-chlorite veinlets; concordant to subconcordant (30° to 40° to core axis); trace-1% disseminated	9705		22.8	27.8	5.0			tr	
			9706		40.0	45.0	5.0			tr	
			9707		52.2	57.2	5.0			tr	
			9708		57.2	58.9	1.7			tr	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-27

 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		TOTAL
22.4	81.8	Cont'd. pyrite in quartz veins.	9709		58.9	63.9	5.0	tr
			9710		63.9	68.9	5.0	tr
		- 76.0' - 76.6' - silicified, carbonatized, chloritized, potassically altered; trace to 0.5% pyrite.	9711		76.0	77.0	1.0	tr
81.8	95.8	<u>Mylonite</u> - light grey to pink, very fine grained, finely laminated	9712		81.8	86.8	5.0	tr
		Modal percent: Quartz 55-60%	9713		86.8	91.8	5.0	tr
		Feldspar 20-25%	9714		91.8	95.8	4.0	tr
		Sericite 10-15%						
		Carbonate 5%						
		Pyrite trace						
		Hematite trace						
		Texture - finely laminated, very fine quartz crystals; 5% carbonate throughout; trace disseminated pyrite; few concordant quartz veinlets.						
95.8	121.0	<u>Felsic to Intermediate Tuff</u> - typical as per 8.6' - 21.8'. - 101.2' - 102.3' - felsic tuff; typical.	9715		101.0	102.5	1.5	tr
			9716		109.5	114.5	5.0	tr
		- 114.6' - 115.3' - sheared; 25 to 30% carbonate; 5% magnetite as fine grains and clots; 5% pyrite as disseminations and wisps; chloritized.	9717		114.5	117.5	3.0	tr
		- 116.0' - 117.1' - sheared; 10-15% carbonate; chloritized; 10-15% magnetite; 5-10% pyrite.						
		- 117.1' - 121.0' - typical; minor fracturing with quartz-carbonate.	9718		117.5	121.0	3.5	tr
121.0	212.8	<u>Mafic Flows</u> - medium to dark green to grey, fine to medium grained, weakly foliated, striped to crudely banded, possibly sheared. Modal percent: Quartz] Feldspar] 45-50% Amphibole 40-45% Carbonate tr-2%						

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-27

SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
				FROM	TO	TOTAL		
121.0	212.8	Cont'd.						
		Magnetite	tr-2%					
		Pyrite	tr-1%					
		Pyrrhotite	tr-1%					
		Texture - striped to crudely banded with green amphibole-rich bands and grey quartz-feldspar-rich bands. Locally numerous quartz-carbonate-sulphide; veinlets generally concordant to sub-concordant; trace-1% disseminated pyrite and/or pyrrhotite; locally minor magnetite; locally carbonatized and/or chloritized; foliated at 45° to core axis at 137.0'.						
		- 121.0' - 151.1' - typical; trace disseminated pyrite; locally trace magnetite and carbonate; foliated 45° to core axis at 150.0'.	9719		126.0	131.0	5.0	tr
			9720		131.0	136.0	5.0	tr
		- 151.1' - 161.7' - typical but with 1-3% magnetite; foliated 30° to core axis at 171.0'; rare 1" quartz veinlets, discordant.	9721		151.0	156.0	5.0	tr
			9722		156.0	161.0	5.0	tr
		- 161.7' - 163.5' - sheared; 0.5% pyrite; foliation 20° to core axis.	9723		161.0	163.5	2.5	tr
		- 162.8' - 163.0' - quartz vein with trace pyrite along contacts; trace carbonate.						
		- 163.5' - 212.8' - typical; trace-2% magnetite; trace-1% pyrite disseminations; very rare garnets; few quartz-carbonate veinlets.	9724		163.5	168.5	5.0	tr
			9725		168.5	173.5	5.0	tr
			9726		173.5	178.0	4.5	tr
		- 178.0' - 179.0' - several irregular quartz veins with 2% disseminated pyrite in wallrock, trace <u>chalcopyrite</u> .	9727		178.0	179.0	1.0	tr
			9728		179.0	184.0	5.0	tr
			9729		184.0	189.0	5.0	tr
			9730		189.0	194.0	5.0	tr
		- 196.0' - 200.0' - up to 5% biotite.	9731		194.0	199.0	5.0	tr
		- 196.0' - 212.8' - medium grained amphibole phenocrysts.						
212.8	236.0	Felsic to Intermediate Tuff - as per 8.6' - 21.8'; numerous quartz-carbonate-chlorite interbands or veinlets; concordant to subconcordant; locally 2-3% biotite; foliation 45° to core axis at 231.0'; trace sulphide as disseminations and associated with veining.	9732		212.8	217.8	5.0	tr
			9733		217.8	222.8	5.0	tr
			9734		222.8	227.8	5.0	tr
			9735		227.8	230.1	2.3	tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-27

SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton					
					FROM	TO				TOTAL		
236.0	296.8	<p>Mafic Flows - medium to dark green-grey, fine grained, massive to weakly foliated.</p> <p>Modal percent: Amphibole] 55-60%</p> <p>Chlorite]</p> <p>Plagioclase] 40-45%</p> <p>Quartz]</p> <p>Pyrite trace</p> <p>Carbonate trace</p> <p>Texture - rare quartz-carbonate-chlorite-epidote-sulphide veinlets locally chloritized; few carbonate-epidote interbands (less than 1").</p> <p>- 236.0' - 268.7' - typical.</p> <p>- 268.7' - 296.8' - variably carbonatized, silicified with numerous quartz-carbonate filled fractures and carbonate-epidote filled fractures with epidote haloes; trace sulphide; locally minor biotite; locally up to 3% pyrite as disseminations associated with wispy carbonate.</p>	9736		236.0	241.0	5.0			tr		
			9737		268.7	271.2	2.5			tr		
			9738		271.2	276.2	5.0			tr		
			9739		276.2	281.2	5.0			tr		
			9740		281.2	286.2	5.0			tr		
			9741		286.2	291.2	5.0			tr		
			9742		291.2	295.2	4.0			.002		
			9743		295.2	296.8	1.6			tr		
296.8	384.0	<p>Intermediate to Mafic Tuff - medium green to grey to brown, fine grained, well-foliated, laminated.</p> <p>Modal percent: Amphibole 30-35%</p> <p>Quartz] 40-45%</p> <p>Plagioclase]</p> <p>Biotite 5-10%</p> <p>Carbonate 5-10%</p> <p>Sericite 3-5%</p> <p>Chlorite 3-5%</p> <p>Pyrite trace</p> <p>Texture - variably banded and laminated; abundant quartz-feldspar-carbonate eyes; variable potassic alteration giving a green-orange tinge; variable fracturing with a greenish quartz-carbonate infilling; pyrite as disseminations and wisps; numerous quartz-carbonate veinlets generally less than 1.0" and concordant to subconcordant; foliated 45° to core axis at 315.0' and 45° at 357.0'.</p>										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-27

SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton						
					FROM	TO	TOTAL							
296.8	384.0	Cont'd. - 322.5' - 323.6' - highly brecciated with green quartz-carbonate infilling; minor pyrite.	9749		321.8	324.0	2.2				tr			
			9750		324.0	329.0	5.0				tr			
			9751		329.0	334.0	5.0				tr			
			9752		334.0	339.0	5.0				tr			
			9753		339.0	344.0	5.0				tr			
			9754		344.0	349.0	5.0				tr			
			9755		349.0	354.0	5.0				tr			
			9756		354.0	359.0	5.0				tr			
			9757		359.0	364.0	5.0				tr			
			9758		364.0	369.0	5.0				tr			
			9759		369.0	374.0	5.0				tr			
			9760		374.0	379.0	5.0				tr			
			9761		379.0	384.0	5.0				tr			
384.0	422.9	Sheared Intermediate to mafic Tuff - medium green to grey to brown, fine grained, banded and laminated to massive; numerous irregular quartz-carbonate veinlets and fracture fillings often with pale green potassic alteration haloes; variably carbonatized; 1-3% pyrite as disseminations, blebs and stringers and along contacts of quartz veinlets; numerous irregular hairline fractures with pale green carbonate, epidote, quartz infilling.	9762		384.0	389.0	5.0					tr		
			9763		389.0	394.0	5.0					tr		
			9764		394.0	399.0	5.0					tr		
			9765		399.0	404.0	5.0					tr		
			9766		404.0	409.0	5.0					tr		
			9767		409.0	414.0	5.0					.002		
			9768		414.0	419.0	5.0					.002		
			9769		419.0	422.9	3.9					tr		
422.9	489.6	Intermediate to Mafic Tuff - medium grey to green to brown, fine grained, banded to poorly banded. Modal percent: Amphibole 40-45% Quartz 40-45% Plagioclase] Biotite 3-5% Sericitic 2-3% Pyrite 1-2% Magnetite tr-1% Carbonate trace	9770		430.8	435.8	5.0					tr		
			9771		435.8	440.8	5.0					.002		
			9772		449.0	454.0	5.0					tr		
			9773		454.0	459.0	5.0					tr		
			9774		459.0	464.0	5.0					tr		
			9775		464.0	469.0	5.0					tr		
			9776		469.0	474.0	5.0					tr		
			9777		474.0	479.0	5.0					tr		
			9778		479.0	484.0	5.0					tr		
			9779		484.0	489.6	5.6					tr		
		Texture - crudely banded, locally few quartz-plagioclase eyes, locally amphibole-rich; few to several quartz-carbonate veinlets; pyrite as disseminations and wisps; banding 45° to core axis at 439.0'												

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-27

 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS	
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		
489.6	549.6	Mafic Flows - dark green-grey; fine to coarse-grained, massive to weakly foliated to crudely banded. Modal percent: Amphibole 35-40% Plagioclase] 35-40% Quartz Chlorite 15-20% Pyrite tr-1% Carbonate trace - 489.6' - 498.9' - fine grained, massive; trace-0.5% disseminated pyrite; few quartz-carbonate veinlets with trace pyrite; irregular to 30° to 40° to core axis. - 498.9' - 514.8' - sheared? medium to coarse grained; amphibolitic; few quartz-carbonate veinlets; striped to mottled. - 507.2' - 507.6' - chloritic shear with 3% pyrite as blebs and wisps. - 508.7' - 509.0' - quartz veinlets with 5% pyrite wisps and blebs. - 514.8' - 549.6' - as per 498.9' - 513.8' but with trace-2% magnetite as disseminated grains; trace-0.5% disseminated, pyrite. - 515.2' - 515.8' - 2% disseminated pyrite.	9780	489.6	494.6	5.0	tr	
			9781	494.6	498.9	4.3	tr	
			9782	506.9	509.3	2.4	tr	
			9783	514.8	516.0	1.2	tr	
			9784	516.0	521.0	5.0	tr	
			9785	521.0	524.0	5.0	tr	
			9786	526.0	531.0	5.0	tr	
			9787	531.0	536.0	5.0	tr	
			9788	536.0	541.0	5.0	tr	
			9789	541.0	546.0	5.0	tr	
			9790	546.0	549.6	3.6	tr	
549.6	560.1	Garnetiferous Mafic Volcanic - dark grey to green, fine grained, striped to mottled, poikiloblastic. Modal percent: Quartz 40-45% Feldspar] Amphibole 30-35% Garnet tr-5% Magnetite 1-3% Pyrite tr-1% Pyrrhotite trace	9791	549.6	552.6	3.0	.006	
			9792	552.6	556.6	4.0	tr	
			9793	556.6	560.1	3.5	tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-27

SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton
					FROM	TO	TOTAL	
549.6	560.1	Cont'd. Texture - magnetite as fine grained disseminations; garnets less than 1/32"; sulphides as disseminations and associated with few narrow quartz-carbonate veinlets.						
560.1	573.6	Sheared Mafic Flow - as per 514.8' - 549.6'; very rare garnet; trace-0.5% disseminated sulphide.	9794		560.1	565.1	5.0	tr
			9795		565.1	570.1	5.0	tr
			9796		570.1	573.6	3.5	.002
573.6	607.1	Mafic Flow - as per 498.9' - 514.8'; trace-1% disseminated pyrite; few quartz-carbonate veinlets.	9797		573.6	578.6	5.0	tr
			9798		578.6	583.6	5.0	tr
			9799		583.6	588.6	5.0	.002
			9800		588.6	593.6	5.0	tr
		- 593.6' - 607.1' - up to 2% disseminated pyrite and pyrrhotite and rare blebs and stringers; trace to 1% magnetite.	9801		593.6	598.6	5.0	tr
			9802		598.6	603.6	5.0	tr
			9803		603.6	607.1	3.5	.002
607.1	625.3	Sheared Iron Formation and Mafic Volcanic - green to black to grey, fine grained, striped to mottled to banded. Modal percent: Quartz] 40-45% Feldspar] Amphibole 30-35% Garnet tr-5% Magnetite 0.5-2% Pyrite tr-2% Pyrrhotite tr-2% Carbonate trace						
		Texture - magnetite as disseminated grains in felsic bands or as wispy bands, garnets in amphibole-rich bands as stretched poikiloblastic grains; pyrrhotite as disseminations and wisps in and around garnets and associated with numerous quartz-carbonate veinlets; foliation at 60° to core axis at 609.0'.	9804		607.1	608.4	1.3	.008
		- 607.2' - 607.3' - 10% pyrrhotite with 2% pyrite associated with irregular quartz-carbonate veining.	9805		608.4	612.2	3.8	.006
			9806		612.2	616.8	4.6	tr
			9807		616.8	618.6	1.8	tr
			9808		618.6	621.6	3.0	.028
			9809		621.6	625.3	3.7	.042

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-27

SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/t.0		
					FROM	TO			
607.1	625.3	Cont'd. - 607.3' - 612.2' - up to 4% pyrrhotite and pyrite.							
625.3	638.0	<u>Mafic Volcanic</u> - dark green, fine grained, massive; typical mineralogy; rare quartz-carbonate stringers; locally trace magnetite; trace-0.5% disseminated pyrite.	9810		625.3	630.3	5.0		tr
638.0	639.2	<u>Felsic Intrusion</u> - white to pink, flecked with black, coarse grained, massive, pegmatitic. Modal percent: Quartz 45-50% Feldspar 45-50% Muscovite 5% Carbonate trace Texture - contacts 30° to core axis.	9811		638.0	639.2	1.2		tr
639.2	642.8	<u>Mafic Intrusion</u> - medium grey to green, medium grained, massive. Modal percent: Amphibole] 45-50% Chlorite] Quartz] 45% Feldspar] Magnetite 5% Texture - medium grained disseminated magnetite; lower contact 45° to core axis.	9812		639.2	642.8	3.6		tr
642.8	667.0	<u>Mafic Flows</u> - dark green, fine grained, massive and weakly foliated, typical mineralogy; trace magnetite; trace sulphide. - 642.8' - 646.0' - typical. - 646.0' - 646.2' - felsic intrusive as per 638.0' - 639.8'. - 646.0' - 667.0' - typical.	9813 9814 9815 9816		642.8 646.0 647.0 662.0	646.0 647.0 652.0 667.0	3.2 1.0 5.0 5.0		tr tr tr tr
667.0		E.O.H.							

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-28 LENGTH 606.0'
 LOCATION 19+00W, 16+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -60°
 STARTED October 4/87 FINISHED October 6/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-60.0				
200.0	-52.8				
400.0	-40.7				
606.0	-37.3				

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

REMARKS PA786808

SUMMARY LOG

LOGGED BY B.E. Elliott

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPH- IDES	FOOTAGE FROM TO TOTAL	%	%	AU OZ/TON	OZ/TON
0.0	7.0	CASING.							
7.0	79.2	FELSIC TO INTERMEDIATE TUFF.							
79.2	97.4	MYLONITE.							
97.4	102.8	FELSIC TO INTERMEDIATE TUFF.							
102.8	106.6	MYLONITE.							
106.6	127.1	FELSIC TO INTERMEDIATE TUFF.							
127.1	259.0	MAFIC FLOWS.							
259.0	265.4	FELSIC TO INTERMEDIATE TUFF.							
265.4	283.4	MAFIC FLOWS.							
283.4	286.0	SILTSTONE.							
286.0	401.7	FELSIC TO INTERMEDIATE TUFF.							
401.7	419.6	MAFIC FLOWS.							
419.6	446.5	FELSIC TO INTERMEDIATE TUFF.							
446.5	519.7	MAFIC FLOWS.							
519.7	560.9	SHEARED IRON FORMATION AND MAFIC VOLCANIC.	1301		539.6	544.6	5.0		.028
			1302		544.6	548.3	3.7		.024
			1303		548.3	549.7	1.4		.341
			1304		549.7	553.0	3.3		.010
560.9	562.5	MAFIC INTRUSIVE.							
562.5	606.0	MAFIC FLOWS.							
	606.0	E.O.H.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-28 LENGTH 606.0'
 LOCATION 19+00W, 16+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -60°
 STARTED October 4/87 FINISHED October 6/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-60.0				
200.0	-52.8				
400.0	-40.7				
606.0	-37.3				

HOLE NO. KAS-87A-28 SHEET NO. 1 of 7

REMARKS PA786808

LOGGED BY B.E. Elliott

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	7.0	Casing.									
7.0	79.2	Felsic to Intermediate Tuff - medium grey to green to black, fine grained, laminated to banded. Modal percent: Quartz 50-55% Feldspar] Sericite 10-15% Amphibole 10-15% Chlorite 5-10% Biotite 3-5% Carbonate trace Pyrite trace Texture - rare quartz eyes; frequently segregated sericite, quartz chlorite and amphibole bands; foliated 30° to core axis at 16.0' and 40° to core axis at 61.0'; few to several quartz-carbonate - chlorite - epidote veinlets and fracture fillings, often severely fractured and brecciated with pale green quartz-feldspar-epidote infillings. - 12.1' - 14.0' - brecciated with quartz-feldspar-epidote infillings. - 35.5' - 37.6' - quartz veining. - 40.2' - 44.9' - variably brecciated as per 12.1' - 14.0'. - 44.9' - 49.2' - light grey; more felsic. - 56.0' - 57.9' - several irregular quartz veins with minor chlorite, trace carbonate; minor pyrite in haloes. - 69.7' - 70.7' - few quartz veinlets with minor pyrite.									
			9817		12.1	14.1	2.0			tr	
			9818		35.5	37.6	2.1			tr	
			9819		40.2	44.9	4.7			tr	
			9820		44.9	49.2	4.3			tr	
			9821		51.3	53.9	2.6			tr	
			9822		55.6	57.9	2.3			tr	
			9823		69.7	70.7	1.0			.002	
			9824		74.2	79.2	5.0			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-28

SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO	% SULPHIDES	FOOTAGE			Au oz/ton					
					FROM	TO	TOTAL						
79.2	97.4	Mylonite - pink to grey, fine grained, laminated to banded. Modal percent: Quartz 50-55% Sericite 35-40% Epidote 5% Carbonate trace Texture - few quartz-carbonate veins, foliation; foliation 45° to core axis at 90.0'; laminations locally contorted.	9825		79.2	84.2	5.0				.002		
			9826		84.2	89.2	5.0				.002		
			9827		89.2	94.2	5.0				.002		
			9828		94.2	97.4	3.2				tr		
97.4	102.8	Felsic to Intermediate Tuff - typical as per 7.0' - 79.2'.	9829		97.4	100.4	3.0				tr		
			9830		100.4	102.8	2.4				tr		
102.8	106.6	Mylonite? - as per 79.2' - 97.4'.	9831		102.8	106.6	3.8				.004		
106.6	127.1	Felsic to Intermediate Tuff - typical as per 7.0' - 79.2'; foliation 40° to core axis at 112.0'. - 113.7' - 119.0' - variable fractured with pale green quartz-feldspar-epidote infilling; several quartz veinlets-carbonate; 2% disseminated pyrite. - 117.3' - 117.9' - 3-4% pyrite with quartz-carbonate chlorite veinlets. - 120.8' - 121.3' - quartz veins with minor pyrite in haloes. - 121.3' - 127.1' - trace-0.5% pyrite as disseminations.	9832		113.7	116.0	2.3				tr		
			9833		116.0	117.0	1.0				tr		
			9834		117.0	118.0	1.0				.002		
			9835		118.0	119.0	1.0				tr		
			9836		120.5	121.5	1.0				tr		
			9837		121.5	125.5	4.0				tr		
			9838		125.5	127.1	1.6				tr		
127.1	259.0	Mafic Flows - medium to dark green to grey, fine to medium grained, weakly foliated, striped to crudely banded, variably sheared. Modal percent: Quartz] 40-45% Feldspar] Amphibole] Chlorite] 45-50% Magnetite tr-2% Carbonate tr-1% Pyrite tr-1% Pyrrhotite tr-1%											

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-28

 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton					
					FROM	TO	TOTAL						
127.1	259.0	Cont'd. Texture - striped to crudely banded to massive; green amphibole-rich bands and grey quartz-feldspar-rich bands; variable from very fine grained to medium grained (amphibolite); locally numerous quartz-carbonate veinlets - sulphide; veinlets generally concordant to subconcordant. Trace-1% disseminated pyrite and/or pyrrhotite; locally minor magnetite; locally carbonatized and/or chloritized; foliated 30° to core axis at 131.0'.											
		- 127.1' - 132.7' - several quartz-carbonate veinlets with trace-1% pyrite-pyrrhotite in haloes and trace <u>chalcopyrite</u> ; trace-1% magnetite.	9839		127.1	129.8	2.7				tr		
			9840		129.8	132.7	2.9				.002		
		- 132.7' - 144.0' - medium grained, amphibolitic; 2% magnetite.	9841		132.7	137.7	5.0				tr		
		- 144.0' - 198.6' - typical.											
		- 145.4' - 149.9' - up to 3% pyrite associated with quartz-carbonate veining.	9842		145.4	149.9	4.5				.010		
		- 149.9' - 159.6' - up to 2% pyrite disseminations; minor carbonate.	9843		149.9	154.9	5.0				.002		
			9844		154.9	159.6	4.7				.002		
		- 159.6' - 161.2' - quartz-carbonate veining; carbonatization; 3% pyrite in and around veinlets.	9845		159.6	161.2	1.8				tr		
		- 162.3' - 162.5' - quartz vein with 5% pyrrhotite in fractures with lesser sulphide in haloes.	9846		161.2	162.5	1.3				tr		
			9847		162.5	167.5	5.0				tr		
			9848		167.5	172.5	5.0				tr		
			9849		172.5	177.5	5.0				tr		
			1500		177.5	180.0	5.0						
			9850		180.0	185.0	5.0				tr		
			9851		194.0	198.6	4.6				tr		
		- 198.6' - 259.0' - atypical; no magnetite; very fine grained, massive, no banding or mottled appearance; locally phlogopite.	9852		198.6	203.6	5.0				.002		
			9853		203.6	208.6	5.0				tr		
			9854		208.6	212.9	4.3				tr		
		- 198.6' - 212.9' - numerous quartz-carbonate veinlets; locally brecciated with pale green to orange potassic alteration; trace-0.5% pyrite.	9855		216.0	218.6	2.6				tr		
			9856		222.1	226.0	3.9				tr		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-28

SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au	oz/ton		
					FROM	TO	TOTAL				
127.1	259.0	Cont'd. - 237.6' - 237.9' - 3% pyrrhotite blebs.	9857		237.2	238.2	1.0		tr		
			9858		238.2	243.2	5.0		.014		
			9859		243.2	248.2	5.0		tr		
259.0	265.4	Felsic to Intermediate Tuff - medium green to grey to black, fine grained, laminated, typical as per 7.0' - 79.2' but poorly banded.	9860		259.0	261.0	2.0		tr		
265.4	283.4	Mafic Flows - typical but becoming tuffaceous near base of section; 5% phlogopite; trace magnetite; several quartz-carbonate veinlets; foliated 60° to core axis at 281.0'.	9861		265.4	270.4	5.0		.016		
			9862		270.4	275.4	5.0		tr		
			9863		275.4	280.4	5.0		tr		
			9864		280.4	283.4	3.0		tr		
283.4	286.0	Siltstone - purplish grey to brown, fine grained, finely laminated Modal percent: Quartz 55-60% Sericitic 30-35% Biotite 5% Carbonate trace Pyrite trace Texture - numerous wispy quartz-carbonate veinlets; laminations 60° to core axis.	9865		283.4	286.0	2.6		tr		
286.0	401.7	Felsic to Intermediate Tuff - typical as per 7.0' - 79.2'; well laminated and banded; numerous fine quartz-carbonate eyes; well segregated mineralogy; foliation 60° to core axis at 296.0' and 60° at 330.0'; rare quartz-carbonate veinlets or interbands (concordant). - 286.0' - 327.7' - typical. - 327.7' - 329.5' - atypical; few quartz-carbonate veinlets; trace-0.5% pyrite. - 329.5' - 336.9' - typical. - 336.9' - 340.7' - atypical; few quartz-carbonate veinlets; trace-0.5% pyrite. - 340.7' - 346.0' - typical.	9866		303.0	308.0	5.0		tr		
			9867		315.0	320.0	5.0		tr		
			9868		327.7	329.5	1.8		tr		
			9869		336.9	340.7	3.8		tr		

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-28

 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton		
					FROM	TO			
286.0	401.7	Cont'd.							
		- 346.0' - 356.0' - atypical; locally up to 1% disseminated pyrite.	9870		346.0	351.0	5.0		tr
			9871		351.0	356.0	5.0		.002
		- 356.0' - 367.8' - typical.	9872		364.9	367.8	2.9		tr
		- 367.8' - 389.4' - atypical - variably brecciated fractured, irregular quartz veining; variable potassic alteration and hematite staining; generally trace-1% pyrite.	9873		367.8	372.8	5.0		tr
			9874		372.8	375.4	2.6		tr
		- 375.4' - 377.2' - quartz veining with 5% pyrite.	9875		375.4	377.2	1.8		tr
			9876		377.2	382.2	5.0		tr
			9877		382.2	384.3	2.1		tr
		- 384.3' - 386.0' - loss of core.	9878		386.0	389.4	3.4		tr
		- 389.4' - 401.7' - locally hematite staining; up to 1% disseminated pyrite.	9879		389.4	394.4	5.0		.002
			9880		394.4	399.4	5.0		tr
			9881		399.4	401.7	2.3		tr
401.7	419.6	Mafic Flow - dark green, fine grained, massive, typical mineralogy no magnetite; few quartz-carbonate veinlets; locally hematite staining; trace pyrite.	9882		405.3	408.1	2.8		tr
			9883		413.7	418.7	5.0		tr
419.6	446.5	Felsic to Intermediate Tuff - typical but more felsic composition; few quartz-carbonate veinlets; trace disseminated pyrite.	9884		434.6	439.6	5.0		tr
446.5	519.7	Mafic Flows - typical as per 127.1' - 259.0'; typical mineralogy with textural variations.							
		- 446.5' - 467.5' - fine grained; variably striped to mottled; trace magnetite; trace disseminated pyrite	9885		451.7	456.7	5.0		tr
		few quartz-carbonate veinlets; local potassic alteration.	9886		456.7	461.7	5.0		tr
		- 467.5' - 483.8' - fine to medium grained; striped to mottled; trace-2% magnetite; trace-0.5% disseminated pyrite; rare quartz-carbonate veinlets.	9887		476.0	481.0	5.0		tr
			9888		481.0	483.8	2.8		tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGAMINNIS LAKE

HOLE NO. KAS-87A-28

SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton				
					FROM	TO	TOTAL					
446.5	519.7	Cont'd. - 483.8' - 519.7' - 3-5% very fine poikiloblastic garnets; 1-3% magnetite; very rare quartz vein with trace carbonate. - 513.2' - 514.6' - 3% pyrite, 1% pyrrho- tite associated with quartz veins and 1/4" poikiloblasts garnets.	9889		483.8	488.8	5.0				tr	
			9890		488.8	493.8	5.0				tr	
			9891		493.8	498.8	5.0				tr	
			9892		498.8	503.8	5.0				tr	
			9893		503.8	508.8	5.0				tr	
			9894		508.8	513.2	4.4				tr	
			9895		513.2	514.6	1.4				tr	
			9896		514.6	519.6	5.0				tr	
519.7	560.9	Sheared Iron Formation and Mafic Volcanic - green to grey to black, fine grained, striped to mottled to banded. Modal percent: Quartz] 40-45% Feldspar] Amphibole 30-35% Garnet tr-5% Magnetite 0.5-3% Pyrite tr-2% Pyrrhotite tr-2% Carbonate tr-1% Texture - magnetite in disseminated grains in felsic bands or as wispy bands; garnets in amphibole-rich bands as deformed poikilo- blasts; pyrite and pyrrhotite as disseminations and wisps in and around garnets and associated with several quartz-carbonate vein- lets; foliation at 55° to core axis at 521.0' and 55° to core axis at 551.0'. - 548.3' - 549.7' - 3-4% pyrite and pyrrhotite. - 553.3' - 554.1' - quartz vein; white; trace sulphide. - 559.0' - 559.2' - quartz vein with 3% pyrrhotite in haloes.	9897		519.6	524.6	5.0					tr
			9898		524.6	529.6	5.0					tr
			9899		529.6	534.6	5.0					tr
			9900		534.6	539.6	5.0					tr
			1301		539.6	544.6	5.0					.028
			1302		544.6	548.3	3.7					.024
			1303		548.3	549.7	1.4					.341
			1304		549.7	553.0	3.3					.010
			1305		553.0	554.1	1.1					
			1306		554.1	558.1	4.0					.002
			1307		558.1	559.1	1.0					tr
			1308		559.1	560.9	1.8					tr
560.9	562.5	Mafic Intrusion? - medium grey to green, medium grained, massive.	1309		560.9	562.5	1.6					tr

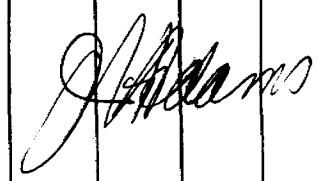
DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-28

SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		TOTAL
560.9	562.5	Cont'd. Modal percent: Amphibole] 45-50% Chlorite] Quartz] 45% Feldspar] Magnetite 5%						
		Texture - medium grained disseminated magnetite.						
562.5	606.0	Mafic Flows - dark green, fine grained, massive. Modal percent: Amphibole] 55-60% Chlorite] Plagioclase 40-45% Magnetite tr-2% Pyrite trace	1310 1311 1312		562.5 567.5 572.5	567.5 572.5 576.6	5.0 5.0 4.1	tr .006 tr
		Texture - very rare quartz-carbonate veinlets; rare epidote altered bands. - 576.6' - 578.8' - irregular quartz veining with up to 5% pyrite and 1% pyrrhotite along contacts; trace to 1% carbonate.	1313 1314 1315 1316		576.6 578.6 596.0 601.0	578.8 583.6 601.0 606.0	2.2 5.0 5.0 5.0	.002 tr tr tr
	606.0	E.O.H.						



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-29 LENGTH 406.0'
 LOCATION 19+00W, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -52°
 STARTED October 3/87 FINISHED October 4/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-52.0				
200.0	-48.5				
400.0	-43.2				

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

REMARKS PA786808
PA786809

SUMMARY LOG

LOGGED BY P. Taylor

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	ALL OZ/TON	OZ/TON
					FROM	TO	TOTAL			
0.0	126.2	MAFIC FLOW.								
126.2	129.2	FELSIC TO INTERMEDIATE TUFF.								
129.2	145.2	MAFIC FLOW.								
145.2	237.8	FELSIC TO INTERMEDIATE TUFF.								
237.8	272.9	MAFIC FLOW.								
272.9	302.6	FELSIC TO INTERMEDIATE TUFF.								
302.6	306.3	MAFIC FLOW.								
306.3	345.7	SHEARED MAFIC VOLCANIC (FLOWS).								
345.7	390.7	SHEARED IRON FORMATION AND MAFIC VOLCANIC.	9970		369.0	374.0	5.0		.068	
			9971		374.0	378.8	4.8		.164	
			9972		378.8	383.0	4.2		.172	Check
									.062	
390.7	406.0	SHEARED MAFIC FLOW.								
	406.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-29 LENGTH 406.0'
 LOCATION 19+00W, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -52°
 STARTED October 3/87 FINISHED October 4/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-52.0				
200.0	-48.5				
400.0	-43.2				

HOLE NO. KAS-87A-29 SHEET NO. 1 of 9

REMARKS PA786808
PA786809

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	%	Au OZ/TON	OZ/TON
0.0	126.2	<p>Mafic Flow - greenish grey to dark green; fine to medium grained, massive to moderately foliated; indistinct, irregularly banding to no banding.</p> <p>Modal percent: Amphibole 40-45% Quartz] 30-35% Feldspar] Chlorite 10-15% Carbonate tr-2% Pyrite tr-1% Pyrrhotite tr-1% Hematite tr-1% Magnetite trace</p> <p>Fine grained, well foliated to medium grained and massive; quartz-carbonate - epidote interflow bands parallel to foliation common; hematite staining on fracture surfaces infrequent; trace pyrite-pyrrhotite occur as disseminated grains, wispy stringers or blebs parallel to the foliation.</p> <p>- 4.0' - 5.0' - abundant quartz-carbonate-epidote veinlets. - 5.0' - 10.0' - at 8.3' 2% pyrrhotite on fracture surface; fractured at 23° to core axis. - 10.0' - 15.0' - foliation at 54° to core axis at 11.5'. - 28.0' - 29.2' - abundant distorted quartz-carbonate interflow bands; fracture at 31° to core axis at 29.2'. - 33.0' - 34.0' - abundant, distorted quartz-carbonate interflow bands. - 36.8' - 40.0' - trace-1% pyrrhotite on fracture surface; fracture at 23° to core axis at 39.0'.</p>	9901	tr	0.0	4.0	4.0			tr	
			9902	tr	4.0	5.0	1.0			tr	
			9903	2	5.0	10.0	5.0			tr	
			9904		10.0	15.0	5.0			tr	
			9905		28.0	29.2	1.2			tr	
			9906		33.0	34.0	1.0			tr	
			9907	tr-1	36.8	40.0	3.2			tr	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-29

 SHEET NO. 2 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton		
					FROM	TO			
0.0	126.2	Cont'd.							
		- 42.0' - 43.0' - quartz-carbonate-epidote veinlet.	9908		42.0	43.0	1.0		tr
		- 44.4' - fracture at 25° to core axis.							
		- 57.0' - 58.4' - 1" quartz-carbonate-epidote vein with trace pyrite on contacts between mafic flow inclusions in quartz vein.	9909	tr	57.0	58.4	1.4		tr
		- 66.2' - foliation at 58° to core axis.							
		- 66.9' - 71.0' - abundant quartz-carbonate-epidote fractures at 17° to core axis.	9910		66.9	71.0	4.1		tr
		- 71.0' - 76.0' - as per 66.9' - 71.0'.	9911		71.0	76.0	5.0		tr
		- 83.7' - foliation at 56° to core axis.							
		- 87.9' - 88.9' - abundant quartz-carbonate-epidote veinlets parallel to the foliation.	9912		87.9	88.9	1.0		tr
		- 93.1' - 94.1' - quartz-carbonate-epidote veining, contact at 28° to core axis.	9913		93.1	94.1	1.0		tr
		- 99.0' - 101.0' - 1% pyrite in a quartz-carbonate-epidote veinlet.	9914	1	99.0	101.0	2.0		tr
		- 101.0' - 102.6' - trace to 1% disseminated pyrite.	9915	tr-1	101.0	102.6	1.6		tr
		- 103.0' - foliation at 45° to core axis.							
		- 108.0' - 109.6' - 1.1' quartz-carbonate vein.	9916		108.0	109.6	1.6		tr
		- 110.5' - 114.2' - 1.6' quartz-carbonate vein, contact at 35° to core axis.	9917		110.5	114.2	3.7		tr
		- 118.6' - 119.6' - fracture displacement, fracture at 14° to core axis; carbonate on fracture surface.	9918		118.6	119.6	1.0		tr
		- 119.6' - 122.2' - abundant quartz-carbonate-epidote irregular banding; micro-brecciation with a mylonite matrix also abundant.	9919		119.6	122.2	2.6		tr
		- 123.8' - foliation at 58° to core axis.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-29

SHEET NO. 3 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		TOTAL
0.0	126.2	Cont'd. - 124.2' - 125.4' - 1" quartz-carbonate-epidote vein, contact at 65° to core axis.	9920		124.2	125.4	1.2	tr
126.2	129.2	<u>Felsic to Intermediate Tuff</u> - dark grey to brown to green; fine grained; strong to irregular banding; well foliated. Modal percent: Quartz] 50-55% Feldspar] Amphibole 15-20% Chlorite 5-10% Sericite 5-10% Biotite 3-5% Carbonate trace Pyrite trace Interflow bands of quartz-carbonate-epidote occur infrequently; pyrite occurring as disseminated grains or thin stringers parallel to foliation.	9921	tr	126.2	129.2	3.0	tr
129.2	145.2	<u>Mafic Flow</u> - typical as per 0-126.2'. - 129.2' - 133.4' - abundant quartz-carbonate-epidote irregular veinlets parallel to the foliation; foliation at 48° to core axis at 131.4'; trace-1% pyrite/pyrrhotite as disseminated grains, or blebs or wispy stringers parallel to the foliation. - 133.4' - 138.2' - trace pyrite/pyrrhotite as disseminated grains or wispy stringers parallel to the foliation; fracture at 28° to core axis at 134.4'. - 138.2' - 143.0' - abundant quartz-carbonate-epidote veinlets. - 143.0' - 145.2' - typical; foliation at 57° to core axis at 144.2'.	9922	tr-1	129.2	133.4	4.2	.008
			9923	tr-1	133.4	138.2	4.8	tr
			9924		138.2	143.0	4.8	tr
			9925		143.0	145.2	2.2	tr
			17700		145.2	146.2	1.0	tr
145.2	237.8	<u>Felsic to Intermediate Tuff</u> - dark grey to brown to green; fine grained; strong to irregular banding; well foliated.	9926		146.2	151.1	4.9	tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-29

SHEET NO. 4 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton		
					FROM	TO			
145.2	237.8	Cont'd. Modal percent: Quartz] 45-50% Feldspar] Amphibole 15-20% Sericite 5-10% Chlorite 5-10% Carbonate tr-5% Biotite 1-3% Pyrite tr-1% Pyrrhotite tr-1% Magnetite trace							
		Interflow bands of quartz-carbonate-epidote abundant; stretched to angular quartz lapilli common to rare; zones of microfaulting and brecciation with a mylonite matrix; pyrite/pyrrhotite occurring as disseminated grains, fracture fillings or blebs and wispy stringers parallel to the foliation.							
		- 153.8' - foliation at 55° to core axis.							
		- 154.8' - 156.6' - trace pyrite as blebs parallel to foliation; 3/8" quartz-carbonate-epidote veinlet parallel to foliation; fracture at 36° to core axis at 155.6'.	9927	tr	154.8	156.6	1.8		tr
		- 159.0' - 160.5' - 0.3' brecciation zone.	9928		159.0	160.5	1.5		.006
		- 161.0' - 162.5' - several quartz-carbonate-epidote veinlets with trace pyrite.	9929	tr	161.0	162.5	1.5		tr
		- 165.7' - 167.1' - abundant quartz-carbonate-epidote veinlets.	9930		165.7	167.1	1.4		tr
		- 173.6' - foliation at 54° to core axis.							
		- 184.5' - 186.6' - abundant fracture displacement quartz-carbonate-epidote-sericite on fracture surfaces.	9931		184.5	186.6	2.1		tr
		- 189.4' - 191.0' - abundant fractures, generally parallel to foliation; quartz-carbonate-epidote-hematite-trace pyrite on fracture surface.	9932	tr	189.4	191.0	1.6		tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-29

SHEET NO. 5 of 9

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Au oz/ton		
					FROM	TO	TOTAL				
145.2	237.8	Cont'd.									
		- 191.0' - 194.0' - abundant quartz-carbonate-epidote-hematite-trace pyrite, veins; from 191.3' - 191.4', 192.4' - 192.7', 193.2' - 193.4'.	9933	tr	191.0	194.0	3.0		tr		
		- 194.0' - 199.0' - fractures and brecciation abundant; quartz-carbonate-epidote-hematite-sericite-trace pyrite as disseminated grains, common on fracture surfaces.	9934	tr	194.0	199.0	5.0		tr		
		- 199.0' - 201.0' - as per 194.0' - 199.0'.	9935	tr	199.0	201.0	2.0		tr		
		- 201.0' - 205.0' - typical; trace-1% pyrite as blebs or stringers parallel to foliation; foliation at 54° to core axis at 204.7'.	9936	tr-1	201.0	205.0	4.0		tr		
		- 205.0' - 206.0' - trace-5% pyrite occurring as per 201.0' - 205.0'.	9937	tr-5	205.0	206.0	1.0		tr		
		- 206.0' - 211.0' - trace pyrite parallel to foliation.	9938	tr	206.0	211.0	5.0		tr		
		- 211.0' - 214.2' - typical.	9939	tr	211.0	214.2	3.2		tr		
		- 214.2' - 217.6' - foliation at 58° to core axis at 215.2', typical with minor fracturing displacement.	9940	tr	214.2	217.6	3.4		tr		
		- 217.6' - 222.6' - irregular fracturing with potassic alteration and hematite staining common; trace disseminated pyrite in fracture zones; trace-1% pyrite as blebs parallel to foliation; hematite staining common on foliation surface.	9941	tr-1	217.6	222.6	5.0		tr		
		- 222.6' - 226.8' - as per 217.6' - 222.6'.	9942	tr-1	222.6	226.8	4.2		tr		
		- 226.8' - 230.0' - as per 217.6' - 222.6'.	9943	tr	226.8	230.0	3.2		tr		
		- 230.0' - 232.5' - as per 217.6' - 222.6'.	9944		230.0	232.5	2.5		tr		
		- 232.5' - 235.3' - abundant quartz-carbonate-epidote veining hematite staining on foliation; foliation at 58° to core axis at 234.0'.	9945		232.5	235.3	2.8		tr		
		- 235.3' - 237.8' - as per 232.5' - 235.3'.	9946		235.3	237.8	2.5		tr		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-29

SHEET NO. 6 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton		
					FROM	TO			
237.8	272.9	<p><u>Mafic Flow</u> - greenish grey to dark green, fine to medium grained, massive to moderately foliated; indistinct, irregular banding to no banding.</p> <p>Modal percent: Amphibole 45-50% Quartz 30-35% Feldspar] Chlorite 10-15% Carbonate tr-2% Pyrite trace</p> <p>Texture - ranges from fine to medium grained and massive to fine grained and foliated; quartz-carbonate-epidote interflow bands or veins common, typically parallel to foliation, trace pyrite as disseminated grains or blebs parallel to foliation.</p> <p>- 237.8' - 238.8' - quartz-carbonate-epidote interflow band. 9947</p> <p>- 243.3' - foliation at 59° to core axis.</p> <p>- 248.0' - 251.3' - trace disseminated pyrite. 9948</p> <p>- 248.6' - foliation at 57° to core axis.</p> <p>- 251.0' - fracture at 21° to core axis.</p> <p>- 253.0' - 255.3' - typical. 9949</p> <p>- 258.0' - 259.0' - 0.2' quartz-carbonate-epidote vein, contact at 60° to core axis. 9950</p> <p>- 260.2' - 261.4' - trace disseminated pyrite. 9951</p> <p>- 266.4' - foliation at 50° to core axis.</p> <p>- 269.2' - fracture at 28° to core axis; green paste on fracture surface.</p>							
272.9	302.6	<p><u>Felsic to Intermediate Tuff</u> - typical as per 145.2' - 237.8'.</p> <p>- 279.0' - 280.4' - trace pyrite parallel to foliation, hematite also on foliation surfaces. 9952</p> <p>- 283.6' - 285.3' - as per 279.0' - 280.4', fracture at 15° to core axis at 284.0'. 9953</p> <p>- 286.0' - 289.8' - trace pyrite parallel to foliation surface 9954</p>							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-29

SHEET NO. 7 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Au oz/ton		
					FROM	TO	TOTAL				
272.9	302.6	Cont'd. - 291.5' - foliation at 57° to core axis. - 296.0' - 297.0' - trace pyrite on fracture surface; fracture at 28° to core axis.	9955	tr	296.0	297.0	1.0		tr		
302.6	306.3	Mafic Flow - typical as per 237.8' - 272.9'; very fine grained, massive.	9956		302.6	306.3	3.7		tr		
306.3	345.7	Sheared Mafic Volcanic (Flows) - dark green to grey-green; fine to medium grained, striped to crudely banded to massive to sheared. Modal percent: Amphibole 40-45% Quartz] 30-35% Feldspar] Chlorite 5-10% Carbonate 1-4% Magnetite tr-2% Garnet tr-2% Pyrite tr-1% Pyrrhotite tr-1% Pink poikiloblastic garnets uncommon abundant discordant to concordant quartz-carbonate-epidote-pyrite stringers and veins or veinlets; magnetite occurring as disseminated grains or wispy bands in felsic units; pyrite-pyrrhotite occurring as very fine disseminated grains or blebs parallel to the foliation.									
		- 306.3' - 311.0' - typical; foliation at 56° to core axis at 306.9'.	9957	tr	306.3	311.0	4.7		tr		
		- 311.0' - 316.0' - typical.	9958	tr	311.0	316.0	5.0		tr		
		- 316.0' - 321.0' - typical.	9959	tr-1	316.0	321.0	5.0		tr		
		- 321.0' - 326.0' - typical.	9960		321.0	326.0	5.0		tr		
		- 324.8' - 325.5' - very fine grained with a 0.2' quartz vein, contact at 30° to core axis.									
		- 326.0' - 331.0' - typical, with distorted quartz-carbonate-epidote bands.	9961	tr-2	326.0	331.0	5.0		.002		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-29

SHEET NO. 8 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	Au oz/ton	
306.3	345.7	Cont'd. - 331.0' - 336.0' - abundant magnetite zones in felsic units from 333.0' - 333.4' and 334.2' - 334.8'. - 336.0' - 341.0' - typical with distorted quartz-carbonate bands. - 341.0' - 345.7' - poikiloblastic garnets.	9962	tr-1	331.0 336.0 5.0		.002	
			9963	tr	336.0 341.0 5.0		tr	
			9964	tr	341.0 345.7 4.7		tr	
345.7	390.7	Sheared Iron Formation and Mafic Volcanic - dark grey-green to dark green; fine to medium grained; striped to mottled to banded; weakly foliated. Modal percent: Quartz] 35-40% Feldspar] Amphibole 35-40% Chlorite 1-5% Garnet 1-5% Carbonate tr-5% Magnetite tr-2% Pyrite tr-2% Pyrrhotite tr-1% Magnetite occurring as disseminated grains or wispy stringers in felsic bands; garnets occurring in amphibole-rich bands as stretched or irregularly shaped poikiloblastic grains; pyrrhotite and pyrite occurring as disseminated wispy blebs as cores or mantles in garnets or as blebs parallel to foliation; quartz-carbonate-epidote bands common. - 345.7' - 350.0' - typical; foliation at 48° to core axis at 347.0'. - 347.5' - 347.8' - 0.3' quartz-carbonate vein. - 350.0' - 355.0' - typical. - 355.0' - 360.0' - typical. - 360.0' - 364.6' - typical. - 364.6' - 369.0' - typical.	9965	1-2	345.7 350.0 4.3		.044	
			9966	1	350.0 355.0 5.0		tr	
			9967	tr-1	355.0 360.0 5.0		.002	
			9968	tr-1	360.0 364.6 4.6		tr	
			9969	tr-1	364.6 369.0 4.4		tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-29 SHEET NO. 9 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
				FROM	TO	TOTAL		
345.7	390.7	Cont'd.						
		- 369.0' - 374.0' - typical.	9970	1-3	369.0	374.0	5.0	.068
		- 372.4' - 373.6' - 1-3% pyrite/pyrrhotite as disseminated grains or wispy stringers parallel to foliation; foliation to 55° to core axis at 372.5'.						
		- 374.0' - 378.8' - magnetite-rich zone.	9971	1-3	374.0	378.8	4.8	.164
		- 377.8' - 378.4' - 1-3% pyrite/pyrrhotite as per 372.4' - 373.6'.						.176
		- 378.8' - 383.0' - typical; foliation at 51° to core axis at 380.5'.	9972	2-4	378.8	383.0	4.2	.062
		- 379.0' - 379.4' - 2-4% pyrite/pyrrhotite parallel to foliation.						
		- 383.0' - 388.0' - typical; fracture at 31° to core axis at 385.2'.	9973	tr-1	383.0	388.0	5.0	tr
		- 388.0' - 390.9' - abundant irregular quartz-carbonate bands	9974		388.0	390.9	2.9	tr
390.7	406.0	Sheared Mafic Volcanic (Flows) - dark green to grey-green, fine to medium grained; crudely banded, massive to weakly foliated.	9975	tr	390.9	395.0	4.1	tr
		Modal percent: Amphibole 45-50%	9976	tr	395.0	400.0	5.0	.002
		Quartz] 30-35%	9977	tr	400.0	405.0	5.0	tr
		Feldspar]	9978	tr	405.0	406.0	1.0	.010
		Chlorite 5-10%						
		Carbonate 1-3%						
		Magnetite tr-3%						
		Pyrite tr-1%						
		Concordant to discordant quartz-carbonate-epidote bands common; magnetite occurs as disseminated grains; pyrite as disseminated grains parallel to the foliation; foliation at 46° to core axis 400.5'.						
	406.0	E.O.H.						

LANGRIDDGES - TORONTO - 366-1166

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-30 LENGTH 631.0'
 LOCATION 21+00W, 16+22N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -62°
 STARTED October 7/87 FINISHED October 9/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-62.0				
200.0	-53.5				
400.0	-53.2				
631.0	-44.5				

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

REMARKS PA786808

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	AU OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	3.0	CASING.									
3.0	8.1	MYLONITE.									
8.1	45.6	FELSIC TO INTERMEDIATE TUFF.									
45.6	62.8	MYLONITE.									
62.8	78.6	FELSIC TO INTERMEDIATE TUFF.									
78.6	80.7	BANDED IRON FORMATION.									
80.7	179.2	MAFIC FLOWS AND TUFF.									
179.2	199.5	MAFIC TO INTERMEDIATE TUFF.									
199.5	242.4	MAFIC FLOWS.									
242.4	249.4	FELSIC TO INTERMEDIATE TUFF.									
249.4	282.9	MAFIC FLOWS. - 272.0' - 272.3' - banded iron formation.									
282.9	365.0	INTERMIXED INTERMEDIATE TUFF AND GREYWACKE.									
365.0	426.2	FELSIC TO INTERMEDIATE TUFF.									
426.2	429.6	MAFIC FLOWS.									
429.6	459.4	FELSIC TO INTERMEDIATE TUFF.									
459.4	566.3	MAFIC FLOWS.									
566.3	598.3	SHEARED MAFIC VOLCANICS AND IRON FORMATION.	9983		576.0	581.0	5.0			.018	
			9985		586.0	591.0	5.0			.010	
			9986		591.0	596.0	5.0			.024	
			9987		596.0	598.3	2.3			.032	
598.3	606.0	MAFIC FLOWS.									
606.0	608.0	MAFIC INTRUSIVE.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-30

SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO		NO.	% SULPH IDES	FOOTAGE		Au oz/ton							
					FROM	TO					TOTAL			
608.0	631.0	MAFIC FLOWS. E.O.H.												
	631.0													

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-30 LENGTH 631.0'
 LOCATION 21+00W, 16+22N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -62°
 STARTED October 7/87 FINISHED October 9/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-62.0				
200.0	-53.5				
400.0	-53.2				
631.0	-44.5				

HOLE NO. KAS-87A-30 SHEET NO. 1 of 7
 REMARKS PA786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	oz/TON	oz/TON
0.0	3.0	Casing.							
3.0	8.1	Mylonite - yellowish-green to grey, fine grained, laminated. Modal percent: Quartz 40-45% Carbonate 15-20% Feldspar 10-15% Sericite 5-10% Epidote 5-10% Highly fractured to brecciated, abundant (5-7%) quartz-carbonate and carbonate stringers, foliation at 50° to core axis at 3.0'.	1317		3.0 8.1 5.1			.002	
8.1	45.6	Felsic to Intermediate Tuff - grey to green, fine grained, finely laminated. Modal percent: Quartz 30-35% Feldspar 20-25% Amphibole 15-20% Biotite 15-20% Carbonate 1-3% Biotite as wispy bands, minor quartz-feldspar eyes, foliation at 38° to core axis at 16.0', 44° at 25.0', 42° at 44.0'. - 23.0' - 26.0' - 3-5% quartz-carbonate stringers. - 31.5' - 33.2' - as above.	1318 1319		23.0 26.0 3.0 31.5 36.0 4.5			tr tr	
45.6	62.8	Mylonite - pink to dark grey, fine grained, laminated. Modal percent: Quartz 35-40% Potash Feldspar] 40-45% Plagioclase] Sericite 3-5% Chlorite 3-5% Carbonate 2-5%	1320 1321 1322 1323		45.6 50.6 5.0 50.6 55.6 5.0 55.6 59.6 4.0 59.6 62.8 3.2			tr tr tr tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-30

SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			Au oz/ton		
					FROM	TO	TOTAL			
45.6	62.8	Cont'd. Chlorite-sericite along foliation-cleavage planes, few quartz-carbonate stringers, foliation at 45° to core axis at 56.0'.								
62.8	78.6	Felsic to Intermediate Tuff - as above foliation at 55° to core axis at 70.0', fracture at 40° to core axis at 70.0'. - 74.5' - 76.0' - 2-3% quartz-carbonate stringers.	1324		74.5	78.6	4.1		tr	
78.6	80.7	Banded Iron Formation - dark green to slate grey, fine grained, laminated-banded. Modal percent: Quartz 30-35% Tremolite] 30-35% Hornblende] Magnetite 10-15% Grunerite 3-5% Carbonate 3-5% Pyrite 3-5% Minor grunerite haloes between magnetite bands and amphibole (tremolite-hornblende) bands.	1325	3-5	78.6	80.7	2.1		tr	
80.7	179.2	Mafic Volcanic Flows and Tuffs - 85:15, flows, fine to medium grained, dark green to dark grey, massive, tuffs, fine grained, green to white to brown, laminated, schistose. Modal percent: Amphibole 50-55% Quartz] Plagioclase] 30-35% Biotite 3-5% Carbonate 1-2% Pyrite tr-3% - 80.7' - 116.0' - medium grained mottled flows, foliation at 35° to core axis at 97.0', fracture at 51° to core axis at 97.0'. - 80.7' - 83.3' - breccia zone, quartz-carbonate matrix (20-25%), 2-3% disseminated pyrite.	1326	2-3	80.7	83.3	2.6		tr	
			1327	2-3	83.3	86.0	2.7		tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS 87A-30

SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Au oz/ton			
					FROM	TO	TOTAL					
80.7	179.2	Cont'd.										
		- 96.0' - 98.0' - 2-3% quartz-carbonate stringers, 2-3% disseminated pyrite.	1328	2-3	96.0	98.0	2.0		tr			
		- 116.0' - 139.2' - fine to medium grained, mottled flows, 1-3% disseminated magnetite.	1329		116.0	118.1	2.1		tr			
		- 118.1' - 122.7' - cherty, 3-5% magnetite, 2-3% disseminated pink porphyroblastic garnets.	1330		118.1	122.7	4.6		tr			
			1331		122.7	126.0	3.3		tr			
			1332		126.0	131.0	5.0		tr			
			1333		131.0	136.0	5.0		tr			
			1334	2-3	136.0	139.2	3.2		tr			
		- 139.2' - 156.2' - fine grained, laminated, tuffaceous, 2-3% quartz-carbonate stringers, 2-3% disseminated pyrite, foliation at 44° to core axis at 140.0', 38° at 152.0'.	1335	2-3	139.2	141.0	1.8		tr			
			1336	2-3	141.0	146.0	5.0		.012			
			1337	2-3	146.0	151.0	5.0		tr			
			1338	2-3	151.0	156.2	5.2		tr			
		- 156.2' - 179.2' - medium grained, massive flows with minor schistose horizons and 2-3% quartz-carbonate stringers.	1339		156.2	161.2	5.0		tr			
			1340		161.2	166.2	5.0		tr			
			1341		166.2	169.2	3.0		.002			
		- 169.2' - 173.5' - 3-5% quartz-carbonate stringers.	1342		169.2	171.2	2.0		tr			
			1343		171.2	173.5	2.3		tr			
		- 176.0' - 178.0' - 0.1-foot tourmaline pyrite band and 1-2% quartz-carbonate stringers.	1344		173.5	176.0	2.5		tr			
			1345		176.0	179.2	3.2		tr			
179.2	199.5	Mafic to Intermediate Tuff - dark grey to dark green to brown, laminated to banded, fine grained. Modal percent: Amphibole 40-45% Quartz } 30-35% Plagioclase } Biotite 5-10% Carbonate 3-5% Chlorite 3-5%										
		Wispy biotite laminae between amphibole and quartz-plagioclase bands, foliation 55° to core axis at 187.0', fracture at 48° to core axis at 186.0'.										
		- 188.5' - 189.8' - 3-5% quartz-carbonate stringers.	1346		186.0	189.8	3.8		tr			
			1347		189.8	193.3	3.5		tr			

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-30

SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton		
					FROM	TO			
179.2	199.5	Cont'd. - 191.3' - 193.3' - composite quartz-carbonate vein with minor amphibole, chlorite, biotite bands and inclusions.							
199.5	242.4	Mafic Flows - typical, amphibolitic, massive to poorly foliated, fine to coarse grained, few fractures or quartz stringers, foliation at 53° to core axis at 211.0'. - 232.3' - 234.9' - 3-5% quartz-carbonate-epidote stringers and narrow veins.	1348		232.3	234.9	2.6		tr
242.4	249.4	Felsic to Intermediate Tuff - typical, minor fracturing and silicification, 2-3% quartz-carbonate stringers, foliation at 43° to core axis at 247.0'.	1349		242.4	246.0	3.6		tr
			1350		246.0	249.4	3.4		tr
249.4	282.9	Mafic Flows - typical, fine to medium grained, 2-5% quartz-carbonate stringers throughout, trace-1% pyrrhotite and pyrite, foliation at 38° to core axis at 277.0', fractures at 47° and 76° to core axis at 276.0'. - 272.0' - 272.3' - banded iron formation, typical. - 272.3' - 272.6' - biotite-chlorite-sericite schist, fine grained, brown.	1351	tr-1	267.0	272.0	5.0		tr
			1352	3-5	272.0	272.6	0.6		tr
			1353	tr-1	272.6	276.0	3.4		tr
282.9	365.0	Intermixed Intermediate Tuff and Greywacke - fine to medium grained, dark green to white to grey, laminated to crudely banded. Modal percent: Amphibole 20-25% Quartz 20-25% Chlorite 10-15% Sericite 10-15% Carbonate 5-10% Biotite 3-5% Plagioclase 3-5% Pyrite tr-2% Medium grained clasts of carbonate-plagioclase in fine grained matrix, 3-5% quartz-carbonate stringers and veins, frequent quartz lenses or eyes, foliation at 44° to core axis at 284.0', 48° at 296.0', 48° at 318.0', 38° at 336.0'.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-30

SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton					
					FROM	TO	TOTAL						
282.9	365.0	Cont'd.											
		- 282.9' - 283.9' - 3-5% pyrite as bands and stringers.	1354	3-5	282.9	286.0	3.1				tr		
			1355		286.0	291.0	5.0				tr		
			1356		291.0	296.0	5.0				.002		
			1357		296.0	301.4	5.4				tr		
		- 301.4' - 306.2' - 3-5% quartz-carbonate veins.	1358	1-2	301.4	306.2	4.8				tr		
		- 303.8' - 306.0' - quartz vein, 1-2% pyrite on fractures.	1359		306.2	311.0	4.8				tr		
			1360		311.0	314.0	3.0				tr		
			1361		314.0	317.0	3.0				tr		
		- 317.0' - 318.0' - quartz-carbonate stringers with trace <u>tourmaline</u> as bands on downhole contacts.	1362		317.0	318.0	1.0				tr		
			1363		318.0	323.0	5.0				tr		
			1364		323.0	327.1	4.1				tr		
		- 327.1' - 332.1' - fracturing - mylonitic, greenish-yellow quartz-carbonate-epidote fracture fill.	1365		327.1	332.1	5.0				tr		
			1366		332.1	336.0	3.9				tr		
			1367		336.0	341.0	5.0				tr		
			1368		341.0	346.0	5.0				tr		
			1369		346.0	349.2	3.2				tr		
		- 349.2' - 365.0' - 2-5% pyrite as disseminated grains or stringers, 1-2% quartz- <u>tourmaline</u> stringers.	1370	2-5	349.2	352.2	3.0				tr		
			1371	2-5	352.2	356.0	3.8				tr		
			1372	2-5	356.0	361.0	5.0				tr		
			1373	2-5	361.0	365.0	4.0				tr		
365.0	426.2	Felsic to Intermediate Tuff - typical, 2-5% quartz-carbonate stringers, foliation averages 46° to core axis, fracture at 53° to core axis at 370.0'.											
		- 365.0' - 376.5' - 2-5% disseminated pyrite.	1374	2-5	365.0	369.0	4.0				tr		
			1375	2-5	369.0	372.0	3.0				tr		
			1376	2-5	372.0	376.5	4.5				tr		
		- 376.5' - 387.0' - fractured - silicified, yellowish-green, quartz-carbonate-epidote infilling.	1377	tr	376.5	380.0	3.5				tr		
			1378	tr	380.0	385.0	5.0				tr		
			1379	tr	385.0	387.0	2.0				tr		
		- 387.0' - 399.7' - 2-5% disseminated pyrite, 1-2% quartz-carbonate stringers.	1380	2-5	387.0	391.0	4.0				tr		
			1381	2-5	391.0	396.0	5.0				.002		
			1382	2-5	396.0	399.7	3.7				tr		

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-30

SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Au oz/ton		
					FROM	TO	TOTAL				
365.0	426.2	Cont'd. - 399.7' - 417.0' - trace sulphides. - 417.0' - 418.4' - 1-2% disseminated <u>tourmaline</u> grains, trace sulphides. - 418.4' - 426.2' - 2-3% quartz-carbonate stringers and veins 1-2% disseminated to banded pyrite.	1383	tr	417.0	418.4	1.4		.012		
			1384	1-2	418.4	421.6	3.2		tr		
			1385	1-2	421.6	426.2	4.6		tr		
426.2	429.6	<u>Mafic Flows</u> - typical, fine grained, 1-2% quartz-carbonate veins, 1-2% disseminated pyrite.	1386	1-2	426.2	429.6	3.4		tr		
429.6	459.4	<u>Felsic to Intermediate Tuff</u> - typical, foliation at 46° to core axis at 456.0'. - 458.4' - 459.4' - mylonite, pink, 3-5% quartz-carbonate stringers.	1387		429.6	432.1	2.5		tr		
			1388		432.1	436.0	3.9		tr		
			1389		436.0	441.0	5.0		tr		
			1390		441.0	446.0	5.0		tr		
			1391		446.0	451.0	5.0		tr		
			1392		451.0	456.0	5.0		tr		
			1393		456.0	459.4	3.4		tr		
459.4	566.3	<u>Mafic Flows</u> - medium to coarse grained, amphibolitic with 2-3% disseminated albite wisps, 2-3% quartz-carbonate stringers, foliation at 54° to core axis at 508.0'. - 459.4' - 460.6' - narrow shear, schistose, chloritic, 2-3% carbonate. - 460.6' - 479.0' - 1-2% pyrrhotite and pyrite in quartz-carbonate stringers. - 512.0' - 513.8' - 3-5% pyrrhotite in quartz-carbonate stringers. - 547.0' - 548.5' - 1-2% <u>graphite</u> flakes and plates in quartz stringers.	1394		459.4	464.4	5.0		tr		
			1395		464.4	468.4	4.0		tr		
			1396		468.4	471.0	2.6		tr		
			1397		471.0	476.0	5.0		.014		
			1398		476.0	479.0	3.0				
			1399		512.0	513.8	1.8		tr		
			1400		547.0	548.5	1.5		tr		
566.3	598.3	<u>Sheared Mafic Volcanic and Iron Formation</u> - dark green to black to grey, fine to medium grained, crudely banded. Modal percent: Quartz] Feldspar] 45-50%	9979	1-3	566.3	570.3	4.0		tr		
			9980	1-3	570.3	572.9	2.6		tr		
			9981		572.9	574.2	1.3		tr		

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-30 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	Au oz/ton			
					FROM	TO	TOTAL					
566.3	598.3	Cont'd.										
		Amphibole	9982	1-3	574.2	576.0	1.8		tr			
		Magnetite	9983	1-3	576.0	581.0	5.0		.018			
		Pyrrhotite	9984	1-3	581.0	586.0	5.0		tr			
		Pyrite]	9985	1-3	586.0	591.0	5.0		.010			
		Garnet	9986	1-3	591.0	596.0	5.0		.024			
			9987	1-3	596.0	598.3	2.3		.032			
		Magnetite occurs in quartz-feldspar bands, pyrrhotite and pyrite disseminated throughout, foliation at 60° to core axis at 581.0', 49° at 596.0'; 3-5% quartz-carbonate veins and stringers. - 572.9' - 574.2' - quartz vein clean.										
598.3	606.0	Mafic Flows - typical, fine to medium grained.	9988		598.3	602.0	3.7		tr			
			9989		602.0	606.0	4.0		tr			
606.0	608.0	Mafic Intrusive - dark grey to dark green, coarse grained, massive amphibolitic. Modal percent: Amphibole 50-55% Plagioclase 35-40% Magnetite 3-5%	9990		606.0	608.0	2.0		tr			
608.0	631.0	Mafic Flows - fine to medium grained spotty magnetite zones, foliation at 68° to core axis at 624.0'. - 608.0' - 610.9' - irregular, discordant carbonate stringers.	9991		608.0	610.9	2.9		tr			
			9992		610.9	616.0	5.1		tr			
			9993		616.0	621.0	5.0		tr			
			9994		621.0	626.0	5.0		tr			
			9995		626.0	631.0	5.0		tr			
	631.0	E.O.H.										

J. Adams

LANGRIDDIES - TORONTO - 396-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-31 LENGTH 444.0'
 LOCATION 21+00W, 15+22N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -52°
 STARTED October 10/87 FINISHED October 11/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-52.0				
200.0	-49.3				
444.0	-43.0				

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

REMARKS PA786808

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	7.0	CASING.								
7.0	82.4	MAFIC FLOWS.								
82.4	99.8	FELSIC TUFF.								
99.8	100.7	BANDED IRON FORMATION.								
100.7	123.3	MAFIC FLOWS.								
123.3	210.7	FELSIC TO INTERMEDIATE TUFF.								
210.7	220.7	MAFIC FLOWS.								
220.7	227.1	QUARTZ CRYSTAL TUFF.								
227.1	228.9	FELSIC TO INTERMEDIATE TUFF.								
228.9	232.8	MAFIC FLOWS.								
232.8	263.2	FELSIC TO INTERMEDIATE TUFF.								
263.2	264.2	MAFIC FLOWS.								
264.2	293.4	FELSIC TO INTERMEDIATE TUFF.								
293.4	346.6	SHEARED MAFIC VOLCANICS.								
346.6	421.5	SHEARED MAFIC VOLCANICS AND IRON FORMATION.								
421.5	444.0	MAFIC FLOWS.								
	444.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-31 LENGTH 444.0'
 LOCATION 21+00W, 15+22N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -52°
 STARTED October 10/87 FINISHED October 11/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-52.0				
200.0	-49.3				
444.0	-43.0				

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

REMARKS PA786808

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON
0.0	7.0	Casing.									
7.0	82.4	Mafic Flows - dark green, fine to medium grained, foliated to massive. Modal percent: Amphibole 50-55% Plagioclase 40-45% Quartz Carbonate] 1-3% Minor mafic tuff horizons, fine grained flows foliated, medium grained flows, slightly foliated to massive. - 7.0' - 11.8' - fine grained flows, 1-2% disseminated pyrite 1-2% quartz-carbonate stringers. - 11.8' - 35.6' - medium grained flows, massive, minor discordant schistose horizons (shearing) with 3-5% quartz-carbonate and carbonate-epidote stringers. - 35.6' - 43.7' - fine to medium grained, irregular banding, tuffaceous, 3-5% biotite, 3-5% quartz-carbonate stringers. - 43.7' - 59.5' - medium grained, mottled to crudely banded. - 44.5' - 47.5' - 2-3% fracturing and silicification with quartz-carbonate-epidote infilling-stringers. - 59.5' - 66.2' - tuff, wispy bands, 2-3% quartz-carbonate veining, 5-10% biotite bands. - 66.2' - 82.4' - medium grained, mottled to massive, 2-3% irregular quartz-carbonate stringers.									
			17581	1-2	7.0	11.8	4.8			tr	
			17582		11.8	16.0	4.2			.002	
			17583		16.0	21.0	5.0			tr	
			17584		21.0	26.0	5.0			tr	
			17585		26.0	31.0	5.0			tr	
			17586		31.0	35.6	4.6			tr	
			17587		35.6	40.6	5.0			tr	
			17588		40.6	43.7	3.1			tr	
			17589		43.7	47.5	3.8			tr	
			17590		47.5	51.0	3.5			tr	
			17591		51.0	56.0	5.0			tr	
			17592		56.0	59.5	3.5			tr	
			17593		59.5	63.0	3.5			.002	
			17594		63.0	66.2	3.2			tr	
			17595		66.2	71.0	4.8			tr	
			17596		71.0	76.0	5.0			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-31

SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	Au oz/ton		
					FROM	TO	TOTAL				
7.0	82.4	Cont'd.									
		Foliation at 42° to core axis at 9.0', 32° at 47.0', 52° at 66.0'.	17597		76.0	80.0	4.0		tr		
			17598		80.0	82.4	2.4		tr		
82.4	99.8	Felsic Tuff - purplish-brown to grey, fine grained, laminated to banded. Modal percent: Quartz 40-45% Feldspar 35-40% Sericite 10-15% Biotite 5-10% Carbonate 1-2%	17599		82.4	86.0	3.6		tr		
		Horizon may represent silicified siltstone or intermixed tuff and siltstone, foliation at 50° to core axis at 95.0'.	17600		96.0	99.8	3.8		tr		
99.8	100.7	Banded Iron Formation - greyish green to green to black, fine grained, banded to laminated. Modal percent: Grunerite] 45-50% Tremolite Quartz 30-35% Magnetite 7-10% Carbonate 2-3% Pyrite 1-2%	17601	1-2	99.8	100.7	0.9		tr		
		Magnetite as blebs and bands, pyrite as coarse grained irregular blebs, foliation at 52° to core axis at 100.7'.									
100.7	123.3	Mafic Flows - fine to medium grained, mottled to massive, typical, 3-5% quartz-carbonate stringers, 2-3% biotite-rich bands - tuffaceous. - 118.4' - 121.7' - irregular mottled horizon, light green to brown, 5-7% quartz-carbonate stringers, 1-2% disseminated pyrite.	17602		100.7	105.7	5.0		tr		
			17603		105.7	111.0	5.3		tr		
			17604		111.0	116.0	5.0		tr		
			17605		116.0	118.4	2.4		.002		
			17606	1-2	118.4	121.7	4.3		.002		
			17607		121.7	123.3	1.6		tr		
123.3	210.7	Felsic to Intermediate Tuff - grey to green, fine grained, laminated to banded. Modal percent: Quartz 35-40% Feldspar 20-25%									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-31 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton			
					FROM	TO				TOTAL
123.3	210.7	Cont'd. Amphibole 15-20% Biotite 5-10% Carbonate 1-2% Pyrite tr-3% 2-3% quartz-carbonate veining, pyrite as bands and disseminated grains; foliation at 49° at 166.0', 48° at 176.0', 62° at 196.0', 52° at 210.0'. - 136.0' - 143.0' - fracturing and silicification with 2-3% quartz-carbonate veining. - 169.0' - 175.0' - fracturing - brecciation and silicification, 2-3% quartz-carbonate-epidote stringers and fracture fillings. - 178.6' - 184.4' - 10-15% quartz-carbonate veining, minor potassic alteration, trace-1% disseminated pyrite. - 186.0' - 210.7' - 1-3% pyrite, 3-5% irregular quartz-carbonate veining and quartz-carbonate-tourmaline veining with 3-5% pyrite.	17608	tr-3	123.3	126.0	2.7	.002		
			17609	tr-3	126.0	131.0	5.0	tr		
			17610	tr-3	131.0	136.0	5.0	tr		
			17611	tr-3	136.0	139.5	3.5	tr		
			17612	tr-3	139.5	143.0	3.5	tr		
			17613	tr-3	143.0	146.0	3.0	tr		
			17614	tr-3	166.0	169.0	3.0	tr		
			17615	tr-3	169.0	172.0	3.0	.012		
			17616	tr-3	172.0	175.0	3.0	tr		
			17617	tr-3	175.0	178.6	3.6	tr		
			17618	tr-3	178.6	181.0	2.4	tr		
			17619	tr-3	181.0	184.4	3.4	tr		
			17620	tr-3	184.4	186.0	1.6	tr		
			17621	1-3	186.0	191.0	5.0	tr		
			17622	1-3	191.0	196.0	5.0	tr		
			17623	1-3	196.0	201.0	5.0	tr		
			17624	1-3	201.0	206.0	5.0	tr		
			17625	1-3	206.0	210.7	4.7	tr		
210.7	220.7	Mafic Flows - fine grained, typical, 1-2% disseminated pyrite, foliation at 50° to core axis at 216.0'. - 210.7' - 213.5' - fractured - silicified, 2-3% quartz-carbonate stringers. - 216.0' - 220.7' - fracturing - brecciation, partially mylonitized, 5-7% yellow-green to mauve quartz-carbonate-epidote matrix and stringers.	17626		210.7	213.5	2.8	tr		
			17627		213.5	216.0	2.5	tr		
			17628		216.0	220.7	4.7	tr		
220.7	227.1	Felsic Quartz Crystal Tuff - white, medium grained quartz crystals in grey, fine grained quartz-sericite matrix, 2-3% quartz-carbonate stringers, 0.5-1% disseminated pyrite.	17629	0.5-1	220.7	224.2	3.5	tr		
			17630	0.5-1	224.2	227.1	2.9	tr		

LANGRISH - TORONTO - 366-1188

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-31

 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton				
					FROM	TO	TOTAL					
227.1	228.9	Felsic to Intermediate Tuff - typical.	17631		227.1	228.9	1.8				tr	
228.9	232.3	Mafic Flows - medium grained, massive, typical. - 230.1' - 231.5' - fine grained, banded, 1-2% disseminated pyrite.	17632	tr-2	228.9	232.3	3.4				tr	
232.3	263.2	Felsic to Intermediate Tuff - 2-3% quartz-carbonate-epidote stringers with trace-1% pyrite, foliation at 45° to core axis at 238.0', fracturing at 43° to core axis at 239.0'. - 257.0' - 263.2' - 3-5% quartz-carbonate veining, 0.5-1% pyrrhotite as semi-massive bands up to 1/2" wide, trace-1% disseminated pyrite.	17633	tr-1	232.3	236.0	3.7				tr	
			17634	tr-1	236.0	241.0	5.0				.008	
			17635	tr-1	241.0	246.0	5.0				tr	
			17636	tr-1	246.0	251.0	5.0				tr	
			17637	tr-1	251.0	254.0	3.0				tr	
			17638	tr-1	254.0	257.0	3.0				.010	
			17639	tr-2	257.0	261.0	4.0				.008	
			17640	tr-2	261.0	263.2	2.2				tr	
263.2	264.2	Mafic Flows - fine grained, typical.	17641		263.2	264.3	1.1				tr	
264.2	293.4	Felsic to Intermediate Tuff - typical, foliation at 47° to core axis at 266.0', 41° at 281.0'. - 264.3' - 273.8' - 3-5% quartz-carbonate stringers, 1-2% disseminated <u>tourmaline</u> . - 284.0' - 286.3' - as above. - 289.7' - 293.4' - mottled, 3-5% composite-banded quartz-carbonate veining, 1-2% disseminated pyrite and pyrrhotite.	17642		264.3	269.3	5.0				tr	
			17643		269.3	273.8	4.5				tr	
			17644		284.0	286.3	2.3				tr	
			17645		286.3	289.7	3.4				tr	
			17646	1-2	289.7	293.4	3.7				tr	
293.4	346.6	Sheared Mafic Volcanic - dark green to black to grey, fine to medium grained striped banding. Modal percent: Quartz] 45-50% Feldspar] Amphibole 40-45% Carbonate 2-3% Magnetite tr-0.5% Garnet tr-2%	17647		293.4	296.0	2.6				tr	
			17648		296.0	301.0	5.0				tr	
			17649		301.0	306.0	5.0				tr	
			17650		306.0	311.0	5.0				tr	
			17651		311.0	316.0	5.0				tr	
			17652		316.0	321.0	5.0				tr	
			17653		321.0	326.0	5.0				tr	
			17654		326.0	331.0	5.0				tr	
			17655		331.0	334.8	3.8				tr	

LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-31

SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au Oz/Ton	
					FROM	TO		TOTAL
293.4	346.6	Cont'd. Amphibolitic, disseminated pink porphyroblastic garnets, 3-5% irregular quartz-carbonate stringers and veins, foliation at 43° to core axis at 336.0', fractures at 32° to core axis at 311.0'. - 334.8' - 346.6' - 5-7% irregular quartz-carbonate veins, clean, 2-3% pyrrhotite and pyrite in volcanics.	17656		334.8	339.8	5.0	tr
			17657		339.8	344.8	5.0	tr
			17658		344.8	346.6	1.8	tr
346.6	421.5	<u>Sheared Mafic Volcanics and Iron Formation</u> - black to grey, fine grained, crudely banded to mottled. Modal percent: Quartz] 40-45% Feldspar] Hornblende 30-35% Grunerite 3-5% Magnetite 3-5% Garnet tr-2% Pyrrhotite] tr-5% Pyrite] Carbonate 1-3% Disseminated pink porphyroblastic garnets, magnetite as irregular blebs and grains in mottled felsic horizons, sulphides disseminated throughout, 2-3% irregular quartz-carbonate stringers with grunerite along contacts, foliation at 53° to core axis at 347.0', 59° at 366.0', 53° at 381.0', 53° at 416.0'.	17659	tr-5	346.6	351.0	4.4	tr
			17660	tr-5	351.0	356.0	5.0	tr
			17661	tr-5	356.0	361.0	5.0	tr
			17662	tr-5	361.0	366.0	5.0	.004
			17663	tr-5	366.0	371.0	5.0	.006
			17664	tr-5	371.0	376.0	5.0	.002
			17665	tr-5	376.0	381.0	5.0	.004
			17666	tr-5	381.0	386.0	5.0	tr
			17667	tr-5	386.0	391.0	5.0	tr
			17668	tr-5	391.0	396.0	5.0	.004
			17669	tr-5	396.0	401.0	5.0	tr
			17670	tr-5	401.0	406.0	5.0	tr
			17671	tr-5	406.0	411.0	5.0	tr
			17672	tr-5	411.0	416.0	5.0	tr
			17673	tr-5	416.0	421.5	5.5	tr
421.5	444.0	<u>Mafic Flows</u> - fine to medium grained, massive. - 431.0' - 438.5' - fine grained, schistose horizon, 3-5% quartz-carbonate stringers, trace-1% disseminated pyrrhotite.	17675		421.5	426.0	4.5	tr
			17676		426.0	431.0	5.0	.002
			17677	tr-1	431.0	436.0	5.0	.002
			17678	tr-1	436.0	438.5	2.5	.002
			17679		438.5	441.0	2.5	tr
			17680		441.0	444.0	3.0	tr
444.0		E.O.H.						

J. Adams

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-32 LENGTH 226.0'
 LOCATION 24+02W, 12+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 210° DIP -45°
 STARTED October 11/87 FINISHED October 12/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-45.0				
200.0	-43.5				

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

REMARKS PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	AU	
					FROM	TO			TOTAL	OZ/TON
0.0	7.5	CASING.								
7.5	120.7	SHEARED MAFIC VOLCANICS AND IRON FORMATION. - 7.5' - 82.8' - 10-15% quartz-carbonate veining, 2-5% pyrrhotite, pyrite.	17674		21.6	26.6	5.0		.024	
			17686		31.4	36.3	4.9		.010	
			17687		36.3	41.0	4.7		.052	
			17691		52.6	56.8	4.2		.052	Check
			17692		56.8	61.0	4.2		.018	
		- 82.8' - 120.7' - 2-3% quartz-carbonate veining, 2-5% pyrrhotite, trace-1% pyrite.							.012	
120.7	226.0	MAFIC FLOWS.								
	226.0	E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-32 LENGTH 226.0'
 LOCATION 24+00W, 12+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 210° DIP -45°
 STARTED October 11/87 FINISHED October 12/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	45.0				
200.0	43.5				

HOLE NO. KAS-87A-32 SHEET NO. 1 of 2

REMARKS PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	# SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	AU OZ/TON	OZ/TON	
0.0	7.5	Casing.								
7.5	120.7	Mafic Volcanics and Iron Formation (Sheared) - dark green to black to grey, fine to medium grained, striped to mottled. Modal percent: Quartz] 40-45% Feldspar] Hornblende 30-35% Grunerite 3-5% Magnetite tr-5% Garnet tr-1% Carbonate 2-3% Pyrrhotite 2-5% Pyrite tr-1% Minor pink porphyroblastic garnets, abundant discordant quartz-carbonate veins and stringers with 2-5% pyrrhotite and pyrite as disseminated grains and stringers, foliation at 38° to core axis at 13.0', 35° at 30.0', 53° at 51.0', 65° at 77.0', 61° at 97.0'. - 7.5' - 82.8' - felsic bands with 10-15% magnetite blebs, 10-15% quartz-carbonate veins as composite, banded or massive veins, 2-5% sulphides throughout. - 31.4' - 36.3' - banded - composite quartz-carbonate vein with 1-3% pyrite stringers, trace tourmaline. - 52.6' - 56.8' - irregular, mottled quartz-carbonate veining with magnetite, pyrrhotite and tourmaline.								
			17681	2-5	7.5 10.6 3.1			tr		
			17682	2-5	10.6 13.6 3.0			tr		
			17683	2-5	13.6 16.6 3.0			.002		
			17684	2-5	16.6 21.6 5.0			.002		
			17674	2-5	21.6 26.6 5.0			.024		
			17685	2-5	26.6 31.4 4.8			tr		
			17686	2-5	31.4 36.3 4.9			.010		
			17687	2-5	36.3 41.0 4.7			.052		
			17688	2-5	41.0 46.0 5.0			.052	Check	
			17689	2-5	46.0 48.1 2.1			.002		
			17690	2-5	48.1 52.6 4.5			tr		
			17691	2-5	52.6 56.8 4.2			tr		
			17692	2-5	56.8 61.0 4.2			.018		
								.012		

DIAMOND DRILL RECORD

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

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		TOTAL
7.5	120.7	Cont'd.	7693	2-5	61.0	65.7	4.7	.002
			7694	2-5	65.7	69.0	3.3	.002
			7695	2-5	69.0	71.0	2.0	tr
			7696	2-5	71.0	76.0	5.0	.004
			7697	2-5	76.0	81.0	5.0	tr
		- 82.8' - 120.7' - 2-3% quartz-carbonate stringers, 2-3% disseminated pyrrhotite and trace-1% pyrite as disseminated grains, blebs and fracture coatings.	7698	2-3	81.0	86.0	5.0	tr
			7699	2-3	86.0	91.0	5.0	tr
			6001	2-3	91.0	96.0	5.0	tr
			6002	2-3	96.0	101.0	5.0	tr
			6003	2-3	101.0	106.0	5.0	tr
			6004	2-3	106.0	111.0	5.0	tr
			6005	2-3	111.0	116.0	5.0	tr
			6006	2-3	116.0	120.7	4.7	tr
120.7	226.0	Mafic Flows - dark green to black, medium grained, massive. Modal percent: Amphibole 50-55% Plagioclase 40-45% Quartz] 1-3% Carbonate] Sulphides tr-0.5% Amphibolitic, few widely spaced fractures, disseminated grains and blebs of pyrite and pyrrhotite, foliation at 45° to core axis at 127.5', 46° at 191.0', 58° at 226.0'. - 138.8' - 147.0' - fine grained, schistose, 3-5% quartz-carbonate stringers. - 170.1' - 172.6' - as above.	6007	tr	120.7	125.7	5.0	tr
			6008	tr	138.8	142.0	3.2	tr
			6009	tr	142.0	147.0	5.0	tr
			6010	tr	169.0	173.0	5.0	tr
			6011	tr	186.0	191.0	5.0	tr
			6012	tr	206.0	211.0	5.0	tr
			6013	tr	221.0	226.0	5.0	.002
226.0		E.O.H.						

J. Adams

LANGRIDGES - TORONTO - 346-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-33 LENGTH 206.0'
 LOCATION 24+00W, 12+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED October 12/87 FINISHED October 12/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-47.0				
206.0	-41.8				

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

REMARKS PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	5.0	CASING.									
5.0	106.8	SHEARED MAFIC VOLCANICS AND IRON FORMATION. - 29.0' - 33.0' - quartz-carbonate vein, 1-3% pyrrhotite, pyrite. - 36.0' - 40.0' - as above. - 84.8' - 87.1' - quartz-carbonate vein, 1-2% pyrite. - 91.0' - 93.0' - as above.	6016 6020 6022 6023		13.0 26.0 33.0 36.0	16.0 29.0 36.0 40.0	3.0 3.0 3.0 4.0			.010 .020 .010 .036	
106.8	206.0	MAFIC VOLCANICS.	6046		193.3	197.3	4.0			.018	
	206.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-33 LENGTH 206.0'
 LOCATION 24+00W, 12+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 210° DIP -47°
 STARTED October 12/87 FINISHED October 12/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-47.0				
206.0	-41.8				

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

REMARKS PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	Au OZ/TON	OZ/TON
0.0	5.0	Casing.							
5.0	106.8	Sheared Mafic Volcanics and Iron Formation - dark green to black to grey, fine to medium grained, striped to mottled. Modal percent: Quartz } 40-45% Feldspar } Hornblende 30-35% Grunerite 3-5% Pyrrhotite 2-5% Carbonate 2-3% Magnetite tr-5% Garnet tr-1% Pyrite tr-1% Minor pink porphyroblastic garnets, abundant discordant quartz-carbonate veining with 1-3% pyrrhotite and pyrite as disseminated grains and stringers; foliation at 47° to core axis at 6.0', 42° at 17.0', 61° at 38.0', 58° at 51.0'; fractures at 8° to core axis at 35.5', 45° at 51.0'. - 29.0' - 33.0' - massive to banded, discordant quartz-carbonate veining with 1-3% pyrrhotite and pyrite. - 36.0' - 40.0' - as above.	6014		5.0 10.0 5.0			tr	
			6015		10.0 13.0 3.0			tr	
			6016		13.0 16.0 3.0			.010	
			6017		16.0 18.0 2.0			tr	
			6018		18.0 21.0 3.0			tr	
			6019		21.0 26.0 5.0			.002	
			6020		26.0 29.0 3.0			.020	
			6021		29.0 33.0 4.0			.004	
			6022		33.0 36.0 3.0			.010	
			6023		36.0 40.0 4.0			.036	
			6024		40.0 43.0 3.0			.002	
			6025		43.0 46.0 3.0			.002	
			6026		46.0 51.0 5.0			.004	
			6027		51.0 56.0 5.0			tr	
			6028		56.0 61.0 5.0			.002	
			6029		61.0 66.0 5.0			.002	
			6030		66.0 71.0 5.0			tr	
			6031		71.0 74.0 3.0			tr	
			6032		74.0 77.0 3.0			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-33

SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPH IDES	FOOTAGE			Au oz/ton					
					FROM	TO	TOTAL						
5.0	106.8	Cont'd.											
		- 77.0' - 81.0' - 3-5% quartz-carbonate stringers.	6033		77.0	81.0	5.0					tr	
			6034		81.0	84.8	3.8					tr	
		- 84.8' - 87.1' - clean quartz-carbonate vein, 1-2% fine grained pyrite on fractures.	6035		84.8	87.1	2.3					tr	
			6036		87.1	91.0	3.9					tr	
		- 91.0' - 93.0' - as above, mottled, 2-3% pyrrhotite in mafic inclusions.	6037		91.0	93.0	2.0					tr	
			6038		93.0	96.0	3.0					tr	
			6039		96.0	101.0	5.0					tr	
			6040		101.0	104.0	3.0					tr	
			6041		104.0	106.8	2.8					tr	
106.8	206.0	Mafic Flows - dark green to black, medium grained, massive. Modal percent: Amphibole 50-55% Plagioclase 40-45% Quartz] 1-2% Carbonate] Amphibolitic, few widely spaced fractures, foliation at 56° to core axis at 132.0', 52° at 196.5', fractures at 29° to core axis at 116.0'.											
		- 121.0' - 122.5' - 0.1-foot carbonate stringer, discordant.	6042		106.8	111.0	4.2					tr	
			6043		121.0	122.5	1.5					tr	
		- 155.4' - 158.4' - 3-5% quartz-carbonate stringers in schistose, fine grained horizon.	6044		155.4	158.4	3.0					.002	
			6045		188.8	193.3	4.5					tr	
		- 188.8' - 197.3' - as above.	6046		193.3	197.3	4.0					.018	
			6047		197.3	201.0	3.7					tr	
			6048		201.0	206.0	5.0					tr	
206.0		E.O.H.											

LANGRIGES - TORONTO - 346-1166

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-34 LENGTH 226.0'
 LOCATION 24+00W, 12+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 150° DIP -47°
 STARTED October 13/87 FINISHED October 13/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-47.0				
200.0	-38.5				

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

REMARKS PA786807

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	7.0	CASING.									
7.0	112.0	SHEARED MAFIC VOLCANICS AND IRON FORMATION - 5-10% magnetite, 2-5% pyrrhotite, trace-2% pyrite.	6052		21.0	26.0	5.0			.042	
			6055		33.5	36.9	3.4			.016	
			6057		40.3	45.3	5.0			.020	
			6063		66.0	71.0	5.0			.016	
112.0	226.0	MAFIC FLOWS.									
	226.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-34 LENGTH 226.0'
 LOCATION 24+00W, 12+50N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 150° DIP -47°
 STARTED October 13/87 FINISHED October 13/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-47.0				
200.0	-38.5				

HOLE NO. KAS-87A-34 SHEET NO. 1 of 3

REMARKS PA786807

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	7.0	Casing.									
7.0	112.0	Sheared Mafic Volcanics and Iron Formation - dark green to black to grey, fine to medium grained, striped to mottled. Modal percent: Quartz] 40-45% Feldspar] Hornblende 25-30% Magnetite 5-10% Grunerite 3-5% Pyrrhotite 2-5% Carbonate 2-3% Pyrite tr-2% Garnet tr-0.5% 3-5% quartz-carbonate veining with trace-5% pyrrhotite and pyrite, irregular, discordant, banded, clean with mafic inclusions, volcanics with 2-5% pyrrhotite as fine grained blebs and stringers, quartz-rich horizons with 5-10% magnetite blebs, foliation at 42° to core axis at 11.0', 45° at 33.5', 52° at 46.0', 57° at 72.0', 46° at 95.0', 45° at 112.0', fractures at 15° to core axis at 30.0', 46° at 72.0'. - 33.5' - 36.9' - banded, irregular quartz-carbonate vein. - 36.9' - 40.3' - silicified - cherty horizon; trace sulphide.	6049	2-5	7.0	11.0	4.0			tr	
			6050	2-5	11.0	16.0	5.0			tr	
			6051	2-5	16.0	21.0	5.0			.002	
			6052	2-5	21.0	26.0	5.0			.042	
			6053	2-5	26.0	31.0	5.0			tr	
			6054	2-5	31.0	33.5	2.5			tr	
			6055	2-5	33.5	36.9	3.4			.016	
			6056		36.9	40.3	3.4			.002	
			6057	2-5	40.3	45.3	5.0			.020	
			6058	2-5	45.3	48.3	3.0			.002	
			6059	2-5	48.3	51.0	2.7			.002	
			6060	2-5	51.0	56.0	5.0			.002	
			6061	2-5	56.0	61.0	5.0			tr	
			6062	2-5	61.0	66.0	5.0			.002	
			6063	2-5	66.0	71.0	5.0			.016	
			6064	2-5	71.0	76.0	5.0			tr	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-34

 SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		TOTAL	Au oz/ton			
					FROM	TO					
7.0	112.0	Cont'd.	6065	2-5	76.0	81.0	5.0				tr
			6066	2-5	81.0	86.0	5.0				tr
			6067	2-5	86.0	89.4	3.4				tr
		- 89.4' - 112.0' - 2-3% fine grained disseminated pyrrhotite blebs, 2-3% quartz-carbonate stringers.	6068	2-5	89.4	93.4	4.0				tr
			6069	2-5	93.4	97.0	3.6				.002
			6070	2-5	97.0	102.0	5.0				tr
			6071	2-5	102.0	107.0	5.0				tr
			6072	2-5	107.0	112.0	5.0				tr
112.0	226.0	Mafic Flows - dark green to black, medium grained, massive.	6073	tr	112.0	116.0	4.0				tr
		Modal percent: Amphibole 50-55%	6074	tr	116.0	121.0	5.0				tr
		Plagioclase 40-45%	6075	tr	121.0	126.0	5.0				tr
		Quartz] 1-2%	6076	tr	126.0	131.0	5.0				tr
		Carbonate]	6077	tr	131.0	136.0	5.0				tr
		Pyrrhotite tr-2%	6078	tr	136.0	141.0	5.0				tr
		Amphibolitic, few widely spaced fractures and quartz-carbonate stringers, foliation at 41° to core axis at 132.0', 52° at 168.0', 54° at 202.0', 60° at 226.0'.	6079	tr	141.0	146.0	5.0				tr
			6080	tr	146.0	151.0	5.0				tr
			6081	tr	151.0	156.0	5.0				tr
			6082	tr	156.0	161.0	5.0				tr
			6083	tr	161.0	166.0	5.0				tr
		- 166.0' - 167.9' - fine grained, schistose, 3-5% quartz-carbonate stringers, trace pyrite.	6084	tr	166.0	167.9	1.9				tr
			6085	tr	167.9	171.0	3.1				tr
			6086	tr	171.0	176.0	5.0				tr
			6087	tr	176.0	181.0	5.0				tr
			6088	tr	181.0	186.0	5.0				tr
			6089	tr	186.0	189.9	3.9				tr
		- 189.9' - 191.4' - irregular quartz-carbonate vein, clean.	6090	tr	189.9	191.4	1.5				tr
			6091	tr	191.4	193.7	2.3				tr
		- 193.7' - 204.9' - fine grained, schistose, 3-5% quartz-carbonate, 1-2% pyrrhotite and pyrite, trace-0.5% chalcopyrite.	6092	1-2	193.7	198.7	5.0				tr
			6093	1-2	198.7	202.4	3.7				tr
			6094	1-2	202.4	204.9	2.5				tr
			6095	tr	204.9	207.9	3.0				tr
			6096	tr	207.9	212.9	5.0				tr
			6097	tr	212.9	216.4	3.5				tr
			6098	tr	216.4	219.4	3.0				.002
			6099	tr	219.4	222.1	2.7				tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-34

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL		Au oz/ton			
112.0	226.0	Cont'd. - 222.1' - 224.1' - clean quartz-carbonate vein with trace- 0.5% pyrite on fractures.	6100	tr-.5	222.1	226.0	3.9			tr		
	226.0	E.O.H.										

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-35 LENGTH 505.0'
 LOCATION 12+02E, 07+28N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 325° DIP -45°
 STARTED October 15/87 FINISHED October 17/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-45.0				
200.0	-39.5				
400.0	-36.0				
505.0	-34.2				

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

REMARKS PA786835

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	%	oz/TON	oz/TON
0.0	13.5	CASING.									
13.5	28.9	FELSIC TO INTERMEDIATE TUFF.									
28.9	49.9	FELSIC TUFF.									
49.9	76.9	FELSIC TO INTERMEDIATE TUFF.									
76.9	141.4	FELSIC CRYSTAL TUFF.									
141.4	174.3	FELSIC TUFF.									
174.3	217.4	FELSIC TO INTERMEDIATE TUFF.									
217.4	344.9	MAFIC FLOWS.									
344.9	355.0	MAFIC INTRUSIVE.									
355.0	373.7	MAFIC FLOWS.	6272		366.0	370.2	4.2			.016	
			6273		370.2	373.7	3.5			.272	
										.278	
373.7	375.0	MAFIC INTRUSIVE.									
375.0	401.1	MAFIC VOLCANICS AND IRON FORMATION.	6278		386.0	391.0	5.0			.020	
			6281		397.0	401.1	4.1			.018	
401.1	403.3	MAFIC INTRUSIVE.									
403.3	433.2	MAFIC FLOWS.									
433.2	447.6	FELSIC TUFF.									
447.6	505.0	GREYWACKE.									
	505.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-35 LENGTH 505.0'
 LOCATION 12+02E, 07+28N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 325° DIP -45°
 STARTED October 15/87 FINISHED October 17/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-45.0				
200.0	-39.5				
400.0	-36.0				
505.0	-34.2				

HOLE NO. KAS-87A-35 SHEET NO. 1 of 6

REMARKS PA786835

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	13.5	Casing.									
13.5	28.9	Felsic to Intermediate Tuff - dark grey to black, fine grained, banded to laminated. Modal percent: Quartz] 30-35% Feldspar] Amphibole 15-20% Chlorite 15-20% Sericite 10-15% Biotite 3-5% Carbonate 1-3% Garnet tr-2% Carbonate as fracture fillings, minor brecciated bands to 0.1-foot. 1-3% discordant quartz-carbonate stringers, foliation at 28° to core axis across interval.	6201		13.5	16.0	2.5			.002	
			6202		16.0	21.0	5.0			tr	
			6203		21.0	26.0	5.0			tr	
			6204		26.0	28.9	2.9			tr	
28.9	49.9	Felsic Tuff - light to dark grey to green, fine grained, laminated to banded. Modal percent: Quartz 55-60% Feldspar] Sericite] 25-30% Tremolite 5-10% Carbonate 1-2% Pyrite tr-1% Rhyolitic to rhyodacitic tuff, 3-5% quartz-carbonate stringers and cherty bands - trace tourmaline and garnet, foliation at 32° to core axis at 46.0', irregular fracturing at 50° to core axis at 39.0'.	6205	tr-1	28.9	31.0	1.1			tr	
			6206	tr-1	31.0	36.0	5.0			tr	
			6207	tr-1	36.0	41.0	5.0			tr	
			6208	tr-1	41.0	46.0	5.0			tr	
			6209	tr-1	46.0	49.9	3.9			tr	
49.9	76.9	Felsic to Intermediate Tuff - typical, foliation at 32° to core									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-35

SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton		
					FROM	TO	TOTAL			
49.9	76.9	Cont'd. axis at 72.0', fractures at 15° to core axis at 62.5'. - 49.9' - 53.0' - 2-3% anhedral disseminated porphyroblastic garnets. - 53.0' - 54.6' - fracturing and minor compound dislocations. - 60.0' - 65.5' - fracturing, mylonitic, yellowish-green, quartz-carbonate-epidote infillings.	6210		49.9	53.0	3.1			tr
			6211		53.0	56.0	3.0			tr
			6212		56.0	60.0	4.0			tr
			6213		60.0	62.5	2.5			tr
			6214		62.5	65.5	3.0			tr
			6215		65.5	68.0	2.5			tr
			6216		68.0	72.0	4.0			tr
			6217		72.0	76.9	4.9			tr
76.9	141.4	Felsic Crystal Tuff - black fine grained groundmass with white medium grained quartz-feldspar crystals, finely laminated to banded. Modal percent: Quartz] 65-70% Feldspar] Sericite 15-20% Chlorite 3-5% Amphibole 3-5% Carbonate tr-2% Abundant medium grained subhedral quartz-feldspar crystals, 1-3% quartz-carbonate stringers, foliation at 40° to core axis at 96.0', 33° at 116.0', 32° at 141.0', fracturing at 32° to core axis at 139.0'. - 117.6' - 129.5' - fracturing and epidotization, quartz-carbonate fracture fillings.	6218		76.9	81.0	4.1			tr
			6219		96.0	101.0	5.0			tr
			6220		117.6	121.0	3.4			.002
			6221		121.0	126.0	5.0			tr
			6222		126.0	129.5	3.5			tr
			6223		136.4	142.4	5.0			tr
141.4	174.3	Felsic Tuff - typical, foliation at 36° to core axis at 166.0'. - 146.0' - 151.2' - fracturing, quartz-carbonate-epidote stringers with 1-2% disseminated <u>tourmaline</u> and trace-0.5% pyrite.	6224		141.4	146.0	4.6			tr
			6225	tr-.5	146.0	148.5	2.5			tr
			6226	tr-.5	148.5	151.2	2.7			tr
			6227		151.2	156.0	4.8			tr
			6228		156.0	161.0	5.0			tr
			6229		161.0	165.3	4.3			tr

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-35

 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			Au oz/ton			
					FROM	TO	TOTAL				
141.4	174.3	Cont'd. - 165.3' - 166.3' - 0.1-foot quartz-carbonate-tourmaline vein	6230		165.3	166.3	1.0				tr
			6231		166.3	168.1	1.8				tr
		- 168.1' - 174.3' - quartz-carbonate-epidote fracturing, 1-2% disseminated pyrite.	6232	1-2	168.1	171.1	3.0				tr
			6233	1-2	171.1	174.3	3.2				tr
174.3	217.4	Felsic to Intermediate Tuff - typical, minor quartz crystal tuff, trace-1% disseminated pyrite, foliation at 32° to core axis at 176.0', 30° at 201.0'. - 211.7' - 217.4' - 3-5% tourmaline bands, 1-2% quartz-carbonate stringers, chloritic.	6234	tr-1	174.3	179.3	5.0				tr
			6235	tr-1	211.7	214.4	2.7				tr
			6236	tr-1	214.4	217.4	3.0				tr
217.4	344.9	Mafic Flows - dark green to black, fine to medium grained, massive to schistose. Modal percent: Amphibole 50-55% Plagioclase 35-40% Quartz Carbonate] 1-3% Pyrrhotite] Pyrite] 1-2% Amphibolitic, quartz-carbonate-tourmaline stringers, foliation at 38° to core axis at 236.0', 37° at 238.0', 40° at 272.0', 38° at 303.0', fracturing at 43° to core axis at 231.0', 45° at 236.0', 40° at 238.0', 12° at 321.0', 47° at 323.0'. - 217.4' - 219.4' - 2-3% quartz-carbonate stringers.	6237		217.4	219.4	2.0				tr
			6238		219.4	223.0	3.6				tr
			6239		223.0	228.0	5.0				tr
		- 228.0' - 230.0' - quartz-carbonate-epidote-tourmaline and tourmaline stringers, trace-1% pyrite and and trace fine grained, disseminated arsenopyrite, chloritic, schistose.	6240	tr-1	228.0	230.0	2.0				.006
			6241		230.0	234.0	4.0				tr
			6242		234.0	238.0	4.0				tr
		- 238.0' - 241.0' - 2-3% quartz-carbonate stringers.	6243		238.0	241.0	3.0				tr
			6244		241.0	244.8	3.8				tr
		- 244.8' - 250.5' - irregular quartz-carbonate-tourmaline-2-3% pyrrhotite, coarse grained euhedral albite on contacts.	6245	2-3	244.8	248.0	3.2				tr
			6246	2-3	248.0	250.5	2.5				tr

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-35

 SHEET NO. 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS	
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au Oz/Ton	
					FROM	TO		
217.4	344.9	Cont'd.						
		- 263.8' - 269.8' - 2-3% quartz-carbonate stringers.	6247		263.8	266.8	3.0	tr
			6248		266.8	269.8	3.0	tr
		- 279.0' - 293.5' - 2-3% quartz-carbonate-epidote or <u>tourmaline</u> - 2-3% pyrrhotite.	6249	2-3	279.0	282.0	3.0	tr
			6250	2-3	282.0	286.0	4.0	tr
			6251	2-3	286.0	291.0	5.0	tr
			6252	2-3	291.0	293.5	2.5	tr
		- 293.5' - 307.5' - 5-7% quartz-carbonate veining, 1-2% disseminated pyrrhotite, pyrite, wispy chlorite-biotite bands.	6253	1-2	293.5	296.0	2.5	tr
			6254	1-2	296.0	301.0	5.0	.002
			6255	1-2	301.0	306.0	5.0	tr
			6256	1-2	306.0	307.5	1.5	.002
			6257		307.5	311.0	3.5	tr
			6258		311.0	316.0	5.0	tr
			6259		316.0	318.7	2.7	tr
		- 318.7' - 344.9' - 3-5% quartz-carbonate-tourmaline, trace-2% tourmaline grains, 0.5-2% pyrrhotite and pyrite, pyrite as stringers and blebs and disseminated grains.	6260	.5-2	318.7	321.0	2.3	.006
			6261	.5-2	321.0	326.0	5.0	tr
344.9	355.0	<u>Mafic Intrusive</u> - green to black to white, medium grained, massive	6262	.5-2	326.0	331.0	5.0	tr
		Modal percent: Amphibole 40-45%	6263	.5-2	331.0	336.0	5.0	tr
		Carbonate 15-20%	6264	.5-2	336.0	341.0	5.0	tr
		Chlorite 15-20%	6265	.5-2	341.0	344.9	3.9	tr
		Biotite 5-10%						
		Plagioclase 3-5%						
		Speckled, medium grained biotite-chlorite flakes in a recrystallized, fine grained groundmass, distorted schistose horizons crosscutting intrusive (shearing?) with 10-15% <u>tourmaline</u> , 3-5% pyrite-intermixed and intergrown magnetite blebs, 2-3% quartz-carbonate stringers.	6266	3-5	344.9	348.9	4.0	tr
			6267	3-5	348.9	352.0	3.1	tr
			6268	3-5	352.0	355.0	3.0	tr
355.0	373.7	<u>Mafic Flows</u> - as above (as per 318.7' - 344.9'), foliation at 38° to core axis at 372.0'.	6269	.5-2	355.0	358.0	3.0	tr
			6270	.5-2	358.0	361.0	3.0	tr
			6271	.5-2	361.0	366.0	5.0	tr
		- 370.2' - 373.7' - 0.1-foot quartz-carbonate vein with 2-3% pockets and stringers of euhedral pyrite, subparallel to core axis, trace-0.5%	6272	.5-2	366.0	370.2	4.2	.016
			6273	.5-2	370.2	373.7	3.5	.272
								.278
								Check

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-35

 SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton				
					FROM	TO	TOTAL					
355.0	373.7	Cont'd. disseminated tourmaline.										
373.7	375.0	Mafic Intrusive - as above, contacts at 52° to core axis at 373.7' 47° at 375.0'.	6274		373.7	375.0	1.3		.004			
375.0	401.1	Mafic Volcanics and Iron Formation - black to green to grey, fine to medium grained, crudely banded. Modal percent: Amphibole 35-40% Quartz 25-30% Sericite 15-20% Chlorite 3-5% Garnet tr-3% Carbonate 1-2% Magnetite 1-2% Pyrrhotite] Pyrite] 0.5-1%	6275 6276 6277 6278 6279 6280 6281	.5-1 .5-1 .5-1 .5-1 .5-1 .5-1 .5-1	375.0 378.0 381.0 386.0 391.0 394.0 397.0	378.0 381.0 386.0 391.0 394.0 397.0 401.1	3.0 3.0 5.0 5.0 3.0 3.0 4.1		tr tr tr tr tr tr .018			
401.1	403.3	Felsic horizons with disseminated magnetite, mafic horizons - amphibolite with disseminated sulphides and pink porphyroblastic garnets, 1-3% quartz-carbonate stringers with grunerite haloes along contacts, foliation at 33° to core axis at 381.0', closely spaced fracture set at 68° to core axis at 400.0'. Mafic Intrusive - typical; contacts at 41° to core axis at 401.1', 58° at 403.3'.	6282		401.1	403.3	2.2		.002			
403.3	433.2	Mafic Flows - medium to coarse grained amphibolitic. - 428.9' - 433.2' - 2-3% quartz-carbonate veining, discordant banded. Fracturing at 48° to core axis at 411.0', 30° at 429.0'.	6283 6284		403.3 428.9	406.0 433.2	2.7 4.3		.004 tr			
433.2	447.6	Felsic Tuff - as above, 1-2% quartz-carbonate stringers, interbedded with lower unit near contact, foliation at 45° to core axis at 446.0'.	6285 6286		433.2 444.6	436.0 447.6	2.8 3.0		tr tr			
447.6	505.0	Greywacke - dark grey to white, fine grained groundmass as with medium grained eyes, laminated.	6287 6288		447.6 476.0	451.0 481.0	3.4 5.0		tr tr			

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-35

SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	Au oz/ton
					FROM	TO		
447.6	505.0	Cont'd. Modal percent: Quartz 30-35% Sericite 15-20% Feldspar 10-15% Carbonate 10-15% Chlorite 5-10% Amphibole 3-5% Feldspar and carbonate as medium grained eyes, probably intermixed epiclastics and pyroclastics, foliation at 38° to core axis at 466.0', 39° at 486.0', 43° at 505.0'.	6289		502.0	505.0	3.0	tr
	505.0	E.O.H.						

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-36 LENGTH 466.0'
 LOCATION 12+00E, 07+30N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 360° DIP -45°
 STARTED October 17/87 FINISHED October 19/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-45.0				
200.0	-42.5				
466.0	-36.8				

HOLE NO. KAS-87A-36 SHEET NO. 1 of 1

REMARKS PA786835

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	AU OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	11.0	CASING.									
11.0	24.8	FELSIC TO INTERMEDIATE TUFF.									
24.8	37.8	FELSIC TUFF.									
37.8	61.3	FELSIC TO INTERMEDIATE TUFF.									
61.3	123.7	FELSIC CRYSTAL TUFF.									
123.7	208.0	FELSIC TO INTERMEDIATE TUFF.									
208.0	285.8	MAFIC FLOWS.	6342		281.0	285.8	4.8			.014	
285.8	295.0	MAFIC INTRUSIVE.	6343		285.8	290.5	4.7			.036	
295.0	300.7	MAFIC FLOWS.									
300.7	340.1	MAFIC VOLCANICS AND IRON FORMATION.	6348		306.0	311.0	5.0			.012	
			6351		321.0	326.0	5.0			.020	
			6352		326.0	331.0	5.0			.010	
340.1	340.6	MAFIC INTRUSIVE.									
340.6	344.1	MAFIC VOLCANICS AND IRON FORMATION.									
344.1	346.1	MAFIC INTRUSIVE.									
346.1	383.5	AMPHIBOLITE.									
383.5	396.0	MAFIC FLOWS.									
396.0	400.3	FELSIC TUFF.									
400.3	423.6	SILTSTONE AND GREYWACKE.									
423.6	425.9	MAFIC INTRUSIVE.									
425.9	466.0	SILTSTONE AND GREYWACKE.									
466.0	466.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-36 LENGTH 466.0'
 LOCATION 12+00E, 07+30N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 360° DIP -45°
 STARTED October 17/87 FINISHED October 19/87

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	-45.0				
200.0	-42.5				
466.0	-36.8				

HOLE NO. KAS-87A-36 SHEET NO. 1 of 5
 REMARKS PA786835

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	AU OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	11.0	Casing.									
11.0	24.8	Felsic to Intermediate Tuff - dark grey to black, fine grained, banded to laminated. Modal percent: Quartz] 30-35% Feldspar] Amphibole 15-20% Chlorite 15-20% Sericite 10-15% Biotite 3-5% Carbonate 1-3% Garnet tr-2% Carbonate as fracture fillings, 1-3% discordant quartz-carbonate stringers, foliation at 32° to core axis at 11.0'.	6290 6291 6292		11.0 16.0 21.0	16.0 21.0 24.8	5.0 5.0 3.8			tr tr tr	
24.8	37.8	Felsic Tuff - light to dark grey to green, fine grained, laminated to banded. Modal percent: Quartz 55-60% Feldspar] Sericite] 25-30% Tremolite 5-10% Carbonate 1-2% Rhyolitic to rhyodacitic tuff, 3-5% quartz-carbonate stringers and cherty bands, foliation at 35° to core axis at 26.0'.	6293 6294 6295		24.8 29.8 34.8	29.8 34.8 37.8	5.0 5.0 3.0			tr tr tr	
37.8	61.3	Felsic to Intermediate Tuff - as above, foliation at 34° to core axis at 46.0'. - 49.9' - 50.5' - rock flour and fragments.	6296 6297 6298 6299 6300 6301 6302		37.8 42.8 46.0 49.9 50.5 55.5 58.5	42.8 46.0 49.9 50.5 55.5 58.5 61.3	5.0 3.2 3.9 0.6 5.0 3.0 2.8			tr tr tr tr tr tr tr	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-36

 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton		
					FROM	TO	TOTAL			
61.3	123.7	Felsic Crystal Tuff - black fine grained groundmass with white medium grained quartz-feldspar crystals, finely laminated to banded. Modal percent: Quartz] 65-70% Feldspar] 3-5% Sericite] 15-20% Chlorite] 3-5% Amphibole] 3-5% Carbonate] tr-2% Abundant medium grained, subhedral quartz-feldspar crystals, 1-3% quartz-carbonate stringers, foliation at 32° axis at 61.5', 32° at 86.0', 33° at 116.0'. - 89.0' - 111.7' - brecciated-fractured with silicification and epidotization, 1-2% quartz-tourmaline stringers.	6303		61.3	66.0	4.7			tr
			6304		66.0	71.0	5.0			tr
			6305		71.0	76.0	5.0			tr
			6306		76.0	81.0	5.0			tr
			6307		81.0	86.0	5.0			tr
			6308		86.0	89.0	3.0			tr
			6309		89.0	92.0	3.0			tr
			6310		92.0	96.0	4.0			tr
			6311		96.0	101.0	5.0			tr
			6312		101.0	106.0	5.0			tr
			6313		106.0	109.0	3.0			tr
			6314		109.0	111.7	2.7			tr
			6315		111.7	116.0	4.3			tr
			6316		116.0	121.0	5.0			tr
			6317		121.0	123.7	2.7			tr
123.7	208.0	Felsic to Intermediate Tuff - dark grey to black, laminated to banded, typical, foliation at 34° to core axis at 140.0', 21° at 176.0', 31° at 196.0', fracturing at 45° to core axis at 155.5'. - 132.8' - 133.5' - quartz-tourmaline veining, discordant. - 140.8' - 142.5' - as above with trace-1% pyrite. - 150.7' - 151.7' - as above. - 153.5' - 155.5' - as above with epidote and tourmaline bands.	6318		123.7	128.7	5.0			tr
			6319		128.7	132.8	4.1			tr
			6320		132.8	136.0	3.2			tr
			6321		136.0	140.8	4.8			tr
			6322	tr-1	140.8	142.5	1.7			tr
			6323		142.5	146.0	3.5			tr
			6324		146.0	150.7	4.7			tr
			6325		150.7	155.5	4.8			tr
			6326		155.5	160.5	5.0			tr
			6327		160.5	165.5	5.0			tr
			6328		165.5	170.5	5.0			.002
			6329		170.5	173.5	3.5			tr
			6330		173.5	177.0	3.5			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-36

SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton			
					FROM	TO				TOTAL
123.7	208.0	Cont'd. - 177.0' - 178.0' - 0.1-foot, concordant quartz vein with <u>tourmaline</u> band.	6331		177.0	181.0	4.0		tr	
			6332		181.0	186.0	5.0		tr	
			6333		186.0	191.0	5.0		tr	
			6334		191.0	196.0	5.0		tr	
			6335		196.0	201.0	5.0		tr	
			6336		201.0	206.0	5.0		tr	
			6337		206.0	208.0	2.0		tr	
208.0	285.8	Mafic Flows - dark green to black, fine grained schistose to medium grained, massive. Modal percent: Amphibole 45-50% Plagioclase 40-45% Quartz] 1-3% Carbonate] Pyrrhotite 1-2% Pyrite tr-0.5% Amphibolitic, 1-3% quartz-carbonate stringers, sulphides as fine disseminated grains, foliation at 34° to core axis at 226.0', 38° at 267.0'. - 273.7' - 285.8' - 2-3% pyrrhotite in medium grained massive flows, last 3.0 feet distorted near contact with mafic intrusive, 5-7% quartz-tourmaline veining - 1-2% pyrite, chlorite schist on contact.	6338	1-2	208.0	211.0	3.0		tr	
			5401		211.0	216.0	5.0		tr	
			6339	1-2	241.0	246.0	5.0		tr	
			6340	2-3	273.7	276.0	2.3		tr	
			6341	2-3	276.0	281.0	5.0		tr	
			6342	2-3	281.0	285.8	4.8		.014	
285.8	295.0	Mafic Intrusive - green to black to white, medium grained, massive. Modal percent: Amphibole 40-45% Carbonate 15-20% Chlorite 15-20% Biotite 5-10% Plagioclase 3-5% Speckled, medium grained biotite-chlorite grains in a recrystallized fine grained groundmass, contacts at 73° to core axis at 285.8', 80° at 295.0'.	6343	1-2	285.8	290.5	4.7		.036	
			6344	1-2	290.5	295.0	4.5		tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-36

SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		TOTAL
295.0	300.7	<u>Mafic Flows</u> - as per 273.7' - 285.8'.	6345	2-3	295.0	298.0	3.0	.004
			6346	2-3	298.0	300.7	2.7	tr
300.7	340.1	<u>Mafic Volcanics and Iron Formation</u> - black to green to grey, fine to medium grained, crudely banded. Modal percent: Amphibole 35-40% Quartz 25-30% Sericite 10-15% Chlorite 3-5% Garnet 1-3% Pyrrhotite] 1-3% Pyrite] Magnetite 1-2% Carbonate 1-2%	6347	1-3	300.7	306.0	5.3	.002
			6348	1-3	306.0	311.0	5.0	.012
			6349	1-3	311.0	316.0	5.0	tr
			6350	1-3	316.0	321.0	5.0	tr
			6351	1-3	321.0	326.0	5.0	.020
			6352	1-3	326.0	331.0	5.0	.010
			6353	1-3	331.0	336.0	5.0	.004
			6354	1-3	336.0	340.1	4.1	.006
		Magnetite and garnet disseminated in felsic bands, pyrrhotite and pyrite as disseminated grains in mafic volcanic, 1-3% discordant quartz-carbonate stringers with grunerite haloes, foliation at 33° to core axis at 308.0', 28° at 336.0'. - 300.7' - 308.0' - 1-3% quartz-tourmaline - 1-2% pyrite stringers.						
340.1	340.6	<u>Mafic Intrusive</u> - typical.	6355		340.1	340.6	0.5	.002
340.6	344.1	<u>Mafic Volcanics and Iron Formation</u> - typical.	6356		340.6	344.1	3.5	tr
344.1	346.1	<u>Mafic Intrusive</u> - typical, with coarse grained corroded pseudo-morphs of chlorite after pyroxene, contacts at 48° to core axis.	6357		344.1	346.1	2.0	tr
346.1	383.5	<u>Amphibolite</u> - dark green to black, coarse grained, mottled to massive. Modal percent: Amphibole 50-55% Plagioclase 40-45%	6358		346.1	351.0	4.9	tr
		Amphibolitic texture, few widely spaced fractures.	6359		380.0	383.5	3.5	tr
383.5	396.0	<u>Mafic Flows</u> - fine to medium grained, typical, 1-2% pyrite as	6360	1-2	383.5	387.0	3.5	tr

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-36

 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	oz Au / Ton		
					FROM	TO	TOTAL				
383.5	396.0	Cont'd. fracture coatings, fractures at 51° to core axis at 383.5'. - 385.0' - 387.0' - quartz vein with 1-2% disseminated pyrite and pyrrhotite in inclusions of mafic volcanic or as stringers. - 388.3' - 390.3' - as above. - 390.3' - 396.0' - 3-5% banded, quartz-carbonate-tourmaline stringers - 1-2% disseminated pyrrhotite.	6361	1-2	387.0	390.3	3.3		.002		
			6362	1-2	390.3	393.0	2.7		tr		
			6363	1-2	393.0	396.0	3.0		tr		
396.0	400.3	Felsic Tuff - typical, interbedded with siltstones near contact.	6364		396.0	400.3	4.3		tr		
400.3	423.6	Siltstone and Greywacke - dark grey to white to brown, siltstones well laminated - bedded, greywacke laminated with abundant medium grained eyes in fine grained groundmass. Modal percent: Quartz 30-35% Sericite 15-20% Biotite 15-20% Feldspar 10-15% Carbonate 5-10% Feldspar, quartz and carbonate eyes in fine grained biotite-quartz or quartz-sericite matrix, finely laminated, foliation at 38° to core axis at 406.0'.	6365		400.3	405.3	5.0		tr		
			6366		418.6	423.6	5.0		tr		
423.6	425.9	Mafic Intrusive - typical, contact at 56° to core axis at 425.9', 37° at 423.6'.	6367		423.6	425.9	2.3		tr		
425.9	466.0	Siltstone to Greywacke - as above, foliation at 41° to core axis at 456.0', 35° at 466.0', fractures at 48° to core axis at 446.0'. - 440.7' - 444.7' - 2-3% quartz-carbonate veining. - 449.0' - 452.7' - 1-2% quartz-carbonate stringers infilling fractures.	6368		425.9	430.9	5.0		tr		
			6369		440.7	444.7	4.0		tr		
			6370		444.7	449.0	4.3		tr		
			6371		449.0	452.7	3.7		tr		
			6372		461.0	466.0	5.0		tr		
466.0		E.O.H.									

LANGRIDDIES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-37 LENGTH 526.0'
 LOCATION 12+00E, 07+30N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 30° DIP -45°
 STARTED October 19/87 FINISHED October 20/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-45.0				
200.0	-41.3				
400.0	-38.5				
526.0	-36.8				

HOLE NO. KAS-87A-37 SHEET NO. 1 of 1

REMARKS PA786835

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	12.0	CASING.									
12.0	23.3	FELSIC TO INTERMEDIATE TUFF.									
23.3	36.0	FELSIC TUFF.									
36.0	44.5	FELSIC TO INTERMEDIATE TUFF.									
44.5	68.5	FELSIC TUFF.									
68.5	131.9	FELSIC CRYSTAL TUFF.									
131.9	246.6	FELSIC TO INTERMEDIATE TUFF.									
246.6	289.6	MAFIC FLOWS.									
289.6	295.5	MAFIC INTRUSIVE.									
295.5	308.0	MAFIC FLOWS.									
308.0	310.2	MAFIC INTRUSIVE.									
310.2	347.6	MAFIC FLOWS.									
347.6	356.4	MAFIC INTRUSIVE.									
356.4	459.3	MAFIC FLOWS.									
459.3	477.9	FELSIC TUFF.	6449		456.3	459.3	3.0			.052	
477.9	523.0	SILTSTONE.								.048	Check
523.0	526.0	MAFIC FLOWS.									
	526.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-37 LENGTH 526.0'
 LOCATION 12+00E, 07+30N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 30° DIP -45°
 STARTED October 19/87 FINISHED October 20/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-45.0				
200.0	-41.3				
400.0	-38.5				
526.0	-36.8				

HOLE NO. KAS-87A-37 SHEET NO. 1 of 5

REMARKS PA786835

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	%	AU OZ/TON	OZ/TON
0.0	12.0	Casing.									
12.0	23.3	Felsic to Intermediate Tuff - dark grey to black, fine grained, banded to laminated. Modal percent: Quartz] 30-35% Feldspar] Amphibole 15-20% Chlorite 15-20% Sericite 10-15% Biotite 3-5% Carbonate 1-3% Garnet tr-2% Carbonate as fracture fillings, 1-3% discordant quartz-carbonate stringers, foliation at 29° to core axis at 15.0'.	6373 6374 6375		12.0 16.0 21.0	16.0 21.0 23.3	4.0 5.0 2.3			tr tr tr	
23.3	36.0	Felsic Tuff - light to dark grey to green, fine grained, fine grained, laminated to banded. Modal percent: Quartz] 55-60% Feldspar] 25-30% Sericite] Tremolite 5-10% Carbonate 1-2% Pyrite tr-1% Rhyolitic to rhyodacitic tuff, 2-3% quartz-carbonate stringers, cherty bands - trace <u>tourmaline</u> and garnet.	6376 6377 6378	tr-1 tr-1 tr-1	23.3 26.0 31.0	26.0 31.0 36.0	2.7 5.0 5.0			tr tr tr	
36.0	44.5	Felsic to Intermediate Tuff - typical, 2-3% garnet, 1-2% quartz-carbonate stringers, foliation at 27° to core axis at 36.5', fractures at 35° to core axis at 36.5'.	6379 6380		36.0 41.0	41.0 44.5	5.0 3.5			tr tr	

LANGRIDDGES - TORONTO - 36E-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-37

SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		TOTAL	Au oz/ton		
				FROM	TO					
44.5	68.5	Felsic Tuff - as above, 2-3% quartz-carbonate stringers, foliation at 31° to core axis at 56.0'.	6381		44.5	49.5	5.0			tr
			6382		49.5	54.5	5.0			tr
			6383		54.5	59.5	5.0			tr
			6384		59.5	64.5	5.0			tr
			6385		64.5	68.5	4.0			tr
68.5	131.9	Felsic Crystal Tuff - black, fine grained groundmass with white medium grained quartz-feldspar crystals, finely banded to laminated. Modal percent: Quartz] 65-70% Feldspar] Sericite 15-20% Chlorite 3-5% Amphibole 3-5% Carbonate tr-2%	6386		68.5	71.0	2.5			tr
			6387		71.0	76.0	5.0			tr
			6388		76.0	81.0	5.0			tr
			6389		81.0	86.0	5.0			tr
			6390		86.0	91.0	5.0			tr
			6391		91.0	96.0	5.0			tr
			6392		96.0	101.0	5.0			tr
			6393		101.0	106.0	5.0			tr
			6394		106.0	109.0	2.0			tr
			6395		109.0	111.7	2.7			tr
		Abundant medium grained subhedral quartz-feldspar crystals, 2-3% quartz-carbonate and quartz-tourmaline stringers, foliation at 30° to core axis at 79.0', 21° at 116.0', fracture at 36° to core axis at 79.0'. - 111.7' - 128.4' - fractured, silicified with fine grained epidote, 0.5-1% fine pyrite films on fractures.	6396	.5-1	111.7	116.0	4.3			tr
			6397	.5-1	116.0	121.0	5.0			tr
			6398	.5-1	121.0	126.0	5.0			tr
			6399	.5-1	126.0	128.4	2.4			tr
			6400		128.4	131.9	3.5			tr
131.9	246.6	Felsic to Intermediate Tuff - finely banded, as above, foliation at 28° to core axis at 144.0', 35° at 176.0', 30° at 211.0', 36° at 246.0'. - 144.0' - 151.7' - minor fracturing and brecciation, quartz-epidote-carbonate fracture fillings.	6401		131.9	136.0	4.1			tr
			6402		136.0	141.0	5.0			tr
			6403		141.0	144.0	3.0			tr
			6404		144.0	147.0	3.0			tr
			6405		147.0	151.7	4.7			tr
			6406		151.7	156.0	4.3			tr
			6407		156.0	161.0	5.0			tr
			6408		161.0	166.0	5.0			tr
			6409		166.0	169.0	3.0			tr
			6410		169.0	171.9	2.9			tr

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS LAKE

 HOLE NO. KAS-87A-37

 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		G	S	Fe	Cu	
				FROM	TO	TOTAL					
131.9	246.6	Cont'd. - 171.9' - 173.0' - banded to discordant, quartz-tourmaline and quartz-carbonate stringers. - 176.0' - 178.0' - as above. - 180.0' - 181.0' - 0.1-foot quartz-tourmaline stringer with 1-2% pyrite bands. - 184.0' - 185.0' - as above.	6411		171.9	173.0	1.1				tr
			6412		173.0	176.0	3.0				tr
			6413	1-2	176.0	181.0	5.0				tr
			6414		181.0	184.0	3.0				tr
			6415	1-2	184.0	186.0	2.0				tr
			6416		186.0	191.0	5.0				tr
			6417		216.0	221.0	5.0				tr
			6418		241.6	246.6	5.0				tr
246.6	289.6	Mafic Flows - dark green to black, fine to medium grained, massive to weakly schistose. Modal percent: Amphibole 50-55% Plagioclase 35-40% Quartz] Carbonate] 1-3% Pyrrhotite] Pyrite] 1-2% Amphibolitic, 1-3% quartz-carbonate stringers, foliation at 28° to core axis at 264.0', fractures at 61° to core axis at 264.0'. - 246.6' - 256.0' - minor brecciation with mauve coloured quartz-carbonate infilling. - 262.9' - 269.0' - 3-5% quartz-carbonate veining.	6419	1-2	246.6	251.0	4.4				tr
			6420	1-2	251.0	256.0	5.0				tr
			6421	1-2	256.0	259.0	3.0				tr
			6422	1-2	259.0	262.9	3.9				tr
			6423	1-2	262.9	266.0	3.1				tr
			6424	1-2	266.0	269.0	3.0				tr
			6425	1-2	269.0	274.0	5.0				tr
			6426	1-2	274.0	279.0	5.0				tr
			6427	1-2	279.0	284.0	5.0				tr
			6428	1-2	284.0	287.0	3.0				tr
			6429	1-2	287.0	289.6	2.6				tr
289.6	295.5	Mafic Intrusive - green to black fine grained groundmass with medium grained black phenocrysts.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-37 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
					FROM	TO		TOTAL
289.6	295.5	Cont'd. Modal percent: Amphibole 40-45% Carbonate 15-20% Chlorite 15-20% Biotite 5-10% Plagioclase 3-5% Speckled, medium grained biotite-chlorite flakes in a recrystallized fine grained groundmass, contacts at 60° to core axis, fractures at 53° to core axis.	6430		289.6	292.6	3.0	tr
			6431		292.6	295.5	2.9	tr
295.5	308.0	Mafic Flows - atypical, fine to medium grained, schistose, 2-3% quartz-carbonate vein, 1-2% biotite bands near lower contact with intrusive.	6432		295.5	300.5	5.0	tr
			6433		300.5	305.5	5.0	tr
			6434		305.5	308.0	2.5	tr
308.0	310.2	Mafic Intrusive - as above, contact at 42° to core axis at 308.0', 52° at 310.2'.	6435		308.0	310.2	2.2	tr
310.2	347.6	Mafic Flows - medium grained, typical, chloritic near lower intrusive contact. - 311.3' - 313.8' - 3-5% irregular quartz-carbonate stringers with 1-2% pyrite.	6436	1-2	310.2	313.8	3.6	tr
			6437		313.8	316.0	2.2	tr
			6438		316.0	321.0	5.0	tr
			6439		321.0	326.0	5.0	tr
			6440		326.0	331.0	5.0	tr
			6441		331.0	336.0	5.0	.002
			6442		336.0	341.0	5.0	tr
			6443		341.0	346.0	5.0	tr
			6444		346.0	347.6	1.6	.014
347.6	356.4	Mafic Intrusive - as above, with coarse grained corroded chlorite pseudomorphs after pyroxene, contact at 50° to core axis at 347.6', 40° at 356.4'.	6445		347.6	351.6	5.0	tr
			6446		351.6	356.4	4.8	tr
356.4	459.3	Mafic Flows - fine to medium grained. - 356.4' - 417.8' - fine grained, schistose. - 356.4' - 366.2' - 3-5% quartz-carbonate veining with 1-2% pyrrhotite and pyrite. - 417.8' - 451.9' - medium grained, massive. - 451.9' - 459.3' - fine grained, schistose.	6447	1-2	356.4	361.4	5.0	.004
			6448	1-2	361.4	366.2	4.8	tr
			6449		456.3	459.3	3.0	.052
								.048
								Check

LANGRANGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-37 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au oz/ton				
					FROM	TO	TOTAL					
356.4	459.3	Cont'd. Foliation at 25° to core axis at 381.0', 29° at 397.0', 30° at 436.0', 30° at 459.3'.										
459.3	477.9	Felsic Tuff - typical, light grey, fine grained, massive to slightly banded near sediment contact.	6450		459.3	464.3	5.0				tr	
			6451		472.9	477.9	5.0					
477.9	523.0	Siltstone - grey to brown, fine grained, laminated to banded. Modal percent: Quartz] 45-50% Feldspar] Biotite 30-35% Carbonate 5-10% Amphibole 3-5% 1-2% discordant quartz-carbonate-tourmaline stringers, foliation at 25° to core axis at 481.0', 30° at 516.0'. - 477.9' - 483.2' - schistose, sericitic, 1-2% pyrite films on fractures, 1-2% quartz-carbonate stringers. - 483.2' - 486.0' - minor silicification, 2-3% quartz-carbonate stringers.										
			6452	1-2	477.9	480.9	3.0				tr	
			6453	1-2	480.9	483.2	2.3				tr	
			6454		483.2	486.0	2.8				tr	
			6455		501.0	506.0	5.0				tr	
			6456		518.0	523.0	5.0				tr	
523.0	526.0	Mafic Flows - fine grained, schistose, foliation at 32° to core axis at 525.0'.	6457		523.0	526.0	3.0				tr	
	526.0	E.O.H.										

J. Adams

LANGRIDGES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-38 LENGTH 436.0'
 LOCATION 128+00E, 28+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -49°
 STARTED October 22/87 FINISHED October 23/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-49				
200.0	-48				
436.0	-44				

HOLE NO. KAS-87A-38 SHEET NO. 1 of 1

REMARKS PA769512

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	AU OZ/TON	OZ/TON
0.0	18.0	<u>CASING.</u>							
18.0	191.0	<u>FELSIC TO INTERMEDIATE TUFF.</u>							
191.0	200.9	<u>MAFIC TUFF.</u>							
200.9	211.7	<u>SULPHIDE FACIES, BANDED IRON FORMATION.</u>							
211.7	217.3	<u>OXIDE FACIES BANDED IRON FORMATION.</u>							
217.3	227.2	<u>FELSIC TO INTERMEDIATE TUFF.</u>							
227.2	228.3	<u>OXIDE FACIES BANDED IRON FORMATION.</u>							
228.3	373.5	<u>FELSIC TO INTERMEDIATE TUFF.</u>							
373.5	382.7	<u>OXIDE SULPHIDE FACIES, BANDED IRON FORMATION.</u>							
382.7	387.7	<u>MAFIC TO INTERMEDIATE TUFF.</u>							
387.7	390.7	<u>FELSIC CRYSTAL TUFF.</u>							
390.7	436.0	<u>FELSIC TO INTERMEDIATE TUFF.</u>							
		<u>- 406.0' - 436.0' - 3-5% pyrite.</u>							
	436.0	<u>E.O.H.</u>							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-87A-38 LENGTH 436.0'
 LOCATION 128+00E, 28+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -49°
 STARTED October 22/87 FINISHED October 23/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-49°				
200.0	-48°				
436.0	-44°				

HOLE NO. KAS-87A-38 SHEET NO. 1 of 6

REMARKS PA769512

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON
					FROM	TO				
0.0	18.0	Casing.								
18.0	191.0	Felsic to Intermediate Tuff - dark to light grey, fine to medium grained, schistose. Modal percent: Quartz] 55-66% Feldspar] Chlorite 15-20% Sericite 5-10% Amphibole 3-5% Biotite 2-3% Carbonate 1-2% Pyrite tr-1% Common horizons of felsic quartz crystal tuff, silicification around fractures and quartz-carbonate stringers variable texture, laminated to nearly massive to banded dependant on proportion of medium grained crystals, 1-3% quartz-carbonate-trace tourmaline, biotite and pyrite. Foliation at 25° to core axis at 25.0', 50° at 34.0', 40° at 48.0', 45° at 76.0', 40° at 135.0', 42° at 165.0', 45° at 187.0', fracturing at 72° to core axis at 34.0', 59° at 96.0'. - 18.0' - 36.0' - fractured, 3-5% quartz-carbonate stringers with 1-2% pyrite as disseminated grains and stringers, limonitic in upper 10 feet. - 60.0' - 61.0' - banded quartz-carbonate vein, clean.								
			5402	1-2	18.0	21.0	3.0			tr
			5403	1-2	21.0	26.0	5.0			tr
			5404	1-2	26.0	31.0	5.0			tr
			5405	1-2	31.0	36.0	5.0			tr
			5406	tr-1	46.0	51.0	5.0			tr
			5407	tr-1	56.0	60.0	4.0			tr
			5408	tr	60.0	61.0	1.0			tr
			5409	tr-1	61.0	66.0	5.0			tr
			5410	tr-1	66.0	71.0	5.0			tr
			5411	tr-1	71.0	76.0	5.0			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-38

SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO	% SULPHIDES	FOOTAGE			Au oz/ton					
					FROM	TO	TOTAL						
18.0	191.0	Cont'd.											
		- 76.0' - 106.0' - 1-2% finely disseminated pyrite.	5412	1-2	76.0	81.0	5.0					tr	
			5413	tr-1	81.0	86.0	5.0					tr	
			5414	tr-1	86.0	91.0	5.0					tr	
			5415	tr-1	91.0	96.0	5.0					tr	
			5416	tr-1	96.0	101.0	5.0					tr	
			5417	tr-1	101.0	106.0	5.0					tr	
		- 107.4' - 109.6' - irregular quartz-carbonate stringer sub-parallel to core axis, 1-2% pyrite films on fractures.	5418	tr-2	106.0	111.0	5.0					tr	
			5419	tr-1	111.0	116.0	5.0					tr	
			5420	tr-1	116.0	121.0	5.0					tr	
		- 123.0' - 124.0' - 0.3-foot carbonate vein, irregular, gradational contacts.	5421	tr-1	121.0	126.0	5.0					tr	
		- 127.2' - 128.2' - banded quartz-carbonate vein, clean.	5422	tr-1	126.0	131.0	5.0					tr	
		- 133.0' - 134.5' - 2-3% quartz-carbonate stringers.	5423	tr-1	131.0	136.0	5.0					tr	
			5424	tr-1	136.0	141.0	5.0					tr	
			5425	tr-1	141.0	146.0	5.0					tr	
			5426	tr-1	146.0	151.0	5.0					tr	
			5427	tr-1	151.0	156.0	5.0					tr	
			5428	tr-1	156.0	159.0	3.0					tr	
			5429	tr-1	159.0	162.0	3.0					tr	
		- 162.0' - 163.0' - 0.2-foot quartz-carbonate vein, banded.	5430	tr-1	162.0	166.6	4.6					tr	
		- 166.6' - 167.9' - irregular quartz-carbonate stringers with minor potassic alteration and pink potash feldspar and coarse grained muscovite grains and plates.	5431	tr-1	166.6	167.9	1.2					tr	
			5432	tr-1	167.9	171.9	5.0					tr	
			5433	tr-1	171.9	176.9	5.0					tr	
		- 176.9' - 191.0' - 2-5% quartz-carbonate stringers, percentage increases downhole.	5434	tr-1	176.9	181.0	4.1					tr	
			5435	tr-1	181.0	186.0	5.0					.002	
			5436	tr-1	186.0	191.0	5.0					.002	
191.0	200.9	Mafic Tuff - dark green to white to brown, fine grained, poorly banded.	5437	tr-2	191.0	200.9	5.0					tr	
		Modal percent: Amphibole 30-35%	5438	tr-2	196.0	200.9	4.9					tr	
		Plagioclase 20-25%											
		Quartz 10-15%											
		Chlorite 5-10%											

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-38

SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL		Au oz/ton	
191.0	200.9	Cont'd. Biotite 5-10% Carbonate 3-5% Pyrite tr-2% Wispy chlorite-biotite bands with fine to medium grained disseminated pyrite.						
200.9	211.7	Banded Iron Formation, Sulphide Facies - light to dark grey, fine to medium grained, banded. Modal percent: Quartz] 65-70% Carbonate] Chlorite 15-20% Pyrite 3-5% Magnetite 2-3% Pyrrhotite 0.5-2% Garnet trace Cherty-banded quartz-carbonate with wispy chlorite bands and fine grained banded to medium grained disseminated pyrite, banding at 43° to core axis at 201.0'.	5439	3-5	200.9	204.9	4.0	tr
			5540	3-5	204.9	208.9	4.0	.002
			5541	3-5	208.9	211.7	2.8	tr
211.7	217.3	Oxide Facies, Banded Iron Formation - dark grey to black to white to green to pink, fine with coarse grained porphyroblasts, well-banded to laminated. Modal percent: Hornblende 30-35% Magnetite 20-25% Quartz] 20-25% Carbonate] Grunerite 3-5% Chlorite 3-5% Garnet 3-5% Cherty quartz-carbonate bands interbedded with magnetite bands and chlorite-amphibole bands with coarse grained garnet bands and grains, banding at 40° to core axis at 215.0'.	5442		211.7	214.7	3.0	.002
			5443		214.7	217.3	2.6	tr
217.3	227.2	Felsic to Intermediate Tuff - typical.	5444	tr	217.3	221.0	3.7	tr
			5445	tr	221.0	225.0	4.0	tr
			5446	tr	225.0	227.2	2.2	tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-38 SHEET NO. 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au oz/ton	
				FROM	TO	TOTAL		
227.2	228.3	Oxide Facies, Banded Iron Formation - as above with no garnet-amphibole bands.	5447	tr	227.2	228.3	1.1	tr
228.3	373.5	Felsic to Intermediate Tuff - foliation at 47° to core axis at 235.0', 50° at 249.0', 47° at 278.0', 45° at 286.0', 50° at 318.0', 50° at 344.0', 48° at 362.0'. - 228.3' - 252.7' - typical, 2-3% discordant quartz-carbonate stringers.	5448	tr	228.3	231.0	2.7	tr
			5449	tr	231.0	236.0	5.0	tr
			5450	tr	236.0	241.0	5.0	tr
			5451	tr	241.0	246.0	5.0	tr
			5452	tr	246.0	251.0	5.0	tr
			5453	tr	251.0	252.7	1.7	tr
		- 252.7' - 265.4' - fractured-brecciated, 2-3% quartz-carbonate-epidote stringers.	5454	tr	252.7	256.0	3.3	tr
			5455	tr	256.0	261.0	5.0	tr
			5456	tr	261.0	265.4	4.4	tr
		- 265.4' - 281.9' - typical, 3-5% banded quartz-carbonate veins and stringers with 1-2% banded to disseminated pyrite.	5457	1-2	265.4	269.4	4.0	tr
			5458	1-2	269.4	274.4	5.0	tr
			5459	1-2	274.4	279.4	5.0	tr
			5460	1-2	279.4	281.9	2.5	tr
		- 281.9' - 301.4' - typical, 1-2% quartz-carbonate stringers.	5461	tr	281.9	286.4	4.5	tr
			5462	tr	286.4	291.4	5.0	tr
			5463	tr	291.4	296.4	5.0	tr
			5464	tr	296.4	301.4	5.0	tr
		- 301.4' - 311.0' - fractured, minor potassic alteration and epidotization.	5465	tr	301.4	306.0	4.6	tr
			5466	tr	306.0	311.0	5.0	tr
		- 311.0' - 320.7' - felsic crystal tuff, typical.	5467	tr	311.0	314.2	3.2	tr
		- 311.0' - 314.2' - banded quartz-tourmaline-carbonate veinig with epidote, chlorite and amphibole inclusions and minor potassic alteration.	5468	tr	314.2	317.2	3.0	tr
			5469	tr	317.2	320.7	3.5	tr
		- 320.7' - 326.4' - typical.	5470	tr	320.7	323.7	3.0	tr
			5471	tr	323.7	326.4	2.7	tr
		- 326.4' - 362.0' - fractured-brecciated, 3-5% quartz-carbonate-epidote stringers and fracture fill-	5472	tr-1	326.4	331.0	4.6	tr
			5473	tr-1	331.0	336.0	5.0	tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-38

SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Au oz/Ton	Fe	Other
					FROM	TO	TOTAL				
228.3	373.5	Cont'd. ings, chlorite-carbonate matrix in brecciated zones, pink to orange potassic alteration, trace-1% pyrite. - 362.0' - 369.1' - typical. - 369.1' - 373.5' - felsic crystal tuff, typical.	5474	tr-1	336.0	341.0	5.0		tr		
			5475	tr-1	341.0	346.0	5.0		tr		
			5476	tr-1	346.0	351.0	5.0		tr		
			5477	tr-1	351.0	356.0	5.0		tr		
			5478	tr-1	356.0	359.0	3.0		tr		
			5479	tr-1	359.0	362.0	3.0		.002		
			5480	tr	362.0	366.0	4.0		tr		
			5481	tr	366.0	369.1	3.1		tr		
			5482	tr	369.1	373.5	4.4		tr		
373.5	382.7	Oxide-Sulphide Facies, Banded Iron Formation - typical, no garnets, 5-7% pyrrhotite and pyrite - or- 15-20% magnetite, 3-5% quartz-carbonate stringers up to 0.1-foot, irregular, discordant banding at 52° to core axis at 378.0', fractures at 38° to core axis.	5483	5-7	373.5	378.5	5.0		.002		
			5484	5-7	378.5	382.7	4.2		.002		
382.7	387.7	Mafic to Intermediate Tuff - brown to green to white to black, fine grained, banded to laminated. Modal percent: Chlorite] 40-45% Biotite] Quartz] 30-35% Feldspar] Amphibole] 10-15% Carbonate] 3-5% 3-5% quartz-carbonate stringers, trace sulphide.	5485	tr	382.7	387.7	5.0		.002		
387.7	390.7	Felsic Crystal Tuff - typical.	5486	tr	387.7	390.7	3.0		tr		
390.7	436.0	Felsic to Intermediate Tuff - atypical dark to light grey to green to brown, fine grained, banded. Modal percent: Quartz] 55-60% Feldspar] Biotite] Chlorite] 20-25% Amphibole] 10-15% Carbonate] 1-2%									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-87A-38

SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	Au oz/ton
					FROM	TO		
390.7	436.0	Cont'd. 1-2% quartz-tourmaline stringers, carbonate on fractures, foliation at 51° to core axis at 392.0', 57° at 400.0', 47° at 411.0', 56° at 431.0'. - 390.7' - 394.7' - 2-3% pyrite, minor fracturing and brecciation. - 394.7' - 406.0' - trace-1% pyrite. - 406.0' - 436.0' - 3-5% banded to disseminated to aggregated, fine to medium grained pyrite.	5487	2-3	390.7	394.7	4.0	.002
			5488	tr-1	394.7	397.7	3.0	.004
			5489	tr-1	397.7	401.0	2.3	tr
			5490	tr-1	401.0	406.0	5.0	.002
			5491	3-5	406.0	411.0	5.0	tr
			5492	3-5	411.0	416.0	5.0	.004
			5493	3-5	416.0	421.0	5.0	.008
			5494	3-5	421.0	426.0	5.0	.014
			5495	3-5	426.0	431.0	5.0	tr
			5496	3-5	431.0	436.0	5.0	.004
	436.0	E.O.H.						

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-87A-39 LENGTH 407 feet
 LOCATION L120+00E, 15+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED October 25, 1987 FINISHED October 28, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-44.0'				
207'	-39.0'				
407'	-36.5'				

HOLE NO. KAS-87A-39 SHEET NO. 1 of 1

REMARKS Pa 769516

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	50.0	CASING								
50.0	149.7	<u>INTERMEDIATE FLOWS</u>								
149.7	317.5	<u>FELSIC TUFF</u>	6481	3-5	292.5	297.5	5.0		.020	
317.5	319.4	<u>FELSIC QUARTZ-FELDSPAR PORPHYRY SILL</u>								
319.4	407.0	<u>FELSIC TUFF</u>								
	407.0	<u>END OF HOLE</u>								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-87A-39 LENGTH 407 feet
 LOCATION L120+00E, 15+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -44°
 STARTED October 25, 1987 FINISHED October 28, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-44.0°				
207'	-39.0°				
407'	-36.5°				

HOLE NO KAS-87A-39 SHEET NO. 1 of 3

REMARKS Pa 769516

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	50.0	<u>CASING</u>								
50.0	149.7	<u>INTERMEDIATE FLOWS</u> - dark grey, massive with minor green laminae, fine grained to aphanitic.	6458	0.5-2	50.0	55.0	5.0			tr.
		<u>Average Modes</u>	6459	0.5-2	77.0	82.0	5.0			tr.
		Amphibole 40 - 45%								
		Plagioclase } 40 - 45%								
		Quartz }								
		Chlorite 3 - 5%								
		Carbonate trace - 1%								
		Garnet 1 - 2%								
		Pyrite } 0.5 - 2%								
		Pyrrhotite }								
		Common garnet-chlorite schist and 1-2% quartz ± carbonate stringers and bands, anhedral - subhedral porphyroblastic garnets, foliation at 70° to core axis at 52.0', 72° at 87.0', 69° at 106.5, 63° at 127.0', 67° at 147.0; fracturing subparallel to core axis.								
		- 50.0' to 107.1' - fine grained, typical.								
		- 107.1' to 121.4' - 3-5% coarse grained, anhedral garnets.	6460	-	107.1	112.0	4.9			tr.
		- 107.8' to 108.6' - clean quartz vein.	6461	-	112.0	117.0	5.0			tr.
			6462	-	117.0	121.0	6.0			tr.
		- 121.4' to 128.1' - fine grained, typical.								
		- 128.1' to 136.4' - trace garnets, abundant, medium grained amphibole grains, minor fractures - dislocations.	6463	-	128.1	132.0	3.9			tr.
			6464	-	132.0	136.4	4.4			tr.
		- 136.4' to 140.5' - 3-5% garnets, as above.	6465	-	136.4	140.5	4.1			tr.
		- 140.5' to 149.7' - fine grained, 1-2% pyrite as stringers and fracture fillings.	6466	1-2	140.5	145.0	4.5			tr.
			6467	1-2	145.0	149.7	4.7			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-39 SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
149.7	317.5	<p>FELSIC TUFF - dark grey, fine grained, schistose groundmass with or without medium to coarse grained pink porphyroblasts.</p> <p><u>Average Modes</u></p> <p>Quartz } 50 - 55% Feldspar } Chlorite 15 - 20% Sericite 10 - 15% Garnet 1 - 10% Pyrite 1 - 3% Carbonate trace - 0.5%</p> <p>Anhedral medium to coarse grained pink garnet porphyroblasts in some sections especially within chlorite bands, fine grained disseminated pyrite, pyrite frequently as cores of, or mantles around garnets and as films along fractures, trace <u>arsenopyrite</u> as cores in minor <u>tourmaline</u> aggregates, 1-3% irregular, discordant quartz veining; foliation at 62° to core axis at 156.0', 71° at 177.0', 69° at 187.0', 60° at 201.0', 71° at 264.0', 70° at 292.0', 71° at 307.0'.</p> <p>- 149.7' to 178.6' - 5-10% coarse grained garnets. - 178.6' to 289.8' - 2-5% medium grained garnets. - 232.6' to 234.4' - graphitic horizon, flaky graphite with 1-2% pyrite blebs, 3-5% quartz ± carbonate stringers and blebs. - 289.8' to 297.5' - 5-10% garnet, as above, 3-5% fine grained pyrite blebs, 2-3% quartz stringers. - 297.5' to 317.5' - sericitic, well foliated, 1-2% garnet, abundant medium grained sericite pseudomorphs after plagioclase.</p>									
			6468	1-3	149.7	152.0	2.3			tr.	
			6469	1-3	152.0	157.0	5.0			tr.	
			6470	1-3	157.0	162.0	5.0			tr.	
			6471	1-3	162.0	167.0	5.0			tr.	
			6472	1-3	167.0	172.0	5.0			tr.	
			6473	1-3	172.0	176.0	5.0			tr.	
			6474	1-3	176.0	178.6	2.6			.016	
			6475	-	197.0	202.0	5.0			tr.	
			6476	1-2	228.0	232.6	4.6			tr.	
			6477	1-2	232.6	234.4	1.8			tr.	
			6478	-	234.4	237.0	2.6			.002	
			6479	-	252.0	257.0	5.0			tr.	
			6480	3-5	289.8	292.5	2.7			tr.	
			6481	3-5	292.5	297.5	5.0			.020	
			6482	-	297.5	302.5	5.0			.002	
			6483	-	302.5	307.5	5.0			tr.	
			6484	-	307.5	312.5	5.0			tr.	
			6485	-	312.5	317.5	5.0			tr.	
317.5	319.4	<p>FELSIC QUARTZ-FELDSPAR PORPHYRY SILL - white, medium grained phenocrysts in dark grey, fine grained groundmass, massive, porphyritic.</p>	6486	0.5-1	317.5	319.4	1.9			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-39 SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS								
FROM	TO		NO.	% SULPH IDES	FOOTAGE			Au						
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON			
		<p><u>Average Modes</u></p> <p>Quartz 40 - 45%</p> <p>Plagioclase 30 - 35%</p> <p>Chlorite 10 - 15%</p> <p>Muscovite 3 - 5%</p> <p>Pyrite 0.5 - 1%</p> <p>Pyrite as fracture coatings, medium grained subhedral plagioclase and quartz phenocrysts in fine grained groundmass of chlorite-muscovite and quartz-feldspar, contacts at 73° to core axis.</p>												
319.4	407.0	<p><u>FELSIC TUFF</u> - typical, as above.</p> <p>- 319.4' to 329.0' - 2-3% disseminated pyrite.</p> <p>- 329.0' to 330.0' - 0.5' quartz vein with trace epidote and pyrite.</p> <p>- 348.0' to 369.0' - 2-3% quartz veining with 1-3% pyrite films on fractures.</p> <p>- 390.6' to 392.0' - coarse grained quartz vein 1-2% coarse grained pink-brown garnets and biotite on contacts, 0.5-1% pyrite as films on fractures.</p> <p>Foliation at 72° - 78° to core axis across interval.</p>	6487	2-3	319.4	324.0	4.6							tr.
			6488	2-3	324.0	329.0	5.0							tr.
			6489	tr.	329.0	330.0	1.0							tr.
			6490	1-3	347.0	352.0	5.0							tr.
			6491	1-3	352.0	357.0	5.0							tr.
			6492	1-3	357.0	362.0	5.0							tr.
			6493	1-3	362.0	367.0	5.0							tr.
			6494	1-3	367.0	372.0	5.0							tr.
			6495	1-3	372.0	377.0	5.0							tr.
			6496	1-3	377.0	382.0	5.0							tr.
			6497	1-3	382.0	387.0	5.0							tr.
			6498	1-3	387.0	390.6	3.6							tr.
			6499	1-3	390.6	392.0	1.4							tr.
			6500	0.5-1	392.0	397.0	5.0							tr.
	407.0	<u>END OF HOLE</u>												

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-87A-40 LENGTH 437 feet
 LOCATION L16+00W, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -59°
 STARTED December 12, 1987 FINISHED December 14, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-59.0°				
200'	-56.0°				
437'	-51.0°				

HOLE NO KAS-87A-40 SHEET NO. 1 of 1

REMARKS Pa 786809

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	15.0	<u>CASING</u>									
15.0	131.9	<u>MAFIC FLOWS</u>									
131.9	146.4	<u>INTERMEDIATE FLOWS</u>									
146.4	185.5	<u>MAFIC TO INTERMEDIATE FLOWS</u>									
185.5	188.1	<u>CHERTY-FELSIC TUFF</u>									
188.1	331.6	<u>FELSIC TO INTERMEDIATE TUFF</u>									
331.6	339.3	<u>MAFIC FLOWS</u>									
339.3	372.7	<u>FELSIC TO INTERMEDIATE TUFF</u>									
372.7	377.0	<u>FELSIC TUFF</u>									
377.0	403.4	<u>AMPHIBOLITE</u>									
403.4	437.0	<u>SHEARED - SILICIFIED MAFIC VOLCANICS AND IRON FORMATION</u>	4062		422.0	424.5	2.5		.095	.121	(check)
			4063		424.5	427.0	2.5		.166	.185	(check)
			4064		427.0	429.5	2.5		.051	.049	(check)
			4065		429.5	432.0	2.5		.014		
			4067		434.5	437.0	2.5		.017		
437.0		<u>END OF HOLE</u>									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-87A-40 LENGTH 437 feet
 LOCATION L16+00W, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -59°
 STARTED December 12, 1987 FINISHED December 14, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-59.0°				
200'	-56.0°				
437'	-51.0°				

HOLE NO. KAS-87A-40 SHEET NO. 1 of 6

REMARKS Pa 786809

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	15.0	<u>CASING</u>								
15.0	131.9	<u>MAFIC FLOWS</u> - dark green to black, medium grained, massive. <u>Average Modes</u> Amphibole 45 - 50% Plagioclase 40 - 45% Albite 2 - 3% Quartz } 1 - 2% Carbonate } Epidote 1 - 2% Pyrite trace Amphibolitic, with slight foliation, cleavage trace in some horizons; 2-3% quartz ± carbonate ± epidote stringers and interflow sediments; common disseminated anhedral albite grains; foliation at 45° to core axis at 82.0', 40° at 112.0'; fractures at 47° to core axis at 32.0', 22° and 48° at 95.0'. - 68.0' to 73.0' - 1-2% quartz-tourmaline stringers with tourmaline as stringers and disseminated grains. - 120.4' to 131.9' - irregular to en echelon, carbonate fracture fillings - stringers; 2-3% quartz ± carbonate veining.	4001	tr.	15.0	20.0	5.0			<.002
			4002		68.0	73.0	5.0			<.002
			4003	-	120.4	125.4	5.0			<.002
			4004	-	125.4	129.4	4.0			<.002
			4005	-	129.4	131.9	2.5			<.002
131.9	146.4	<u>INTERMEDIATE FLOWS</u> - dark grey, fine grained, crudely banded to schistose.	4006	-	131.9	136.9	5.0			<.002
			4007	-	136.9	141.9	5.0			<.002
			4008	-	141.9	146.4	4.5			<.002

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-40 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Au OZ TON	Au OZ TON	
				FROM	TO	TOTAL					
		<p><u>Average Modes</u></p> <p>Plagioclase 50 - 55%</p> <p>Amphibole 30 - 35%</p> <p>Chlorite 3 - 5%</p> <p>Quartz 2 - 3%</p> <p>Carbonate]</p> <p>Epidote 1 - 2%</p> <p>2-3% quartz ± carbonate stringers, wispy chlorite bands, epidote infilling of irregular fractures, minor sericite and amphibolitic zones; foliation at 47° to core axis at 144.0'; fracture at 50° to core axis at 144.0'.</p>									
146.4	185.5	<p><u>MAFIC TO INTERMEDIATE FLOWS</u> - green-black, fine grained, schistose.</p> <p><u>Average Modes</u></p> <p>Amphibole 40 - 45%</p> <p>Plagioclase 35 - 40%</p> <p>Chlorite 5 - 10%</p> <p>Albite 1 - 3%</p> <p>Quartz 1 - 2%</p> <p>Carbonate]</p> <p>Wispy chlorite bands, irregular quartz ± carbonate stringers; irregular anhedral albite grains; closely spaced quartz-carbonate filled fractures at 53° to core axis; crude schistosity at 40° - 45° to core axis.</p>									
		- 167.0' to 168.5' - quartz ± carbonate veining, trace pyrite.	4009	tr.	167.0	168.5	1.5			<.002	
		- 181.5' to 185.5' - quartz ± carbonate ± tourmaline veins up to 0.9 feet wide, minor pyrite bands, fracturing with quartz ± carbonate infillings.	4010	tr.	181.5	185.5	4.0			<.002	<.002 (check)

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-87A-40 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au			
					FROM	TO	TOTAL	oz ton	oz ton		
185.5	188.1	<p><u>CHERTY-FELSIC TUFF</u> - light grey, fine grained, slight schistosity, generally massive.</p> <p><u>Average Modes</u></p> <p>Quartz 60 - 65% Sericite 20 - 25% Pyrite 3 - 5% Carbonate 3 - 5%</p> <p>Cherty blue-grey quartz; irregular blebs and stringers of pyrite.</p>	4011	3-5	185.5	188.1	2.6			<.002	
188.1	331.6	<p><u>FELSIC TO INTERMEDIATE TUFF</u> - green to grey, fine grained, banded to laminated.</p> <p><u>Average Modes</u></p> <p>Quartz 40 - 45% Sericite 20 - 25% Chlorite 15 - 20% Amphibole 5 - 10% Carbonate 1 - 3% Pyrite trace - 1%</p> <p>Composition varies gradationally from rhyolite to dacite; carbonate as bands and disseminated grains; 1-3% quartz ± carbonate stringers; minor fracturing throughout with quartz ± carbonate ± epidote infillings; pyrite as disseminated euhedral grains, fracture coatings, blebs and stringers; spotty hematite staining and fracture coatings.</p> <p>- 188.1' to 237.0' - felsic to intermediate tuff.</p> <p>- 227.0' to 237.0' - hematite stain, 2-3% quartz ± carbonate ± epidote stringers.</p> <p>- 237.0' to 241.3' - intermediate tuff, highly fractured.</p> <p>- 241.3' to 244.3' - felsic to intermediate tuff, 2-3% carbonate stringers.</p> <p>- 244.3' to 254.8' - felsic tuff.</p> <p>- 244.3' to 250.0' - highly fractured, 3-5% quartz ± carbonate stringers.</p>	4012	tr-1	188.1	191.1	3.0			<.002	
			4013	tr-1	199.4	200.9	1.5			<.002	
			4014	tr-1	227.0	232.0	5.0			<.002	
			4015	tr-1	232.0	237.0	5.0			<.002	
			4016	tr-1	237.0	241.3	4.3			<.002	
			4017	tr-1	241.3	244.3	3.0			<.002	
			4018	tr-1	244.3	247.0	2.7			<.002	
			4019	tr-1	247.0	250.0	3.0			<.002	<.002 (check)

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-40 SHEET NO. 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Au		
					FROM	TO			TOTAL	OZ TON	OZ TON
		- 254.8' to 257.4' - intermediate, 0.5-1% pyrite as fine bands, 2-3% quartz ± carbonate stringers.	4020	tr-1	250.0	254.8	4.8			<.002	
			4021	tr-1	254.8	259.8	5.0			<.002	
		- 257.4' to 259.8' - felsic									
		- 259.8' to 260.7' - intermediate	4022	tr-1	259.8	260.7	0.9			<.002	
		- 260.7' to 267.6' - felsic to intermediate	4023	tr-1	260.7	264.2	3.5			<.002	
		- 267.6' to 268.1' - intermediate	4024	tr-1	264.2	267.6	3.4			<.002	
		- 268.1' to 331.6' - felsic to intermediate, trace-3% pyrite as bands, stringers, blebs, disseminated grains; variable fracturing with quartz ± carbonate ± epidote infilling; minor potassic alteration.	4025	tr-1	267.6	269.1	1.5			<.002	
			4026	tr-3	269.1	273.1	4.0			<.002	
			4027	tr-3	273.1	278.1	5.0			<.002	
		- 278.1' to 279.8' - quartz vein, milky white, hematite fracture filling, trace tourmaline, fracturing at 12° to core axis.	4028	-	278.1	279.8	1.7			<.002	<.002 (check)
			4029	-	279.8	283.0	3.2			<.002	
			4030	-	283.0	286.0	3.0			<.002	
		- 286.0' to 293.0' - 1-3% disseminated pyrite, highly fractured.	4031	1-3	286.0	289.5	3.5			<.002	
			4032	1-3	289.5	293.0	3.5			<.002	
		- 294.7' to 296.4' - fractured - silicified minor crosscutting, mylonite horizon.	4033	-	293.0	296.4	3.4			<.002	
			4034	-	296.4	301.4	5.0			<.002	
			4035	-	301.4	304.0	2.6			<.002	
		- 304.0' - 306.0' - as per 286.0' to 293.0'.	4036	1-3	304.0	306.0	2.0			<.002	
			4037	-	306.0	311.0	5.0			<.002	<.002 (check)
		- 311.0' to 313.0' - quartz veining, silicified, 1-2% disseminated tourmaline in host rock.	4038	-	311.0	313.0	2.0			<.002	
			4039	-	313.0	318.0	5.0			<.002	
			4040	-	318.0	323.0	5.0			<.002	
			4041	-	323.0	328.0	5.0			<.002	
			4042	-	328.0	331.6	3.6			<.002	
331.6	339.3	<u>MAFIC FLOWS</u> - typical, fine grained, few widely spaced fractures.	4043	tr.	331.6	334.5	2.9			<.002	
		- 334.5' to 339.3' - quartz-tourmaline vein, 1-2% disseminated pyrite, 1-2% irregular pink garnets, inclusions of silicified, carbonatized volcanics.	4044	1-2	334.5	339.3	4.8			<.002	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-40 SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS Au				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
339.3	372.7	FELSIC TO INTERMEDIATE TUFF - as above, foliation - banding at 50° to core axis at 347.0', 60° at 366.0'. - 365.9' to 372.7' - 2-3% quartz-tourmaline stringers, 1-2% disseminated pyrite throughout	4045	-	339.3	342.3	3.0			<.002	
			4046	1-2	365.9	369.9	4.0			<.002	
			4047	1-2	369.9	372.7	2.8			<.002	
372.7	377.0	FELSIC TUFF - bluish-grey to brown, fine grained, banded. <u>Average Modes</u> Quartz 35 - 40% Sericite 20 - 25% Chlorite 20 - 25% Amphibole 5 - 10% Cherty, brown sericite-chlorite bands, narrow quartz-tourmaline veins at top of section, banding at 52° to core axis.	4048	-	372.7	377.0	4.3			<.002	
377.0	403.4	AMPHIBOLITE - dark green to dark grey, medium grained, massive to slightly schistose. <u>Average Modes</u> Amphibole Plagioclase Quartz Carbonate] 2 - 3% Pyrrhotite] 1 - 2% Pyrite Amphibolitic, pyrite as fracture coatings, disseminated grains; quartz and carbonate stringers ± 1-2% pyrite, pyrrhotite; fractures at 40° and 15° to core axis; foliation at 52° to core axis at 397.0'. - 399.8' to 403.4' - 2-3% pyrite, 1-2% pyrrhotite.	4049	1-2	377.0	382.0	5.0			<.002	
			4050	1-2	382.0	387.0	5.0			<.002	
			4051	1-2	387.0	392.0	5.0			<.002	
			4052	1-2	392.0	397.0	5.0			.003	
			4053	1-2	397.0	399.8	2.8			<.002	
			4054	3-5	399.8	403.4	3.6			.003	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-40 SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au	Au	Au	
					FROM	TO	TOTAL	oz TON	oz TON	oz TON
403.4	437.0	<p><u>SHEARED - SILICIFIED MAFIC VOLCANICS AND IRON FORMATION - dark green to dark grey, fine to medium grained, crudely banded.</u></p> <p><u>Average Modes</u></p> <p>Quartz 40 - 45% Amphibole 20 - 25% Sericite 5 - 10% Chlorite 3 - 5% Grunerite 3 - 5% Garnets 2 - 5% Magnetite 2 - 5% Pyrrhotite } 2 - 3% Pyrite }</p> <p>Felsic Bands - quartz, sericite, carbonate, magnetite, Mafic Bands - amphibole, chlorite, garnet, pyrrhotite, pyrite disseminated throughout, especially in quartz ± carbonate stringers and as fracture coatings. Pyrrhotite, magnetite and grunerite occur exclusive of each other; disseminated fine to medium grained porphyroblastic garnets disseminated throughout. Grunerite occurs as haloes around quartz ± carbonate stringers.</p> <p>- 403.4' to 405.8' - iron formation, 1-2% pyrrhotite, fine grained garnets. - 405.8' to 413.5' - amphibolitic, mafic volcanic, 1-2% pyrrhotite, pyrite. - 413.5' to 437.0' - iron formation and volcanics intermixed. - 415.9' to 416.2' - quartz vein, 2-3% pyrite stringers.</p>								
			4055	1-2	403.4	405.8	2.4	<.002		
			4056	1-2	405.8	408.8	3.0	<.002		
			4057	1-2	408.8	411.0	2.2	<.002		
			4058	1-2	411.0	413.5	2.5	<.002		
			4059	2-3	413.5	417.0	3.5	<.002		
			4060	1-2	417.0	419.5	2.5	<.002		
			4061	1-2	419.5	422.0	2.5	<.002		
			4062	1-2	422.0	424.5	2.5	.095	.121	
			4063	1-2	424.5	427.0	2.5	.166	.185	
			4064	1-2	427.0	429.5	2.5	.051	.049	.041 (check)
			4065	1-2	429.5	432.0	2.5	.014		
			4066	1-2	432.0	434.5	2.5	.008		
			4067	1-2	434.5	437.0	2.5	.017		
	437.0	<u>END OF HOLE</u>								

LANGRIDGES - TORONTO - 366-1188

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-87A-41 LENGTH 607 feet
 LOCATION L16+00W, 16+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -63°
 STARTED December 14, 1987 FINISHED December 17, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-63.0°				
200'	-58.5°				
400'	-57.5°				
607'	-50.0°				

HOLE NO. KAS-87A-41 SHEET NO. 1 of 2

REMARKS Pa 786809

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	12.0	<u>CASING</u>									
12.0	86.2	<u>FELSIC TO INTERMEDIATE TUFF</u>									
86.2	102.8	<u>MYLONITE</u>									
102.8	105.0	<u>FELSIC TO INTERMEDIATE TUFF</u>									
105.0	111.0	<u>MYLONITE</u>									
111.0	120.6	<u>FELSIC TO INTERMEDIATE TUFF</u>									
120.6	335.8	<u>MAFIC FLOW</u>									
335.8	337.4	<u>GRAPHITIC SCHIST</u>									
337.4	433.3	<u>FELSIC TO INTERMEDIATE TUFF</u>									
433.3	435.3	<u>MAFIC FLOWS</u>									
435.3	464.9	<u>FELSIC TO INTERMEDIATE TUFF</u>									
464.9	470.7	<u>FELSIC TUFF</u>									
470.7	511.0	<u>FELSIC TO INTERMEDIATE TUFF</u>									
511.0	521.6	<u>SILICIFIED FELSIC TO INTERMEDIATE TUFF</u>									
521.6	534.2	<u>MAFIC FLOWS</u>									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-41 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	ALL	ALL		
					FROM	TO			GT TON	GT TON		
				TOTAL								
534.2	601.8	<u>SHEARED-SILICIFIED MAFIC VOLCANICS AND IRON FORMATION</u>	4154		534.2	537.0	2.8			.016		
			4166		577.0	581.2	4.2			.026		
			4167		581.2	582.4	1.2			.060	.052	(check)
601.8	607.0	<u>MAFIC FLOWS</u>										
	607.0	<u>END OF HOLE</u>										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-87A-41 LENGTH 607 feet
 LOCATION L16+00W, 16+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -63°
 STARTED December 14, 1987 FINISHED December 17, 1987

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-63.0°				
200'	-58.5°				
400'	-57.5°				
607'	-50.0°				

HOLE NO. KAS-87A-41 SHEET NO. 1 of 8

REMARKS Pa 786809

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	12.0	<u>CASING</u>								
12.0	86.2	<u>FELSIC TO INTERMEDIATE TUFF</u> - dark grey to dark green, fine grained banded. <u>Average Modes</u> Quartz 30 - 35% Plagioclase } 30 - 35% Sericite } Amphibole 15 - 20% Chlorite 5 - 10% Banded to laminated, zones of intense fracturing with potassic alteration, quartz ± carbonate and quartz ± tourmaline stringers and veins. - 13.9' to 14.9' - 0.4' quartz ± tourmaline vein, highly fractured. - 23.5' to 24.5' - quartz ± tourmaline vein, banded, fractured with potassic alteration. - 26.0' to 28.3' - irregular banded quartz ± tourmaline vein. - 30.8' to 32.3' - banded quartz ± carbonate ± potash feldspar veining. - 47.0' to 49.2' - quartz ± tourmaline ± potash feldspar stringers, fracturing with minor dislocations. - 67.5' to 70.0' - banded quartz ± tourmaline vein with chlorite, sericite inclusions.								
			4068	-	13.9	14.9	1.0			K.002
			4069	-	23.5	24.5	1.0			K.002
			4070	-	24.5	26.0	1.5			K.002
			4071	-	26.0	28.3	2.3			K.002
			4072	-	28.3	32.3	5.0			K.002
			4073	-	47.0	49.2	2.2			K.002
			4074	-	67.5	70.0	2.5			.003

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-41 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au		
					FROM	TO	TOTAL	OZ TON	OZ TON
		- 76.3' to 78.1' - quartz-potash feldspar stringers.	4075	-	76.3	79.5	3.2	<.002	
		- 79.5' to 81.0' - minor quartz ± tourmaline stringers, narrow cryptocrystalline chert bands.	4076	-	79.5	81.5	2.0	.002	
			4077	-	81.5	86.2	4.7	<.002	
		Foliation at 42° to core axis at 13.0', 33° at 35.0', 37° at 47.0', 40° at 62.0', 35° at 74.5'.							
86.2	102.8	<u>MYLONITE</u> - orange-red to grey to bright green, fine grained, laminated.	4078	-	86.2	89.2	3.0	<.002	
			4079	-	89.2	92.0	2.8	<.002	
			4080	-	92.0	97.0	5.0	<.002	
		<u>Average Modes</u>							
		Potash Feldspar 45 - 50%							
		Quartz 30 - 35%							
		Sericite 5 - 7%							
		Chlorite 3 - 5%							
		Carbonate 2 - 3%							
		Chlorite as fine laminae, highly fractured, foliation - lamination at 39° to core axis.							
		- 97.0' to 99.5' - chloritic, black to bright green, speckled with biotite grains, 5-10% epidote.	4081	-	97.0	99.5	2.5	<.002	
			4082	-	99.5	102.8	3.3	<.002	<.002 (check)
102.8	105.0	<u>FELSIC TO INTERMEDIATE TUFF</u> - as above.	4083	-	102.8	105.0	2.2	<.002	
105.0	111.0	<u>MYLONITE</u> - as above.	4084	-	105.0	109.0	4.0	.002	
			4085	-	109.0	111.0	2.0	<.002	
111.0	120.6	<u>FELSIC TO INTERMEDIATE TUFF</u> - as above, fractured, minor chert bands.	4086	-	111.0	115.0	4.0	<.002	
			4087	-	115.0	118.0	3.0	<.002	
			4088	-	118.0	120.6	2.6	<.002	
120.6	335.8	<u>MAFIC FLOWS</u> - dark green, fine to medium grained, massive to slightly foliated, amphibolitic, 1-3% quartz ± carbonate and carbonate stringers, trace-1% pyrite as stringers, blebs, disseminated grains.							
		- 120.6' to 123.3' - light green, carbonatized, closely spaced fractures with quartz ± carbonate infillings and 1-2% pyrrhotite and pyrite blebs.	4089	1-2	120.6	123.3	2.7	<.002	

LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-87A-41 SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au				
					FROM	TO	TOTAL	%	oz ton	oz ton	
		- 128.8' to 132.0' - 2-3% quartz veining, 2-3% pyrite.	4090	2-3	128.8	132.0	3.2			<.002	
		- 167.5' to 172.5' - 3-5% irregular carbonate veins and stringers.	4091	-	167.5	172.5	5.0			<.002	<.002 (check)
		- 189.5' to 190.0' - quartz vein, hematite stained, trace garnet.	4092	-	189.5	190.0	0.5			<.002	
		- 197.0' to 198.0' - 0.5 foot quartz ± carbonate vein, banded, trace-0.5% pyrite.	4093	tr-0.5	197.0	198.0	1.0			<.002	
		- 250.7' to 267.0' - quartz ± carbonate vein, banded, 10-20% carbonate, inclusions of chlorite, amphibole and trace tourmaline, 22° to subparallel to core axis.	4094	-	250.7	253.7	3.0			<.002	
			4095	-	253.7	257.0	3.3			<.002	
			4096	-	257.0	262.0	5.0			<.002	
			4097	-	262.0	267.0	5.0			<.002	
		- 280.0' to 283.5' - 2-3% quartz ± carbonate veining, 1-2% tourmaline bands.	4098	-	280.0	283.5	3.5			<.002	
		- 283.5' to 289.1' - tuff, crudely banded, 3-5% biotite.	4099	-	283.5	287.0	3.5			<.002	
			4100	-	287.0	289.1	2.1			<.002	<.001 (check)
		- 289.1' to 305.1' - irregular fractures with quartz ± carbonate infilling, 0.1 foot irregular green feldspar stringer with 1-2% disseminated pyrite, 1-2% carbonate.	4101	1-2	289.1	292.1	3.0			<.002	
			4102	1-2	292.1	295.1	3.0			<.002	
			4103	1-2	295.1	300.1	5.0			<.002	
			4104	1-2	300.1	305.1	5.0			<.002	
			4105	-	305.1	308.1	3.0			<.002	
			4106	-	308.1	311.5	3.4			<.002	
		- 311.5' to 313.5' - fractured with quartz ± carbonate infillings.	4107	-	311.5	315.4	3.9			<.002	
		- 315.4' to 316.5' - carbonatized flows.	4108	-	315.4	316.5	1.1			<.002	
			4109	-	316.5	321.5	5.0			<.002	<.002 (check)
			4110	-	321.5	324.0	2.5			.004	
		- 324.0' to 335.8' - fractured, quartz ± carbonate infillings.	4111	-	324.0	327.0	3.0			<.002	
			4112	-	327.0	331.6	4.6			<.002	
			4113	-	331.6	335.8	4.2			<.002	<.002 (check)

Foliation at 40° to core axis at 130.0', 33° at 160.0', 37° at 187.0', 47° at 212.0'; fractures at 62° to core axis at 130.0', 63° at 157.0', 50° at 187.0', 55° at 222.0', 17° and 50° at 274.0', 35° at 287.0', 50° at 331.5'.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-87A-41 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au				
				FROM	TO	TOTAL	%	%	OZ TON	OZ TON	
335.8	337.4	<p><u>GRAPHITIC SCHIST</u> - grey to white to buff, fine grained, schistose.</p> <p><u>Average Modes</u></p> <p>Quartz 45 - 50% Sericite 20 - 25% Graphite 10 - 15% Carbonate 3 - 5% Pyrite 3 - 5%</p> <p>Deformed - distorted foliation, wispy banding, pyrite as stringers and blebs.</p>	4114	3-5	335.8	337.4	1.6			tr.	
337.4	433.3	<p><u>FELSIC TO INTERMEDIATE TUFF</u> - typical, banding at 42-46° to core axis.</p> <p>- 347.8' to 350.4' - 0.3 foot quartz ± carbonate stringer, 1-5% disseminated potash feldspar throughout zone.</p> <p>- 362.0' to 366.0' - 0.4 foot quartz ± carbonate veining with trace potash feldspar, garnet and chlorite inclusions.</p> <p>- 371.3' to 375.8' - finely laminated tuff, common lapilli, pervasive potassic alteration, minor epidote bands, abundant fractures with quartz ± carbonate infillings.</p> <p>- 375.8' to 419.0' - 3-5% carbonate bands, eyes, and fracture fillings, 0.5-3% disseminated pyrite, 1-3% disseminated potash feldspar grains, hematite fracture coatings.</p> <p>- 419.0' to 429.0' - highly fractured, 10-15% quartz ± carbonate ± epidote, 1.0 foot quartz ± tourmaline vein, irregular, 3-5% pyrite as disseminated grains in tourmaline and coarse grained blebs in quartz.</p>	4115	-	347.8	350.4	2.6			tr.	
			4116	-	362.0	366.0	4.0			tr.	
			4117	-	371.3	375.8	4.5			tr.	
			4118	0.5-3	375.8	379.3	3.5			tr.	
			4119	0.5-3	379.3	382.8	3.5			tr.	
			4120	0.5-3	382.8	387.8	5.0			tr.	
			4121	0.5-3	387.8	392.8	5.0			tr.	
			4122	0.5-3	392.8	397.8	5.0			tr.	
			4123	0.5-3	397.8	402.8	5.0			tr.	
			4124	0.5-3	402.8	407.0	4.2			tr.	
			4125	0.5-3	407.0	412.0	5.0			tr.	
			4126	0.5-3	412.0	417.0	5.0			tr.	
			4127	0.5-3	417.0	419.0	2.0			tr.	
			4128	3-5	419.0	424.0	5.0			tr.	
			4129	3-5	424.0	429.0	5.0			tr.	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-87A-41 SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		AU				
				FROM	TO	TOTAL			OZ TON	OZ TON	
		- 429.0' to 433.3' - as per 375.8' to 419.0'.	4130	0.5-3	429.0	433.3	4.3			.002	
433.3	435.5	<u>MAFIC FLOWS</u> - dark green, fine grained, massive.	4131	tr-0.5	433.3	435.5	2.2			tr.	
		<u>Average Modes</u>									
		Amphibole									
		Plagioclase									
		Carbonate 2 - 3%									
		Epidote 1 - 2%									
		Pyrite trace - 0.5%									
		Few widely spaced fractures, carbonate and epidote as fine grained stringers.									
435.5	464.9	<u>FELSIC TO INTERMEDIATE TUFF</u> - typical, foliation at 47° to core axis at 457.0', 1-3% pyrite as disseminated grains and stringers, 1-3% quartz ± carbonate and carbonate stringers.	4132	1-3	435.5	438.5	3.0			tr.	
		- 442.0' to 443.7' - highly fractured to brecciated, quartz ± carbonate ± epidote infillings, trace-1% pyrite.	4134	tr-1	442.0	447.0	5.0			tr.	
		- 451.5' to 453.0' - carbonatized, 20-25% fine to medium grained potash feldspar, fractures with carbonate infillings.	4135	1-3	447.0	451.5	4.5			tr.	
			4136	-	451.5	453.0	1.5			tr.	
			4137	1-3	453.0	457.0	4.0			tr.	
			4138	1-3	457.0	462.0	5.0			tr.	
			4139	1-3	462.0	464.9	2.9			tr.	
464.9	470.7	<u>FELSIC TUFF</u> - light grey, fine grained, banded.	4140	1-2	464.9	467.7	2.8			tr.	
			4141	1-2	467.7	470.7	3.0			tr.	
		<u>Average Modes</u>									
		Quartz 60 - 65%									
		Sericite 30 - 35%									
		Chlorite 3 - 5%									
		Pyrite trace									
		Chlorite as wispy bands, narrow zones of tourmaline blebs - mottled with 1-2% pyrite, foliation at 52° to core axis at 468.0'.									
470.7	511.0	<u>FELSIC TO INTERMEDIATE TUFF</u> - trace-3% pyrite as disseminated grains, stringers and fracture coatings.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-41 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au				
				FROM	TO	TOTAL			OZ TON	OZ TON	
		- 470.7' to 472.7' - banded quartz ± tourmaline vein, 1-2% disseminated potash feldspar, 1-2% disseminated pyrite, chlorite and amphibole inclusions, minor vuggy epidote-carbonate bands. 2-3% carbonate fracture fillings.	4142	1-2	470.7	472.7	2.0			tr.	
			4143	tr-3	472.7	477.0	4.3			tr.	
			4144	tr-3	477.0	482.0	5.0			tr.	
			4145	tr-3	482.0	487.0	5.0			tr.	
			4146	tr-3	487.0	492.0	5.0			tr.	
		- 509.0' to 511.0' - 3-5% irregular quartz veining with epidote-amphibole inclusions.	4147	-	509.0	511.0	2.0			tr.	
		Foliation at 51° to core axis at 497.0'.									
511.0	521.6	<u>SILICIFIED FELSIC TO INTERMEDIATE TUFF</u> - increasing silica content down hole, foliation at 44° to core axis at 519.0'.	4148	-	511.0	515.0	4.0			.002	
			4149	-	515.0	519.0	4.0			tr.	
		- 519.0' to 521.6' - round irregular plagioclase metacrysts, intense potassic alteration (pink) along chloritic fractures parallel to core axis, sharp contact at 521.6'.	4150	-	519.0	521.6	2.6			tr.	
521.6	534.2	<u>MAFIC FLOWS</u> - typical, 3-5% quartz ± carbonate veining - stringers, trace-0.5% disseminated pink garnets, trace pyrite and pyrrhotite, minor bands of felted amphibole, foliation at 52° to core axis at 525.0'.	4151	tr.	521.6	526.6	5.0			tr.	
			4152	tr.	526.6	531.6	5.0			.002	
			4153	tr.	531.6	534.6	2.6			.002	
534.2	601.8	<u>SHEARED - SILICIFIED MAFIC VOLCANICS AND IRON FORMATION</u> - dark grey to dark green to pink, fine to medium grained, massive to poorly banded and mottled.									
		<u>Average Modes</u>									
		Quartz			30	-	35%				
		Amphibole			20	-	25%				
		Plagioclase			15	-	20%				
		Garnet			2	-	5%				
		Magnetite			trace	-	5%				
		Carbonate			1	-	3%				
		Pyrrhotite			1	-	3%				
		Pyrite			1	-	2%				
		Potash Feldspar			1	-	2%				

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DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-R7A-41 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au		OZ TON	OZ TON
					FROM	TO	TOTAL	%		
		Variably textured, porphyroblastic, fine to medium grained garnets throughout; zones of porphyroblastic albite and potash feldspar throughout; fine grained quartz-plagioclase ± magnetite bands alternate with amphibole ± garnet ± pyrrhotite bands; magnetite occurs exclusive of pyrrhotite; magnetite occurs as disseminated grains and blebs; pyrrhotite occurs as fine, wispy blebs; pyrite as fracture coatings; 2-3% quartz ± carbonate stringers with garnet and amphibole haloes (grunerite?); competent rock with few fractures; quartz ± carbonate veining occurs discordant to banding - foliation.								
		- 537.0' to 538.9' - no garnets, 5-10% medium grained albite porphyroblasts.	4154	2-5	534.2	537.0	2.8			.016
			4155	2-5	537.0	538.9	1.9			tr.
			4156	2-5	538.9	542.0	3.1			tr.
			4157	2-5	542.0	547.0	5.0			tr.
			4158	2-5	547.0	552.0	5.0			tr.
			4159	2-5	552.0	557.0	5.0			tr.
			4160	2-5	557.0	561.0	4.0			tr.
			4161	2-5	561.0	563.9	2.9			tr.
		- 563.9' to 567.0' - as above.	4162	2-5	563.9	567.9	4.0			tr.
		- 567.9' to 573.5' - as above.	4163	2-5	567.9	570.9	3.0			tr.
			4164	2-5	570.9	573.5	2.6			tr.
		- 573.5' to 581.2' - fine grained, no garnets.	4165	2-5	573.5	577.0	3.5			tr.
			4166	2-5	577.0	581.2	4.2			.026
		- 581.2' to 582.4' - carbonate vein, banded, 2-3% disseminated pyrite, amphibole-chlorite inclusions	4167	2-3	581.2	582.4	1.2			.060
			4168	2-5	582.4	587.0	4.6			.004
			4169	2-5	587.0	592.0	5.0			tr.
		- 592.0' to 601.8' - no garnets, fine grained, mottled.	4170	2-5	592.0	597.0	5.0			tr.
			4171	2-5	597.0	601.8	4.8			tr.
601.8	607.0	MAFIC FLOWS - atypical.	4172	tr-2	601.8	604.7	2.9			tr.
		- 601.8' to 602.3' - fine grained, massive, 1-2% magnetite.								
		- 602.3' to 604.0' - medium grained, amphibolitic, 1-2% pyrrhotite, weakly magnetic.								

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.052 (check)

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-87A-41 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE		AU						
					FROM	TO	TOTAL	%	OZ TON	GZ TON			
		- 604.0' to 604.7' - fine grained, mottled, 3-5% magnetite as disseminated grains.											
		- 604.7' to 607.0' - fine to medium grained, massive, abundant sericitized plagioclase grains, 1-2% quartz ± carbonate stringers.	4173	-	604.7	607.0	2.3			.008			
		Foliated at 60° to core axis at 607.0'.											
607.0		<u>END OF HOLE</u>											

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNTS
 HOLE NO. KAS-88-1 LENGTH 650 feet
 LOCATION L12+00W, 16+29N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -58°
 STARTED January 8, 1988 FINISHED January 10, 1988

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	+58.0°				
200'	+53.0°				
400'	+51.0°				
600'	+44.0°				

HOLE NO. KAS-88-1 SHEET NO. 1 of 2

REMARKS Pa 786809, 786810

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	SUPPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0.0	22.0	<u>CASING</u>							
22.0	45.3	<u>FELSIC TO INTERMEDIATE TUFF</u>							
45.3	50.2	<u>FELSIC CRYSTAL TUFF</u>							
50.2	63.7	<u>INTERBEDDED FELSIC TO INTERMEDIATE TUFF AND FELSIC CRYSTAL TUFF</u>							
63.7	67.6	<u>MAFIC DYKE</u>							
67.6	74.9	<u>FELSIC TO INTERMEDIATE TUFF</u>							
74.9	83.7	<u>MAFIC DYKE</u>							
83.7	97.0	<u>FELSIC TO INTERMEDIATE TUFF</u>							
97.0	102.5	<u>MAFIC DYKE</u>							
102.5	128.2	<u>INTERMEDIATE TUFF</u>							
128.2	129.4	<u>MAFIC DYKE</u>							
129.4	142.4	<u>INTERMEDIATE TUFF</u>							
142.4	151.8	<u>MYLONITE</u>							
151.8	285.0	<u>MAFIC FLOWS</u>							
285.0	301.3	<u>MAFIC TO INTERMEDIATE TUFF</u>							
301.3	323.1	<u>MAFIC FLOWS</u>							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-1 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		Au			
					FROM	TO	TOTAL	OZ TON		OZ TON
323.1	324.2	<u>BANDED IRON FORMATION</u>								
324.2	326.2	<u>INTERMEDIATE TUFF</u>								
326.2	356.8	<u>MAFIC FLOWS</u>								
356.8	477.4	<u>INTERBEDDED FELSIC TO INTERMEDIATE TUFF AND FELSIC CRYSTAL TUFF</u>								
477.4	526.8	<u>INTERMEDIATE TUFF</u>								
526.8	598.0	<u>SHEARED - SILICIFIED MAFIC VOLCANICS AND IRON FORMATION</u>	4249		531.8	536.8	5.0		.016	
			4251		541.8	546.7	4.9		.028	
			4255		556.0	559.0	3.0		.160	.172 (check)
			4256		559.0	562.0	3.0		.026	
			4257		562.0	564.5	2.5		.106	.114 (check)
			4258		564.5	567.0	2.5		.044	
			4262		577.4	580.0	2.6		.080	.084 (check)
			4263		580.0	583.0	3.0		.160	.160 (check)
			4264		583.0	586.0	3.0		.076	.082 (check)
598.0	650.0	<u>MAFIC FLOWS</u>								
	650.0	<u>END OF HOLE</u>								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-1 LENGTH 650 feet
 LOCATION L12+00W, 16+29N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -58°
 STARTED January 8, 1988 FINISHED January 10, 1988

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-58.0°				
200'	-53.0°				
400'	-51.0°				
600'	-44.0°				

HOLE NO. KAS-88-1 SHEET NO. 1 of 9

REMARKS Pa 786809, 786810

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au				
				FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON	
0.0	22.0	<u>CASING</u>									
22.0	45.3	<u>FELSIC TO INTERMEDIATE TUFF</u> - dark grey, fine grained, banded to laminated. <u>Average Modes</u> Quartz Plagioclase Amphibole Potash Feldspar 2 - 3% Epidote 2 - 3% Chlorite 1 - 2% Carbonate 1 - 2% Pyrite trace Finely banded to laminated, variable band composition, highly fractured with zones of weak to pervasive potassic alteration and epidotization; 1-2% quartz ± carbonate stringers; foliation at 42° to core axis at 25.0', 50° at 39.0'; fracturing at 55° to core axis at 25.0'.	4174	tr.	22.0	27.0	5.0			tr.	
			4175	tr.	27.0	32.0	5.0			tr.	
			4176	tr.	32.0	37.0	5.0			tr.	
			4177	tr.	37.0	42.0	5.0			tr.	
			4178	tr.	42.0	45.3	3.3			tr.	
45.3	50.2	<u>FELSIC CRYSTAL TUFF</u> - dark grey, fine grained groundmass with medium grained irregular white quartz crystals, poorly foliated. <u>Average Modes</u> Quartz 45 - 50% Plagioclase 30 - 35% Potash Feldspar 5 - 10% Chlorite 3 - 5%	4179		45.3	50.2	4.9			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-1 SHEET NO. 2 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS									
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au							
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON				
		10-15% quartz clasts and 3-5% feldspar clasts, 1-2% quartz stringers, foliated at 46° to core axis.													
50.2	63.7	<u>INTERBEDDED FELSIC TO INTERMEDIATE TUFF AND FELSIC CRYSTAL TUFF - 80:20; typical, narrow crystal tuff bands, highly fractured, pervasive epidote and potassic alteration, trace-1% disseminated pyrite.</u>	4180	tr-1	50.2	55.2	5.0						tr.		
			4181	tr-1	55.2	60.2	5.0							tr.	
			4182	tr-1	60.2	63.7	3.5							tr.	
63.7	67.6	<u>MAFIC DYKE - dark green to black to white, massive, fine to medium grained.</u>	4183	tr-2	63.7	67.6	3.9							tr.	
		<u>Average Modes</u>													
		Plagioclase 30 - 35%													
		Amphibole 30 - 35%													
		Chlorite 15 - 20%													
		Biotite 3 - 5%													
		Carbonate 3 - 5%													
		Pyrite trace - 2%													
		Equigranular texture, sericitic fractures, sharp discordant contacts at 32° to core axis at 63.7', 38° at 67.6'.													
67.6	74.9	<u>FELSIC TO INTERMEDIATE TUFF - typical, minor potassic alteration, 5-10% fine grained, disseminated sericitized plagioclase grains, 2-3% fine quartz ± carbonate stringers, 2-3% fine grained pyrite, foliation - banding at 42° to core axis at 72.0'.</u>	4184	2-3	67.6	71.1	3.5							tr.	
			4185	2-3	71.1	74.9	3.8								tr.
74.9	83.7	<u>MAFIC DYKE - typical with medium grained pseudomorphs of chlorite after pyroxene, trace pyrite, contacts at 40° to core axis at 83.7', 44° at 74.9'.</u>	4186	tr.	74.9	79.9	5.0							tr.	
			4187	tr.	79.9	83.7	3.8								tr.
83.7	97.0	<u>FELSIC TO INTERMEDIATE TUFF - as per 67.6' to 74.9', foliation - banding at 50° to core axis at 92.0'.</u>	4188	tr.	83.7	87.0	3.3							tr.	
			4189	tr.	87.0	92.0	5.0								tr.
			4190	tr.	92.0	97.0	5.0								tr.
97.0	102.5	<u>MAFIC DYKE - as above with 3-5% potassic alteration, trace pyrite, contacts at 45° to core axis at 97.0', 55° at 102.5', cleavage at 50° to core axis at 99.0'.</u>	4191	tr.	97.0	100.0	3.0							tr.	
			4192	tr.	100.0	102.5	2.5								tr.

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-1 SHEET NO. 3 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			AU				
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON	
102.5	128.2	INTERMEDIATE TUFF - dark greenish-grey, fine grained, poorly banded. <u>Average Modes</u> Quartz 25 - 30% Plagioclase 25 - 30% Amphibole 15 - 20% Chlorite 10 - 15% Carbonate 1 - 3% Epidote 1 - 2% Small zones of intense fracturing with carbonate infill; 1-2% quartz ± carbonate stringers; foliation at 44° to core axis at 112.0', 52° at 127.0'. - 113.0' to 117.0' - narrow highly fractured zones with 10-15% epidote-carbonate infill.	4193		102.5	107.0	4.5					tr.
			4194		107.0	110.0	3.0					tr.
			4195		110.0	113.0	3.0					tr.
			4196		113.0	117.0	4.0					tr.
128.2	129.4	MAFIC DYKE - typical, contacts at 43° to core axis at 128.2', 45° at 129.4'.	4197	tr.	128.2	129.4	1.2					tr.
129.4	142.4	INTERMEDIATE TUFF - as above, foliation at 49° to core axis at 137.0'. - 138.0' to 142.4' - 10-15% epidote-carbonate infilling of fractures.	4198		129.4	134.0	4.6					tr.
			4199		134.0	138.0	4.0					tr.
			4200		138.0	142.4	4.4					tr.
142.4	151.8	MYLONITE - dark grey to orangy-pink, fine grained, foliated. <u>Average Modes</u> Quartz 45 - 50% Potash Feldspar 20 - 25% Plagioclase/Sericite 15 - 20% Chlorite 3 - 5% Carbonate 1 - 2% Parting - cleavage along chloritic laminae at 45° - 50° to core axis.	4201		142.4	147.0	4.6					tr.
			4202		147.0	151.8	4.8					tr.

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-1 SHEET NO. 4 of 9

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	G/TON	G/TON
					FROM	TO				
151.8	285.0	<p>MAFIC FLOWS - dark green to black, fine to medium grained, massive.</p> <p><u>Average Modes</u></p> <p>Amphibole 40 - 45% Plagioclase 40 - 45% Epidote 2 - 5% Quartz 2 - 5% Carbonate 2 - 5% Pyrite trace - 3%</p> <p>Massive to amphibolitic, 2-5% quartz ± carbonate stringers with tourmaline-pyrite, 1-3% disseminated pyrite in some horizons; quartz ± carbonate ± epidote interflow; competent few widely spaced fractures.</p>								
		- 151.8' to 155.6' - fine grained, massive, cleavage at 45° to core axis.	4203	tr.	151.8	155.6	3.8			tr.
		- 155.6' to 162.3' - fine grained, highly fractured, 3-5% quartz ± carbonate ± epidote fracture fill, stringers	4204	tr.	155.6	159.1	3.5			tr.
		3-7% carbonate.	4205	tr.	159.1	162.3	3.2			tr.
		- 162.3' to 171.2' - fine grained, 1-3% quartz ± carbonate stringers, 2-3% disseminated pyrite blebs, cleavage at 60° to core axis at 169.0'.	4206	tr.	162.3	167.0	4.7			tr.
			4207	tr.	167.0	171.2	4.2			tr.
		- 171.2' to 178.1' - fine grained, discordant irregular tourmaline-pyrite bands with quartz-rich haloes, 3-5% coarse grained pyrite fracture fillings and disseminated blebs, cleavage - fracture at 45° - 48° to core axis.	4208	3-5	171.2	175.0	3.8			tr.
			4209	3-5	175.0	178.1	3.1			tr.
		- 178.1' to 210.0' - amphibolitic, medium grained, 5-10% carbonate-epidote interflow, narrow quartz stringers with wispy tourmaline and 1-2% pyrite blebs, narrow zones of sericitized plagioclase, foliation - cleavage at 50° - 54° to core axis	4210	1-2	190.2	193.5	3.3			.002
			4211	1-2	193.5	197.0	3.5			.044
			4212	1-2	197.0	202.0	5.0			tr.
			4213	1-2	202.0	207.0	5.0			tr.
			4214	1-2	207.0	210.0	3.0			tr.
		- 210.0' to 219.9' - fine to medium grained, massive.								
		- 219.9' to 222.5' - fine grained, silicified, 2-3% coarse grained pyrite, pyrrhotite blebs, 2-3% tourmaline blebs.	4215	2-3	219.9	222.5	2.6			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-1 SHEET NO. 5 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO				
		- 222.5' to 249.2' - amphibolitic, medium grained, minor wispy albite grains, 1-2% quartz ± carbonate stringers.								
		- 249.2' to 251.0' - fine grained, schistose, 5-10% carbonate, foliation at 53° to core axis.	4216		249.2	251.0	1.8			tr.
		- 251.0' to 261.5' - as per 222.5' to 249.2'.								
		- 261.5' to 265.1' - banded, 2-3% wispy biotite, 3-5% quartz ± carbonate stringers-veins (banded), banding - foliation at 47° to core axis.	4217		261.5	265.1	3.6			tr.
		- 265.1' to 285.0' - amphibolitic, coarse grained.								
		- 269.5' to 271.0' - 0.4 foot schistose horizon with banded quartz ± carbonate stringers-veins, foliation at 40° to core axis.	4218		269.5	271.0	1.5			tr.
			4219		282.0	285.0	3.0			tr.
285.0	301.3	<u>MAFIC TO INTERMEDIATE TUFF</u> - dark green, fine grained, poorly banded.								
		<u>Average Modes</u>								
		Amphibole 45 - 50%								
		Sericite 20 - 25%								
		Biotite 5 - 10%								
		Quartz 5 - 7%								
		Chlorite 3 - 5%								
		Carbonate 1 - 3%								
		Alternating quartz-sericite and amphibole bands, 1-2% quartz ± carbonate stringers, wispy biotite bands throughout, foliation - banding at 48° to core axis at 292.0', 52° at 301.3'.								
301.3	323.1	<u>MAFIC FLOWS</u> - typical, massive, few widely spaced fractures.								
		- 301.3' to 303.8' - fracturing with quartz ± carbonate infilling and epidote alteration haloes.	4220		301.3	303.8	2.5			tr.
		- 321.1' to 323.1' - as above.	4221		321.1	323.1	2.0			tr.

LANGRIDGES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-1 SHEET NO. 6 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au				
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON	
323.1	324.2	<u>BANDED IRON FORMATION</u> - black to green, fine grained, well banded. <u>Average Modes</u> Amphibole 30 - 35% Quartz 25 - 30% Magnetite 20 - 25% Carbonate 5 - 7% Pyrrhotite 2 - 3% Typical oxide facies iron formation; 5-10% of amphibole is grunerite; pyrrhotite as wispy bands; banding at 50° to core axis.	4222	2-3	323.1	324.2	1.1					tr.
324.2	326.2	<u>INTERMEDIATE TUFF</u> - typical, foliation - banding at 50° to core axis.										
326.2	356.8	<u>MAFIC FLOWS</u> - typical, few widely spaced fractures, 1-3% quartz ± carbonate ± epidote stringers, trace pyrite, fracture at 45° to core axis at 344.0', cleavage at 60° to core axis at 345.0'. - 353.4' to 356.8' - 1-2% quartz ± carbonate with 2-3% coarse grained pyrite blebs.	4223	2-3	353.4	356.8	3.4					tr.
356.8	477.4	<u>INTERBEDDED FELSIC TO INTERMEDIATE TUFF AND FELSIC CRYSTAL TUFF</u> - 80:20; typical. - 356.8' to 428.0' - predominantly felsic to intermediate. - 356.8' to 358.6' - distorted banding, 5-15% carbonate. - 367.0' to 385.6' - weak potassic and epidote alteration, 1-3% quartz ± carbonate stringers, minor fracture - breccia zones, carbonate-hematite coatings on fractures. - 413.3' to 414.8' - banded, quartz vein, 1-2% potash feldspar, trace garnet, chlorite-amphibole inclusions, banding at 61° to core axis.	4224		356.8	358.6	1.8					tr.
			4225		358.6	362.0	3.4					tr.
			4226		362.0	367.0	5.0					tr.
			4227		367.0	372.0	5.0					tr.
			4228		372.0	377.0	5.0					tr.
			4229		377.0	382.0	5.0					tr.
			4230		382.0	385.6	3.6					tr.
			4231		385.6	389.0	3.4					tr.
			4232		389.0	392.0	3.0					tr.
			4233		392.0	397.0	5.0					tr.
			4234		413.3	414.8	1.5					tr.

LANGRISHES - TORONTO - 366-1188

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-1 SHEET NO. 7 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS AU						
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	%	OZ TON	OZ TON	
		- 417.5' to 427.0' - 3-5% quartz ± carbonate veining ± trace tourmaline, trace-0.5% pyrite, pyrrhotite, chalcopyrite, biotite, chlorite inclusions, 1-2% potash feldspar.	4235	tr-0.5	417.5	422.0	4.5				tr.	
			4236	tr-0.5	422.0	427.0	5.0				tr.	
		- 428.0' to 451.4' - felsic crystal tuff,										
		- 437.0' to 438.0' - 5-10% epidote.	4237		437.0	438.0	1.0				tr.	
			4238		438.0	442.0	4.0				tr.	
		- 442.0' to 451.4' - highly fractured with epidote fracture fill, moderate - pervasive potassic alteration, trace pyrite.	4239	tr.	442.0	447.0	5.0				tr.	
			4240	tr.	447.0	451.4	4.4				tr.	
		- 451.4' to 477.4' - interbedded tuffs, 1-2% quartz ± carbonate veining, trace-0.5% pyrite.										
		- 462.0' to 465.0' - 3-5% quartz ± carbonate veining.	4241		462.0	465.0	3.0				tr.	
		- 473.0' to 477.4' - fractured, 2-3% quartz veining, 3-5% carbonate throughout.	4242		473.0	477.4	4.4				tr.	
		Foliation - cleavage at 51° to core axis at 365.0', 44° at 374.0', 56° at 388.0', 58° at 428.0', 53° at 452.0', 62° at 467.0', 64° at 487.0'.										
477.4	526.8	<u>INTERMEDIATE TUFF</u> - atypical, greenish-grey, poorly banded, trace pyrite, few widely spaced fractures, may represent a welded tuff, 1-2% quartz ± carbonate stringers, foliation at 53° to core axis at 517.0'.	4243	tr.	477.4	482.4	5.0				tr.	
			4244	tr.	502.0	507.0	5.0				tr.	
		- 517.5' to 519.5' - 1-2% quartz ± tourmaline stringers.	4245	tr.	517.5	519.5	2.0				tr.	
		- 519.5' to 526.8' - strong chloritic cleavage at 70° to core axis, 1-2% carbonate stringers.	4246	tr.	519.5	523.5	4.0				tr.	
			4247	tr.	523.5	526.8	3.3				tr.	
526.8	598.0	<u>SHEARED SILICIFIED MAFIC VOLCANICS AND IRON FORMATION</u> - dark grey to dark green, fine to medium grained, poorly banded.										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-1 SHEET NO. 8 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Au		
					FROM	TO			TOTAL	OZ TON	OZ TON
		<u>Average Modes</u>									
		Quartz 25 - 30%									
		Amphibole 20 - 25%									
		Plagioclase 10 - 15%									
		Grunerite 5 - 10%									
		Magnetite 3 - 5%									
		Carbonate 3 - 5%									
		Pyrrhotite 2 - 5%									
		Pyrite 2 - 3%									
		Garnet trace - 2%									
		Variable textures, banded to amphibolitic, banded to disseminated medium grained porphyroblastic pink garnets in amphibole bands, magnetite as fine disseminated grains exclusive of wispy pyrrhotite bands or grunerite haloes around quartz ± carbonate stringers, pyrite as stringers and fracture coatings; foliation at 70° to core axis at 527.0', 52° at 537.0', 62° at 556.0', 67° at 587.0'; fracture - cleavage at 28° to core axis at 528.0', 40° at 537.0', 23° at 576.0', 20° at 587.0'.									
		- 526.8' to 546.7' - Mafic Volcanic, fine to medium grained, non-magnetic, 3-5% banded quartz ± carbonate veins 1-2% disseminated pyrite, pyrrhotite.	4248	1-2	526.8	531.8	5.0			tr.	
			4249	1-2	531.8	536.8	5.0			.016	
			4250	1-2	536.8	541.8	5.0			.002	
			4251	1-2	541.8	546.7	4.9			.028	
		- 546.7' to 567.0' - Volcanics and Iron Formation, 3-5% quartz ± carbonate stringers with grunerite haloes, discordant to foliation, 3-5% pyrite stringers wispy pyrrhotite blebs.	4252	3-5	546.7	550.0	3.3			tr.	
			4253	3-5	550.0	553.0	3.0			tr.	
			4254	3-5	553.0	556.0	3.0			tr.	
			4255	3-5	556.0	559.0	3.0			.160	.172 (check)
			4256	3-5	559.0	562.0	3.0			.026	
			4257	3-5	562.0	564.5	2.5			.106	.114 (check)
			4258	3-5	564.5	567.0	2.5			.044	
		- 567.0' to 574.1' - Amphibolitic Volcanic, medium grained, trace garnet, trace sulphides, minor magnetic zones.	4259	tr.	567.0	570.5	3.5			.002	
			4260	tr.	570.5	574.1	3.6			tr.	
		- 574.1' to 577.4' - Volcanics and Iron Formation, as above.	4261	3-5	574.1	577.4	3.3			tr.	
		- 577.4' to 586.0' - Volcanics and Iron Formation, siliceous, 3-5% pyrite as disseminated grains, blebs and stringers along quartz ± carbonate ± chlorite fractures, non-magnetic.	4262	3-5	577.4	580.0	2.6			.080	.084 (check)
			4263	3-5	580.0	583.0	3.0			.160	.160 (check)
			4264	3-5	583.0	586.0	3.0			.076	.082 (check)

LANGRAGES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-1 SHEET NO. 9 of 9

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 586.0' to 598.0' - Volcanics and Iron Formation, magnetic, trace garnets, 2-5% quartz stringers and veins with grunerite haloes, 2-5% magnetite.	4265		586.0	589.0	3.0			.008	
			4266		589.0	592.0	3.0			tr.	
			4267		592.0	595.5	3.5			.002	
			4268		595.5	598.0	2.5			tr.	
598.0	650.0	MAFIC FLOWS - fine grained, schistose to medium grained, amphibolitic, 1-3% pyrite as fracture coatings, stringers and disseminated grains, 1-3% quartz ± carbonate stringers, minor tourmaline-biotite-pyrite bands and 3-5% medium grained potash-feldspar grains and alteration along fractures; foliation at 64° to core axis at 617.0', 62° at 622.0', 70° at 646.0'; fractures at 20° to core axis at 617.0', 20° at 645.0'.	4269	1-3	598.0	603.0	5.0			tr.	
			4270	1-3	603.0	608.0	5.0			tr.	
			4271	1-3	608.0	612.0	4.0			tr.	
			4272	1-3	612.0	617.0	5.0			tr.	
			4273	1-3	617.0	622.0	5.0			tr.	
			4274	1-3	622.0	627.0	5.0			tr.	
			4275	1-3	627.0	632.0	5.0			tr.	
			4276	1-3	632.0	637.0	5.0			tr.	
			4277	1-3	637.0	642.0	5.0			tr.	
			4278	1-3	642.0	647.0	5.0			tr.	
			4279	1-3	647.0	650.0	3.0			tr.	
	650.0	<u>END OF HOLE</u>									

J. M. ...

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-2 LENGTH 492 feet
 LOCATION L12+00W, 15+22N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -56°
 STARTED January 11, 1988 FINISHED January 12, 1988

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-56.0°				
200'	-55.0°				
425'	-50.0°				

HOLE NO. KAS-88-2 SHEET NO. 1 of 1

REMARKS Pa 786809, 786810

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	25.0	<u>CASING</u>									
25.0	238.0	<u>MAFIC FLOWS</u>									
238.0	319.8	<u>FELSIC TO INTERMEDIATE TUFF</u>									
319.8	321.8	<u>MAFIC FLOW</u>									
321.8	365.0	<u>FELSIC TO INTERMEDIATE TUFF</u>									
365.0	421.9	<u>INTERMEDIATE FLOWS</u>									
421.9	431.5	<u>MAFIC FLOWS</u>									
431.5	481.2	<u>SHEARED-SILICIFIED MAFIC VOLCANICS AND IRON FORMATION</u>	4354		436.5	441.5	5.0			.012	
			4355		441.5	444.5	3.0			.030	
			4356		444.5	447.5	3.0			.064	.056 (check)
			4361		459.5	462.5	3.0			.022	
			4362		462.5	465.5	3.0			.268	.286 (check)
			4363		465.5	468.5	3.0			.106	.108 (check)
			4364		468.5	472.5	4.0			.100	.098 (check)
			4366		475.0	478.0	3.0			.056	.062 (check)
481.2	492.0	<u>MAFIC FLOWS</u>									
	492.0	<u>END OF HOLE</u>									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-2 LENGTH 492 feet
 LOCATION L12+00W, 15+22N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -56°
 STARTED January 11, 1988 FINISHED January 12, 1988

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-56.0°				
200'	-55.0°				
425'	-50.0°				

HOLE NO. KAS-88-2 SHEET NO. 1 of 6

REMARKS Pa 786809, 786810

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			AU					
					FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON		
0.0	25.0	<u>CASING</u>											
25.0	238.0	<u>MAFIC FLOWS</u> - dark green to black, fine to medium grained, massive. <u>Average Modes</u> Amphibole Plagioclase Quartz Carbonate 2 - 5% Pyrite trace - 2% Chalcopyrite trace Fine grained, massive flows with 1-2% quartz ± carbonate stringers, 1-2% disseminated pyrite, trace chalcopyrite, medium grained, banded, amphibolitic flows with 3-5% quartz ± carbonate stringers. - 25.0' to 40.9' - fine grained flows. - 25.0' to 27.0' - banded quartz vein with mafic fragments as inclusions. - 32.0' to 33.5' - 0.5 foot quartz vein with 0.5-1% pyrite and silicified volcanic inclusions. - 40.9' to 98.4' - medium grained flows. - 64.2' to 68.1' - highly fractured - brecciated, 1-3% quartz ± carbonate fracture fillings.											
			4280	tr.	25.0	27.0	2.0					tr.	
			4281	1-2	27.0	32.0	5.0					tr.	
			4282	0.5-1	32.0	37.0	5.0					tr.	
			4283	0.5-1	37.0	40.9	3.9					tr.	
			4284		40.9	44.0	3.1					tr.	
			4285		44.0	47.0	3.0					tr.	
			4286		47.0	52.0	5.0					tr.	
			4287		52.0	57.0	5.0					tr.	
			4288		57.0	62.0	5.0					tr.	
			4289		62.0	64.2	2.2					.002	
			4290		64.2	68.1	3.9					tr.	
			4191		68.1	72.0	3.9					tr.	
			4192		72.0	77.0	5.0					tr.	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-2 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au					
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON		
		- 98.4' to 103.3' - fine grained flows, 3-5% quartz ± carbonate stringers.	4293		77.0	82.0	5.0					tr.	
			4294		82.0	87.0	5.0					tr.	
			4295		87.0	92.0	5.0					.002	
			4296		92.0	96.0	4.0					tr.	
			4297		96.0	98.4	2.4					tr.	
			4298		98.4	103.3	4.9					tr.	
		- 103.3' to 127.0' - medium grained, amphibolite.	4299		103.3	107.0	3.7					tr.	
		- 127.0' to 133.6' - mafic tuff, 5-7% biotite bands, 3-5% quartz and carbonate bands, carbonate stringers, banding at 50° to core axis.	4300		127.0	130.0	3.0					tr.	
			4301		130.0	133.6	3.6					tr.	
		- 133.6' to 202.3' - coarse grained amphibolite, few widely spaced fractures.											
		- 141.5' to 146.5' - irregular mottled quartz-plagioclase veining.	4302		141.5	146.5	5.0					tr.	
		- 152.0' to 157.0' - as above.	4303		152.0	157.0	5.0					tr.	
		- 172.0' to 177.0' - irregular, quartz veining.	4304		172.0	177.0	5.0					tr.	
			4305		177.0	182.0	5.0					tr.	
			4306		182.0	187.0	5.0					tr.	
		- 182.0' to 187.0' - banded carbonate veining, quartz ± carbonate fracture fillings.											
		- 202.3' to 229.7' - medium grained flows, 1-3% quartz ± carbonate stringers, trace-1% disseminated pyrite and pyrrhotite.											
		- 202.3' to 204.8' - fracturing with cherty quartz ± carbonate fracture infillings and stringers.	4307	tr-1	202.3	204.8	2.5					tr.	
			4308		204.8	207.0	2.2					tr.	
		- 207.0' to 209.0' - schistose horizon, 2-3% irregular quartz ± carbonate stringers.	4309		207.0	209.0	2.0					tr.	
			4310		209.0	212.0	3.0					tr.	
			4311		212.0	217.0	5.0					tr.	
			4312		217.0	222.0	5.0					tr.	
			4313		222.0	227.0	5.0					tr.	
			4314		227.0	229.7	2.7					tr.	
		- 229.7' to 238.0' - fine grained flows, 1-3% quartz ± carbonate stringers, trace-1% disseminated pyrite and pyrrhotite.	4315		229.7	233.0	3.3					.002	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-2 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS Au					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	OZ TON	OZ TON		
					FROM	TO				TOTAL	
238.0	319.8	- 233.0' to 238.0' - distorted, irregular fractures with carbonate infillings. Foliation - banding averages 48.45° to core axis; fractures vary from 46° to 68° to core axis and average 51°. <u>FELSIC TO INTERMEDIATE TUFF</u> - dark grey to greenish-grey, fine grained, laminated to banded. <u>Average Modes</u> Quartz 35 - 40% Plagioclase 25 - 30% Amphibole 15 - 20% Chlorite 3 - 5% Carbonate 2 - 5% Pyrite trace - 1% Variability in composition and grain size of bands, 1-3% quartz ± carbonate stringers throughout; foliation - banding at 58° to core axis at 245.0', 55° at 257.0', 47° at 271.0', 53° at 297.0', 55° at 304.0'.	4316		233.0	238.0	5.0			tr.	
		- 241.0' to 243.0' - irregular quartz veining, trace garnet, 5-10% carbonate.	4317	tr-1	238.0	241.0	3.0			tr.	
			4318	tr-1	241.0	243.0	2.0			tr.	
			4319	tr-1	243.0	245.6	2.6			tr.	
		- 245.6' to 253.1' - discordant quartz veins, trace sulphides, 0.4 foot amplitude slump fold at top of section.	4320	tr.	245.6	249.1	3.5			tr.	
			4321	tr.	249.1	253.1	4.0			tr.	
			4322	tr-1	253.1	258.0	4.9			tr.	
			4323	tr-1	258.0	263.0	5.0			tr.	
		- 263.0' to 273.5' - 2-3% quartz ± carbonate stringers, 1-3% disseminated pyrite, schistose 1-5% carbonate.	4324	1-3	263.0	268.0	5.0			tr.	
			4325	1-3	268.0	270.5	2.5			tr.	
			4326	1-3	270.5	273.5	3.0			tr.	
			4327	tr-1	273.5	277.8	4.3			tr.	
		- 277.8' to 282.4' - 2-3% quartz ± carbonate stringers, trace tourmaline, highly fractured with epidote-carbonate infillings.	4328	tr.	277.8	282.4	4.6			tr.	
			4329	tr-1	282.4	283.6	1.2			tr.	
			4330	tr-1	283.6	288.0	4.4			tr.	
			4331	tr-1	288.0	289.3	1.3			tr.	
		- 289.3' to 294.1' - banded quartz-carbonate-tourmaline veining, 1-3% disseminated pyrite and pyrrhotite.	4332	1-3	289.3	294.1	4.8			tr.	
			4333	tr-1	294.1	299.1	5.0			tr.	
			4334	tr-1	299.1	301.0	1.9			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-2 SHEET NO. 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au					
					FROM	TO	TOTAL	%	%	GT TON	GT TON	
		- 301.0' to 302.7' - 0.1 foot massive pyrrhotite-carbonate band, 3-5% pyrrhotite-pyrite throughout.	4335	3-5	301.0	305.5	4.5			tr.		
		- 303.9' to 305.5' - 3-5% quartz veining.										
319.8	321.8	MAFIC FLOW - amphibolitic, medium grained, highly fractured, 3-5% quartz ± carbonate stringers.	4336		319.8	321.8	2.0			tr.		
321.8	365.0	FELSIC TO INTERMEDIATE TUFF - typical, 2-3% quartz ± carbonate veining ± trace tourmaline and pyrite, foliation at 52° to core axis across section, fractures at 50° to core axis at 354.0', 45° at 337.0'.	4337	tr.	321.8	327.0	5.2			tr.		
			4338	tr.	327.0	332.0	5.0			tr.		
			4339	tr.	332.0	337.0	5.0			tr.		
			4340	tr.	337.0	342.0	5.0			tr.		
			4341	tr.	342.0	347.0	5.0			tr.		
			4342	tr.	347.0	352.0	5.0			tr.		
			4343	tr.	352.0	357.0	5.0			tr.		
			4344	tr.	357.0	362.0	5.0			tr.		
			4345	tr.	362.0	365.0	3.0			tr.		
365.0	421.9	INTERMEDIATE FLOWS - greyish-green, fine grained, massive to banded.	4346	0.5-1	365.0	369.0	4.0			tr.		
			4347	0.5-1	369.0	374.0	5.0			tr.		
			4348	0.5-1	374.0	379.0	5.0			tr.		
			4349	0.5-1	379.0	384.0	5.0			tr.		
		<u>Average Modes</u>										
		Plagioclase 45 - 50%										
		Amphibole 35 - 40%										
		Chlorite 3 - 5%										
		Quartz] 3 - 5%										
		Carbonate]										
		Pyrite trace - 1%										
		Foliation - cleavage averages 50° to core axis.										
		- 365.0' to 384.0' - weakly carbonatized, 0.5-1% pyrite.	4350	tr-1	417.0	421.9	4.9			tr.		
421.9	431.5	MAFIC FLOWS - amphibolitic, typical, 2-3% quartz ± carbonate veining, closely spaced fractures with quartz ± carbonate infilling.	4351	tr.	421.9	426.5	4.6			tr.		
			4352	tr.	426.5	431.5	5.0			tr.		

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DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGMINNIS

 HOLE NO. KAS-88-2 SHEET NO. 5 of 6

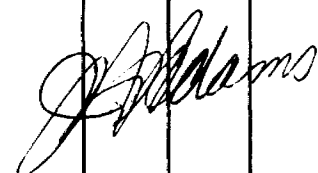
FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	S SULPH IDES	FOOTAGE		%	%	Au		
					FROM	TO			TOTAL	OZ TON	OZ TON
431.5	481.2	<p>SHEARED - SILICIFIED MAFIC VOLCANICS AND IRON FORMATION - dark grey to dark green, fine to medium grained, poorly banded.</p> <p><u>Average Modes</u></p> <p>Quartz 35 - 40% Amphibole 25 - 30% Plagioclase 10 - 15% Garnet trace - 5% Magnetite 3 - 5% Pyrrhotite } 2 - 5% Pyrite } Carbonate 1 - 3% Grunerite 1 - 2%</p> <p>Variable textures from fine grained banded to coarse grained amphibolitic, fine grained disseminated magnetite occurs exclusive of wispy pyrrhotite or grunerite haloes around quartz ± carbonate stringers, banding - foliation at 52° to core axis at 432.5', 57° at 461.0', 55° at 475.5', 50° at 479.0'; fracture - cleavage at 22° to core axis at 467.0' and 475.5', 26° at 479.0'.</p> <p>- 431.5' to 441.5' - Mafic Volcanic, mottled to striped banding, 1-3% quartz ± carbonate stringers, trace-0.5% disseminated pyrite.</p> <p>- 441.5' to 472.5' - Mafic Volcanics and Iron Formation, 2-5% garnet, pink porphyroblasts, narrow zones of 5-7% pyrite as stringers, blebs and disseminated grains.</p> <p>- 472.5' to 475.0' - Siliceous Mafic Volcanics, mottled to massive, 3-5% disseminated magnetite, trace-1% pyrite fracture coatings and disseminated grains.</p>									
			4353	tr-0.5	431.5	436.5	5.0			tr.	
			4354	tr-0.5	436.5	441.5	5.0			.012	
			4355	5-7	441.5	444.5	3.0			.030	
			4356	5-7	444.5	447.5	3.0			.064	.056 (check)
			4357	5-7	447.5	450.5	3.0			.006	
			4358	5-7	450.5	453.5	3.0			.004	
			4359	5-7	453.5	456.5	3.0			tr.	
			4360	5-7	456.5	459.5	3.0			tr.	
			4361	5-7	459.5	462.5	3.0			.022	
			4362	5-7	462.5	465.5	3.0			.268	.286 (check)
			4363	5-7	465.5	468.5	3.0			.106	.108 (check)
			4364	5-7	468.5	472.5	4.0			.100	.098 (check)
			4365	tr-1	472.5	475.0	2.5			.002	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-2 SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	= SULPH IDES	FOOTAGE		%	%	Au		
					FROM	TO			TOTAL	OZ TON	OZ TON
		- 475.0' to 481.2' - Mafic Volcanics with bands of Iron Formation, 5-7% disseminated magnetite, irregular quartz stringers in mafic volcanics with 3-5% disseminated pyrrhotite blebs.	4366	3-5	475.0	478.0	3.0			.056	.062 (check)
			4367	3-5	478.0	481.2	3.2			tr.	
481.2	492.0	<u>MAFIC FLOWS</u> - medium grained, massive, few widely spaced fractures, narrow zones of sericitized plagioclase and medium grained potash feldspar grains at flow boundaries; widely spaced quartz ± carbonate veins, ± 2-3% disseminated pyrite blebs; foliation at 38°-42° to core axis.									
		- 482.6' to 483.2' - banded quartz ± carbonate vein.	4368	tr.	481.2	483.2	2.0			tr.	
			4369	tr.	483.2	486.8	3.6			tr.	
		- 486.8' to 488.8' - irregular quartz vein with 2-3% pyrite.	4370	2-3	486.8	488.8	2.0			tr.	
			4371	tr.	488.8	492.0	3.2			tr.	
	492.0	<u>END OF HOLE</u>									



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-3 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPH IDES	FOOTAGE			Au				
					FROM	TO	TOTAL	oz TON	oz TON			
619.4	665.9	<u>SHEARED - SILICIFIED MAFIC VOLCANICS AND IRON FORMATION</u>	4487		622.4	625.4	3.0			.014		
			4491		634.4	637.4	3.0			.062	.062	(check)
			4492		637.4	640.2	2.8			.088	.088	(check)
			4497		652.2	655.2	3.0			.070	.066	(check)
			4500		661.2	665.9	4.7			.036		
665.9	692.0	<u>MAFIC FLOWS</u>	4501		665.9	670.9	5.0			.010		
	692.0	<u>END OF HOLE</u>										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-3 LENGTH 692 feet
 LOCATION L8+00W, 16+28N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -60°
 STARTED January 12, 1988 FINISHED January 18, 1988

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-60.0°				
200'	-58.0°				
400'	-50.0°				
692'	-38.0°				

HOLE NO. KAS-88-3 SHEET NO. 1 of 8

REMARKS Pa 786810

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON
0.0	91.0	<u>CASING</u>									
91.0	220.3	<u>FELSIC TO INTERMEDIATE TUFF</u> - dark grey, fine grained, laminated to banded. <u>Average Modes</u> Plagioclase 30 - 35% Quartz 25 - 30% Amphibole 25 - 30% Carbonate 1 - 2% Pyrite trace - 1% Epidote 0.5 - 1% Potash Feldspar 0.5 - 1% Variable compositional proportions of bands, zones of fracturing and minor brecciation, foliation - banding at 40° to core axis at 93.0', 141.0', and 191.0'; fracture - cleavage at 52° to core axis at 93.0', 61° at 124.0', 60° at 139.0', 30° at 189.0', fractures at 10° to core axis at 110.0'. - 125.5' to 126.2' - banded quartz-potash-feldspar vein, clean. - 143.6' to 144.9' - banded quartz vein, trace pyrite. - 151.2' to 154.0' - fractured - brecciated, 3-5% pink dolomite infilling angular fractures, carbonatized, irregular - gradational contacts, 0.5-1% pyrite. - 157.0' to 158.0' - pervasive potassic alteration, 3-5% carbonate fracture fillings.									
			4372		125.5	127.0	1.5			tr.	
			4373	tr.	143.6	147.0	3.4			tr.	
			4374		147.0	151.2	4.2			tr.	
			4375	0.5-1	151.2	154.0	2.8			tr.	
			4376		154.0	157.0	3.0			tr.	
			4377		157.0	158.0	1.0			tr.	
			4378		158.0	162.3	4.3			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-3 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			AU					
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON		
220.3	246.9	- 162.3' to 167.3' - banded quartz ± carbonate veining, 0.5-1% pyrite on contacts. - 171.0' to 192.8' - highly fractured, pervasive potassic-epidote alteration.	4379	0.5-1	162.3	167.3	5.0					tr.	
			4380	0.5-1	167.3	171.0	3.7					tr.	
			4381		171.0	175.0	4.0					tr.	
			4382		175.0	178.0	3.0					tr.	
			4383		178.0	181.0	3.0					tr.	
			4384		181.0	186.0	5.0					tr.	
			4385		186.0	189.0	3.0					tr.	
			4386		189.0	192.8	3.8					tr.	
			4387		192.8	198.0	5.2					tr.	
			4388		198.0	203.0	5.0					tr.	
				- 203.0' to 208.0' - 2-3% quartz ± carbonate veining, highly fractured, 3-5% carbonate fracture fillings, trace-0.5% pyrite.	4389	tr-0.5	203.0	208.0	5.0				tr.
				- 216.5' to 217.0' - potassic alteration, chloritic fractures at 8° to core axis.	4390		216.5	220.3	3.8				tr.
				- 219.7' to 220.3' - quartz-epidote stringers, 1-2% carbonate.									
				<u>INTERMEDIATE FLOWS</u> - dark greyish-green, fine grained, foliated.									
				<u>Average Modes</u>									
				Amphibole 35 - 40%									
				Plagioclase 25 - 30%									
		Quartz 15 - 20%											
		Chlorite 5 - 10%											
		Carbonate trace - 2%											
		Weakly - moderately silicified and carbonatized, foliation at 41° to core axis at 220.3', 45° at 227.0'.											
		- 230.5' to 232.0' - 5-7% carbonate, finely disseminated.	4391		230.5	232.0	1.5				tr.		
			4392		232.0	235.8	3.8				tr.		
		- 235.8' to 238.0' - irregular - banded quartz veining, 2-3% potash-feldspar and epidote	4393		235.8	238.0	2.2				tr.		
			4394		238.0	242.0	4.0				tr.		
			4395		242.0	246.9	4.9				tr.		

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-3 SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		AU				
					FROM	TO	TOTAL	%	oz ton	oz ton	
246.9	248.6	<p><u>MYLONITE</u> - light grey to red, fine grained, foliated.</p> <p><u>Average Modes</u></p> <p>Plagioclase Sericite Quartz Potash-Feldspar 3 - 5% Chlorite 3 - 5% Pyrite 0.5 - 1%</p> <p>Strong imposed chloritic foliation at 48° to core axis, disseminated pyrite throughout.</p>	4396	0.5-1	246.9	248.6	1.7			tr.	
248.6	253.0	<p><u>MAFIC DYKE</u> - dark green to black to white, fine to medium grained, massive.</p> <p><u>Average Modes</u></p> <p>Amphibole 65 - 70% Chlorite 15 - 20% Carbonate 5 - 7% Potash-Feldspar 2 - 3%</p> <p>Medium grained chlorite pseudomorphs after pyroxene in fine grained groundmass, cleavage at 55° to core axis, irregular contacts.</p>	4397		248.6	253.0	4.4			tr.	
253.0	254.3	<p><u>MYLONITE</u> - brecciated, 3-5% disseminated pyrite, chloritic fracture fillings, 1-2% carbonate.</p>	4398	3-5	253.0	254.3	1.3			tr.	
254.3	257.8	<p><u>MAFIC DYKE</u> - typical, limonite coatings, brecciated contact at 257.8', contact at 42° to core axis at 254.3', cleavage at 50° to core axis.</p>	4399		254.3	257.8	3.5			tr.	
257.8	269.4	<p><u>INTERMEDIATE FLOWS</u> - weakly to moderately carbonatized, 2-10% carbonate as disseminated grains, stringers; foliation at 47° to core axis at 258.5', 45° at 264.5', 55° at 269.0'.</p> <p>- 264.5' to 267.0' - brecciated - mylonitic, 5-10% carbonate, 3-5% epidote.</p>	4400 4401 4402		257.8 262.0 264.5	262.0 264.5 267.0	4.2 2.5 2.5			tr. tr. tr.	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-3 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		AU				
					FROM	TO	TOTAL	oz TON	62 TON		
269.4	462.7	- 267.0' to 269.4' - weakly carbonatized, narrow bands with 2-3% disseminated magnetite grains, 2-5% banded pyrite. MAFIC FLOWS - dark green to dark greenish-grey, fine to medium grained, massive to foliated. <u>Average Modes</u> Amphibole 40 - 45% Plagioclase 35 - 40% Quartz 5 - 10% Carbonate 2 - 3% Potash-Feldspar 1 - 2% Pyrite trace - 1% Variable textures, fine grained massive to fine grained schistose (carbonatized) to medium grained amphibolitic, foliation at 50° to core axis at 273.0', 288.0' and 385.5', 52° at 427.0', 55° at 446.5', 58° at 462.7', cleavage at 23° to core axis at 302.0', 45° at 315.0', and 460.0', 35° at 427.0'. - 269.4' to 274.7' - fine grained, massive, 2-3% disseminated pyrite. - 274.7' to 330.0' - medium grained, amphibolitic, numerous discordant carbonate-epidote bands, stringers, 0.5-1% disseminated pyrite. - 319.7' to 330.0' - schistose, 3-5% quartz ± carbonate stringers, weak potassic alteration, 1-2% disseminated pyrite. - 330.0' to 378.5' - altered amphibolite, moderate to pervasive potassic alteration, 20-35% potash-feldspar groundmass, chloritized amphibole grains,	4403	2-5	267.0	269.4	2.4			tr.	
			4404	2-3	269.4	272.0	2.6			tr.	
			4405	2-3	272.0	274.7	2.7			tr.	
			4406	0.5-1	274.7	279.7	5.0			tr.	
			4407	0.5-1	279.7	284.7	5.0			tr.	
			4408	0.5-1	284.7	289.7	5.0			tr.	
			4409	0.5-1	289.7	294.7	5.0			tr.	
			4410	0.5-1	294.7	299.7	5.0			tr.	
			4411	0.5-1	299.7	304.7	5.0			tr.	
			4412	0.5-1	304.7	309.7	5.0			tr.	
			4413	0.5-1	309.7	314.7	5.0			tr.	
			4414	0.5-1	314.7	319.7	5.0			tr.	
			4415	1-2	319.7	324.7	5.0			tr.	
			4416	1-2	324.7	327.7	3.0			tr.	
			4417	1-2	327.7	330.0	2.3			tr.	
			4418	tr-2	330.0	335.0	5.0			tr.	
			4419	tr-2	335.0	340.0	5.0			tr.	
			4420	tr-2	340.0	345.0	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-3 SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		5-10% epidote, 2-5% carbonate, highly fractured to massive, trace-2% disseminated pyrite, irregular fracture sets at 45° to 60° to core axis.	4421	tr-2	347.0	352.0	5.0			tr.	
			4422	tr-2	352.0	357.0	5.0			tr.	
			4423	tr-2	357.0	362.0	5.0			tr.	
		- 345.5' to 347.0' - loss of core.	4424	tr-2	362.0	367.0	5.0			tr.	
			4425	tr-2	367.0	372.0	5.0			tr.	
			4426	tr-2	372.0	376.0	4.0			tr.	
			4427	tr-2	376.0	378.5	2.5			tr.	
		- 378.5' to 404.5' - fine grained banded to foliated equivalent of 330.0' to 378.5'.	4428	tr-2	378.5	382.0	3.5			tr.	
			4429	tr-2	382.0	387.0	5.0			tr.	
		- 401.2' to 404.5' - loss of core.	4430	tr-2	387.0	392.0	5.0			tr.	
			4431	tr-2	392.0	397.0	5.0			tr.	
			4432	tr-2	397.0	401.2	4.2			tr.	
		- 404.5' to 462.7' - weak to moderate carbonatization, closely spaced fracture cleavage with quartz ± carbonate infillings, 0.5-2% disseminated potash-feldspar grains, trace-1% disseminated pyrite.	4433	0.5-2	404.5	407.0	2.5			tr.	
			4434	0.5-2	407.0	412.0	5.0			tr.	
			4435	0.5-2	412.0	417.0	5.0			tr.	
			4436	0.5-2	417.0	422.0	5.0			tr.	
			4437	0.5-2	422.0	427.0	5.0			tr.	
			4438	0.5-2	427.0	432.0	5.0			tr.	
			4439	0.5-2	432.0	437.0	5.0			tr.	
			4440	0.5-2	437.0	442.0	5.0			tr.	
			4441	0.5-2	442.0	447.0	5.0			tr.	
			4442	0.5-2	447.0	452.0	5.0			tr.	
			4443	0.5-2	452.0	457.0	5.0			tr.	
			4444	0.5-2	457.0	460.0	3.0			tr.	
			4445	0.5-2	460.0	462.7	2.7			tr.	
462.7	530.2	FELSIC TO INTERMEDIATE TUFF - typical, highly fractured horizons with 10-15% carbonate-epidote infillings, weak potassic alteration, foliation at 59° to core axis at 477.0', 66° at 492.5', 69° at 507.0', 63° at 529.5'.									
		- 462.7' to 465.7' - distorted foliation, 2-3% pyrite as disseminated grains and stringers.	4446	2-3	462.7	465.7	3.0			.002	
		- 465.7' to 495.1' - fractured with quartz ± carbonate ± epidote infillings.	4447	tr.	465.7	470.7	5.0			.002	
			4448	tr.	470.7	475.7	5.0			tr.	
			4449	tr.	475.7	480.7	5.0			.002	
			4450	tr.	480.7	484.7	4.0			tr.	
			4451	tr.	484.7	487.0	2.3			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-3 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	THICKNESSES	FOOTAGE		Au		oz ton	oz ton	
				FROM	TO	TOTAL					
		- 487.0' to 489.5' - 3-5% quartz ± carbonate veining, banded, 1-2% disseminated pyrite and pyrrhotite.	4452	1-2	487.0	489.5	2.5			tr.	
			4453	tr.	489.5	492.5	3.0			tr.	
			4454	tr.	492.5	495.1	2.6			tr.	
		- 495.1' to 530.2' - thickly banded, few widely spaced fractures, weakly carbonatized, trace-0.5% pyrite.	4455	tr-0.5	495.1	500.1	5.0			tr.	
			4456	tr-0.5	500.1	504.5	4.4			tr.	
			4457	tr-0.5	504.5	508.0	3.5			tr.	
		- 504.5' to 511.8' - minor tourmaline bands and 2-3% medium grained rounded plagioclase grains	4458	tr-0.5	508.0	511.8	3.8			tr.	
			4459	tr-0.5	511.8	513.2	1.4			tr.	
			4460	tr-0.5	513.2	516.5	3.3			tr.	
			4461	tr-0.5	516.5	519.8	3.3			tr.	
			4462	tr-0.5	519.8	524.8	5.0			tr.	
			4463	tr-0.5	524.8	530.2	5.4			tr.	
530.2	531.3	<u>MAFIC FLOWS</u> - typical, medium grained, amphibolitic, massive.	4464	tr.	530.2	531.3	1.1			tr.	
531.3	547.3	<u>FELSIC TO INTERMEDIATE TUFF</u> - as per 495.1' to 530.2', foliation at 62° to core axis at 539.0', 60° at 544.0'; cleavage at 47° to core axis at 537.5'.	4465	tr-0.5	531.3	536.3	5.0			tr.	
			4466	tr-0.5	536.3	541.3	5.0			tr.	
			4467	tr-0.5	541.3	544.3	3.0			.002	
			4468	tr-0.5	544.3	547.3	3.0			tr.	
547.3	577.7	<u>FELSIC TO INTERMEDIATE FLOWS</u> - greyish-green, fine grained, schistose to massive.	4469	tr-1	547.3	552.0	4.7			tr.	
			4470	tr-1	552.0	557.0	5.0			tr.	
			4471	tr-1	557.0	562.0	5.0			tr.	
			4472	tr-1	562.0	567.0	5.0			tr.	
			4473	tr-1	567.0	572.0	5.0			tr.	
			4474	tr-1	572.0	575.0	3.0			tr.	
			4475	tr-1	575.0	577.7	2.7			tr.	
		<u>Average Modes</u>									
		Plagioclase } 30 - 35%									
		Sericite }									
		Amphibole 20 - 25%									
		Chlorite 20 - 25%									
		Quartz 5 - 10%									
		Tourmaline 1 - 3%									
		Carbonate 1 - 2%									
		Pyrite trace - 1%									
		Gradational change from greyish-green to buff-grey with 30-35% sericite, pyrite as disseminated grains, quartz ± tourmaline veining throughout; foliation at 64° to core axis at 557.0', 60° at 577.0'.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-3 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	AU			
		FROM			TO	TOTAL		02 TON	02 TON		
577.7	580.3	<p><u>QUARTZ-FELDSPAR PORPHYRY</u> - grey to white, fine to medium grained, porphyritic.</p> <p><u>Average Modes</u></p> <p>Quartz 35 - 40%</p> <p>Plagioclase 35 - 40%</p> <p>Muscovite 15 - 20%</p> <p>Sericite]</p> <p>Massive to porphyritic with medium grained plagioclase grains in quartz-plagioclase groundmass, anastomosing sericite-muscovite bands in central part of zone, weak foliation at 60° to core axis.</p>	4476	-	577.7	580.3	2.6			tr.	
580.3	619.4	<p><u>Amphibolite</u> - dark green to dark grey, medium to coarse grained, massive to banded.</p> <p><u>Average Modes</u></p> <p>Amphibole 45 - 50%</p> <p>Plagioclase 45 - 50%</p> <p>Quartz 1 - 2%</p> <p>Carbonate]</p> <p>Biotite trace</p> <p>Amphibolitic; feathery amphibole in fine grained plagioclase, minor zones of quartz ± carbonate veining, widely spaced fracture cleavage at 40° to core axis.</p> <p>- 580.3' to 591.9' - banded to schistose.</p> <p>- 597.0' to 607.0' - 3-5% quartz ± carbonate veining, clean.</p>	4477	-	580.3	585.3	5.0			tr.	
			4478	-	585.3	588.5	3.2			tr.	
			4479	-	588.5	591.9	3.4			tr.	
			4480	-	591.9	597.0	5.1			tr.	
			4481	-	597.0	602.0	5.0			tr.	
			4482	-	602.0	607.0	5.0			tr.	
			4483	-	607.0	612.0	5.0			tr.	
			4484	-	612.0	617.0	5.0			tr.	
			4485	-	617.0	619.4	2.4			tr.	
619.4	665.9	<p><u>SHEARED - SILICIFIED MAFIC VOLCANICS AND IRON FORMATION</u> - black to dark green, fine to medium grained, banded.</p>	4486	1-2	619.4	622.4	3.0			tr.	
			4487	1-2	622.4	625.4	3.0			.014	
			4488	1-2	625.4	628.4	3.0			tr.	
			4489	1-2	628.4	631.4	3.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGMINNIS

HOLE NO. KAS-88-3 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		Au		Au	
					FROM	TO	TOTAL	oz TON		oz TON
		<u>Average Modes</u>	4490	1-2	631.4	634.4	3.0			
		Amphibole	4491	1-2	634.4	637.4	3.0		tr.	
		Quartz	4492	1-2	637.4	640.2	2.8		.062	.062 (check)
		Plagioclase	4493	3-5	640.2	643.2	3.0		.088	.088 (check)
		Magnetite 3 - 5%	4494	1-2	643.2	646.2	3.0		tr.	
		Grunerite 3 - 5%	4495	1-2	646.2	649.2	3.0		.002	
		Garnet 2 - 5%	4496	1-2	649.2	652.2	3.0		tr.	
		Carbonate 1 - 2%	4497	1-2	652.2	655.2	3.0		tr.	
		Pyrite } 1 - 3%	4498	1-2	655.2	658.2	3.0		.079	.066 (check)
		Pyrrhotite }	4499	1-2	658.2	661.2	3.0		tr.	
			4500	1-2	661.2	665.9	4.7		tr.	
		Variable composition and textures from medium grained amphibolitic to fine grained banded, garnet porphyroblasts disseminated through amphibole bands, magnetite occurs as fine disseminated grains in felsic bands, pyrrhotite occurs as wispy grains in amphibole-rich bands, grunerite occurs as haloes around quartz ± carbonate stringers (2-3%) which are discordant to foliation, pyrite occurs as disseminated grains and fracture coatings, foliation - banding averages 60° to core axis, quartz ± carbonate stringers at 40-50° to core axis, cleavage at 30-35° to core axis. - 640.2' to 640.8' - siliceous horizon, cherty, 3-5% disseminated pyrite blebs.								
665.9	692.0	<u>MAFIC FLOWS</u> - dark green to black, fine grained, massive, 1-2% disseminated pyrite, 2-3% irregular quartz ± carbonate stringers with 2-3% pyrite.	4501	1-3	665.9	670.9	5.0		.010	
			4502	1-3	670.9	675.9	5.0		tr.	
			4503	1-3	675.9	680.9	5.0		tr.	
			4504	1-3	680.9	685.9	5.0		tr.	
			4505	1-3	685.9	690.9	5.0		tr.	
			4506	1-3	690.9	692.0	1.1		tr.	
	692.0	<u>END OF HOLE</u>								



DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-4 LENGTH 494 feet
 LOCATION L8+00W, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -53.5°
 STARTED January 18, 1988 FINISHED January 23, 1988

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-53.5°				
200'	-49.5°				
447'	-44.0°				

HOLE NO. KAS-88-4 SHEET NO. 1 of 1

REMARKS Pa 786810

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE		Au			
				FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON
0.0	94.5	<u>CASING</u>								
94.5	255.4	<u>MAFIC FLOWS</u>								
255.4	257.4	<u>BANDED IRON FORMATION</u>								
257.4	282.7	<u>MAFIC FLOWS</u>								
282.7	387.0	<u>FELSIC TO INTERMEDIATE TUFF</u>								
387.0	389.3	<u>GRANITE DYKE</u>								
389.3	430.8	<u>AMPHIBOLITE</u>								
430.8	465.3	<u>MAFIC FLOWS</u>								
465.3	488.0	<u>MAFIC VOLCANICS AND LEAN IRON FORMATION</u>	4584		465.3	470.0	4.7		.020	
488.0	494.0	<u>MAFIC FLOWS</u>								
	494.0	<u>END OF HOLE</u>								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-4 LENGTH 494 feet
 LOCATION L08+00W, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -53.5°
 STARTED January 18, 1988 FINISHED January 23, 1988

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-53.5°				
200'	-49.5°				
447'	-44.0°				

HOLE NO. KAS-88-4 SHEET NO. 1 of 7

REMARKS Pa 786810

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0.0	94.5	<u>CASING</u>							
94.5	255.4	<u>MAFIC FLOWS</u> - dark green to black, fine grained, massive to medium grained, amphibolitic. <u>Average Modes</u> Amphibole Plagioclase Quartz Carbonate } 3 - 5% Epidote 1 - 2% Pyrite trace - 1% Albite 1 - 2% Variable textures, fine grained flows foliated, wispy albite grains disseminated throughout, epidote-rich interflow bands. - 94.5' to 202.4' - medium grained, amphibolitic, foliation at 60° to core axis at 106.0', 53° at 120.0', 58° at 139.0', 52° at 157.0', 50° at 164.0', cleavage at 65° to core axis at 109.0', 45° at 142.0'. - 94.5' to 97.7' - fracture subparallel to core axis, 3-5% disseminated pyrite, quartz ± carbonate infilling. - 137.0' to 141.0' - 3-5% quartz ± carbonate veining, 0.5-1% disseminated pyrite. - 156.3' to 158.1' - as above. - 162.0' to 165.7' - 7-10% banded quartz ± carbonate veining, clean.							
			4507	3-5	94.5 97.7 3.2			tr.	
			4508	0.5-1	137.0 141.0 4.0			tr.	
			4509	3-5	156.3 161.3 5.0			tr.	
			4510		161.3 165.7 4.4			tr.	
			4511		165.7 168.4 2.7			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-4 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			AU				
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON	
		- 168.4' to 202.4' - greenish-buff, irregular carbonate veining with 3-5% fine grained feldspar.	4512		168.4	172.0	3.6				tr.	
			4513		172.0	177.0	5.0				tr.	
			4514		177.0	182.0	5.0				tr.	
			4515		182.0	187.0	5.0				tr.	
			4516		187.0	192.0	5.0				tr.	
			4517		192.0	196.0	4.0				tr.	
			4518		196.0	199.0	3.0				tr.	
			4519		199.0	202.4	3.4				tr.	
		- 202.4' to 255.4' - fine grained, poorly banded to foliated, foliation at 62° to core axis at 215.0', 228.5', 242.0', 1-5% quartz ± carbonate stringers and veins, brown to light green amphibole inclusions.	4520		202.4	207.4	5.0				tr.	
			4521		207.4	212.4	5.0				tr.	
			4522		212.4	217.4	5.0				tr.	
			4523		217.4	221.4	4.0				tr.	
			4524		221.4	226.4	5.0				tr.	
			4525		226.4	231.4	5.0				tr.	
			4526		231.4	236.4	5.0				tr.	
			4527		236.4	241.4	5.0				tr.	
			4528		241.4	246.4	5.0				tr.	
			4529		246.4	251.4	5.0				.004	
			4530		251.4	255.4	3.0				tr.	
255.4	257.4	<u>BANDED IRON FORMATION</u> - black to olive green to white, fine grained, laminated.	4531		255.4	257.4	3.0				tr.	
		<u>Average Modes</u>										
		Grunerite			50	-	55%					
		Magnetite			35	-	40%					
		Quartz			5	-	7%					
		Carbonate			3	-	5%					
		Pyrite			2	-	3%					
		Banding at 68° to core axis, sharp contacts, finely laminated grunerite-magnetite with coarser quartz, carbonate bands and disseminated pyrite bands.										
257.4	282.7	<u>MAFIC FLOWS</u> - typical, fine grained, variable carbonatization, foliated at 60° at 258.0', 50° at 267.0', 60° at 278.0', 57° at 282.5'.										

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DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-4 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	GZ TON	
					FROM	TO					TOTAL
		- 257.4' to 262.5' - typical, fine grained, 1-2% quartz ± carbonate stringers, trace pyrite.	4532	tr.	257.4	262.5	5.1			tr.	
		- 262.5' to 279.7' - weakly carbonatized, 2-3% quartz ± carbonate stringers.	4533	tr.	262.5	267.0	4.5			tr.	
		- 267.0' to 268.0' - irregular quartz stringer subparallel to core axis.	4534	tr.	267.0	268.0	1.0			tr.	
			4535	tr.	268.0	272.0	4.0			tr.	
			4536	tr.	272.0	277.0	5.0			tr.	
			4538	tr.	277.0	279.7	2.7			tr.	
			4539	2-3	279.7	282.7	3.0			tr.	
282.7	387.0	FELSIC TO INTERMEDIATE TUFF - dark purplish-grey to greyish-green, fine grained, banded to schistose.									
		<u>Average Modes</u>									
		Amphibole									
		Sericite									
		Quartz	5	- 10%							
		Tourmaline	3	- 5%							
		Carbonate	5	- 10%							
		Epidote	1	- 2%							
		Pyrite	2	- 3%							
		5-10% quartz-tourmaline and tourmaline veining, tourmaline as disseminated needles, blebs, aggregates and bands ± 1-5% pyrite, volcanics partially altered to chlorite-amphibole-carbonate-quartz, highly fractured, foliation - banding averages 61.3° to core axis, cleavage at 31° to core axis at 347.0', 20° at 351.0'.									
		- 282.7' to 286.5' - schistose, 5-7% carbonate, 2-3% potash feldspar, 3-5% irregular quartz ± carbonate ± tourmaline stringers, 3-5% finely disseminated pyrite.	4540	3-5	282.7	286.5	3.8			tr.	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGHINNIS

 HOLE NO. KAS-88-4 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			AU					
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON		
		- 286.5' to 295.7' - banded to laminated, weak alteration, trace pyrite, 1-2% quartz-carbonate stringers, fracturing, 2-3% carbonate.	4541	tr.	286.5	291.5	5.0					tr.	
			4542	tr.	291.5	295.7	4.2					tr.	
		- 295.7' to 300.9' - banded - schistose as per 282.7' to 286.5'.	4543	3-5	295.7	298.2	2.5					tr.	
			4544	3-5	298.2	300.9	2.7					tr.	
		- 300.9' to 305.0' - banded, 2-3% quartz ± carbonate stringers, trace tourmaline, trace pyrite.	4545	tr.	300.9	305.0	4.1					tr.	
		- 305.0' to 319.7' - highly fractured, with quartz ± carbonate, carbonate and quartz-tourmaline stringers, 2-5% pyrite, 5-7% carbonate.	4546	2-5	305.0	309.0	4.0					tr.	
			4547	2-5	309.0	312.0	3.0					tr.	
			4548	2-5	312.0	315.0	3.0					tr.	
			4537	2-5	315.0	317.4	2.4					tr.	
		- 317.4' to 319.7' - quartz-tourmaline vein, 2-3% carbonate, 3-5% tourmaline as stringers with 1-2% pyrite, contacts at 30° to core axis at 317.4', 20° at 319.7'.	4549	1-2	317.4	319.7	2.3					tr.	
		- 319.7' to 378.5' - banded, fine grained, 2-3% disseminated, medium grained potash feldspar, 1-2% quartz-tourmaline veining.	4550	tr-2	319.7	322.5	2.8					tr.	
			4551	tr.	322.5	327.5	5.0					tr.	
			4552	tr.	327.5	332.5	5.0					tr.	
			4553	tr.	332.5	337.5	5.0					tr.	
		- 321.5' to 322.5' - 0.2 foot banded quartz-tourmaline vein with 1-2% pyrite stringers.	4554	tr.	337.5	342.5	5.0					tr.	
			4555	tr.	342.5	347.5	5.0					tr.	
		- 327.0' to 332.0' - 208 feet ground core.	4556	tr.	347.5	352.5	5.0					tr.	
			4557	tr.	352.5	357.5	5.0					tr.	
			4558	tr.	357.5	362.5	5.0					tr.	
			4559	tr.	362.5	367.8	5.3					tr.	
		- 367.8' to 370.4' - banded quartz ± tourmaline vein, trace pyrite.	4560	tr.	367.8	370.4	2.6					tr.	
			4561	tr.	370.4	374.4	4.0					tr.	
			4562	tr.	374.4	378.5	4.1					tr.	
		- 378.5' to 387.0' - banded, fine grained, highly fractured, chlorite-carbonate infilling of fractures, orange potash feldspar mantled fractures, 0.2 foot quartz vein at end of section.	4563	tr.	378.5	382.0	3.5					tr.	
			4564	tr.	382.0	387.0	5.0					tr.	
387.0	389.3	<u>GRANITIC DYKE</u> - white to pink, fine grained, highly fractured to brecciated.	4565	tr.	387.0	389.3	2.3					tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-4 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au					
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON		
		<p><u>Average Modes</u></p> <p>Plagioclase Potash Feldspar } 80 - 85% Quartz 5 - 10% Epidote 3 - 5%</p> <p>Anastomosing epidote fracture fillings with hematite staining, trace pyrite.</p>											
389.3	430.8	<p><u>AMPHIBOLITE</u> - dark green to pink to white, massive - amphibolitic, coarse grained.</p> <p><u>Average Modes</u></p> <p>Amphibole 60 - 65% Plagioclase 20 - 25% Potash Feldspar 5 - 10% Quartz } Carbonate } 1 - 2%</p> <p>Possibly an intrusive, foliation at 72° to core axis at 390.0', cleavage at 33° to core axis at 406.0'.</p> <p>- 389.3' to 391.8' - altered, crudely banded, 5-10% epidote, 5-10% carbonate.</p> <p>- 417.2' to 430.8' - highly fractured - brecciated, decreasing towards lower contact, 15-20% carbonate, limonite staining, 2-3% pyrite, contact at 430.8' at 34° to core axis.</p>	4566	tr.	389.3	391.8	2.5				tr.		
			4567	tr.	391.8	396.8	5.0				tr.		
			4568	tr.	396.8	401.8	5.0				tr.		
			4569	tr.	401.8	406.8	5.0				tr.		
			4570	tr.	406.8	411.8	5.0				tr.		
			4571	tr.	411.8	414.8	3.0				tr.		
			4572	tr.	414.8	417.2	2.4				tr.		
			4573	2-3	417.2	422.2	5.0				tr.		
			4574	2-3	422.2	427.2	5.0				tr.		
			4575	2-3	427.2	430.8	3.6				tr.		
430.8	465.3	<p><u>MAFIC FLOWS</u> - dark green-black, fine grained, foliated.</p>											

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-4 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au					
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON		
		<u>Average Modes</u>											
		Amphibole 30 - 35%											
		Plagioclase 30 - 35%											
		Chlorite 5 - 10%											
		Quartz 3 - 5%											
		Carbonate 3 - 5%											
		Epidote 1 - 2%											
		Highly altered zones - epidotized with 60-70% epidote, 25-30% quartz.											
		- 430.8' to 440.9' - weak - moderate carbonatization, 1-2% epidote.	4576	tr-3	430.8	435.8	5.0					tr.	
			4577	tr.	435.8	440.9	5.1					.008	
		- 440.9' to 461.5' - up to 60% epidote, weak - moderate carbonatization, faulted - distorted.	4578	tr.	440.9	445.9	5.0					tr.	
			4579	tr.	445.9	450.9	5.0					tr.	
		- 442.2' to 442.8' - banded quartz ± carbonate veining, epidotized volcanic inclusions, 2-3% pyrite.	4580	tr.	450.9	455.9	5.0					tr.	
			4581	tr.	455.9	458.9	3.0					tr.	
			4582	tr.	458.9	461.5	2.6					tr.	
		- 461.5' to 465.3' - 60-65% epidote, 20-25% quartz, 5-10% carbonate	4583	tr-2	461.5	465.3	2.8					tr.	
		- 462.8' to 463.4' - irregular quartz ± carbonate veining, ruddy brown hematite fracture coatings, 1-2% fine grained pyrrhotite and medium grained pyrite.											
		Foliation at 42° to core axis at 431.0', 33° at 439.0', 46° at 450.0', 42° at 459.0', cleavage at 18° to core axis at 464.0'.											
465.3	488.0	<u>MAFIC VOLCANICS AND LEAN IRON FORMATION</u> - black to dark green to buff to grey, fine grained, poorly banded.	4584	tr-2	465.3	470.0	4.7					.020	
			4585	tr-2	470.0	473.0	3.0					tr.	
			4586	tr-2	473.0	476.0	3.0					tr.	
			4587	tr-2	476.0	479.0	3.0					tr.	
			4588	tr-2	479.0	482.0	3.0					tr.	
			4589	tr-2	482.0	485.0	3.0					tr.	
			4590	tr-2	485.0	488.0	3.0					tr.	
		<u>Average Modes</u>											
		Amphibole 35 - 40%											
		Quartz 20 - 25%											
		Sericite)											
		Plagioclase)											
		Grunerite 2 - 3%											

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGMINNIS

HOLE NO. KAS-88-4 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS								
FROM	TO		NO.	% SULPHIDES	FOOTAGE			AU						
					FROM	TO	TOTAL	%	%	OZ TON	GZ TON			
		Garnets 1 - 2%												
		Magnetite 0.5 - 2%												
		Pyrite 1 - 2%												
		Pyrrhotite trace - 1%												
		1-2% quartz ± carbonate stringers with disseminated garnets and grunerite haloes, variable textures, foliation at 51° to core axis at 486.0', 54° at 467.0', cleavage at 31° to core axis at 467.0', 45° at 469.0'.												
488.0	494.0	<u>MAFIC FLOWS</u> - 1-2% disseminated pyrite blebs, stringers, foliation at 53° to core axis at 488.0', 45° at 494.0'.	4591	1-2	488.0	491.0	3.0						tr.	
			4592	1-2	491.0	494.0	3.0						tr.	
	494.0	<u>END OF HOLE</u>												

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGININNIS
 HOLE NO. KAS-88-5 LENGTH 657 feet
 LOCATION L04+00W, 15+96N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -60°
 STARTED January 23, 1988 FINISHED January 29, 1988

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-60.0				
200'	-58.0				
400'	-54.0				
600'	-49.0				

HOLE NO. KAS-88-5 SHEET NO. 1 of 2

REMARKS Pa 786810

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON	
0.0	138.0	<u>CASING</u>								
138.0	164.0	<u>FELSIC TO INTERMEDIATE TUFF</u>								
164.0	166.8	<u>FELSIC CRYSTAL TUFF</u>								
166.8	221.6	<u>FELSIC TO INTERMEDIATE TUFF</u>								
221.6	240.9	<u>INTERMEDIATE TUFF AND SILTSTONE</u>								
240.9	298.3	<u>FELSIC TO INTERMEDIATE TUFF</u>								
298.3	302.5	<u>MYLONITE</u>								
302.5	317.9	<u>FELSIC TO INTERMEDIATE TUFF</u>								
317.9	482.1	<u>MAFIC FLOWS</u>								
482.1	483.2	<u>MAFIC DYKE</u>								
483.2	487.9	<u>MAFIC FLOWS</u>								
487.9	541.6	<u>FELSIC TO INTERMEDIATE TUFF</u>								
541.6	570.3	<u>INTERBEDDED FELSIC TO INTERMEDIATE TUFF</u>								
570.3	589.2	<u>FELSIC TO INTERMEDIATE TUFF</u>								
589.2	612.0	<u>INTERMEDIATE FLOWS</u>								
612.0	626.8	<u>FELSIC TUFF</u>								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-5 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	OZ TON	OZ TON	
					FROM	TO				TOTAL
626.8	657.0	<u>MAFIC VOLCANICS AND IRON FORMATION</u>	4710		642.4	645.4	3.0		.090	
	657.0	<u>END OF HOLE</u> - Hole lost; redrilled as KAS-88-5A								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-5 LENGTH 657 feet
 LOCATION L04+00W, 15+96N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -60°
 STARTED January 23, 1988 FINISHED January 29, 1988

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-60.0°				
200'	-58.0°				
400'	-54.0°				
600'	-49.0°				

HOLE NO. KAS-88-5 SHEET NO. 1 of 8

REMARKS Pa 786810

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SILICA PHOSPH IDES	FOOTAGE		Au		%	%	OZ/TON	OZ/TON
				FROM	TO	TOTAL						
0.0	138.0	<u>CASINC</u>										
138.0	164.0	<u>FELSIC TO INTERMEDIATE TUFF</u> - dark grey to greyish-green, fine grained, laminated to banded. <u>Average Modes</u> Quartz 40 - 45% Plagioclase-Sericite 35 - 40% Amphibole 5 - 10% Chlorite 3 - 5% Carbonate 1 - 2% Pyrite trace Few widely spaced fractures, foliation - banding at 58° to core axis at 141.0', 53° at 153.5', 45° at 164.0', cleavage at 35° to core axis at 144.0', 45° at 154.1'. - 154.1' to 164.0' - moderate potassic alteration, 2-3% carbonate fracture fillings.	4593	tr.	138.0	143.0	5.0				tr.	
			4594	tr.	143.0	148.0	5.0				tr.	
			4595	tr.	148.0	152.0	5.0				tr.	
			4596	tr.	152.0	154.1	2.1				tr.	
			4597	tr.	154.1	159.0	4.9				tr.	
			4598	tr.	159.0	164.0	5.0				tr.	
164.0	166.8	<u>FELSIC CRYSTAL TUFF</u> - dark grey-white, fine to medium grained, banded. <u>Average Modes</u> Quartz 45 - 50% Plagioclase 40 - 45% Amphibole 2 - 3% Carbonate 1 - 2%	4599	tr.	164.0	166.8	2.8				tr.	

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-5

 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au						
					FROM	TO	TOTAL	%	GT TON	GT TON			
		5-7% medium grained, rounded quartz and plagioclase crystals - grains in poorly sorted groundmass, foliation at 45° to core axis at 166.8'.											
166.8	221.6	<u>FELSIC TO INTERMEDIATE TUFF</u> - typical, foliation at 47° to core axis at 171.8', 42° at 187.0', 46° at 197.0', 45° at 217.0', cleavage at 47° to core axis at 171.8', 22° at 221.0'. - 176.1' to 179.5' - bleached, buff coloured, moderate potassic alteration, abundant fracturing with quartz ± carbonate infillings. - 211.5' to 221.6' - banded, 2-3% quartz ± carbonate veining, trace tourmaline, trace-2% disseminated pyrite.	4600	tr.	166.8	171.8	5.0					tr.	
			4601	tr.	171.8	176.1	4.3					tr.	
			4602	tr.	176.1	179.5	3.4					.002	
			4603	tr.	179.5	183.0	3.5					tr.	
			4604	tr.	183.0	187.0	4.0					tr.	
			4605	tr.	187.0	192.0	5.0					tr.	
			4606	tr.	192.0	197.0	5.0					tr.	
			4607	tr.	197.0	202.0	5.0					tr.	
			4608	tr.	202.0	207.0	5.0					tr.	
			4609	tr.	207.0	211.5	4.5					tr.	
			4610	tr-2	211.5	216.5	5.0					tr.	
			4611	tr-2	216.5	221.6	5.1					tr.	
221.6	240.9	<u>INTERMEDIATE TUFF AND SILTSTONE</u> - brown-green to white, fine grained, laminated. <u>Average Modes</u> Amphibole 35 - 40% Biotite 15 - 20% Quartz 20 - 25% Carbonate 5 - 10% Chlorite 3 - 5% Pyrite 0.5 - 1% Well laminated siltstone, interbedded to intermixed with intermediate tuff, fracturing with quartz ± carbonate ± trace tourmaline and trace-2% pyrite stringers and banded veins; foliation at 45° to core axis at 224.0', 35° at 232.0'.	4612	0.5-1	221.6	226.6	5.0					tr.	
			4613	0.5-1	226.6	231.6	5.0					.002	
			4614	0.5-1	231.6	236.6	5.0					tr.	
			4615	0.5-1	236.6	240.9	4.3					.010	

LANGRISHES - TORONTO - 366-1188

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGIMINNIS

 HOLE NO. KAS-88-5 SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au		
					FROM	TO	TOTAL	oz ton	oz ton	
240.9	298.3	<p><u>FELSIC TO INTERMEDIATE TUFF</u> - narrow epidotized sections with 2-3% quartz ± carbonate stringers, minor quartz ± tourmaline bands, trace-0.5% pyrite, foliation at 46° to core axis at 241.5', 45° at 252.0', 47° at 272.0', 51° at 287.0', 48° at 297.0', cleavage at 50° to core axis at 261.0', 45° at 283.0'.</p> <p>- 297.9' to 298.3' - quartz vein, trace pyrite, trace-0.5% tourmaline.</p>	4616	tr.	240.9	244.0	3.1			tr.
			4617	tr.	244.0	247.0	3.0			tr.
			4618	tr.	247.0	252.0	5.0			tr.
			4619	tr.	252.0	257.0	5.0			tr.
			4620	tr.	257.0	262.0	5.0			tr.
			4621	tr.	262.0	267.0	5.0			tr.
			4622	tr.	267.0	272.0	5.0			tr.
			4623	tr.	272.0	277.0	5.0			tr.
			4624	tr.	277.0	282.0	5.0			tr.
			4625	tr.	282.0	287.0	5.0			tr.
			4626	tr.	287.0	292.0	5.0			tr.
			4627	tr.	292.0	295.0	3.0			tr.
			4628	tr.	295.0	298.3	3.3			tr.
298.3	302.5		<p><u>MYLONITE</u> - pink to grey, fine grained, foliated.</p> <p><u>Average Modes</u></p> <p>Quartz 35 - 40%</p> <p>Plagioclase-Sericite 30 - 35%</p> <p>Potash Feldspar 15 - 20%</p> <p>Chlorite 3 - 5%</p> <p>1-2% quartz stringers, chlorite along plane of cleavage - foliation, irregular contacts, foliation at 59° to core axis at 298.5', 55° at 302.0'.</p>	4629		298.3	302.5	4.2		
302.5	317.9	<p><u>FELSIC TO INTERMEDIATE TUFF</u> - typical, foliation at 50° to core axis, cleavage at 40° to core axis at 311.0'.</p> <p>- 302.5' to 303.0' - banded quartz vein, minor volcanic inclusions, trace pyrite.</p>	4630	tr.	302.5	307.5	5.0			tr.
			4631	tr.	307.5	312.5	5.0			tr.
			4632	tr.	312.5	315.0	2.5			tr.
			4633	tr.	315.0	317.9	2.9			tr.
317.9	482.1	<p><u>MAFIC FLOWS</u> - dark green to black, fine to medium grained, massive.</p>								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-5 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au			
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON
		<u>Average Modes</u>									
		Amphibole	50 - 55%								
		Plagioclase	40 - 45%								
		Quartz	1 - 2%								
		Carbonate]									
		Disseminated wispy albite grains in amphibolitic flows, foliation at 52° to core axis at 322.0', 47° at 330.9', 57° at 345.5', 61° at 353.0', 46° at 367.5', 52° at 387.0', 50° at 406.5', 47° at 427.0', 58° at 446.5', 50° at 463.5'.									
		- 317.9' to 368.6' - fine grained, banded to massive.	4634	tr.	317.9	322.9	5.0			tr.	
			4635	tr.	322.9	327.9	5.0			tr.	
		- 327.9' to 330.9' - discordant quartz veining at 37° and 70° to core axis.	4636	tr.	327.9	330.9	3.0			tr.	
			4637	tr.	330.9	335.9	5.0			tr.	
			4638	tr.	335.9	340.9	5.0			tr.	
			4639	tr.	340.9	345.9	5.0			tr.	
			4640	tr.	345.9	349.9	4.0			.004	
			4641	tr.	349.9	353.9	4.0			tr.	
			4642	tr.	353.9	357.0	3.1			tr.	
		- 357.0' to 359.5' - 0.4 foot quartz ± carbonate vein, 3-5% pyrrhotite as feathery blebs in volcanics.	4643	3-5	357.0	359.5	2.5			tr.	
			4644	tr.	359.5	364.5	5.0			tr.	
			4645	tr.	364.5	368.6	4.1			tr.	
		- 368.6' to 444.7' - fine grained, schistose, few fractures.	4646	tr.	368.6	372.0	3.4			tr.	
			4647	tr.	372.0	377.0	5.0			tr.	
			4648	tr.	377.0	382.0	5.0			tr.	
			4649	tr.	382.0	387.0	5.0			tr.	
			4650	tr.	387.0	392.0	5.0			tr.	
			4651	tr.	392.0	397.0	5.0			tr.	
			4652	tr.	397.0	402.0	5.0			.006	
			4653	tr.	402.0	407.0	5.0			.002	
			4654	tr.	407.0	412.0	5.0			tr.	
			4655	tr.	412.0	417.0	5.0			tr.	
			4656	tr.	417.0	422.0	5.0			tr.	
			4657	tr.	422.0	427.0	5.0			tr.	
			4658	tr.	427.0	432.0	5.0			tr.	
		- 444.7' to 463.7' - fine grained, banded to massive, 2-3% quartz ± carbonate stringers.	4659	tr.	432.0	437.0	5.0			tr.	
			4660	tr.	437.0	442.0	5.0			tr.	

LANGRICES - TORONTO - 386-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-5 SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au					
					FROM	TO	TOTAL	%	oz ton	oz ton			
		- 444.7' to 450.9' - 5-7% biotite bands, fracturing, minor epidote bands, 2-3% pyrrhotite in last 0.5 feet.	4661	tr.	442.0	444.7	2.7					tr.	
			4662	tr-3	444.7	447.7	3.0					tr.	
			4663	tr-3	447.7	450.9	3.2					tr.	
			4664	tr.	450.9	455.9	5.0					tr.	
			4665	tr.	455.9	460.9	5.0					tr.	
			4666	tr.	460.9	463.7	2.8					tr.	
		- 463.7' to 482.1' - medium grained, amphibolitic, few fractures.	4667	tr.	463.7	467.7	4.0					tr.	
			4668	tr.	467.7	472.7	5.0					tr.	
			4669	tr.	472.7	477.7	5.0					tr.	
		- 481.8' to 482.1' - well banded biotite and quartz ± carbonate.	4670	tr.	477.7	482.1	3.4					tr.	
482.1	483.2	<u>MAFIC DYKE</u> - light green to black, fine to medium grained, porphyritic.	4671		482.1	483.2	1.1					tr.	
		<u>Average Modes</u>											
		Amphibole 45 - 50%											
		Plagioclase 20 - 25%											
		Carbonate 10 - 15%											
		Chlorite 5 - 10%											
		Medium grained chlorite pseudomorphs after pyroxene in fine grained groundmass, contacts at 58° to core axis.											
483.2	487.9	<u>MAFIC FLOWS</u> - as per 463.7' to 482.1', 1-2% quartz ± carbonate stringers, 0.5-1% pyrite as stringers and disseminated grains, foliation at 50° to core axis at 287.0', 53° at 490.5', 58° at 502.0'.	4672	0.5-1	483.2	487.9	4.2					tr.	
487.9	541.6	<u>FELSIC TO INTERMEDIATE TUFF</u> - 3-5% ground core, foliation at 58° to core axis at 508.0', 60° at 512.0' - 541.6'. - 487.9' to 510.7' - highly fractured, weakly carbonatized.	4673	tr.	487.9	492.9	5.0					tr.	
			4674	tr.	492.9	497.9	5.0					tr.	
			4675	tr.	497.9	502.9	5.0					tr.	
			4676	tr.	502.9	507.9	5.0					tr.	
			4677	tr.	507.9	510.7	2.8					tr.	

LANGRANGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-5 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au		oz ton	oz ton	
				FROM	TO	TOTAL					
		- 510.7' to 528.6' - highly fractured, 5-10% epidote-carbonate fracture fillings.	4678	tr.	510.7	515.7	5.0			tr.	
			4679	tr.	515.7	520.7	5.0			tr.	
			4680	tr.	520.7	524.7	4.0			.002	
			4681	tr.	524.7	528.6	3.9			tr.	
		- 528.6' to 541.6' - coarsely banded, 3-5% irregular - rounded, medium grained quartz eyes.	4682	tr.	528.6	532.6	5.0			tr.	
			4683	tr.	532.6	537.6	5.0			tr.	
			4684	tr.	537.6	541.6	4.0			tr.	
541.6	570.3	<u>INTERBEDDED FELSIC AND INTERMEDIATE TUFF</u> - foliation at 48° to core axis at 554.0', 52° at 558.0', 60° at 564.0', 62° at 589.0', cleavage at 40° to core axis at 554.0', 42° at 559.0'.	4685	tr.	541.6	546.5	4.9			tr.	
			4686	tr.	546.5	550.7	3.8			tr.	
			4687	tr.	550.7	553.7	3.0			tr.	
			4688	tr.	553.7	556.7	3.0			tr.	
		- 556.7' to 558.3' - 10-15% tourmaline bands.	4689	tr.	556.7	560.8	4.1			tr.	
		- 560.8' to 565.8' - 2-3% irregular quartz ± carbonate stringers with 1-2% pyrite.	4690	1-2	560.8	565.8	5.0			tr.	
			4691	tr.	565.8	570.3	4.5			tr.	
570.3	589.2	<u>FELSIC TO INTERMEDIATE TUFF</u> - atypical, 2-5% quartz ± tourmaline veining.	4692	tr.	570.3	575.3	5.0			tr.	
		- 576.5' to 577.3' - clean quartz vein.	4693	tr.	575.3	579.3	4.0			tr.	
			4694	tr.	579.3	584.0	4.7			tr.	
			4695	tr.	584.0	586.5	2.5			tr.	
		- 586.5' to 589.3' - 1-3 foot quartz ± carbonate ± tourmaline vein, 3-5% tourmaline bands in host with 0.5-1% disseminated pyrite.	4696	0.5-1	586.5	589.2	2.7			tr.	
589.2	612.0	<u>INTERMEDIATE FLOWS</u> - light green, fine grained, massive to foliated, few fractures.	4697	tr-0.5	589.2	594.2	5.0			tr.	
			4698	tr-0.5	594.2	599.2	5.0			tr.	
			4699	tr-0.5	599.2	604.2	5.0			tr.	
			4700	tr-0.5	604.2	609.2	5.0			tr.	
			4701	tr-0.5	609.2	612.0	2.8			tr.	
		<u>Average Modes</u>									
		Amphibole			30 - 35%						
		Plagioclase			30 - 35%						
		Quartz			25 - 30%						
		Pyrite			trace - 0.5%						
		1-2% quartz ± carbonate stringers, pyrite as fine disseminated grains, foliation at 56° to core axis at 597.0', 52° at 612.0'.									

LAWRENCE - TORONTO - 366-1188

DIAMOND DRILL RECORD

 NAME OF PROPERTY KASAGMINNIS

 HOLE NO. KAS-88-5 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au			
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON
612.0	626.8	<p>FELSIC TUFF - black to grey, fine grained, banded to massive.</p> <p><u>Average Modes</u></p> <p>Quartz 40 - 45% Plagioclase-Sericite 35 - 40% Chlorite 5 - 10% Amphibole 3 - 5%</p> <p>Few fractures or quartz ± carbonate stringers, wispy - crenulated chlorite bands, foliation at 50° to core axis at 617.0'. - 624.2' to 625.5' - irregular quartz ± carbonate veining with amphibole inclusions, 2-3% pyrite, 2-3% tourmaline bands.</p>	4702	tr.	612.0	617.0	5.0				tr.
			4703	tr.	617.0	622.0	5.0				tr.
			4704	2-3	622.0	626.8	4.8				tr.
626.8	657.0	<p>MAFIC VOLCANICS AND IRON FORMATION - black to dark green to grey, fine to medium grained, banded, sheared and silicified.</p> <p><u>Average Modes</u></p> <p>Amphibole 30 - 35% Plagioclase 20 - 25% Quartz 20 - 25% Carbonate 2 - 5% Magnetite 2 - 5% Pyrite 1 - 2% Grunerite 0.5 - 1% Pyrrhotite trace - 2% Garnet trace</p> <p>Variable textures from massive to foliated mafic volcanics to poorly banded lean iron formation, foliation at 60° to core axis at 630.0', 645.0', 654.5'; cleavage at 25° to core axis at 649.0'. - 626.8' to 647.9' - mafic volcanic, 2-3% quartz ± carbonate veining, 1-2% disseminated pyrite.</p>	4705	1-2	626.8	630.0	3.2				.002
			4706	1-2	630.0	633.0	3.0				tr.
			4707	1-2	633.0	636.0	3.0				tr.
			4708	1-2	636.0	639.4	3.4				tr.
			4709	1-2	639.4	642.4	3.0				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-5 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			AU				
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON	
			4710	1-2	642.4	645.4	3.0				.090	
			4711	1-2	645.4	647.9	2.5				.002	
			4712	2-4	647.9	652.0	4.1				tr.	
			4713	2-4	652.0	654.5	2.5				tr.	
			4714	2-4	654.5	657.0	2.5				tr.	
657.0		<p>- 647.9' to 657.0' - banded mafic volcanic and iron formation, 1-2% wispy pyrrhotite blebs, 2-5% disseminated magnetite grains, 2-5% quartz ± carbonate stringers with grunerite haloes, 1-2% pyrite as disseminated grains or fracture coatings, trace garnets.</p> <p><u>END OF HOLE</u> - Hole lost; redrilled as KAS-88-5A</p>										

J. Adams

LITHOLOGIES - TORONTO - 346-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-88-5A LENGTH 687.0'
 LOCATION 04+06W, 15+96N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -59°
 STARTED January 29/88 FINISHED February 3/88

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	59.0				
200.0	58.5				
400.0	49.0				
600.0	42.5				

HOLE NO. KAS-88-5A SHEET NO. 1 of 1

REMARKS PA786810

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	136.0	CASING.									
136.0	163.5	FELSIC TO INTERMEDIATE TUFF.									
163.5	166.0	FELSIC CRYSTAL TUFF.									
166.0	190.3	FELSIC TO INTERMEDIATE TUFF.									
190.3	301.8	INTERBEDDED FELSIC TO INTERMEDIATE TUFF AND SILTSTONE.									
301.8	307.6	MYLONITE.									
307.6	324.4	FELSIC TO INTERMEDIATE TUFF.									
324.4	389.7	MAFIC FLOWS.									
389.7	392.9	FAULT BRECCIA.									
392.9	481.5	MAFIC FLOWS.									
481.5	485.0	MAFIC DYKE.									
485.0	493.5	MAFIC FLOWS.									
493.5	539.1	FELSIC TO INTERMEDIATE TUFF.									
539.1	574.0	INTERBEDDED MAFIC FLOWS AND FELSIC CRYSTAL TUFF.									
574.0	584.2	FELSIC TO INTERMEDIATE TUFF.									
584.2	611.5	INTERMEDIATE FLOWS.									
611.5	672.4	SILICIFIED - SHEARED MAFIC VOLCANICS AND IRON FORMATION.	4838		654.9	657.9	3.0			.016	
672.4	687.0	MAFIC FLOWS.									
	687.0	E.O.H.									

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-88-5A LENGTH 687.0'
 LOCATION 04+60W, 15+96N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -59°
 STARTED January 29/88 FINISHED February 3/88

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	-59.0				
200.0	-58.5				
400.0	-49.0				
600.0	-42.5				

HOLE NO. KAS-88-5A SHEET NO. 1 of 8

REMARKS PA786810

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	oz/TON	oz/TON
				FROM	TO	TOTAL				
0.0	136.0	Casing.								
136.0	163.5	Felsic to Intermediate Tuff - dark to light grey to green, fine grained, laminated to banded. Modal percent: Quartz 30-35% Plagioclase-sericite 30-35% Amphibole 15-20% Potash Feldspar 5-7% Carbonate 1-3% Gradual composition changes from felsic to intermediate, weak to moderate potassic alteration especially along quartz-carbonate stringers, foliation at 52° to core axis at 137.0', 50° at 147.0', 45° at 157.0', cleavage at 30° to core axis at 137.0', 42° at 147.7', 50° at 157.5'. - 148.5' - 151.0' - quartz veining, discordant, irregular contacts, trace disseminated <u>arsenopyrite</u> trace-0.5% pyrite. - 153.3' - 163.5' - moderate potassic alteration, fracturing-brecciation, 3-5% carbonate fracture fillings, trace pyrite.	4715	tr-.5	148.5	151.0	2.5			tr
			4716	tr	151.0	153.3	2.3			.004
			4717	tr	153.3	157.3	4.0			tr
			4718	tr	157.3	160.3	3.0			tr
			4719	tr	160.3	163.5	3.2			tr
163.5	166.0	Felsic Crystal Tuff - light grey to white, fine to medium grained, banded. Modal percent: Quartz 45-50% Plagioclase } 40-45% Sericite } Chlorite 3-5% Medium grained quartz and plagioclase eyes in fine grained ground-mass, 1-2% quartz-carbonate stringers, foliation at 47° to core axis at 164.0'.	4720		163.5	166.0	2.5			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-5A

SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SMLPW IDES	FOOTAGE			Au UZ TON	GZ TON	
					FROM	TO	TOTAL			
166.0	190.3	Felsic to Intermediate Tuff - typical, foliation at 47° to core axis at 171.0', cleavage at 70° and 23° to core axis at 171.0'. - 168.2' - 179.2' - moderate potassic alteration as haloes, around quartz-carbonate stringers. - 181.0' - 183.5' - as above, fracturing with carbonate-epidote infillings. - 187.3' - 190.3' - as above.	4721		166.0	168.2	2.2		tr	
			4722		168.2	171.2	3.0		tr	
			4723		171.2	174.8	3.6		tr	
			4724		174.8	177.4	2.6		tr	
			4725		177.4	181.0	3.6		tr	
			4726		181.0	183.5	2.5		tr	
			4727		183.5	187.3	3.8		tr	
			4728		187.3	190.3	3.0		tr	
190.3	301.8	Interbedded Felsic to Intermediate Tuff and Siltstone - grey to green to brown, fine grained, banded to laminated. Modal percent: Plagioclase 25-30% Quartz 25-30% Amphibole 15-20% Chlorite 5-7% Biotite 2-5% Carbonate 2-5% Epidote 1-3% Siltstone consists of 10-15% biotite, 5-10% carbonate, siltstone predominates at top of section decreasing downward. Foliation at 41° to core axis at 196.5', 43° at 218.8', 47° at 244.5', 45° at 250.0' to 301.8', cleavage at 44° at 196.5', 43° at 207.0', 42° at 223.0', 18° at 236.0'. - 190.3' - 195.5' - siltstone, fracturing, 5-20% carbonate. - 194.7' - 195.5' - banded composite quartz-carbonate veining, trace-0.5% pyrite. - 195.5' - 197.9' - tuff, typical. - 197.9' - 202.9' - siltstone, 3-5% quartz veining, 2-3% disseminated pyrite. - 202.9' - 218.8' - tuff, 1-3% pyrite, 1-2% quartz-carbonate stringers with epidote.	4729		190.3	194.7	4.4		tr	
			4730	tr	194.7	197.9	3.2		tr	
			4731	2-3	197.9	202.9	5.0		.002	
			4732	1-3	202.9	207.9	5.0		tr	
			4733	1-3	207.9	212.9	5.0		tr	
			4734	1-3	212.9	215.9	3.0		tr	
			4735	1-3	215.9	218.8	2.9		tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-5A

SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO	% SULPHIDES	FOOTAGE			Au OZ TON	OZ TON
					FROM	TO	TOTAL		
190.3	301.8	Cont'd.							
		- 218.8' - 232.3' - siltstone, 15-20% irregular quartz-carbonate veining, 1-3% pyrite.	4736	1-3	218.8	223.8	5.0	tr	
			4737	1-3	223.8	228.8	5.0	.002	
			4738	1-3	228.8	232.3	3.5	tr	
		- 232.3' - 301.8' - tuff, 1-3% pyrite, 1-10% quartz-carbonate veining.	4739	1-3	232.3	236.6	4.3	tr	
			4740	1-3	236.6	240.9	4.3	tr	
		- 232.3' - 244.9' - 5-10% quartz-carbonate veining.	4741	1-3	240.9	244.9	4.0	tr	
			4742	1-3	244.9	249.9	5.0	tr	
		- 261.7' - 263.4' - felsic tuff, 2-3% disseminated pyrite.	4743	1-3	249.9	254.9	5.0	tr	
			4744	1-3	254.9	258.9	4.0	tr	
		- 272.7' - 291.4' - 3-5% quartz-tourmaline veining, trace-1% pyrite, narrow fracture-breccia zones.	4745	1-3	258.9	261.7	2.8	tr	
			4746	2-3	261.7	263.4	1.7	tr	
			4747	1-3	263.4	268.4	5.0	tr	
			4748	1-3	268.4	272.7	4.3	tr	
			4749	tr-1	272.7	277.7	5.0	tr	
			4750	tr-1	277.7	282.7	5.0	tr	
			4751	tr-1	282.7	287.7	5.0	tr	
			4752	tr-1	287.7	291.4	3.7	tr	
			4753	1-3	291.4	296.4	5.0	tr	
			4754	1-3	296.4	301.8	5.4	tr	
301.8	307.6	Mylonite - pink to grey, fine grained, foliated.	4755	tr	301.8	304.8	3.0	tr	
		Modal percent: Quartz 30-35%	4756	tr	304.8	307.6	2.8	tr	
		Potash Feldspar 25-30%							
		Plagioclase 25-30%							
		Chlorite 3-5%							
		Chlorite coatings on cleavage at 42° to core axis, sharp contacts							
307.6	324.4	Felsic to Intermediate Tuff - typical, foliation at 50° to core axis at 317.5', cleavage at 45° to core axis at 317.0', 324.4', trace-0.5% pyrite, <u>chalcopyrite</u> , 2-3% quartz-carbonate-epidote bands.	4757	tr	307.6	312.0	4.4	tr	
			4758	tr	312.0	317.0	5.0	tr	
			4759	tr	317.0	322.0	5.0	tr	
			4760	tr	322.0	324.4	2.4	tr	
		- 323.2' - 324.4' - felsic, banded, narrow breccia zone near contact.							
324.4	389.7	Mafic Flows - dark green to black, fine to medium grained, massive.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-5A

SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	SULPH IDES	FOOTAGE			Au GZ TON	GZ TON	GZ TON
					FROM	TO	TOTAL			
324.4	389.7	Cont'd. Modal percent: Amphibole 45-50% Plagioclase 40-45% Quartz Carbonate] 2-5% Epidote 1-2% Massive to amphibolitic, 2-3% quartz-carbonate-epidote stringers. - 324.4' - 327.2' - fine grained, 2-3% quartz stringers. - 327.2' - 377.9' - medium grained 3-5% quartz-carbonate stringers, trace-3% pyrite, pyrrhotite, trace-0.5% chalcopyrite, arsenopyrite. - 369.5' - 372.7' - highly fractured, carbonate-epidote infillings. - 377.9' - 379.3' - banded quartz-carbonate veining, trace magnetite, pyrite. - 379.3' - 389.7' - fine grained, schistose, 3-5% quartz-carbonate veining. Foliation at 50° to core axis at 327.0', 49° at 337.0', 52° at 356.0', 46° at 363.5', 52° at 377.0'.	4761	tr	324.4	327.2	2.8			tr
			4762	tr-3	327.2	332.0	4.8			tr
			4763	tr-3	332.0	337.0	5.0			tr
			4764	tr-3	337.0	342.0	5.0			tr
			4765	tr-3	342.0	347.0	5.0			tr
			4766	tr-3	347.0	352.0	5.0			tr
			4767	tr-3	352.0	357.0	5.0			tr
			4768	tr-3	357.0	362.0	5.0			tr
			4769	tr-3	362.0	365.0	3.0			tr
			4770	tr-3	365.0	369.5	4.5			tr
			4771	tr	369.5	372.7	3.2			tr
			4772	tr	372.7	377.9	5.2			tr
			4773	tr	377.9	380.9	3.0			tr
			4774	tr	380.9	385.9	5.0			tr
			4775	tr	385.9	389.9	4.0			tr
389.7	392.9	Fault Breccia - light green to buff, matrix with coarse angular fragments, 60-70% epidote, 15-20% carbonate, 5-10% quartz, fine grained quartz-carbonate matrix around volcanic fragments up to 0.2 feet, 50:50 matrix to fragments between 390.7' - 391.5', epidotization of volcanics, trace pyrite and <u>arsenopyrite</u> in matrix foliated at 55° to core axis.	4776	tr	389.7	392.9	3.2			tr
392.9	481.5	Mafic Flows - typical as above, foliation at 50° to core axis at 407.0', 54° at 417.0', 60° at 426.0', 62° at 442.0', 59° at 452.0', 52° at 470.0'.	4777		392.9	397.0	4.1			tr
			4778		397.0	402.0	5.0			tr
			4779		402.0	407.0	5.0			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-5A

SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE		Au OZ TON	OZ TON				
					FROM	TO				TOTAL		
392.9	481.5	Cont'd.	4780		407.0	412.0	5.0			tr		
			4781		412.0	417.0	5.0			tr		
		- 392.9' - 452.2' - fine to medium grained, schistose to massive, silicified, 2-5% quartz-carbonate stringers.	4782		417.0	422.0	5.0			tr		
			4783		422.0	427.0	5.0			tr		
			4784		427.0	432.0	5.0			tr		
			4785		432.0	437.0	5.0			.002		
			4786		437.0	442.0	5.0			tr		
			4787		442.0	447.0	5.0			tr		
			4788		447.0	452.2	5.2			tr		
			4789	- 452.2' - 470.3' - fine grained, banded to massive.	4789		452.2	457.2	5.0			tr
			4790	- 452.2' - 462.1' - 2-3% biotite bands.	4790		457.2	462.1	4.9			tr
			4791	- 462.1' - 465.1' - irregular quartz-carbonate stringers with trace pyrite, 1-2%	4791	1-2	462.1	465.1	3.0			tr
			4792	very coarse grained pyrrhotite blebs.	4792		465.1	470.3	5.2			tr
			4793	- 470.3' - 481.5' - medium grained, amphibolitic, few fractures.	4793		470.3	475.3	5.0			tr
	4794		4794		475.3	478.5	3.2			tr		
	4795		4795		478.5	481.5	3.0			tr		
481.5	485.0	Mafic Dyke - dark green to black, fine to medium grained, porphyritic.	4796		481.5	485.0	3.5			tr		
		Modal percent: Amphibole 45-50%										
		Plagioclase 15-20%										
		Chlorite 15-20%										
		Biotite 5-7%										
		Carbonate 2-3%										
		Medium grained chlorite and biotite pseudomorphs after pyroxene phenocrysts, contacts at 34° to core axis at 481.5', 49° at 485.0'										
485.0	493.5	Mafic Flows - typical, fine grained, foliation at 53° to core axis at 491.0', cleavage at 33° at 491.0'.										
		- 485.0' - 487.2' - 3-5% quartz-carbonate, 1-2% pyrrhotite, pyrite:	4797	1-2	485.0	488.5	3.5			tr		
			4798	1-2	488.5	493.5	5.0			tr		
		- 491.0' - 493.5' - banded quartz-carbonate veining, volcanic inclusions with 1-2% pyrrhotite and pyrite.										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-5A

SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO	SULPHIDES	FOOTAGE		Au OZ TON	OZ TON	OZ TON				
					FROM	TO				TOTAL			
493.5	539.1	<p>Felsic to Intermediate Tuff - dark purplish grey to grey-green, fine grained, laminated to banded.</p> <p>Modal percent: Quartz 25-30% Plagioclase] 25-30% Sericite] Carbonate 10-15% Amphibole 5-10% Biotite 5-7% Chlorite 3-5% Epidote 2-3%</p> <p>Carbonate and biotite as bands, quartz-carbonate fracture fillings, intermixed siltstone and felsic to intermediate tuff, foliation at 60-65% to core axis.</p> <p>- 508.5' - 530.2' - pervasive epidotization (60-65%) and silicification, fractured and brecciated 1-2% carbonate, trace-0.5% pyrite.</p> <p>- 530.2' - 539.1' - poorly banded, 1-2% medium grained pink garnets, 2-3% quartz eyes.</p>	4799		493.5	498.5	5.0			tr			
			4800		498.5	503.5	5.0			tr			
			4801		503.5	508.5	5.0			tr			
			4802	tr-.5	508.5	512.0	3.5			tr			
			4803	tr-.5	512.0	515.9	3.9			tr			
			4804	tr-.5	515.9	519.0	3.1			tr			
			4805	tr-.5	519.0	523.0	4.0			tr			
			4806	tr-.5	523.0	526.4	3.4			tr			
			4807	tr-.5	526.4	530.2	3.8			tr			
			4808	tr	530.2	534.7	4.5			tr			
			4809	tr	534.7	539.1	4.4			tr			
			539.1	574.0	<p>Interbedded Mafic Flows and Felsic Crystal Tuff - typical, foliation at 60° to core axis at 549.5', 62° at 572.0'.</p> <p>- 539.1' - 545.3' - intermixed bands up to 0.4 feet.</p> <p>- 545.3' - 548.5' - felsic tuff.</p> <p>- 548.5' - 549.5' - flows, fine grained.</p> <p>- 549.5' - 554.5' - felsic tuff.</p> <p>- 554.5' - 567.7' - flows, closely spaced fractures at 28° to core axis.</p> <p>- 567.7' - 572.0' - felsic tuff.</p> <p>- 572.0' - 574.0' - flows.</p>	4810		539.1	544.1	5.0			tr
						4811		544.1	549.5	5.4			tr
4812		549.5				554.5	5.0			tr			
4813		554.5				559.5	5.0			tr			
4814		559.5				564.5	5.0			.002			
4815		564.5				567.7	3.2			tr			
4816		567.7				572.0	4.3			tr			
4817		572.0				574.0	2.0			tr			

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-5A

SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE		Au OZ TON	GZ TON	
					FROM	TO			TOTAL
574.0	584.2	<p><u>Felsic to Intermediate Tuff</u> - typical, foliation at 68° to core axis at 574.0', 62° at 582.0'.</p> <p>- 574.0' - 578.5' - 2-3% banded quartz-carbonate veining, trace pyrite.</p>	4818	tr	574.0	578.5	4.5	tr	
			4819	tr	578.5	581.5	3.0	tr	
			4820	tr	581.5	584.2	2.7	tr	
584.2	611.2	<p><u>Intermediate Flows</u> - light green, fine grained, massive.</p> <p>Modal percent: Amphibole 35-40% Plagioclase 35-40% Quartz 15-20% Carbonate 1-2% Pyrite tr-0.5%</p> <p>Few fractures or quartz-carbonate stringers, foliation at 68° to core axis at 574.0', 62° at 582.0'.</p> <p>- 584.2' - 587.2' - 2-3% disseminated pyrrhotite, trace-0.5% pyrite.</p>	4821	2-3	584.2	587.2	3.0	tr	
			4822	tr-.5	587.2	592.0	4.8	tr	
			4823	tr-.5	592.0	597.0	5.0	tr	
			4824	tr-.5	597.0	602.0	5.0	.002	
			4825	tr-.5	602.0	607.0	5.0	tr	
			4826	tr-.5	607.0	611.5	4.5	tr	
611.5	672.3	<p><u>Felsic Tuff</u> - typical, foliation at 60° to core axis at 621.5'.</p>	4827	tr	611.5	616.5	5.0	.002	
			4828	tr	616.5	622.3	5.8	tr	
672.3	672.4	<p><u>Silicified - Sheared Mafic Volcanics and Iron Formation</u> - black to dark green to dark grey, fine - medium grained.</p> <p>Modal percent: Amphibole 25-30% Plagioclase 15-20% Quartz 15-20% Magnetite 5-10% Grunerite 5-7% Garnet 2-5% Carbonate 1-3% Pyrrhotite tr-3% Pyrite tr-2%</p> <p>Variable textures, mafics amphibolitic, medium grained to fine grained, banded with cherty-magnetite rich bands, foliation at 60° to core axis at 624.0', 69° at 633.5', 70° at 658.0', 69° at 667.0', 70° at 671.0'.</p>							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-5A

SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO	SULPH IDES	FOOTAGE			Au OZ TON	OZ TON
					FROM	TO	TOTAL		
622.3	672.4	Cont'd.							
		- 622.3' - 632.3' - volcanics, medium grained, amphibolitic, trace-1% pyrrhotite and pyrite blebs, 1-2% biotite bands near lower contact.	4829	tr-1	622.3	627.3	5.0	.006	
			4830	tr-1	627.3	632.3	5.0	tr	
		- 632.3' - 643.3' - volcanics, fine grained, 3-5% quartz-carbonate stringers, trace-1% pyrite, pyrrhotite.	4831	tr-1	632.3	637.3	5.0	tr	
			4832	tr-1	637.3	640.3	3.0	.002	
			4833	tr-1	640.3	643.3	3.0	tr	
		- 643.3' - 654.9' - cherty, fine grained, iron formation, 2-5% magnetite, 10-15% fine grained, euhedral feldspar laths, 1-2% quartz-carbonate stringers.	4834	tr	643.3	646.3	3.0	tr	
			4835	tr	646.3	649.3	3.0	tr	
			4836	tr	649.3	652.1	2.8	.002	
			4837	tr	652.1	654.9	2.8	tr	
		- 653.8' - 654.2' - poorly banded, 15-20% magnetite, 10-15% grunerite.							
		- 654.9' - 672.4' - banded iron formation, 3-10% disseminated magnetite, 1-3% wispy pyrrhotite blebs, 1-2% pyrite as fracture coatings, 2-5% quartz-carbonate stringers at 60-65% core axis, grunerite haloes around stringers, 1-5% garnet in grunerite bands.	4838	2-5	654.9	657.9	3.0	.016	
			4839	2-5	657.9	660.9	3.0	.002	
			4840	2-5	660.9	663.9	3.0	.006	
			4841	2-5	663.9	666.9	3.0	tr	
			4842	2-5	666.9	669.9	3.0	.002	
			4843	2-5	669.9	672.4	2.5	tr	
672.4	687.0	Mafic Flows - fine grained, 2-5% carbonate stringers, 1-2% disseminated pyrite and pyrrhotite, minor cherty bands with 2-3% magnetite, foliation at 60° to core axis at 687.0', cleavage at 23° to core axis at 686.0'.	4843	1-2	672.4	677.4	5.0	tr	
			4845	1-2	677.4	682.4	5.0	tr	
			4846	1-2	682.4	687.0	4.6	.002	
	687.0	E.O.H.							

J. Adams

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-88-6 LENGTH 537.0'
 LOCATION 04+00W, 15+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP 47°
 STARTED February 3/88 FINISHED February 6/88

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0.0	47.0				
200.0	43.5				
425.0	41.0				
537.0	40.0				

HOLE NO. KAS-88-6 SHEET NO. 1 of 2

REMARKS PA786810

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	Au OZ/TON	OZ/TON
					FROM	TO				
0.0	153.8	CASING.								
153.8	161.6	FELSIC TO INTERMEDIATE TUFF.								
161.6	179.5	MAFIC FLOWS.								
179.5	188.0	MAFIC DYKE.								
188.0	276.8	MAFIC FLOWS.								
276.8	277.9	BANDED IRON FORMATION.								
277.9	279.2	MAFIC DYKE.								
279.2	316.0	MAFIC FLOWS.								
316.0	347.4	FELSIC TO INTERMEDIATE TUFF.								
347.4	376.0	FELSIC CRYSTAL TUFF.								
376.0	447.0	INTERBEDDED INTERMEDIATE FLOWS AND TUFFS.								
447.0	521.5	SHEARED -SILICIFIED MAFIC VOLCANICS AND IRON FORMATION.								
			4935		488.9	491.3	2.4		.020	
			4936		491.3	494.3	3.0		.194	
									.196	Check
			4937		494.3	497.3	3.0		.436	
									.446	Check
			4938		497.3	500.3	3.0		.164	
									.160	Check
			4939		500.3	503.3	3.0		.060	
									.068	Check
			4940		503.3	507.3	4.0		.026	
			4941		507.3	511.3	4.0		.030	
			4943		514.8	518.3	3.5		.014	
			4944		518.3	521.5	3.2		.068	
									.062	Check
			4945		521.5	524.5	3.0		.040	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-6

SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPH IDES	FOOTAGE		Au OZ TON	OZ TON	
					FROM	TO			TOTAL
447.0	521.5	CONT'D.	4946		524.5	527.5	3.0	.068	Check
521.5	537.0	MAFIC FLOWS.							
	537.0	E.O.H.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-88-6 LENGTH 537.0'
 LOCATION 04+00W, 15+00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -47°
 STARTED February 3/88 FINISHED February 6/88

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0.0	47.0				
200.0	43.5				
425.0	41.0				
537.0	40.0				

HOLE NO. KAS-88-6 SHEET NO. 1 of 7

REMARKS PA786810

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	153.8	Casing.									
153.8	161.6	Felsic to Intermediate Tuff - dark to light grey, fine grained, banded to laminated. Modal percent: Quartz 30-35% Plagioclase] 30-35% Sericite Amphibole 15-20% Chlorite 3-5% Biotite 2-3% Carbonate 1-2% Gradational to abrupt compositional variations, foliation at 55° to core axis at 155.0', 58° at 161.6', cleavage at 38° to core axis at 155.0'.	4853 4854		153.8 158.8	158.8 161.6	5.0 2.8			tr tr	
161.6	179.5	Mafic Flows - black to dark green, fine to medium grained, massive Modal percent: Amphibole 45-50% Plagioclase 40-45% Quartz 2-3% Carbonate 1-2% Pyrite trace Few widely spaced fractures, foliation at 50° to core axis at 164.5', 59° at 177.0'.	4855 4856 4857 4858	tr tr tr tr	161.6 166.6 171.6 176.6	166.6 171.6 176.6 179.5	5.0 5.0 5.0 2.9			tr tr tr tr	
179.5	188.0	Mafic Dyke - black to dark green, fine to medium grained, porphyritic. Modal percent: Amphibole 50-55% Plagioclase 20-25% Chlorite] 5-10% Biotite Carbonate 5-10%	4859 4860	tr-5 tr	179.5 184.0	184.0 188.0	4.5 4.0			tr tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-6 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE			Au OZ TON	OZ TON	
					FROM	TO	TOTAL			
179.5	188.0	Cont'd. Fine grained amphibole groundmass with subhedral chlorite-biotite pseudomorphs after pyroxene phenocrysts, cleavage at 50° to core axis at 187.0', contacts at 42° to core axis. - 180.2' - 180.5' - schistose mafic volcanic inclusion with 3-5% pyrite blebs.								
188.0	276.8	Mafic Flows - fine to medium grained, massive, amphibolitic, foliation varies from 58° to 65° to core axis, cleavage varies from 32° to 38° to core axis. - 188.0' - 190.0' - fine grained, schistose, 3-5% disseminated pyrite, 3-5% carbonate. - 190.0' - 194.3' - fine grained, highly fractured to brecciated, 3-5% quartz-carbonate-epidote fracture fillings with 2-3% pyrite, 1-2% coarse hematite grains and stringers. - 194.3' - 196.7' - fine grained, banded, 3-5% quartz-carbonate stringers. - 196.7' - 203.2' - medium grained, amphibolite, minor potassic alteration along quartz-carbonate infilled fractures. - 203.2' - 206.4' - fine grained, 5-7% carbonate bands, 1-3% pyrite. - 204.3' - 204.9' - mafic dykelet typical contacts at 60° to core axis. - 206.4' - 214.3' - fine grained, poorly banded 2-3% quartz-carbonate stringers, minor potassic alteration. - 214.3' - 266.7' - medium to coarse grained amphibolite, 1-2% quartz-carbonate stringers. - 234.0' - 235.0' - discordant carbonate-tremolite stringers. - 239.9' - 240.2' - 5-7% granular pyrite-carbonate stringers.								
			4861	3-5	188.0	190.0	2.0			tr
			4862	2-3	190.0	194.3	4.3			tr
			4863	tr	194.3	196.7	2.4			tr
			4864	tr	196.7	200.2	3.5			tr
			4865	tr	200.2	203.2	3.0			tr
			4866	1-3	203.2	206.4	3.2			tr
			4867	tr	206.4	210.4	4.0			tr
			4868	tr	210.4	214.3	3.9			tr
			4869	tr	214.3	218.0	3.7			tr
			4870	tr	218.0	222.0	4.0			tr
			4871	tr	222.0	227.0	5.0			tr
			4872	tr	227.0	232.0	5.0			tr
			4873	tr	232.0	237.0	5.0			tr
			4874	tr	237.0	242.0	5.0			tr

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-88-6 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE			Au OZ TON	OZ TON
					FROM	TO	TOTAL		
188.0	276.8	Cont'd.							
		- 266.7' - 276.8' - fine grained, 1-2% quartz-carbonate stringers, trace pyrite.	4875	tr	242.0	247.0	5.0	tr	
			4876	tr	247.0	252.0	5.0	tr	
			4877	tr	252.0	257.0	5.0	tr	
			4878	tr	257.0	262.0	5.0	tr	
			4879	tr	262.0	267.0	5.0	tr	
			4880	tr	267.0	272.0	5.0	tr	
			4881	tr	272.0	276.8	4.8	tr	
			4882	1-2	276.8	277.9	1.1	tr	
276.8	277.9	<u>Banded Iron Formation</u> - light to dark grey, fine grained, banded to schistose. Modal percent: Quartz 45-50% Magnetite 25-30% Sericite 5-10% Carbonate 3-5% Amphibole 3-5%							
		Well banded at 60° to core axis, increasing magnetite downhole, fine grained quartz-magnetite, 1-2% pyrite blebs, 0.1-foot quartz-tourmaline stringer at lower contact, sericite schist in upper 0.6 feet with 3-5% quartz-carbonate stringers, 2-3% disseminated magnetite.							
277.9	279.2	<u>Mafic Dyke</u> - typical, massive, contacts at 55° to core axis.	4883		277.9	279.2	1.3	tr	
279.2	316.0	<u>Mafic Flows</u> - typical, fine to medium grained, foliation at 52° to core axis at 280.0', 60° at 307.0', 51° at 313.0', fracture cleavage at 36-40° to core axis. - 279.2' - 296.9' - fine grained, schistose, 1-2% pyrite, 2-5% quartz-carbonate stringers. - 296.9' - 305.5' - medium grained, amphibolitic. - 305.5' - 316.0' - fine grained, banded - schistose as above	4884	1-2	279.2	282.9	3.7	tr	
			4885	1-2	282.9	287.9	5.0	tr	
			4886	1-2	287.9	292.9	5.0	tr	
			4887	1-2	292.9	296.9	4.0	tr	
			4888		296.9	301.9	5.0	tr	
			4889		301.9	305.5	3.6	tr	
			4890	1-2	305.5	310.0	4.5	tr	
			4891	1-2	310.0	313.0	3.0	tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-6 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE		Au	GZ TON	GZ TON
					FROM	TO			
279.2	316.0	Cont'd.	4892	1-2	313.0	316.0	3.0		tr
316.0	347.4	Felsic to Intermediate Tuff - typical, foliation at 59° to core axis at 327.0', 62° at 346.5'. - 322.3' - 322.5' - quartz-tourmaline stringer, tourmaline infilling fractures, trace pyrite. - 335.3' - 339.0' - 2-3% quartz-carbonate-epidote fracture fillings.	4893	tr	316.0	321.0	5.0		tr
			4894	tr	321.0	326.0	5.0		tr
			4895	tr	326.0	331.0	5.0		tr
			4896	tr	331.0	335.3	4.3		tr
			4897		335.3	339.0	3.7		tr
			4898		339.0	344.0	5.0		tr
			4899		344.0	347.4	3.4		tr
347.4	376.0	Felsic Crystal Tuff - light grey, fine to medium grained, banded. Modal percent: Quartz 45-50% Plagioclase] 40-45% Sericite Chlorite 3-5% Medium grained quartz and plagioclase eyes in fine grained ground-mass, minor fracturing with potassic alteration, quartz-carbonate epidote fracture fillings, foliation at 60° to core axis. - 373.5' - 374.0' - intermediate flow, see below.	4900		347.4	351.9	4.5		tr
			4901		351.9	356.4	4.5		tr
			4902		356.4	361.4	5.0		tr
			4903		361.4	366.4	5.0		tr
			4904		366.4	371.4	5.0		tr
			4905		371.4	376.0	4.6		tr
376.0	447.0	Interbedded Intermediate Flows and Tuff - flows: dark green, fine grained, massive. Tuffs: light green, fine grained, banded. Modal percent: Amphibole 25-30% Plagioclase 25-30% Quartz 20-25% Chlorite 10-15% Carbonate 1-2% Pyrite tr-0.5% Angular to rounded, fine to medium grained plagioclase-quartz eyes and 2-5% irregular chlorite bands in tuffs, flows, massive with 1-2% quartz-carbonate stringers, foliation at 60° to core axis at 376.0', 59° at 387.0', 70° at 397.0', 63° at 417.0', 66° at 429.5'.							

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-6

SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE			Au OZ TON	GZ TON
					FROM	TO	TOTAL		
376.0	447.0	Cont'd.							
		- 376.0' - 383.3' - flows.	4906	tr-.5	376.0	379.0	3.0	tr	
			4907	tr-.5	379.0	383.3	4.3	tr	
		- 383.3' - 395.8' - tuff.	4908	tr-.5	383.3	386.8	3.5	tr	
		- 383.3' - 390.3' - 3-5% irregular quartz-carbonate stringers.	4909	tr-.5	386.8	390.3	3.5	tr	
			4910	tr-.5	390.3	395.8	5.5	tr	
		- 395.8' - 397.8' - flows.	4911	tr-.5	395.8	399.0	3.2	tr	
		- 397.8' - 399.0' - tuff.							
		- 399.0' - 401.8' - flows.	4912	tr-.5	399.0	401.8	2.8	tr	
		- 401.8' - 447.0' - tuff.	4913	tr-.5	401.8	406.5	4.7	tr	
		- 406.5' - 412.7' - schistose, 5-10% biotite, 2-3% quartz-carbonate stringers, trace-1% pyrite.	4914	tr-1	406.5	409.6	3.1	tr	
			4915	tr-1	409.6	412.7	3.1	tr	
			4916	tr-1	412.7	417.7	5.0	tr	
		- 441.7' - 447.0' - pervasive potassic alteration, abundant medium grained potash feldspar laths.	4917	tr-1	417.7	422.7	5.0	tr	
			4918	tr-1	422.7	427.7	5.0	tr	
			4919	tr-1	427.7	432.7	5.0	tr	
			4920	tr-1	432.7	437.7	5.0	tr	
			4921	tr-1	437.7	441.7	4.0	tr	
			4922	tr-.5	441.7	447.0	5.3	tr	
447.0	521.5	Sheared - Silicified Mafic Volcanics and Iron Formation - black to dark green to grey, fine to medium grained, banded. Modal percent: Hornblende 25-30% Plagioclase 25-30% Quartz 15-20% Magnetite 5-10% Grunerite 3-5% Garnet 3-5%							
		Variable textures from finely banded quartz-magnetite to coarsely banded amphibole-quartz-carbonate to amphibolitic-massive, fracture-cleavage at 30-36° to core axis, foliation at 52° to core axis, banding at 64-70° to core axis.							
		- 447.0' - 465.1' - amphibolitic, 0.5-1% pyrite as fracture coatings, 0.5-1% pyrrhotite, 1-3% quartz-carbonate stringers.	4923	1-2	447.0	452.0	5.0	tr	
			4924	1-2	452.0	457.0	5.0	tr	
			4925	1-2	457.0	460.6	3.6	.002	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE

HOLE NO. KAS-88-6

SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE		Au OZ TON	GZ TON	
					FROM	TO			TOTAL
447.0	521.5	Cont'd.							
		- 465.1' - 491.3' - iron formation, poorly banded, 5-10% magnetite as fine rods, disseminated grains or laminae, 10-15% grunerite as fine disseminated grains and as haloes around quartz-carbonate stringers.	4926		460.6	465.1	4.5	tr	
			4927		465.1	467.9	2.8	tr	
			4928		467.9	470.9	3.0	tr	
			4929		470.9	473.9	3.0	tr	
			4930		473.9	476.9	3.0	.002	
		- 465.1' - 467.9' - 1-2% magnetite.	4931		476.9	479.9	3.0	.002	
			4932		479.9	482.9	3.0	.002	
			4933		482.9	485.9	3.0	tr	
			4934		485.9	488.9	3.0	tr	
			4935		488.9	491.3	2.4	.020	
		- 491.3' - 500.8' - chert, poorly banded - massive 3-10% pyrrhotite as irregular blebs and wispy bands.	4936	5-10	491.3	494.3	3.0	.194	
			4937	5-10	494.3	497.3	3.0	.196	Check
		- 491.3' - 499.1' - 5-10% pyrrhotite, 0.1-foot massive band.	4938	5-10	497.3	500.3	3.0	.436	Check
		- 499.1' - 500.8' - change from pyrrhotite to magnetite.						.446	Check
								.164	Check
								.160	Check
		- 500.8' - 503.3' - mafic volcanic, silicified, 3-5% pyrrhotite, pyrite, as disseminated grains and blebs, change from pyrrhotite to pyrite downhole, 1-2% quartz-carbonate stringers	4939	3-5	500.3	503.3	3.0	.060	
								.068	Check
		- 503.3' - 511.3' - interbedded mafic volcanics and iron formation, well laminated chert-magnetite bands alternate with poorly banded chert-amphibole-garnet-carbonate, 3-5% wispy pyrrhotite blebs, 3-5% disseminated, fine grained, pink garnets.	4940	3-5	503.3	507.3	4.0	.026	
			4941	3-5	507.3	511.3	4.0	.030	
		- 511.3' - 521.5' - iron formation poorly banded, as above with 5-15% quartz-carbonate stringers mantled with fine grained, light brown grunerite.	4942	3-5	511.3	514.8	3.5	.002	
			4943	3-5	514.8	518.3	3.5	.014	
			4944	3-5	518.3	521.5	3.2	.068	
								.062	Check
521.5	537.0	Mafic flows - typical, fine grained, 3-5% quartz-carbonate stringers, 1-3% biotite bands, 1-2% pyrrhotite blebs.	4945	1-2	521.5	524.5	3.0	.040	
			4946	1-2	524.5	527.5	3.0	.068	
								.064	Check

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS LAKE
 HOLE NO. KAS-88-6 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SULPHIDES	FOOTAGE		Au OZ TON	OZ TON
					FROM	TO		
521.5	537.0	Cont'd.						
		- 521.5' - 527.0' - silicified sections with 1-2% disseminated pyrrhotite blebs, minor iron formation bands with 3-5% grunerite and 2-3% magnetite.	4947	1-2	527.5	532.0	4.5	.010
			4948	1-2	532.0	537.0	5.0	.002
	537.0	E.O.H.						

J. Williams

LANGRAGES - TORONTO - 388-7184

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-7 LENGTH 637 feet
 LOCATION L04+00E, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -46.5°
 STARTED February 6, 1988 FINISHED February 9, 1988

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	46.5°				
200'	42.0°				
400'	37.5°				
600'	36.5°				

HOLE NO. KAS-88-7 SHEET NO. 1 of 1

REMARKS Pa 786836, 786835

SUMMARY LOG

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	SPL PH DES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	83.5	<u>CASING</u>								
83.5	270.8	<u>FELSIC TO INTERMEDIATE TUFF</u>								
270.8	441.4	<u>MAFIC FLOWS AND TUFF - 85:15</u>								
441.4	466.3	<u>FELSIC TO INTERMEDIATE TUFF</u>								
466.3	469.8	<u>MAFIC DYKE</u>								
469.8	474.9	<u>FELSIC TUFF</u>								
474.9	484.2	<u>INTERBEDDED MAFIC FLOWS AND FELSIC TUFF - 50:50</u>								
484.2	486.8	<u>MAFIC DYKE</u>								
486.8	511.1	<u>FELSIC TUFF</u>								
511.1	584.9	<u>MAFIC FLOWS - AMPHIBOLITE</u>								
584.9	632.3	<u>SHEARED - SILICIFIED MAFIC VOLCANICS AND IRON FORMATION</u>	13774		587.9	592.0	4.1			.030
			13775	2-5	592.0	594.0	2.0			.232
			13776		594.0	597.0	3.0			.026
			13777		597.0	601.6	4.6			.032
			13781	tr-1	610.1	612.7	2.6			.046
632.2	637.0	<u>MAFIC FLOWS</u>								
	637.0	<u>END OF HOLE</u>								

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-7 LENGTH 637 feet
 LOCATION L04+00E, 15+25N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -46.5°
 STARTED February 6, 1988 FINISHED February 9, 1988

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	-46.5°				
200'	-42.0°				
400'	-37.5°				
600'	-36.5°				

HOLE NO. KAS-88-7 SHEET NO. 1 of 7

REMARKS Pa 786836, 786835

LOGGED BY R. Higginson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SIL PH IDES	FOOTAGE		AU		%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL					
0.0	83.5	<u>CASING</u>										
83.5	270.8	<u>FELSIC TO INTERMEDIATE TUFF</u> - dark to light grey, fine grained, laminated to banded. <u>Average Modes</u> Quartz 30 - 35% Plagioclase } 30 - 35% Sericite } Amphibole 15 - 20% Chlorite 3 - 5% Biotite 2 - 3% Carbonate 1 - 2% Gradational to abrupt compositional variations, 1-3% quartz ± carbonate stringers, 1-3% carbonate ± epidote fracture fillings, trace-1% pyrite as fracture coatings, foliations at 58° - 69° to core axis across section; fracture - cleavage at 27° - 38° to core axis. - 84.4' to 85.5' - 3-5% quartz veining. - 161.0' to 177.0' - potassic alteration, mylonitized narrow zones, 2-3% pyrite as fracture coatings and finely disseminated grains.	4949	tr-1	83.5	87.0	3.5					tr.
			4950	tr-1	87.0	92.0	5.0					tr.
			4951	tr-1	92.0	97.0	5.0					tr.
			4952	tr-1	97.0	102.0	5.0					tr.
			4953	tr-1	102.0	107.0	5.0					tr.
			4954	tr-1	107.0	112.0	5.0					tr.
			4955	tr-1	112.0	117.0	5.0					tr.
			4956	tr-1	117.0	122.0	5.0					tr.
			4957	tr-1	122.0	127.0	5.0					tr.
			4958	tr-1	127.0	132.0	5.0					tr.
			4959	tr-1	132.0	137.0	5.0					tr.
			4960	tr-1	137.0	141.0	4.0					tr.
			4961	tr-1	141.0	146.0	5.0					tr.
			4962	tr-1	146.0	151.0	5.0					tr.
			4963	tr-1	151.0	156.0	5.0					tr.
			4964	tr-1	156.0	161.0	5.0					tr.
			4965	2-3	161.0	166.0	5.0					tr.
			4966	2-3	166.0	169.0	3.0					tr.
			4967	2-3	169.0	172.0	3.0					tr.
			4968	2-3	172.0	177.0	5.0					tr.
			4969	tr-1	177.0	182.0	5.0					tr.
			4970	tr-1	182.0	187.0	5.0					tr.
			4971	tr-1	187.0	192.0	5.0					tr.
			4972	tr-1	192.0	197.0	5.0					tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-7 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au					
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON	
		- 197.9' to 198.1' - quartz vein, 2-3% pyrite as fracture coatings.	4973	2-3	197.0	200.9	3.9				tr.	
		- 200.9' to 202.4' - weakly carbonatized.	4974	tr-1	200.9	205.9	5.0				tr.	
			4975	tr-1	205.9	208.6	2.7				tr.	
		- 208.6' to 214.9' - brecciated, carbonate-epidote fracture fillings, trace pyrite.	4976	tr.	208.6	211.6	3.0				tr.	
			4977	tr.	211.6	214.9	3.3				tr.	
		- 216.9' to 217.6' - quartz vein, 2-3% potash feldspar grains, 1-2% tourmaline.	4978	tr.	214.9	217.6	2.7				tr.	
			4979	tr.	217.6	222.6	5.0				tr.	
			4980	tr.	222.6	227.6	5.0				tr.	
		- 230.9' to 231.1' - breccia, as above.	4981	tr.	227.6	232.6	5.0				tr.	
			4982	tr.	232.6	237.6	5.0				.002	
			4983	tr.	237.6	242.6	5.0				tr.	
			4984	tr.	242.6	247.6	5.0				tr.	
			4985	tr.	247.6	252.6	5.0				tr.	
			4986	tr.	252.6	257.6	5.0				.002	
			4987	tr.	257.6	262.6	5.0				tr.	
		- 264.6' to 265.3' - breccia, as above.	4988	tr.	262.6	267.0	4.4				tr.	
		- 267.0' to 269.6' - breccia, as above.	13701	tr.	267.0	270.8	3.8				tr.	
		- 269.6' to 270.8' - 0.5-2% magnetite, poorly banded, 0.3 foot breccia zone at bottom.										
270.8	441.4	MAFIC FLOWS AND TUFF - 85:15, black to dark green, fine grained, flows - massive; tuffs - banded.										
		<u>Average Modes</u>										
		Amphibole										
		Plagioclase										
		Quartz										
		Carbonate]	1	-	3%							
		Pyrite										
		Pyrrhotite]	1	-	2%							
		Chalcopyrite			trace							
		Foliation at 68° - 74° to core axis.										

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-7 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 270.8' to 309.0' - fine to medium grained flows, 1-2% disseminated wispy albite, 2-3% epidote-rich interflow	13702	tr.	270.8	275.8	5.0			tr.	
			13703	tr.	275.8	280.8	5.0			tr.	
			13704	tr.	280.8	285.7	4.9			tr.	
		- 285.7' to 291.0' - 1-2% magnetite.	13705	tr.	285.7	291.0	5.3			tr.	
			13706	tr.	291.0	296.0	5.0			tr.	
			13707	tr.	296.0	301.0	5.0			tr.	
			13708	2-3	301.0	306.0	5.0			tr.	
		- 306.0' to 307.0' - 2-3% pyrrhotite stringers.	13709	2-3	306.0	309.0	3.0			tr.	
		- 309.0' to 317.5' - tuff, 3-5% biotite.	13710	tr.	309.0	313.0	4.0			tr.	
			13711	tr.	313.0	317.5	4.5			tr.	
		- 317.5' to 319.7' - flows, as above.	13712	tr.	317.5	319.7	2.2			tr.	
		- 319.7' to 325.4' - tuff, well banded.	13713	tr.	319.7	322.7	3.0			tr.	
			13714	tr.	322.7	325.4	2.7			tr.	
		- 325.4' to 404.1' - amphibolitic flows, coarse grained, 2-5% quartz ± carbonate stringers, trace pyrite, chalcopyrite, 1-3% biotite.	13715	tr.	325.4	330.4	5.0			tr.	
			13716	tr.	330.4	335.4	5.0			tr.	
			13717	tr.	335.4	340.4	5.0			tr.	
			13718	tr.	340.4	345.4	5.0			tr.	
			13719	tr.	345.4	350.4	5.0			tr.	
			13720	tr.	350.4	355.4	5.0			tr.	
			13721	tr.	355.4	360.4	5.0			tr.	
			13722	tr.	360.4	365.4	5.0			tr.	
			13723	tr.	365.4	370.4	5.0			tr.	
			13724	tr.	370.4	375.4	5.0			tr.	
			13725	tr.	375.4	380.4	5.0			tr.	
			13726	tr.	380.4	385.4	5.0			tr.	
			13727	tr.	385.4	390.4	5.0			tr.	
		- 390.4' to 393.4' - quartz vein, 1.0 foot, trace tourmaline.	13728	tr.	390.4	393.4	3.0			tr.	
			13729	tr.	393.4	397.0	3.6			tr.	
			13730	tr.	397.0	401.1	4.1			tr.	
			13731	tr.	401.1	404.1	3.0			tr.	
		- 404.1' to 441.4' - flows, fine grained, 1-3% quartz ± carbonate, trace-0.5% pyrite, pyrrhotite.	13732	tr-0.5	404.1	409.1	5.0			tr.	
			13733	tr-0.5	409.1	414.1	5.0			tr.	
			13734	tr-0.5	414.1	419.1	5.0			tr.	
			13735	tr-0.5	419.1	424.1	5.0			tr.	
			13736	tr-0.5	424.1	427.0	2.9			tr.	
			13737	tr-0.5	427.0	430.0	3.0			tr.	
			13738	tr-0.5	430.0	432.4	2.4			tr.	
			13739	tr-0.5	432.4	437.4	5.0			tr.	
		- 430.0' to 432.4' - weakly carbonatized.	13740	tr-0.5	437.4	441.4	4.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGHINNIS

HOLE NO. KAS-88-7 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au					
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON	
441.4	466.3	<p><u>FELSIC TO INTERMEDIATE TUFF</u> - atypical, 5-7% biotite, 3-5% carbonate ± epidote, foliation at 70° to core axis at 452.0'.</p> <p>- 455.9' to 456.7' - large mafic volcanic clast.</p>	13741		441.4	446.4	5.0				tr.	
			13742		446.4	451.4	5.0				tr.	
			13743		451.4	455.9	4.5				tr.	
			13744		455.9	460.9	5.0				tr.	
			13745		460.9	466.3	5.4				tr.	
466.3	469.8	<p><u>MAFIC DYKE</u> - dark green to black, fine to medium grained, massive.</p> <p><u>Average Modes</u></p> <p>Amphibole 55 - 60%</p> <p>Plagioclase 15 - 20%</p> <p>Chlorite 10 - 15%</p> <p>Carbonate 3 - 5%</p> <p>Potash Feldspar 1 - 2%</p> <p>Pyrite 0.5 - 1%</p> <p>Medium grained chlorite pseudomorphs after pyroxene phenocrysts in a fine groundmass, pyrite as fracture coatings, potash feldspar as alteration around 1-2% quartz ± carbonate stringers, contacts at 63° to core axis at 466.3', 40° at 469.8'.</p>	13746		466.3	469.8	3.5				tr.	
469.8	474.9	<p><u>FELSIC TUFF</u> - light grey, fine grained, banded.</p> <p><u>Average Modes</u></p> <p>Quartz 45 - 50%</p> <p>Plagioclase 40 - 45%</p> <p>Chlorite 3 - 5%</p> <p>2-5% quartz-plagioclase eyes, 2-3% quartz-tourmaline veins, 1-2% pyrite, foliation at 72° to core axis at 474.0'.</p>	13747	1-2	469.8	474.9	5.1				tr.	
474.9	484.2	<p><u>INTERBEDDED MAFIC FLOWS AND FELSIC TUFF</u> - 50:50, 15-20% quartz-tourmaline veining, trace-1% pyrite, foliation at 70° to core axis at 483.8'.</p>	13748	tr-1	474.9	479.9	5.0				tr.	
			13749	tr-1	479.9	484.2	5.3				tr.	

LANGRISHES - TORONTO - 368-1186

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-7 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			AU					
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON		
484.2	486.8	MAFIC DYKE - typical, contacts at 55° to core axis at 486.8', 63° at 484.2'.	13750		484.2	486.8	2.6					tr.	
486.8	511.1	FELSIC TUFF - typical, foliation at 66° to core axis at 497.0', 68° at 507.0', 74° at 511.1'.	13751		486.8	491.8	5.0					tr.	
			13752		491.8	496.8	5.0					tr.	
			13753		496.8	501.8	5.0					tr.	
			13754		501.8	506.8	5.0					tr.	
			13755		506.8	511.1	4.3					tr.	
511.1	584.9	MAFIC FLOWS - AMPHIBOLITE - medium to coarse grained, amphibolitic, 1-3% quartz ± carbonate stringers, 1-2% wispy albite grains, trace-0.5% pyrrhotite, chalcopyrite; foliation at 58° to core axis at 546.0', 72° at 567.5'.	13756	tr-0.5	511.1	516.1	5.0					tr.	
			13757	tr-0.5	516.1	521.1	5.0					tr.	
			13758	tr-0.5	521.1	526.1	5.0					tr.	
			13759	tr-0.5	526.1	531.1	5.0					tr.	
			13760	tr-0.5	531.1	536.1	5.0					tr.	
			13761	tr-0.5	536.1	541.1	5.0					tr.	
			13762	tr-0.5	541.1	546.1	5.0					tr.	
			13763	tr-0.5	546.1	551.1	5.0					tr.	
			13764	tr-0.5	551.1	554.6	3.5					.002	
			13765	tr-0.5	554.6	557.2	2.6					tr.	
			13766	tr-0.5	557.2	562.2	5.0					tr.	
			13767	tr-0.5	562.2	567.2	5.0					tr.	
			13768	tr-0.5	567.2	570.7	3.5					tr.	
			13769	tr-0.5	570.7	572.8	2.1					tr.	
		- 572.8' to 584.9' - 1-5% pyrrhotite and pyrite as fine to coarse grained blebs, trace chalcopyrite.	13770	1-5	572.8	577.8	5.0					tr.	
			13771	1-5	577.8	581.3	3.5					tr.	
			13772	1-5	581.3	584.9	3.6					.002	
584.9	632.3	SHEARED - SILICIFIED MAFIC VOLCANICS AND IRON FORMATION - black to dark green to grey, fine to medium grained, banded to massive.											
		<u>Average Modes</u>											
		Amphibole			20 - 25%								
		Plagioclase			20 - 25%								
		Quartz			20 - 25%								
		Grunerite			5 - 7%								
		Garnet			trace - 3%								
		Carbonate			2 - 3%								

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS

HOLE NO. KAS-88-7 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au				
				FROM	TO	TOTAL			OZ TON	62 TON	
		Magnetite 2 - 5%									
		Pyrrhotite 2 - 5%									
		Pyrite 1 - 2%									
		Interbedded amphibolitic mafic volcanics and banded to laminated iron formation, magnetite occurs exclusive of pyrrhotite, pyrite occurs as fracture coatings, grunerite as haloes around quartz ± carbonate stringers, foliation at 64° - 70° to core axis.									
		- 584.9' to 592.0' - iron formation, banded, 2-5% magnetite as fine to medium grained blebs, 2-3% garnet, 2-3% quartz ± carbonate stringers.	13773		584.9	587.9	3.0			.002	
			13774		587.9	592.0	4.1			.030	
		- 592.0' to 594.0' - chert-amphibole, massive, 2-5% pyrrhotite as disseminated grains and 1/16" stringer sub-parallel to core axis, 2-3% carbonate.	13775	2-5	592.0	594.0	2.0			.232	
		- 594.0' to 601.6' - iron formation, as above, 1-3% quartz ± carbonate stringers.	13776		594.0	597.0	3.0			.026	
		- 600.2' to 601.6' - 2-5% pyrrhotite as wispy blebs and bands.	13777		597.0	601.6	4.6			.032	
		- 601.6' to 604.4' - mafic volcanics, fine grained, 2-3% quartz ± carbonate stringers, trace-1% pyrite as disseminated grains and fracture fillings.	13778	2-5	601.6	604.4	2.8			.002	
		- 604.4' to 610.1' - iron formation, 5-7% medium grained garnets, 1-2% quartz ± carbonate stringers, trace pyrite and pyrrhotite, 3-7% magnetite.	13779	tr.	604.4	607.4	4.0			tr.	
			13780	tr.	607.4	610.1	2.7			.002	
		- 610.1' to 612.7' - mafic volcanics and iron formation, banded, 3-5% magnetite, trace-1% pyrrhotite and pyrite.	13781	tr-1	610.1	612.7	2.6			.046	
		- 612.7' to 632.3' - mafic volcanics, fine to medium grained, amphibolitic, 2-5% magnetite.	13782		612.7	617.4	4.7			tr.	
		- 617.4' to 618.2' - quartz vein, volcanic inclusions with 1-2% medium grained magnetite blebs.	13783		617.4	622.4	5.0			tr.	
			13784		622.4	627.4	5.0			tr.	
		- 627.7' to 628.7' - iron formation, as per 584.9' to 592.0', 0.5-1% pyrrhotite.	13785	0.5-1	627.4	632.3	4.9			tr.	

LANGUAGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY KASAGIMINNIS
 HOLE NO. KAS-88-7 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 631.7' to 632.3' - as above.									
632.3	637.0	MAFIC FLOWS - fine grained, 1-3% disseminated magnetite, 0.5-1% pyrite fracture coatings, fracture - cleavage at 30° to core axis at 635.0'.	13786	0.5-1	632.3	637.0	4.7			tr.	
	637.0	<u>END OF HOLE</u>									

[Handwritten signature]

APPENDIX D

ASSAY CERTIFICATES



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

Page 1 of 2

NO. 3180 (Corrected)

DATE: March 2, 1988

SAMPLE(S) OF: Core (88)

RECEIVED: September 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
10001	Trace	10023	0.020
2	Trace	4	0.078 - 0.074
3	Trace	5	0.040
4	Trace	6	Trace
5	Trace	7	Trace
6	Trace	8	Trace
7	Trace	9	Trace
8	Trace	10030	0.006
9	Trace	1	0.026
10010	Trace	2	0.014
1	0.010	3	Trace
2	0.002*	4	Trace
3	Trace	5	Trace
4	0.014	6	Trace
5	Trace	7	Trace
6	Trace	8	Trace
7	0.030	9	Trace
8	0.020	10040	Trace
9	0.012	1	Trace
10020	0.010	2	Trace
1	0.028	3	Trace
2	Trace	4	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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BELL - WHITE ANALYTICAL LABORATORIES LTD.

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HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

Page 2 of 2

NO. 3180 (Corrected)

DATE: March 2, 1988

SAMPLE(S) OF: Core (88)

RECEIVED: September 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Oz. Gold
10045	Trace
6	Trace
7	Trace
8	0.006
9	Trace
10050	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
10060	Trace
1	Trace
2	Trace
3	0.014
4	0.002
5	Trace
6	Trace

Sample No.	Oz. Gold
10067	0.168 - 0.174
8	0.120 - 0.122
9	0.004
10070	Trace
1	Trace
2	0.064 - 0.060
3	Trace
4	0.004
5	0.182 - 0.168
6	0.018
7	0.058 - 0.056
8	Trace
9	Trace
10080	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER. 

IN ACCORDANCE WITH LONG ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE, GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



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HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 3196

DATE: September 24, 1987

SAMPLE(S) OF: Core (35)

RECEIVED: September 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Au oz.</u>	<u>Ag ppm</u>
10137	Trace	1.2
8	Trace	1.8
9	Trace	1.6
10140	Trace	1.2
1	Trace	1.4
2	Trace	0.6
3	Trace	0.4
4	0.014	1.2
5	Trace	0.2
6	Trace	0.4
7	Trace	0.2
8	Trace	ND
9	Trace	0.6
10150	Trace	0.8
1	Trace	1.2
2	Trace	0.4
3	0.028	0.6
4	Trace	1.0
5	0.040	1.0
6	Trace	0.4
7	0.058 - 0.054	0.6
8	0.002	0.4
9	Trace	0.6
10160	Trace	1.0
1	0.018	1.2
2	0.002	1.0
3	0.048	1.8
4	0.016	1.2
5	0.002	1.4
6	Trace	0.8
7	0.062 - 0.062	0.8
8	Trace	1.0
9	0.012	0.8
10170	0.022	1.0
1	0.028	0.4

NOTE: ND denotes not detected.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 3381

DATE: October 13, 1987

SAMPLE(S) OF: Core (46)

RECEIVED: October, 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Au oz.</u>	<u>Sample No.</u>	<u>Au oz.</u>
10172	0.022	10195	Trace
3	0.006	6	Trace
4	Trace	7	Trace
5	Trace	8	Trace
6	Trace	9	Trace
7	Trace	10200	Trace
8	Trace	1	0.066 - 0.064
9	0.002 *	2	0.014
10180	Trace	3	Trace
1	0.016	4	0.002 *
2	Trace	5	0.004
3	Trace	6	Trace
4	0.012	7	Trace
5	0.020	8	Trace
6	0.002 *	9	Trace
7	0.026	10210	Trace
8	Trace	1	0.002 *
9	Trace	2	Trace
10190	Trace	3	0.024
1	Trace	4	Trace
2	Trace	5	Trace
3	Trace	6	Trace
4	Trace	7	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

NO. 3387

DATE: October 14, 1987

SAMPLE(S) OF: Core (54)

RECEIVED: October, 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Au oz.</u>	<u>Sample No.</u>	<u>Au oz.</u>
10218	Trace	10245	0.002 *
9	Trace	6	Trace
10220	Trace	7	Trace
1	Trace	8	Trace
2	Trace	9	Trace
3	Trace	10250	Trace
4	Trace	1	Trace
5	Trace	2	Trace
6	Trace	3	0.010
7	Trace	4	Trace
8	Trace	5	Trace
9	Trace	6	Trace
10230	Trace	7	Trace
1	Trace	8	Trace
2	Trace	9	Trace
3	Trace	10260	Trace
4	Trace	1	Trace
5	0.002 *	2	Trace
6	Trace	3	Trace
7	Trace	4	Trace
8	Trace	5	Trace
9	Trace	6	0.014
10240	Trace	7	0.004
1	0.022	8	Trace
2	Trace	9	Trace
3	Trace	10270	Trace
4	Trace	1	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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Page 1 of 2

NO. 3287 (Corrected)

DATE: March 2, 1988

SAMPLE(S) OF: Core (221)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. Geoff Lumby, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Oz. Gold	Sample No.	Oz. Gold	Sample No.	Oz. Gold
2981	Trace	10289	Trace	10326	Trace
2	Trace	10290	Trace	7	Trace
3	Trace	1	Trace	8	Trace
4	Trace	2	Trace	9	Trace
5	Trace	3	Trace	10330	Trace
6	0.002*	4	0.002*	1	Trace
7	Trace	5	0.002*	2	Trace
8	Trace	6	Trace	3	0.002*
9	Trace	7	Trace	4	Trace
2990	Trace	8	Trace	5	Trace
1	Trace	9	Trace	6	Trace
2	Trace	10300	Trace	7	Trace
3	Trace	1	Trace	8	Trace
4	Trace	2	0.014	18001	Trace
5	Trace	3	Trace	2	Trace
6	Trace	4	Trace	3	Trace
7	0.002*	5	Trace	4	Trace
8	Trace	6	Trace	5	0.002*
9	Trace	7	Trace	6	0.002*
3000	Trace	8	Trace	7	0.002*
10272	Trace	9	Trace	8	Trace
3	Trace	10310	Trace	9	0.002*
4	Trace	1	Trace	18010	Trace
5	Trace	2	Trace	1	Trace
6	Trace	3	Trace	2	0.004
7	Trace	4	0.010	3	Trace
8	Trace	5	Trace	4	Trace
9	Trace	6	0.002	5	Trace
10280	Trace	7	Trace	6	0.034
1	Trace	8	Trace	7	Trace
2	Trace	9	Trace	8	Trace
3	0.002*	10320	Trace	9	0.002*
4	0.002*	1	Trace	18020	Trace
5	Trace	2	0.008	1	Trace
6	Trace	3	0.012	2	Trace
7	Trace	4	0.062	3	Trace
8	Trace	5	0.028	4	Trace

Estimated

IN ACCORDANCE WITH LONG ESTABLISHED NORTH AMERICAN CUSTOMS, ONLY THAT IS SPECIFICALLY STATED ON THIS CERTIFICATE AND OTHER VALUES REPORTED ON THIS CERTIFICATE HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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Certificate of Analysis

NO. 3318

DATE: October 6, 1987

SAMPLE(S) OF: Core (46)

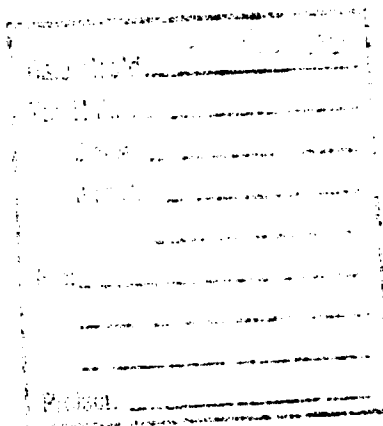
RECEIVED: October 1987

SAMPLE(S) FROM: Mr. R Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis

Sample No.	Oz. Gold	Sample No.	Oz. Gold
10339	Trace	10362	0.008
10340	0.006	3	0.018
1	Trace	4	0.050
2	0.002*	5	0.010
3	Trace	6	0.008
4	0.002*	7	Trace
5	Trace	8	0.002*
6	0.146 - 0.142	9	0.012
7	Trace	10370	0.002*
8	0.002*	1	0.004
9	0.004	2	Trace
10350	0.004	3	Trace
1	0.006	4	0.004
2	Trace	5	0.024
3	0.002*	6	0.030
4	Trace	7	0.002
5	Trace	8	Trace
6	Trace	9	Trace
7	Trace	10380	Trace
8	0.002*	1	Trace
9	Trace	2	Trace
10360	0.002*	3	Trace
1	0.002*	4	Trace

* Estimated



IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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Page 1 of 2

NO. 3326

DATE: October 7, 1987

SAMPLE(S) OF: Core (72)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. Rob Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis

Sample No.	Au oz.	Sample No.	Au oz.	Sample No.	Au oz.
10385	0.002*	10409	0.092	10433	0.016
6	Trace	10410	0.048	4	Trace
7	Trace	1	0.002*	5	Trace
8	Trace	2	0.030	6	Trace
9	Trace	3	Trace	7	0.002*
10390	Trace	4	Trace	8	Trace
1	Trace	5	Trace	9	Trace
2	0.002*	6	Trace	10440	Trace
3	Trace	7	Trace	1	Trace
4	Trace	8	Trace	2	Trace
5	Trace	9	Trace	3	Trace
6	Trace	10420	Trace	4	Trace
7	Trace	1	Trace	5	Trace
8	0.002*	2	Trace	6	0.012
9	Trace	3	Trace	7	Trace
10400	0.002*	4	Trace	8	Trace
1	0.010	5	Trace	10450	0.002*
2	0.010	6	Trace	1	0.002*
3	0.002*	7	0.002*	2	Trace
4	Trace	8	Trace	3	Trace
5	Trace	9	Trace	4	Trace
6	0.004	10430	Trace	5	Trace
7	0.002*	1	Trace	6	Trace
8	0.036	2	0.002*	7	Trace

* Estimated

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TEL: 672-3107

Certificate of Analysis

NO. 3356

DATE: October 9, 1987

SAMPLE(S) OF: Core (97)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Au oz.	Sample No.	Au oz.	Sample No.	Au oz.
10458	Trace	10490	0.002*	10523	Trace
9	Trace	1	Trace	4	0.002*
10460	Trace	2	Trace	5	Trace
1	Trace	3	Trace	6	Trace
2	Trace	4	Trace	7	Trace
3	Trace	5	Trace	8	Trace
4	Trace	6	Trace	9	Trace
5	Trace	7	Trace	10530	Trace
6	Trace	8	Trace	1	Trace
7	Trace	9	Trace	2	Trace
8	Trace	10500	Trace	3	Trace
9	Trace	1	Trace	4	Trace
10470	Trace	2	Trace	5	Trace
1	Trace	3	Trace	6	Trace
2	Trace	4	Trace	7	Trace
3	0.002*	5	Trace	8	Trace
4	0.010	6	Trace	9	Trace
5	Trace	7	Trace	10540	Trace
6	0.080 - 0.086	8	Trace	1	Trace
7	0.018	9	Trace	2	Trace
8	0.002*	10510	Trace	3	Trace
9	0.014	1	Trace	4	Trace
10480	0.032	2	Trace	5	Trace
1	Trace	3	Trace	6	Trace
2	0.034	4	Trace	7	Trace
3	0.004	5	0.002*	8	Trace
4	Trace	6	Trace	9	Trace
5	Trace	7	Trace	10550	0.002*
6	Trace	8	Trace	1	Trace
7	Trace	9	Trace	2	Trace
8	0.002*	10520	Trace	3	Trace
9	Trace	1	Trace	4	Trace
		2	0.002*		

* Estimated

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Certificate of Analysis

NO. 3342 (Corrected)

DATE: March 2, 1988

SAMPLE(S) OF: Core (37)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. Rob Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>
10555	Trace
6	Trace
7	Trace
8	Trace
9	Trace
10560	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
10570	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	0.002*
7	Trace
8	Trace
9	Trace
10580	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
10590	Trace
1	0.044

* Estimated

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HAILEYBURY. ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 3449

DATE: October 22, 1987

SAMPLE(S) OF: Core (4)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis

<u>Sample No.</u>	<u>Oz. Gold</u>
10592	Trace
3	Trace
4	Trace
5	Trace

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TEL: 672-3107

Certificate of Analysis

NO. 3442

DATE: October 22, 1987

SAMPLE(S) OF: Rock (53)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
10596	Trace	10622	Trace
7	0.014	3	Trace
8	Trace	4	Trace
9	Trace	5	Trace
10600	Trace	6	Trace
1	Trace	7	Trace
2	Trace	8	Trace
3	Trace	9	Trace
4	Trace	10630	Trace
5	0.002*	1	Trace
6	0.002*	2	Trace
7	Trace	3	Trace
8	0.002	4	Trace
9	Trace	5	Trace
10610	0.002*	6	Trace
1	0.002*	7	Trace
2	Trace	8	Trace
3	0.004	9	Trace
4	0.002*	10640	Trace
5	Trace	1	Trace
6	0.002	2	Trace
7	Trace	3	Trace
8	Trace	4	Trace
9	Trace	5	Trace
10620	Trace	6	Trace
1	Trace	7	Trace
		8	0.014

* Estimated

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TEL: 672-3107

Certificate of Analysis

NO. 3355

DATE: October 9, 1987

SAMPLE(S) OF: Core (88)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Au oz.	Sample No.	Au oz.	Sample No.	Au oz.
10649	0.010	10678	Trace	10708	Trace
10650	Trace	9	Trace	9	Trace
1	Trace	10680	Trace	10710	Trace
2	Trace	1	Trace	1	Trace
3	0.002*	2	Trace	2	Trace
4	0.020	3	Trace	3	Trace
5	0.002*	4	Trace	4	Trace
6	Trace	5	Trace	5	Trace
7	Trace	6	Trace	6	Trace
8	Trace	7	Trace	7	Trace
9	Trace	8	Trace	8	Trace
10660	Trace	9	Trace	9	Trace
1	Trace	10690	Trace	10720	Trace
2	Trace	1	Trace	1	Trace
3	0.012	2	Trace	2	Trace
4	Trace	3	Trace	3	Trace
5	0.002*	4	Trace	4	Trace
6	0.002*	5	Trace	5	Trace
7	Trace	6	Trace	6	Trace
8	Trace	7	Trace	7	0.002
9	Trace	8	Trace	8	Trace
10670	Trace	9	Trace	9	Trace
1	Trace	10700	Trace	10730	Trace
2	Trace	1	Trace	1	0.004
3	Trace	2	Trace	2	Trace
4	0.002*	3	Trace	3	Trace
5	Trace	4	Trace	4	0.012
6	Trace	5	Trace	5	0.006
7	Trace	6	0.002*	6	Trace
		7	Trace		

* Estimated

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Certificate of Analysis

NO. 3437

DATE: October 21, 1987

SAMPLE(S) OF: Core (91)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis

<u>Sample No.</u>	<u>Au Oz.</u>	<u>Sample No.</u>	<u>Au Oz.</u>	<u>Sample No.</u>	<u>Au Oz.</u>
10736	Trace	10767	Trace	10799	Trace
8	Trace	8	Trace	10800	Trace
9	Trace	9	Trace	1	Trace
0740	Trace	10770	Trace	2	Trace
1	Trace	1	Trace	3	Trace
2	Trace	2	Trace	4	Trace
3	Trace	3	Trace	5	Trace
4	Trace	4	Trace	7	Trace
5	Trace	5	Trace	8	0.008
6	Trace	6	Trace	9	Trace
7	Trace	7	Trace	10810	Trace
8	Trace	8	Trace	1	0.002*
9	Trace	9	Trace	2	Trace
0750	Trace	10780	Trace	3	Trace
1	Trace	1	Trace	4	Trace
2	Trace	3	Trace	5	Trace
3	Trace	4	Trace	6	Trace
4	Trace	5	0.028	7	Trace
5	Trace	6	0.008	8	Trace
6	Trace	7	Trace	9	Trace
7	Trace	8	Trace	10820	Trace
8	Trace	9	Trace	1	Trace
9	Trace	10790	Trace	2	Trace
0760	Trace	1	Trace	3	Trace
1	Trace	2	Trace	4	Trace
2	Trace	3	Trace	5	0.002
3	Trace	4	Trace	6	Trace
4	Trace	5	Trace	7	Trace
5	Trace	6	Trace	8	Trace
6	Trace	7	Trace	9	Trace
		8	Trace		

* Estimated

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Certificate of Analysis

NO. 3474

DATE: October 23, 1987

SAMPLE(S) OF: Core (23)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis

<u>Sample No.</u>	<u>Oz Gold</u>
10830	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	0.002*
9	Trace
10840	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
10850	Trace
1	Trace
2	Trace

* Estimated

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TEL: 672-3107

Certificate of Analysis

NO. 3477

DATE: October 23, 1987

SAMPLE(S) OF: Core (92)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. Janes Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis

<u>Sample No.</u>	<u>Oz Gold</u>	<u>Sample No.</u>	<u>Oz Gold</u>	<u>SampleNo.</u>	<u>Oz Gold</u>
10853	Trace	10884	Trace	10915	Trace
4	Trace	5	Trace	6	Trace
5	Trace	6	Trace	7	Trace
6	Trace	7	Trace	8	Trace
7	Trace	8	Trace	9	Trace
8	Trace	9	Trace	10920	Trace
9	0.002*	10890	Trace	1	Trace
10860	Trace	1	Trace	2	Trace
1	Trace	2	Trace	3	Trace
2	Trace	3	Trace	4	Trace
3	Trace	4	Trace	5	Trace
4	Trace	5	Trace	6	Trace
5	Trace	6	Trace	7	Trace
6	Trace	7	Trace	8	Trace
7	Trace	8	Trace	9	Trace
8	Trace	9	Trace	10930	Trace
9	Trace	10900	Trace	1	Trace
10870	Trace	1	Trace	2	Trace
1	Trace	2	0.002*	3	Trace
2	Trace	3	0.002*	4	Trace
3	Trace	4	Trace	5	Trace
4	Trace	5	0.002*	6	Trace
5	Trace	6	Trace	7	Trace
6	Trace	7	Trace	8	Trace
7	Trace	8	0.016	9	Trace
8	Trace	9	Trace	10940	Trace
9	Trace	10910	Trace	1	Trace
10880	Trace	1	Trace	2	Trace
1	Trace	2	Trace	3	Trace
2	Trace	3	Trace	4	Trace
3	Trace	4	Trace		

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

NO. 3532

DATE: October 27, 1987

SAMPLE(S) OF: Core (90)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis

<u>Sample No.</u>	<u>Oz Gold</u>	<u>Sample No.</u>	<u>Oz Gold</u>	<u>Sample No.</u>	<u>Oz Gold</u>
9506	Trace	9526	Trace	9566	Trace
7	0.006	7	0.002*	7	Trace
8	Trace	8	Trace	8	Trace
9	Trace	9	Trace	9	Trace
9510	Trace	9540	Trace	9570	Trace
1	Trace	1	Trace	1	Trace
2	Trace	2	Trace	2	Trace
3	Trace	3	Trace	3	Trace
4	Trace	4	Trace	4	Trace
5	Trace	5	0.002*	5	Trace
6	Trace	6	Trace	6	Trace
7	Trace	7	Trace	7	Trace
8	Trace	8	Trace	8	Trace
9	Trace	9	Trace	9	Trace
9520	Trace	9550	Trace	9580	Trace
1	Trace	1	Trace	1	Trace
2	Trace	2	Trace	2	Trace
3	Trace	3	Trace	3	Trace
4	Trace	4	Trace	4	Trace
5	Trace	5	Trace	5	Trace
6	Trace	6	Trace	6	Trace
7	Trace	7	Trace	7	Trace
8	Trace	8	Trace	8	Trace
9	Trace	9	Trace	9	Trace
9530	Trace	9560	Trace	9590	0.002*
1	Trace	1	Trace	1	Trace
2	Trace	2	Trace	2	Trace
3	0.002	3	Trace	3	Trace
4	Trace	4	Trace	4	Trace
5	Trace	5	Trace	5	Trace

* Estimated

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Certificate of Analysis

NO. 3509

DATE: October 26, 1987

SAMPLE(S) OF: Core (63)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagimminis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
9501	Trace	10959	Trace	10980	Trace
2	Trace	10960	Trace	1	Trace
3	Trace	1	Trace	2	Trace
4	Trace	2	Trace	3	Trace
5	Trace	3	Trace	4	Trace
9699	Trace	4	Trace	5	Trace
9700	Trace	5	Trace	6	Trace
10945	Trace	6	Trace	7	Trace
6	Trace	7	Trace	8	Trace
7	Trace	8	Trace	9	Trace
8	Trace	9	Trace	10990	Trace
9	Trace	10970	Trace	1	Trace
10950	Trace	1	Trace	2	Trace
1	Trace	2	Trace	3	Trace
2	Trace	3	Trace	4	Trace
3	Trace	4	Trace	5	Trace
4	Trace	5	Trace	6	Trace
5	Trace	6	Trace	7	Trace
6	Trace	7	Trace	8	Trace
7	Trace	8	Trace	9	Trace
8	Trace	9	Trace	11000	Trace

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

NO. 3508

DATE: October 26, 1987

SAMPLE(S) OF: Core (86)

RECEIVED: October 1987

SAMPLE(S) FROM: James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis

<u>Sample No.</u>	<u>Oz Gold</u>	<u>Sample No.</u>	<u>Oz Gold</u>	<u>Sample No.</u>	<u>Oz Gold</u>
9596	Trace	9625	0.004	9654	Trace
9597	Trace	6	0.002*	5	Trace
8	Trace	7	Trace	6	Trace
9	Trace	8	Trace	7	Trace
9600	Trace	9	Trace	8	Trace
1	Trace	9630	Trace	9	Trace
2	Trace	1	Trace	9660	Trace
3	Trace	2	Trace	1	Trace
4	Trace	3	Trace	2	Trace
5	Trace	4	Trace	3	Trace
6	Trace	5	Trace	4	Trace
7	Trace	6	Trace	5	Trace
8	Trace	7	Trace	6	Trace
9	Trace	8	0.002*	7	Trace
9610	Trace	9	Trace	8	Trace
1	Trace	9640	Trace	9	Trace
2	Trace	9641	Trace	9670	Trace
3	Trace	2	Trace	1	Trace
4	Trace	3	Trace	2	Trace
5	Trace	4	Trace	3	Trace
6	Trace	5	Trace	4	Trace
7	Trace	6	Trace	5	Trace
8	Trace	7	Trace	6	Trace
9	Trace	8	Trace	7	Trace
9620	Trace	9	Trace	8	Trace
1	Trace	9650	Trace	9	Trace
2	Trace	1	Trace	9680	Trace
3	Trace	2	Trace	1	0.004
4	0.006	3	Trace		

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

NO. 3510

DATE: October 26, 1987

SAMPLE(S) OF: Core (17)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis

<u>Sample No.</u>	<u>Oz Gold</u>
9682	Trace
3	Trace
4	0.020
5	0.012
6	0.168 - 0.154
7	0.136 - 0.130
8	0.130 - 0.126
9	Trace
9690	0.016
1	0.012
2	0.100 - 0.098
3	Trace
4	Trace
5	Trace
6	Trace
7	0.002*
8	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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Certificate of Analysis

Page 1 of 2

NO. 3594

DATE: November 2, 1987

SAMPLE(S) OF: Core (216)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Au oz.	Sample No.	Au oz.	Sample No.	Au oz.
1301	0.028	9721	Trace	9757	Trace
2	0.024	2	Trace	8	Trace
3	0.341**	3	Trace	9	Trace
4	0.010	4	Trace	9760	Trace
5	0.002*	5	Trace	1	Trace
6	Trace	6	Trace	2	Trace
7	Trace	7	Trace	3	Trace
8	Trace	8	Trace	4	Trace
9	Trace	9	Trace	5	Trace
1310	Trace	9730	Trace	6	Trace
1	0.006	1	Trace	7	0.002*
2	Trace	2	Trace	8	0.002*
3	0.002*	3	Trace	9	Trace
4	Trace	4	Trace	9770	Trace
5	Trace	5	Trace	1	0.002*
6	Trace	6	Trace	2	Trace
9701	Trace	7	Trace	3	Trace
2	Trace	8	Trace	4	Trace
3	Trace	9	Trace	5	Trace
4	0.002*	9740	Trace	6	Trace
5	Trace	1	Trace	7	Trace
6	Trace	2	0.002*	8	Trace
7	Trace	3	Trace	9	Trace
8	Trace	4	Trace	9780	Trace
9	Trace	5	Trace	1	Trace
9710	Trace	6	Trace	2	Trace
1	Trace	7	Trace	3	Trace
2	Trace	8	Trace	4	Trace
3	Trace	9	Trace	5	Trace
4	Trace	9750	Trace	6	Trace
5	Trace	1	Trace	7	Trace
6	Trace	2	Trace	8	Trace
7	Trace	3	Trace	9	Trace
8	Trace	4	Trace	9790	Trace
9	Trace	5	Trace	1	0.006
9720	Trace	6	Trace	2	Trace

** Checked
* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

Page 2 of 2

NO. 3594

DATE: November 2, 1987

SAMPLE(S) OF: Core (216)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Au oz.	Sample No.	Au oz.	Sample No.	Au oz.
9793	Trace	9829	Trace	9865	Trace
4	Trace	9830	Trace	6	Trace
5	Trace	1	0.004	7	Trace
6	0.002	2	Trace	8	Trace
7	Trace	3	Trace	9	Trace
8	Trace	4	0.002	9870	Trace
9	0.002	5	Trace	1	0.002
9800	Trace	6	Trace	2	Trace
1	Trace	7	Trace	3	Trace
2	Trace	8	Trace	4	Trace
3	0.002*	9	Trace	5	Trace
4	0.008	9840	0.002*	6	Trace
5	0.006	1	Trace	7	Trace
6	Trace	2	0.010	8	Trace
7	Trace	3	0.002*	9	0.002*
8	0.028	4	0.002*	9880	Trace
9	0.042	5	Trace	1	Trace
9810	Trace	6	Trace	2	Trace
1	Trace	7	Trace	3	Trace
2	Trace	8	Trace	4	Trace
3	Trace	9	Trace	5	Trace
4	Trace	9850	Trace	6	Trace
5	Trace	1	Trace	7	Trace
6	Trace	2	0.002*	8	Trace
7	Trace	3	Trace	9	Trace
8	Trace	4	Trace	9890	Trace
9	Trace	5	Trace	1	Trace
9820	Trace	6	Trace	2	Trace
1	Trace	7	Trace	3	Trace
2	Trace	8	0.014	4	Trace
3	0.002*	9	Trace	5	Trace
4	Trace	9860	Trace	6	Trace
5	0.002*	1	0.016	7	Trace
6	0.002*	2	Trace	8	Trace
7	0.002*	3	Trace	9	Trace
8	Trace	4	Trace	9900	Trace

* Estimated

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HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 3515

DATE: October 26, 1987

SAMPLE(S) OF: Core (6)

RECEIVED: October 1987

SAMPLE(S) FROM: Geocanex Ltd.

KAS. L.

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Oz. Gold</u>	<u>(Metallic) Oz. Gold</u>
10161	Trace	Trace	Trace
10163	Trace	Trace	Trace
10165	0.002*	0.002*	Trace
10167	Trace	Trace	Trace
10171	Trace	Trace	Trace
10172	Trace	Trace	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

NO. 3487

DATE: October 23, 1987

SAMPLE(S) OF: Core (7)

RECEIVED: October 1987

SAMPLE(S) FROM: Mr. R. Higgison, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Ag ppm</u>
10172	0.8
3	0.4
4	0.4
5	0.4
6	0.2
7	0.4
8	0.4

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TEL: 672-3107

Certificate of Analysis

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NO. 3644

DATE: November 6, 1987

SAMPLE(S) OF: Core (167)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis

<u>Sample No.</u>	<u>Oz Gold</u>	<u>Sample No.</u>	<u>Oz Gold</u>
9901	Trace	9935	Trace
2	Trace	6	Trace
3	Trace	7	Trace
4	Trace	8	Trace
5	Trace	9	Trace
6	Trace	9940	Trace
7	Trace	1	Trace
8	Trace	2	Trace
9	Trace	3	Trace
9910	Trace	4	Trace
1	Trace	5	Trace
2	Trace	6	Trace
3	Trace	7	Trace
4	Trace	8	Trace
5	Trace	9	Trace
6	Trace	9950	Trace
7	Trace	1	Trace
8	Trace	2	Trace
9	Trace	3	Trace
9920	Trace	4	Trace
1	Trace	5	Trace
2	0.008	6	Trace
3	Trace	7	Trace
4	Trace	8	Trace
5	Trace	9	Trace
6	Trace	9960	Trace
7	Trace	1	0.002*
8	0.006	2	0.002
9	Trace	3	Trace
9930	Trace	4	Trace
1	Trace	5	0.044
2	Trace	6	Trace
3	Trace	7	0.002*
4	Trace	8	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

Page 2 of 2

NO. 3644

DATE: November 6, 1987

SAMPLE(S) OF: Core (167)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. James Pierce, Geocanex Ltd.

PROJECT: Kasagiminnis

Sample No.	Oz Gold	Sample No.	Oz Gold	Sample No.	Oz Gold
9969	Trace	1339	Trace	1371	Trace
9970	0.068	1340	Trace	2	Trace
1	0.164-0.176	1	0.002	3	Trace
2	0.062	2	Trace	4	Trace
3	Trace	3	Trace	5	Trace
4	Trace	4	Trace	6	Trace
5	Trace	5	Trace	7	Trace
6	0.002*	6	Trace	8	Trace
7	Trace	7	Trace	9	Trace
8	0.010	8	Trace	1380	Trace
1317	0.002	9	Trace	1	0.002
8	Trace	1350	Trace	2	Trace
9	Trace	1	Trace	3	0.012
1320	Trace	2	Trace	4	Trace
1	Trace	3	Trace	5	Trace
2	Trace	4	Trace	6	Trace
3	Trace	5	Trace	7	Trace
4	Trace	6	0.002*	8	Trace
5	Trace	7	Trace	9	Trace
6	Trace	8	Trace	1390	Trace
7	Trace	9	Trace	1	Trace
8	Trace	1360	Trace	2	Trace
9	Trace	1	Trace	3	Trace
1330	Trace	2	Trace	4	Trace
1	Trace	3	Trace	5	Trace
2	Trace	4	Trace	6	Trace
3	Trace	5	Trace	7	0.014
4	Trace	6	Trace	8	Trace
5	Trace	7	Trace	9	Trace
6	0.012	8	Trace	1400	Trace
7	Trace	9	Trace	17700	Trace
8	Trace	1370	Trace		

* Estimated

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TEL: 672-3107

Certificate of Analysis

Page 1 of 5

NO. 3659

DATE: November 10, 1987

SAMPLE(S) OF: Core (300)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Oz. Gold	Sample No.	Oz. Gold
1401	Trace	1431	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	Trace	7	Trace
8	Trace	8	Trace
9	Trace	9	Trace
1410	Trace	1440	Trace
1	Trace	1	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	0.002*
6	Trace	6	Trace
7	Trace	7	Trace
8	Trace	1448	Trace
9	Trace	9	0.004
1420	Trace	1450	Trace
1	Trace	1	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	Trace	7	Trace
8	Trace	8	Trace
9	Trace	9	Trace
1430	Trace	1460	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

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NO. 3659

DATE: November 10, 1987

SAMPLE(S) OF: Core (300)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
1461	Trace	1491	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace	6	0.012
7	Trace	7	Trace
8	Trace	8	Trace
9	Trace	9	Trace
1470	Trace	9979	Trace
1	Trace	9980	Trace
2	Trace	1	Trace
3	Trace	2	Trace
4	Trace	3	0.018
5	Trace	4	Trace
6	Trace	5	0.010
7	0.006	6	0.024
8	0.002	7	0.032
9	Trace	8	Trace
1480	Trace	9	Trace
1	0.002*	9990	Trace
2	0.002*	1	Trace
3	Trace	2	Trace
4	Trace	3	Trace
5	Trace	4	Trace
6	Trace	5	Trace
7	0.002*	6	Trace
1488	Trace	7	Trace
9	Trace	8	Trace
1490	Trace	9	Trace

* Estimated

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NO. 3659

DATE: November 10, 1987

SAMPLE(S) OF: Core (300)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
10000	Trace	17530	Trace
17501	Trace	1	Trace
2	0.002*	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	Trace	7	Trace
8	0.002	8	Trace
9	0.002*	9	Trace
17510	0.002*	17540	Trace
1	0.002*	1	0.002
2	0.002	2	Trace
3	0.004	3	Trace
4	Trace	4	Trace
5	0.010	5	Trace
6	Trace	6	Trace
7	0.002*	7	0.010
8	Trace	8	0.008
9	Trace	9	0.002
17520	0.004	17550	Trace
1	Trace	1	Trace
2	Trace	2	Trace
3	0.002	3	Trace
4	0.004	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	Trace	7	Trace
8	Trace	8	Trace
9	Trace	9	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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NO. 3659

DATE: November 10, 1987

SAMPLE(S) OF: Core (300)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Oz. Gold
17560	Trace
1	Trace
2	Trace
3	0.006
4	Trace
5	Trace
6	0.008
7	0.006
8	Trace
9	0.012
17570	Trace
1	0.008
2	Trace
3	Trace
4	0.002
5	Trace
6	0.002
7	Trace
8	Trace
9	Trace
17580	Trace
1	Trace
2	0.002*
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace

Sample No.	Oz. Gold
17590	Trace
1	Trace
2	Trace
3	0.002*
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
17600	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	0.002*
6	0.002*
7	Trace
8	0.002*
9	Trace
17610	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	0.012
6	Trace
7	Trace
8	Trace
9	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

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NO. 3659

DATE: November 10, 1987

SAMPLE(S) OF: Core (300)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Oz. Gold	Sample No.	Oz. Gold
17620	Trace	17650	Trace
1	Trace	1	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	Trace	7	Trace
8	Trace	8	Trace
9	Trace	9	Trace
17630	Trace	17660	Trace
1	Trace	1	Trace
2	Trace	2	0.004
3	Trace	3	0.006
4	0.008	4	0.002*
5	Trace	5	0.004
6	Trace	6	Trace
7	Trace	7	Trace
8	0.010	8	0.004
9	0.008	9	Trace
17640	Trace	17670	Trace
1	Trace	1	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	17675	Trace
5	Trace	6	0.002*
6	Trace	7	0.002*
7	Trace	8	0.002*
8	Trace	9	Trace
9	Trace	17680	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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NO. 3703

DATE: November 12, 1987

SAMPLE(S) OF: Core (120)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
6001	Trace	6031	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	Trace	7	Trace
8	Trace	8	Trace
9	Trace	9	Trace
6010	Trace	6040	Trace
1	Trace	1	Trace
2	Trace	2	Trace
3	0.002*	3	Trace
4	Trace	4	0.002*
5	Trace	5	Trace
6	0.010	6	0.018
7	Trace	7	Trace
8	Trace	8	Trace
9	0.002*	9	Trace
6020	0.020	6050	Trace
1	0.004	1	0.002*
2	0.010	2	0.042
3	0.036	3	Trace
4	0.002*	4	Trace
5	0.002*	5	0.016
6	0.004	6	0.002*
7	Trace	7	0.020
8	0.002*	8	0.002*
9	0.002*	9	0.002*
6030	Trace	6060	0.002

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

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Page 2 of 2

NO. 3703

DATE: November 12, 1987

SAMPLE(S) OF: Core (120)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
6061	Trace	6091	Trace
2	0.002*	2	Trace
3	0.016	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	Trace	7	Trace
8	Trace	8	0.002*
9	0.002*	9	Trace
6070	Trace	6100	Trace
1	Trace	17674	0.024
2	Trace	17681	Trace
3	Trace	2	Trace
4	Trace	3	0.002*
5	Trace	4	0.002*
6	Trace	5	Trace
7	Trace	6	0.010
8	Trace	7	0.052 - 0.052
9	Trace	8	0.002*
6080	Trace	9	Trace
1	Trace	17690	Trace
2	Trace	1	0.018
3	Trace	2	0.012
4	Trace	3	0.002*
5	Trace	4	0.002
6	Trace	5	Trace
7	Trace	6	0.004
8	Trace	7	Trace
9	Trace	8	Trace
6090	Trace	9	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

Page 1 of 2

NO. 3728

DATE: November 16, 1987

SAMPLE(S) OF: Core (141)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
5401	Trace	6235	Trace
6201	0.002*	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace
5	Trace	6240	0.006
6	Trace	1	Trace
7	Trace	2	Trace
8	Trace	3	Trace
9	Trace	4	Trace
6210	Trace	5	Trace
1	Trace	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace
5	Trace	6250	Trace
6	Trace	1	Trace
7	Trace	2	Trace
8	Trace	3	Trace
9	Trace	4	0.002
6220	0.002*	5	Trace
1	Trace	6	0.002*
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace
5	Trace	6260	0.006
6	Trace	1	Trace
7	Trace	2	Trace
8	Trace	3	Trace
9	Trace	4	Trace
6230	Trace	5	Trace
1	Trace	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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Page 2 of 2

NO. 3728

DATE: November 16, 1987

SAMPLE(S) OF: Core (141)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
6270	Trace	6306	Trace
1	Trace	7	Trace
2	0.016	8	Trace
3	0.278**	9	Trace
4	0.004	6310	Trace
5	Trace	1	Trace
6	Trace	2	Trace
7	Trace	3	Trace
8	0.020	4	Trace
9	Trace	5	Trace
6280	Trace	6	Trace
1	0.018	7	Trace
2	0.002*	8	Trace
3	0.004	9	Trace
4	Trace	6320	Trace
5	Trace	1	Trace
6	Trace	2	Trace
7	Trace	3	Trace
8	Trace	4	Trace
9	Trace	5	Trace
6290	Trace	6	Trace
1	Trace	7	Trace
2	Trace	8	0.002
3	Trace	9	Trace
4	Trace	6330	Trace
5	Trace	1	Trace
6	Trace	2	Trace
7	Trace	3	Trace
8	Trace	4	Trace
9	Trace	5	Trace
6300	Trace	6	Trace
1	Trace	7	Trace
2	Trace	8	Trace
3	Trace	9	Trace
4	Trace	6340	Trace
5	Trace		

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NO. 3793

DATE: November 20, 1987

SAMPLE(S) OF: Core (100)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocnaex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Au oz.	Sample No.	Au oz.	Sample No.	Au oz.
5402	Trace	5435	0.002*	5468	Trace
3	Trace	6	0.002*	9	Trace
4	Trace	7	Trace	5470	Trace
5	Trace	8	Trace	1	Trace
6	Trace	9	Trace	2	Trace
7	Trace	5440	0.002*	3	Trace
8	Trace	1	Trace	4	Trace
9	Trace	2	0.002*	5	Trace
5410	Trace	3	Trace	6	Trace
1	Trace	4	Trace	7	Trace
2	Trace	5	Trace	8	Trace
3	Trace	6	Trace	9	0.002*
4	Trace	7	Trace	5480	Trace
5	Trace	8	Trace	1	Trace
6	Trace	9	Trace	2	Trace
7	Trace	5450	Trace	3	0.002*
8	Trace	1	Trace	4	0.002*
9	Trace	2	Trace	5	0.002*
5420	Trace	3	Trace	6	Trace
1	Trace	4	Trace	7	0.002*
2	Trace	5	Trace	8	0.004
3	Trace	6	Trace	9	Trace
4	Trace	7	Trace	5490	0.002*
5	Trace	8	Trace	1	Trace
6	Trace	9	Trace	2	0.004
7	Trace	5460	Trace	3	0.008
8	Trace	1	Trace	4	0.014
9	Trace	2	Trace	5	Trace
5430	Trace	3	Trace	6	0.004
1	Trace	4	Trace	7	Trace
2	Trace	5	Trace	6497	Trace
3	Trace	6	Trace	8	Trace
4	Trace	7	Trace	9	Trace
				6500	Trace

* Estimated

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Page 1 of 2

NO. 3797

DATE: November 23, 1987

SAMPLE(S) OF: Core (156)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Oz. Gold
6341	Trace
2	0.014
3	0.036
4	Trace
5	0.004
6	Trace
7	0.002
8	0.012
9	Trace
6350	Trace
1	0.020
2	0.010
3	0.004
4	0.006
5	0.002
6	Trace
7	Trace
8	Trace
9	Trace
6360	Trace
1	0.002*
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
6370	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace

Sample No.	Oz. Gold
6380	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
6390	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
6400	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
6410	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace

* Estimated

ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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Page 2 of 2

NO. 3797

DATE: November 23, 1987

SAMPLE(S) OF: Core (156)

RECEIVED: November 1987

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

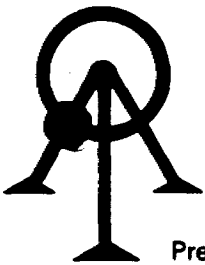
Sample No.	Oz. Gold
6419	Trace
6420	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
6430	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
6440	Trace
1	0.002
2	Trace
3	Trace
4	0.014
5	Trace
6	Trace
7	0.004
8	Trace
9	0.052 - 0.048
6450	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace

Sample No.	Oz. Gold
6458	Trace
9	Trace
6460	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
6470	Trace
1	Trace
2	Trace
3	Trace
4	0.016
5	Trace
6	Trace
7	Trace
8	0.002*
9	Trace
6480	Trace
1	0.020
2	0.002*
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
6490	Trace
6491	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace

* Estimated

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TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

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16876

Mr. H. J. Hodge
Geocanex Ltd.
1003 - 34 King Street East
Toronto, Ontario
M5C-1E5

Date: January 15 19 88

Work Order # : P870386
Project : Kasagamini

Accurassay	SAMPLE NUMBERS Customer	Gold Oz/T	
415966	4001	<0.002	
415967	4002	<0.002	
415968	4003	<0.002	
415969	4004	<0.002	
415970	4005	<0.002	
415971	4006	<0.002	
415972	4007	<0.002	
415973	4008	<0.002	
415974	4009	<0.002	
415975	4010	<0.002	
415975	4010	<0.002	Check
415976	4011	<0.002	
415977	4012	<0.002	
415978	4013	<0.002	
415979	4014	<0.002	
415980	4015	<0.002	
415981	4016	<0.002	
415982	4017	<0.002	
415983	4018	<0.002	
415984	4019	<0.002	
415984	4019	<0.002	Check
415985	4020	<0.002	
415986	4021	<0.002	
415987	4022	<0.002	
415988	4023	<0.002	
415989	4024	<0.002	
415990	4025	<0.002	
415991	4026	<0.002	
415992	4027	<0.002	
415993	4028	<0.002	
415993	4028	<0.002	Check

Per: _____

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President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

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Mr. H.J. Hodge
Geocanex Ltd.
1003 - 34 King Street East
Toronto, Ontario
M5C-1E5

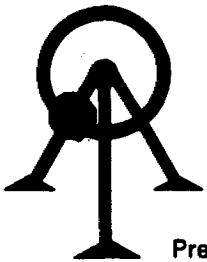
Date: January 15 19 88

Work Order # : P670386
Project : Kasagaminis

SAMPLE NUMBERS	Customer	Gold	
Accurassay		Gz/T	
415994	4029	<0.002	
415995	4030	<0.002	
415996	4031	<0.002	
415997	4032	<0.002	
415998	4033	<0.002	
415999	4034	<0.002	
416000	4035	<0.002	
416001	4036	<0.002	
416002	4037	<0.002	
416002	4037	<0.002	Check
416003	4038	<0.002	
416004	4039	<0.002	
416005	4040	<0.002	
416006	4041	<0.002	
416007	4042	<0.002	
416008	4043	<0.002	
416009	4044	<0.002	
416010	4045	<0.002	
416011	4046	<0.002	
416011	4046	<0.002	Check
416012	4047	<0.002	
416013	4048	<0.002	
416014	4049	<0.002	
416015	4050	<0.002	
416016	4051	<0.002	
416017	4052	<0.002	
416018	4053	<0.002	
416019	4054	<0.002	
416020	4055	<0.002	
416020	4055	<0.002	Check
416021	4056	<0.002	

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President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

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16878

Mr. H.J. Hodge
Geocanex Ltd.
1003 - 84 King Street East
Toronto, Ontario
M5C-1E5

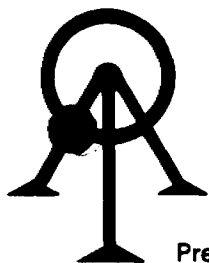
Date: January 15 19 88

Work Order # : F370336
Project : Kasagaminia

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
416022	4057	40.002	
416023	4058	40.002	
416024	4059	40.002	
416025	4060	40.002	
416026	4061	40.002	
416027	4062	0.095	
416028	4063	0.166	
416029	4064	0.051	
416029	4064	0.049	Check
416030	4065	0.014	
416031	4066	0.008	
416032	4067	0.017	
416033	4068	40.002	
416034	4069	40.002	
416035	4070	40.002	
416036	4071	40.002	
416037	4072	40.002	
416038	4073	40.002	
416038	4073	40.002	Check
416039	4074	0.003	
416040	4075	40.002	
416041	4076	0.002	
416042	4077	40.002	
416043	4078	40.002	
416044	4079	40.002	
416045	4080	40.002	
416046	4081	40.002	
416047	4082	40.002	
416047	4082	40.002	Check
416048	4083	40.002	
416049	4084	0.002	

Per: _____

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16879

Mr. H. J. Hodge
Geocanex Ltd.
1003 - 34 King Street East
Toronto, Ontario
M5C-1R5

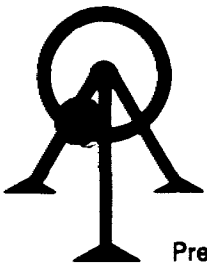
Date: January 15 19 88

Work Order # : P870386
Project : Kasagaminis

Accurassay	SAMPLE NUMBERS Customer	Gold Gz/T	
416050	4085	<0.002	
416051	4086	<0.002	
416052	4087	<0.002	
416053	4088	<0.002	
416054	4089	<0.002	
416055	4090	<0.002	
416056	4091	<0.002	
416056	4091	<0.002	Check
416057	4092	<0.002	
416058	4093	<0.002	
416059	4094	<0.002	
416060	4095	<0.002	
416061	4096	<0.002	
416062	4097	<0.002	
416063	4098	<0.002	
416064	4099	<0.002	
416065	4100	<0.002	
416065	4100	<0.002	Check
416066	4101	<0.002	
416067	4102	<0.002	
416068	4103	<0.002	
416069	4104	<0.002	
416070	4105	<0.002	
416071	4106	<0.002	
416072	4107	<0.002	
416073	4108	<0.002	
416074	4109	<0.002	
416074	4109	<0.002	Check
416075	4110	<0.002	
416076	4111	<0.002	
416077	4112	<0.002	

Per: _____

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16880

Mr. H.J. Hodge
Geonorex Ltd.
1003 - 34 King Street East
Toronto, Ontario
M5C-1E5

Date: January 15 19 88

Work Order # : F370386
Project : Kasagaminis

Accurassay	SAMPLE NUMBERS	Customer	Gold	Oz/T
416078		4113	<0.002	
416078		4113	<0.002	Check

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President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

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17118 ATT: Mr. H. J. Hodge
Geocanex Ltd.
1003, 34 King Street East
Toronto, Ontario
M5L 1E5

Page #1

Date: 01/22/88 19

Work Order P870386
Project: Kasagaminis
R E A S S A Y

Assay results are as follows:

SAMPLE NUMBER		Original Gold Oz/T	Check Oz/T
Accurassay	Customer		
416027	4062	0.095	0.121
416028	4063	0.166	0.185
416029	4064	0.051	0.041

Per: _____

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Page 1 of 3

NO. 0240

DATE: January 20, 1988

SAMPLE(S) OF: Core (166)

RECEIVED: January 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

"Geocanex Kasagiminnis Project"

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4114	Trace	4142	Trace
5	Trace	3	Trace
6	Trace	4	Trace
7	Trace	5	Trace
8	Trace	6	Trace
9	Trace	7	Trace
4120	Trace	8	0.002*
1	Trace	9	Trace
2	Trace	4150	Trace
3	Trace	1	Trace
4	Trace	2	0.002*
5	Trace	3	0.002*
6	Trace	4	0.016
7	Trace	5	Trace
8	Trace	6	Trace
9	Trace	7	Trace
4130	0.002*	8	0.002*
1	Trace	9	Trace
2	Trace	4160	Trace
3	Trace	1	Trace
4	Trace	2	Trace
5	Trace	3	Trace
6	Trace	4	Trace
7	Trace	5	Trace
8	Trace	6	0.026
9	Trace	7	0.060 - 0.052
4140	Trace	8	0.004
1	Trace	9	Trace

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE, GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

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HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

Page 2 of 2

NO. 0240

DATE: January 20, 1988

SAMPLE(S) OF: Core (166)

RECEIVED: January 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

"Geocanex Kasagiminnis Project"

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4170	Trace	4198	Trace
1	Trace	9	Trace
2	Trace	4200	Trace
3	0.008	1	Trace
4	Trace	2	Trace
5	Trace	3	Trace
6	Trace	4	Trace
7	Trace	5	Trace
8	Trace	6	Trace
9	Trace	7	Trace
4180	Trace	8	Trace
1	Trace	9	Trace
2	Trace	4210	0.002*
3	Trace	1	0.044
4	Trace	2	Trace
5	Trace	3	Trace
6	Trace	4	Trace
7	Trace	5	Trace
8	Trace	6	Trace
9	Trace	7	Trace
4190	Trace	8	Trace
1	Trace	9	Trace
2	Trace	4220	Trace
3	Trace	1	Trace
4	Trace	2	Trace
5	Trace	3	Trace
6	Trace	4	Trace
7	Trace	5	Trace

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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NO. 0240

DATE: January 20, 1988

SAMPLE(S) OF: Core (166)

RECEIVED: January 1988

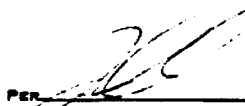
SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

"Geocanex Kasagiminnis Project"

Sample No.	Oz. Gold	Sample No.	Oz. Gold
4226	Trace	4253	Trace
7	Trace	4	Trace
8	Trace	5	0.160 - 0.172
9	Trace	6	0.026
4230	Trace	7	0.106 - 0.114
1	Trace	8	0.044
2	Trace	9	0.002*
3	Trace	4260	0.002*
4	Trace	1	Trace
5	Trace	2	0.080 - 0.084
6	Trace	3	0.160 - 0.160
7	Trace	4	0.076 - 0.082
8	Trace	5	0.008
9	Trace	6	Trace
4240	Trace	7	0.002*
1	Trace	8	Trace
2	Trace	9	Trace
3	Trace	4270	Trace
4	Trace	1	Trace
5	Trace	2	Trace
6	Trace	3	Trace
7	Trace	4	Trace
8	Trace	5	Trace
9	0.016	6	Trace
4250	0.002*	7	Trace
1	0.028	8	Trace
2	Trace	9	Trace

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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NO. 0295

DATE: February 1, 1988

SAMPLE(S) OF: Core (160)

RECEIVED: January 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4280	Trace	4307	Trace
1	Trace	8	Trace
2	Trace	9	Trace
3	Trace	4310	Trace
4	Trace	1	Trace
5	Trace	2	Trace
6	Trace	3	Trace
7	Trace	4	Trace
8	Trace	5	0.002*
9	0.002*	6	Trace
4290	Trace	7	Trace
1	Trace	8	Trace
2	Trace	9	Trace
3	Trace	4320	Trace
4	Trace	1	Trace
5	0.002*	2	Trace
6	Trace	3	Trace
7	Trace	4	Trace
8	Trace	5	Trace
9	Trace	6	Trace
4300	Trace	7	Trace
1	Trace	8	Trace
2	Trace	9	Trace
3	Trace	4330	Trace
4	Trace	1	Trace
5	Trace	2	Trace
6	Trace	3	Trace

*Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

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NO. 0295

DATE: February 1, 1988

SAMPLE(S) OF: Core (160)

RECEIVED: January 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4334	Trace	4361	0.022
5	Trace	2	0.268 - 0.286
6	Trace	3	0.106 - 0.108
7	Trace	4	0.100 - 0.098
8	Trace	5	0.002*
9	Trace	6	0.056 - 0.062
4340	Trace	7	Trace
1	Trace	8	Trace
2	Trace	9	Trace
3	Trace	4370	Trace
4	Trace	1	Trace
5	Trace	2	Trace
6	Trace	3	Trace
7	Trace	4	Trace
8	Trace	5	Trace
9	Trace	6	Trace
4350	Trace	7	Trace
1	Trace	8	Trace
2	Trace	9	Trace
3	Trace	4380	Trace
4	0.012	1	Trace
5	0.030	2	Trace
6	0.064 - 0.056	3	Trace
7	0.006	4	Trace
8	0.004	5	Trace
9	Trace	6	Trace
4360	Trace	7	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

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NO. 0295

DATE: February 1, 1988

SAMPLE(S) OF: Core (160)

RECEIVED: January 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4388	Trace	4414	Trace
9	Trace	5	Trace
4390	Trace	6	Trace
1	Trace	7	Trace
2	Trace	8	Trace
3	Trace	9	Trace
4	Trace	4420	Trace
5	Trace	1	Trace
6	Trace	2	Trace
7	Trace	3	Trace
8	Trace	4	Trace
9	Trace	5	Trace
4400	Trace	6	Trace
1	Trace	7	Trace
2	Trace	8	Trace
3	Trace	9	Trace
4	Trace	4430	Trace
5	Trace	1	Trace
6	Trace	2	Trace
7	Trace	3	Trace
8	Trace	4	Trace
9	Trace	5	Trace
4410	Trace	6	Trace
1	Trace	7	Trace
2	Trace	8	Trace
3	Trace	9	Trace

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

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NO. 0324

DATE: February 3, 1988

SAMPLE(S) OF: Core (200)

RECEIVED: February 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No. Oz. Gold

Sample No. Oz. Gold

4440 Trace
 1 Trace
 2 Trace
 3 Trace
 4 Trace
 5 Trace
 6 0.002*
 7 0.002*
 8 Trace
 9 0.002*
 4450 Trace
 1 Trace
 2 Trace
 3 Trace
 4 Trace
 5 Trace
 6 Trace
 7 Trace
 8 Trace
 9 Trace
 4460 Trace
 1 Trace
 2 Trace
 3 Trace
 4 Trace
 5 Trace
 6 Trace
 7 0.002*
 8 Trace
 9 Trace
 4470 Trace
 1 Trace
 2 Trace

4473 Trace
 4 Trace
 5 Trace
 6 Trace
 7 Trace
 8 Trace
 9 Trace
 4480 Trace
 1 Trace
 2 Trace
 3 Trace
 4 Trace
 5 Trace
 6 Trace
 7 0.014
 8 Trace
 9 Trace
 4490 Trace
 1 0.062 - 0.062
 2 0.088 - 0.088
 3 Trace
 4 0.002
 5 Trace
 6 Trace
 7 0.070 - 0.066
 8 Trace
 9 Trace
 4500 0.036
 1 0.010
 2 Trace
 3 Trace
 4 Trace
 5 Trace

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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NO. 0324

DATE: February 3, 1988

SAMPLE(S) OF: Core (200)

RECEIVED: February 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4506	Trace	4539	Trace
7	Trace	4540	Trace
8	Trace	1	Trace
9	Trace	2	Trace
4510	Trace	3	Trace
1	Trace	4	Trace
2	Trace	5	Trace
3	Trace	6	Trace
4	Trace	7	Trace
5	Trace	8	Trace
6	Trace	9	Trace
7	Trace	4550	Trace
8	Trace	1	Trace
9	Trace	2	Trace
4520	Trace	3	Trace
1	Trace	4	Trace
2	Trace	5	Trace
3	Trace	6	Trace
4	Trace	7	Trace
5	Trace	8	Trace
6	Trace	9	Trace
7	Trace	4560	Trace
8	Trace	1	Trace
9	0.004	2	Trace
4530	Trace	3	Trace
1	Trace	4	Trace
2	Trace	5	Trace
3	Trace	6	Trace
4	Trace	7	Trace
5	Trace	8	Trace
6	Trace	9	Trace
7	Trace	4570	Trace
8	Trace	1	Trace

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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NO. 0324

DATE: February 3, 1988

SAMPLE(S) OF: Core (200)

RECEIVED: February 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Oz. Gold	Sample No.	Oz. Gold
4572	Trace	4606	Trace
3	Trace	7	Trace
4	Trace	8	Trace
5	Trace	9	Trace
6	Trace	4610	Trace
7	0.008	1	Trace
8	Trace	2	Trace
9	Trace	3	0.002*
4580	Trace	4	Trace
1	Trace	5	0.010
2	Trace	6	Trace
3	Trace	7	Trace
4	0.020	8	Trace
5	Trace	9	Trace
6	Trace	4620	Trace
7	Trace	1	Trace
8	Trace	2	Trace
9	Trace	3	Trace
4590	Trace	4	Trace
1	Trace	5	Trace
2	Trace	6	Trace
3	Trace	7	Trace
4	Trace	8	Trace
5	Trace	9	Trace
6	Trace	4630	Trace
7	Trace	1	Trace
8	Trace	2	Trace
9	Trace	3	Trace
4600	Trace	4	Trace
1	Trace	5	Trace
2	0.002*	6	Trace
3	Trace	7	Trace
4	Trace	8	Trace
5	Trace	9	Trace

* Estimated

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NO. 0381

DATE: February 12, 1988

SAMPLE(S) OF: 141(core)

RECEIVED: February 1988

SAMPLE(S) FROM: R. Higginson, Geocanex Ltd.

Project: Kasagiminnis

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4640	0.004	4675	Trace
1	Trace	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace
5	Trace	4680	0.002*
6	Trace	1	Trace
7	Trace	2	Trace
8	Trace	3	Trace
9	Trace	4	Trace
4650	Trace	5	Trace
1	Trace	6	Trace
2	0.006	7	Trace
3	0.002*	8	Trace
4	Trace	9	Trace
5	Trace	4690	Trace
6	Trace	1	Trace
7	Trace	2	Trace
8	Trace	3	Trace
9	Trace	4	Trace
4660	Trace	5	Trace
1	Trace	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace
5	Trace	4700	Trace
6	Trace	1	Trace
7	Trace	2	Trace
8	Trace	3	Trace
9	Trace	4	Trace
4670	Trace	5	0.002*
1	Trace	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace

*Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TEL: 672-3107

Certificate of Analysis

Page 2 of 2

NO. 0381

DATE: February 12, 1988

SAMPLE(S) OF: 141(core)

RECEIVED: February 1988

SAMPLE(S) FROM: R. Higginson, Geocanex Ltd.

Project: Kasagiminnis

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4710	0.090	4745	Trace
1	0.002*	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace
5	Trace	4750	Trace
6	0.004	1	Trace
7	Trace	2	Trace
8	Trace	3	Trace
9	Trace	4	Trace
4720	Trace	5	Trace
1	Trace	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace
5	Trace	4760	Trace
6	Trace	1	Trace
7	Trace	2	Trace
8	Trace	3	Trace
9	Trace	4	Trace
4730	Trace	5	Trace
1	0.002*	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace
5	Trace	4770	Trace
6	Trace	1	Trace
7	0.002*	2	Trace
8	Trace	3	Trace
9	Trace	4	Trace
4740	Trace	5	Trace
1	Trace	6	Trace
2	Trace	7	Trace
3	Trace	8	Trace
4	Trace	9	Trace
		4780	Trace

*Estimated

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TEL: 672-3107

Certificate of Analysis

NO. 0397

DATE: February 15, 1988

SAMPLE(S) OF: Core (44)

RECEIVED: February 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4781	Trace	4803	Trace
2	Trace	4	Trace
3	Trace	5	Trace
4	Trace	6	Trace
5	0.002*	7	Trace
6	Trace	8	Trace
7	Trace	9	Trace
8	Trace	4810	Trace
9	Trace	1	Trace
4790	Trace	2	Trace
1	Trace	3	Trace
2	Trace	4	0.002*
3	Trace	5	Trace
4	Trace	6	Trace
5	Trace	7	Trace
6	Trace	8	Trace
7	Trace	9	Trace
8	Trace	4820	Trace
9	Trace	1	Trace
4800	Trace	2	Trace
1	Trace	3	Trace
2	Trace	4	0.002*

* Estimated

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Certificate of Analysis

NO. 0390

DATE: February 12, 1988

SAMPLE(S) OF: 22(rock)

RECEIVED: February 1988

SAMPLE(S) FROM: R. Higginson, Geocanex Ltd.

Project: Kasagiminnis

<u>Sample No.</u>	<u>Oz. Gold</u>
4825	Trace
6	Trace
7	0.002*
8	Trace
9	0.006
4830	Trace
1	Trace
2	0.002
3	Trace
4	Trace
5	Trace
6	0.002
7	Trace
8	0.016
9	0.002
4840	0.006
1	Trace
2	0.002*
3	Trace
4	Trace
5	Trace
6	0.002

*Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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Certificate of Analysis

NO. 0420

DATE: February 17, 1988

SAMPLE(S) OF: Core (59)

RECEIVED: February 1988

SAMPLE(S) FROM: Mr. Rob Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Sample No.</u>	<u>Oz. Gold</u>
4847	0.002*	4877	Trace
8	0.382 - 0.378	8	Trace
9	Trace	9	Trace
4850	0.002*	4880	Trace
1	Trace	1	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	Trace	7	Trace
8	Trace	8	Trace
9	Trace	9	Trace
4860	Trace	4890	Trace
1	Trace	1	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	Trace	7	Trace
8	Trace	8	Trace
9	Trace	9	Trace
4870	Trace	4900	Trace
1	Trace	1	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	Trace	4	Trace
5	Trace	5	Trace
6	Trace		

* Estimated

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TEL: 672-3107

Certificate of Analysis

NO. 0417

DATE: February 17, 1988

SAMPLE(S) OF: Core (43)

RECEIVED: February 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

<u>Sample No.</u>	<u>Oz. Gold</u>
4906	Trace
7	Trace
8	Trace
9	Trace
4910	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
4920	Trace
1	Trace
2	Trace
3	Trace
4	Trace
5	0.002*
6	Trace
7	Trace

<u>Sample No.</u>	<u>Oz. Gold</u>
4928	Trace
9	Trace
4930	0.002*
1	0.002*
2	0.002*
3	Trace
4	Trace
5	0.020
6	0.194 - 0.196
7	0.436 - 0.446
8	0.164 - 0.160
9	0.060 - 0.068
4940	0.026
1	0.030
2	0.002*
3	0.014
4	0.068 - 0.062
5	0.040
6	0.068 - 0.064
7	0.010
8	0.002*

* Estimated

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TEL: 672-3107

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NO. 0437

DATE: February 19, 1988

SAMPLE(S) OF: Core (126)

RECEIVED: February 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Oz. Gold	Sample No.	Oz. Gold
4949	Trace	4981	Trace
4950	Trace	2	0.002*
1	Trace	3	Trace
2	Trace	4	Trace
3	Trace	5	Trace
4	Trace	6	0.002*
5	Trace	7	Trace
6	Trace	8	Trace
7	Trace	13701	Trace
8	Trace	2	Trace
9	Trace	3	Trace
4960	Trace	4	Trace
1	Trace	5	Trace
2	Trace	6	Trace
3	Trace	7	Trace
4	Trace	8	Trace
5	Trace	9	Trace
6	Trace	13710	Trace
7	Trace	1	Trace
8	Trace	2	Trace
9	Trace	3	Trace
4970	Trace	4	Trace
1	Trace	5	Trace
2	Trace	6	Trace
3	Trace	7	Trace
4	Trace	8	Trace
5	Trace	9	Trace
6	Trace	13720	Trace
7	Trace	1	Trace
8	Trace	2	Trace
9	Trace	3	Trace
4980	Trace	4	Trace

* Estimated

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

Page 2 of 2

NO. 0437

DATE: February 19, 1988

SAMPLE(S) OF: Core (126)

RECEIVED: February 1988

SAMPLE(S) FROM: Mr. R. Higginson, Geocanex Ltd.

PROJECT: Kasagiminnis Lake

Sample No.	Oz. Gold	Sample No.	Oz. Gold
13725	Trace	13756	Trace
6	Trace	7	Trace
7	Trace	8	Trace
8	Trace	9	Trace
9	Trace	13760	Trace
13730	Trace	1	Trace
1	Trace	2	Trace
2	Trace	3	Trace
3	Trace	4	0.002*
4	Trace	5	Trace
5	Trace	6	Trace
6	Trace	7	Trace
7	Trace	8	Trace
8	Trace	9	Trace
9	Trace	13770	Trace
13740	Trace	1	Trace
1	Trace	2	0.002*
2	Trace	3	0.002*
3	Trace	4	0.030
4	Trace	5	0.232 - 0.248
5	Trace	6	0.026
6	Trace	7	0.032
7	Trace	8	0.002*
8	Trace	9	Trace
9	Trace	13780	0.002*
13750	Trace	1	0.046
1	Trace	2	Trace
2	Trace	3	Trace
3	Trace	4	Trace
4	Trace	5	Trace
5	Trace	6	Trace

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER:



Little OChig Lake
DD #14
2072

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

VOLUME 2

March, 1988

R. Higginson, B.Sc.

APPENDIX E

LEGEND AND DRILL SECTIONS

**LEGEND FOR THE
DIAMOND DRILL HOLE SECTIONS
FOR THE
KASAGIMINNIS LAKE PROPERTY
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
- tour - tourmaline

J. P. Williams

Fig. 5

L30+00W

L28+00W

L26+00W

L24+00W

L22+00W

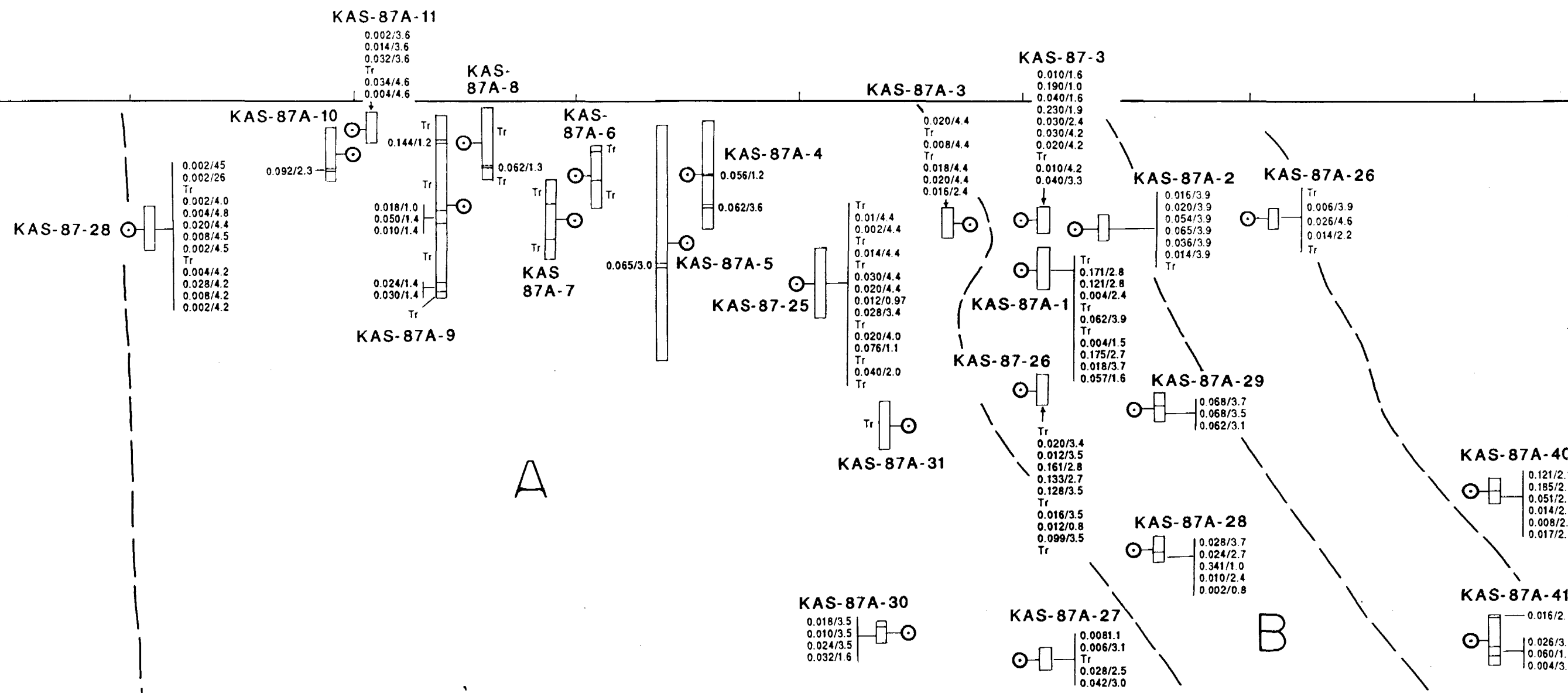
L20+00W

L18+00W

L16+00W

SURFACE

-100'
-200'
-300'
-400'
-500'
-600'



L00

L2+00W

L4+00W

L6+00W

L8+00W

L10+00W

L12+00W

L14+00W

L16+00W

-100'

-200'

-300'

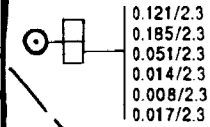
-400'

-500'

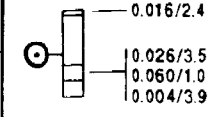
-600'

C

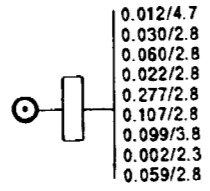
KAS-87A-40



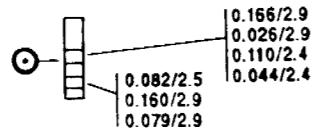
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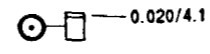
KAS-88-2



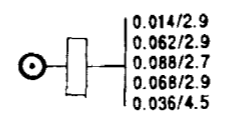
KAS-88-1



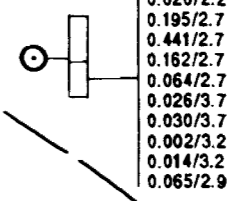
KAS-88-4



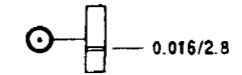
KAS-88-3



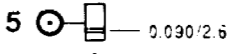
KAS-88-6



KAS-88-5A



KAS-88-5



HOLE LOST IN ZONE

- L2+00E

- L4+00E

- L6+00E

- L8+00E

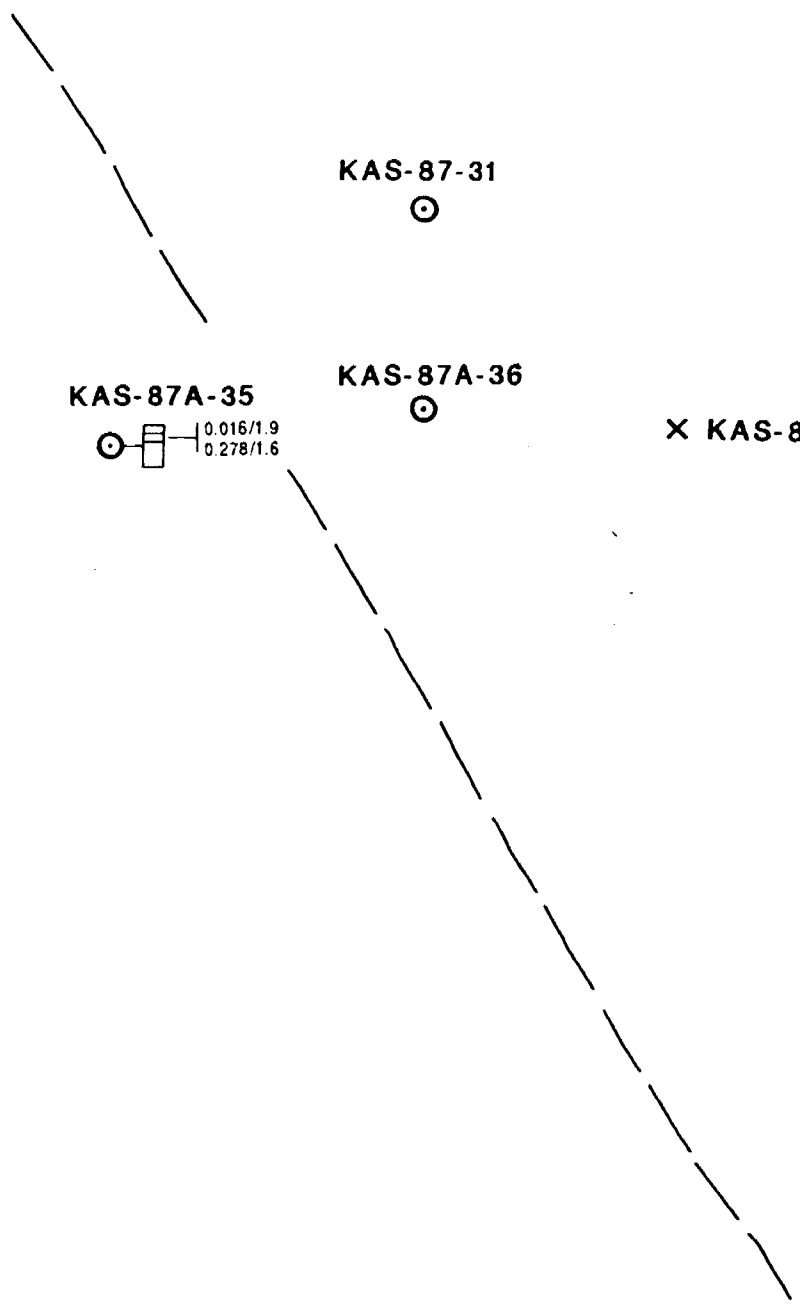
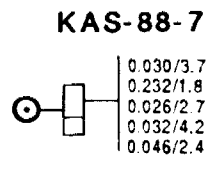
- L10+00E

- L12+00E

- L14+00E

- L16+00E

D



KAS-87-31
○

KAS-87A-35
○

KAS-87A-36
○

X KAS-87A-37

0.016/1.9
0.278/1.6

-100

-200

-300


-400


-500


-600


- L16+00E

LEGEND

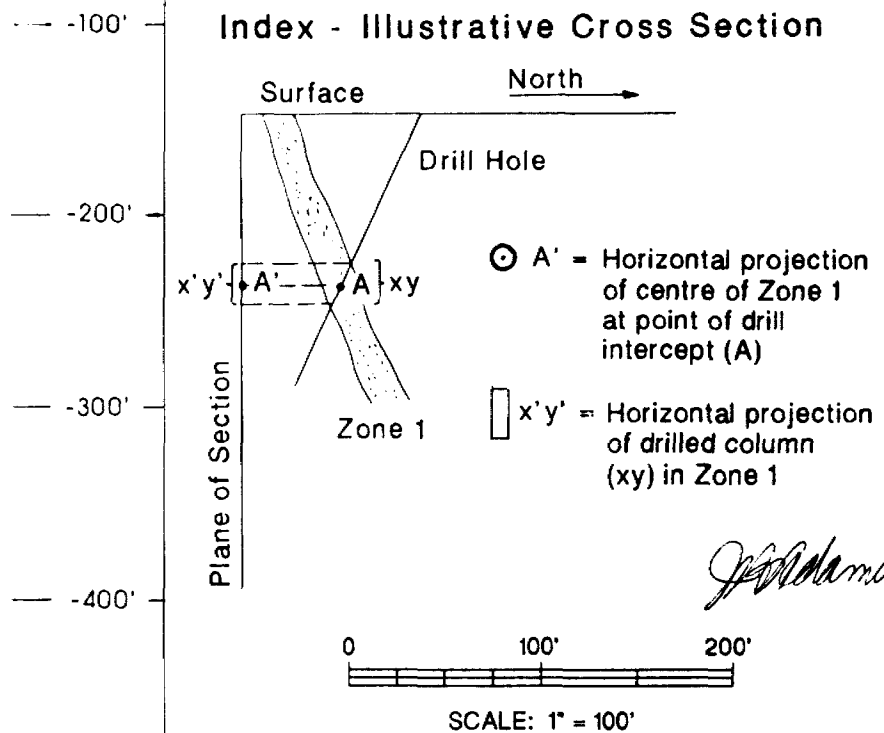
Horizontal projection of pierce point measured at centre of mineralized zone.....  **KAS-87A-10** — 0.065/2.9


Horizontal projection of drilled column in Zone 1 also showing projections of sample intervals and assay values in ounces Au per ton over true width in feet..... 

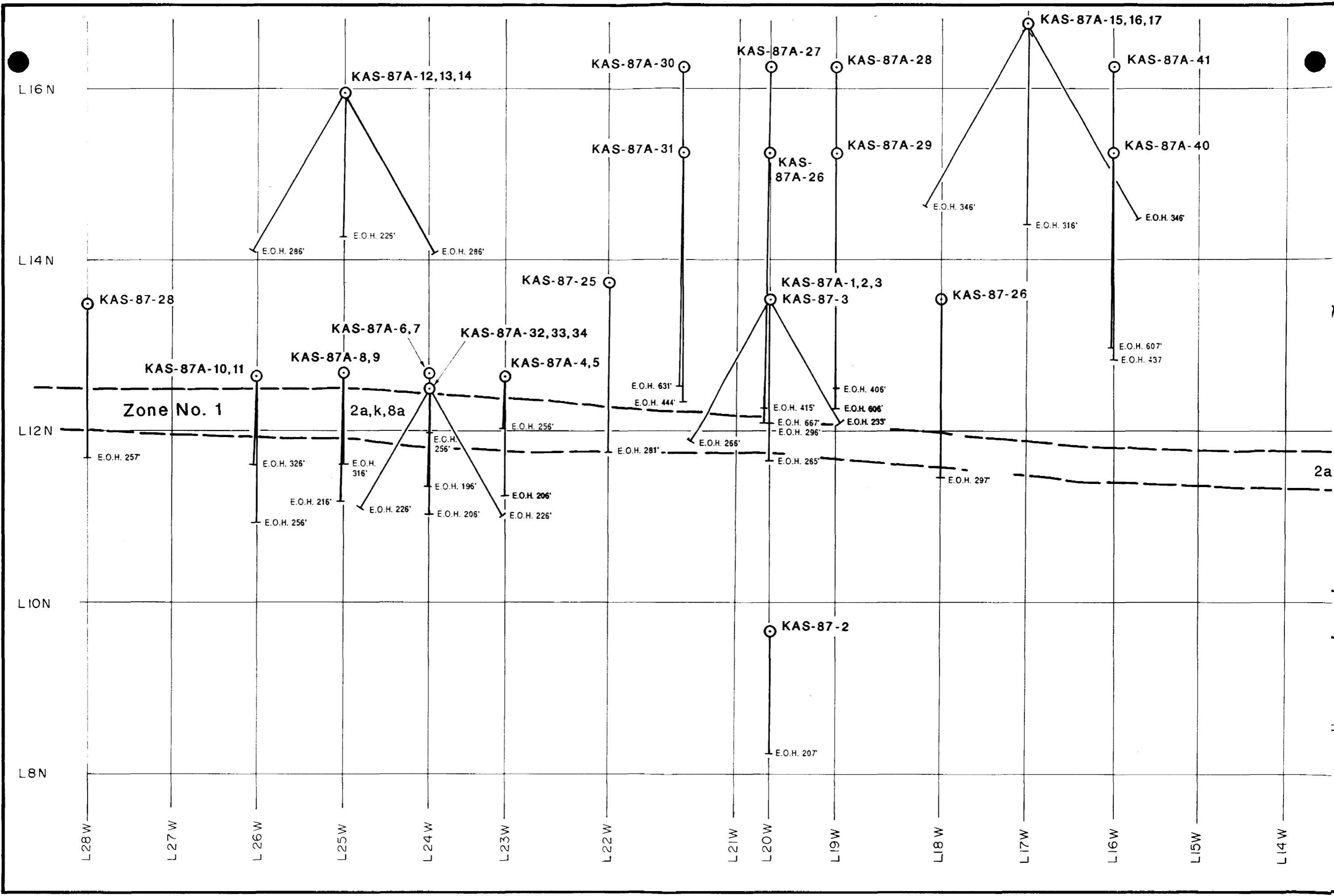
Projection of centre of zone (hole missed mineralization zone)..... 

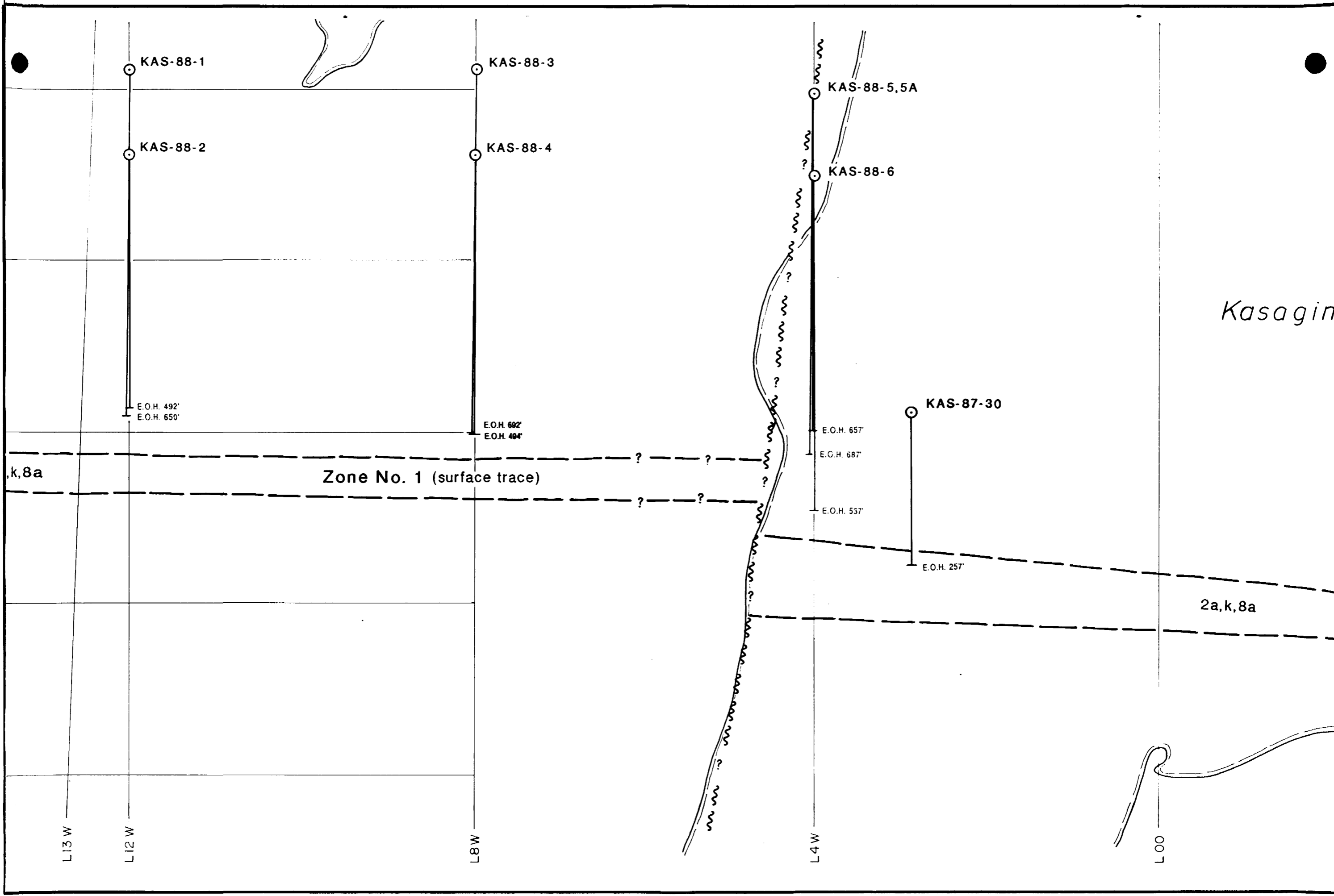
Approximate boundaries of mineralized target areas..... 

Index - Illustrative Cross Section



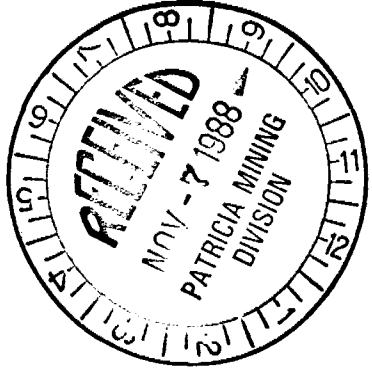
POWER EXPLORATIONS INC.	
KASAGIMMINIS LAKE PROPERTY Patricia M.D., Ontario	
VERTICAL LONG SECTION 12+50 N LOOKING NORTH	
	BY: R.H. / R.T.M.
	DATE: Feb. 1988
	SCALE: 1: 1200
	FIGURE No. 4c
GEOCANEX LTD TORONTO CANADA	





Kasagimminis

Lake



KAS-88-7



E.O.H. 637

Zone No. 1 (surface trace)

2a,k,8a

L4E

L8E

L12E

KAS-87-31

E.O.H. 466'

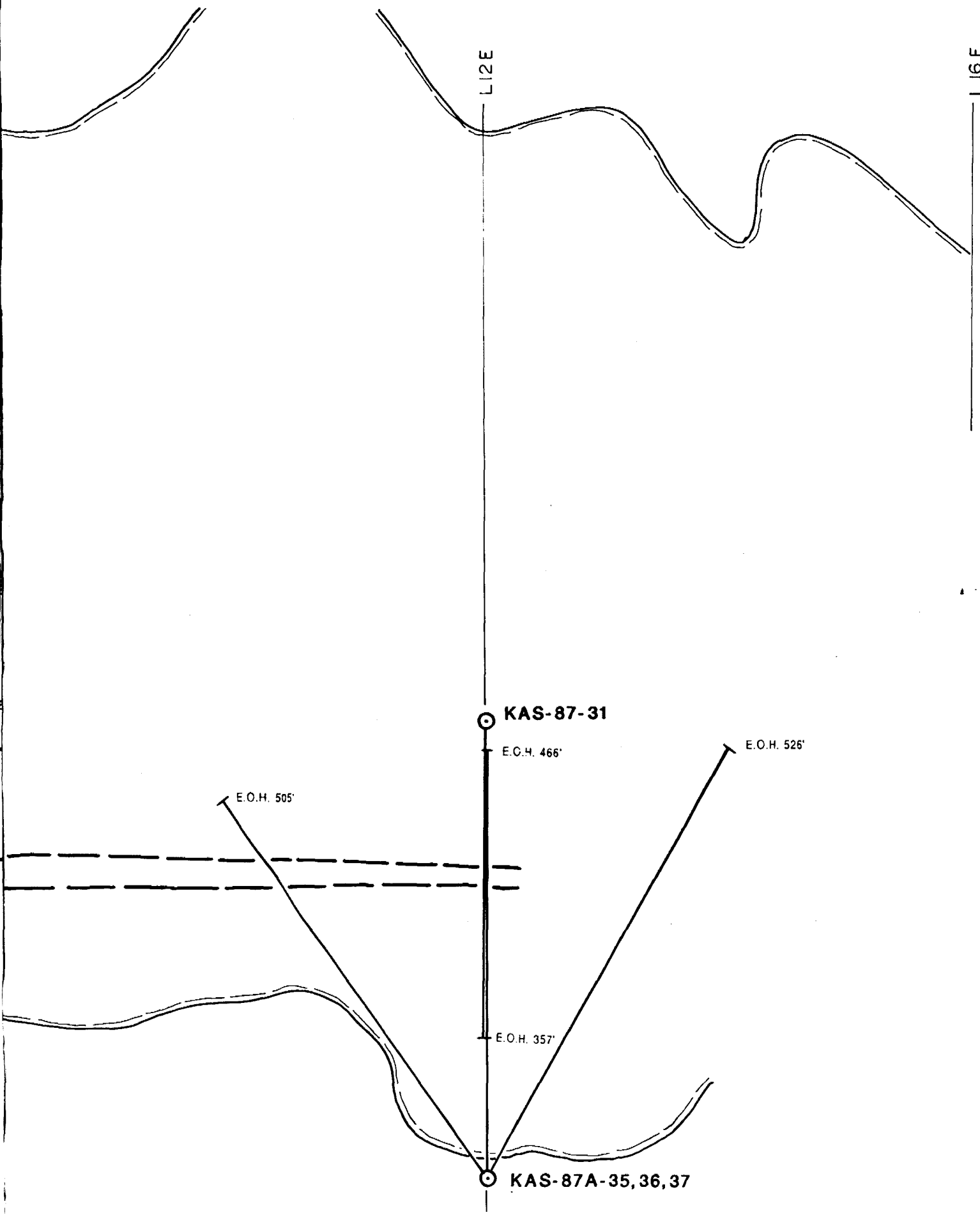
E.O.H. 505'

E.O.H. 526'

E.O.H. 357'


KAS-87A-35,36,37





LEGEND

Surface projection of diamond drill hole.....

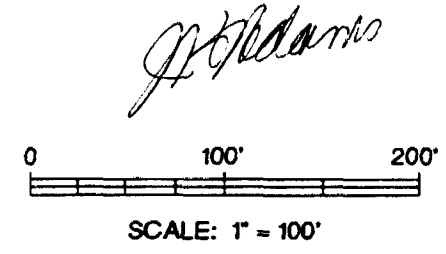
KAS-87-28

 E.O.H. 226'


Geology

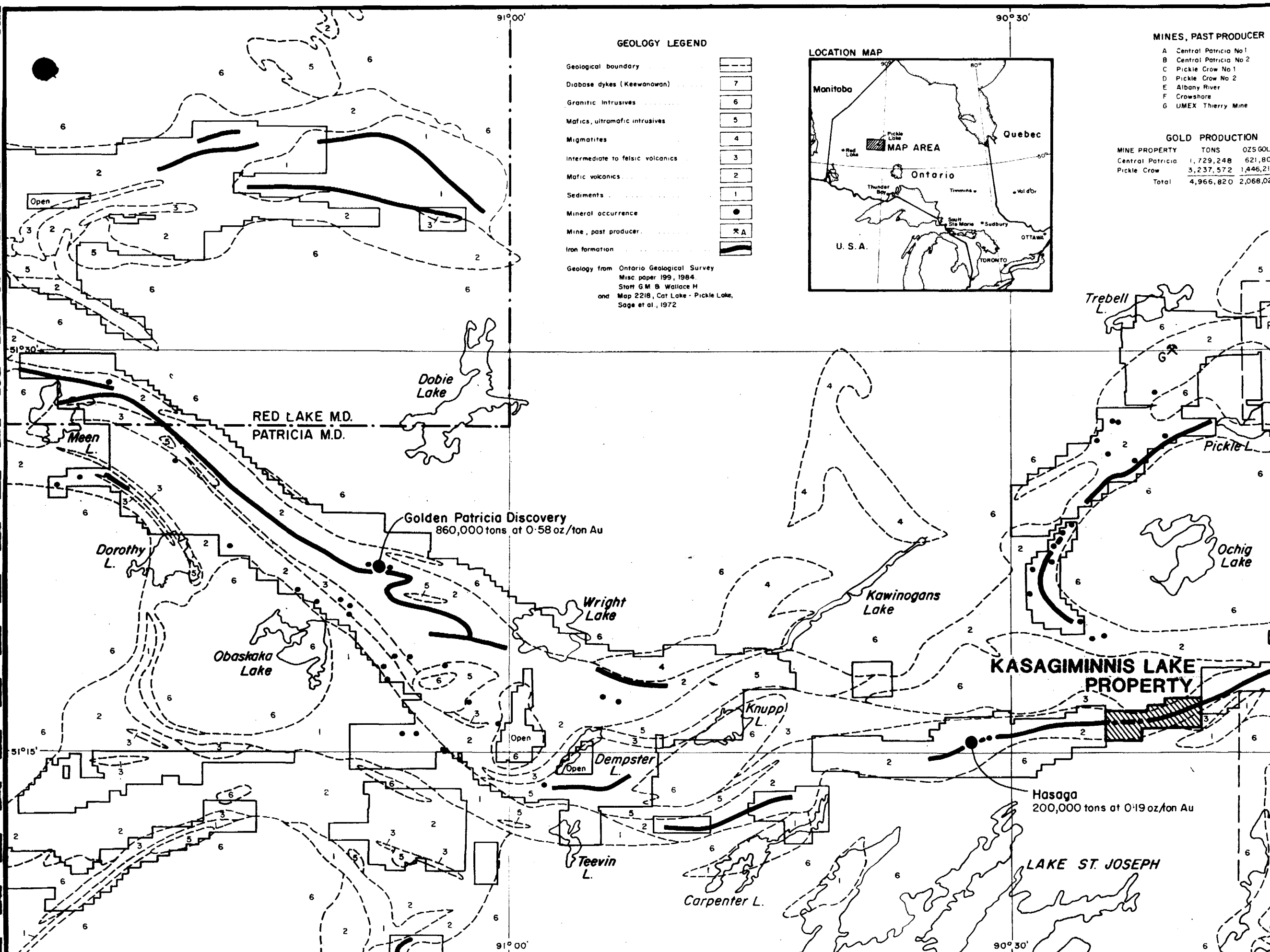
EARLY PRECAMBRIAN

- 8** Iron Formation
 - 8a Oxide facies
 - 8b Carbonate facies
 - 8c Silicate facies
 - 8d Sulphide facies

- 2** Mafic Metavolcanics
 - 2a Massive fine-medium grained flow
 - 2b Amygdaloidal flow
 - 2c Variolitic flow
 - 2d Pillowed flow, pillow breccia
 - 2e Flow breccia
 - 2f Medium-coarse grained flow centres
 - 2g Plagioclase-phyric flow
 - 2h Amphibolite
 - 2i Co-magmatic sills, dikes
 - 2j Pyroclastic breccia, tuff breccia
 - 2k Tuff, lapilli tuff
 - 2l Chlorite ± amphibole schist



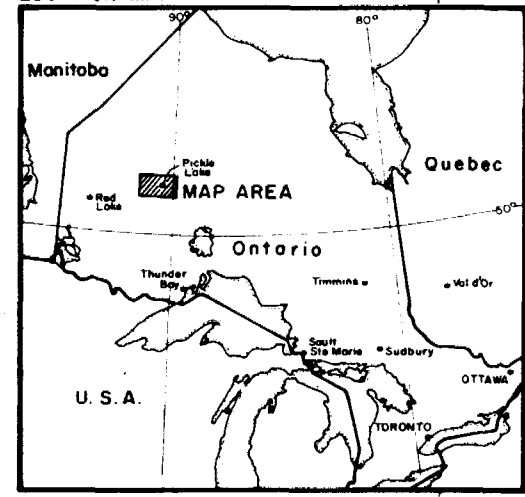
POWER EXPLORATIONS INC.	
KASAGIMMINIS LAKE PROPERTY Patricia M.D., Ontario	
PLAN OF DRILLING Zone No. 1	
 GEOCANEX LTD TORONTO CANADA	BY: R.H./R.T.M. DATE: Feb. 1988 SCALE: 1:1200 FIGURE No. 4J



GEOLOGY LEGEND

- Geological boundary
 - Diabase dykes (Keewawanaw)
 - Granitic intrusives
 - Mafics, ultramafic intrusives
 - Migmatites
 - Intermediate to felsic volcanics
 - Mafic volcanics
 - Sediments
 - Mineral occurrence
 - Mine, past producer
 - Iron formation
- Geology from Ontario Geological Survey
Misc paper 199, 1984.
Staff G.M. Wallace H
and Map 2218, Cat Lake - Pickle Lake,
Sage et al., 1972

LOCATION MAP

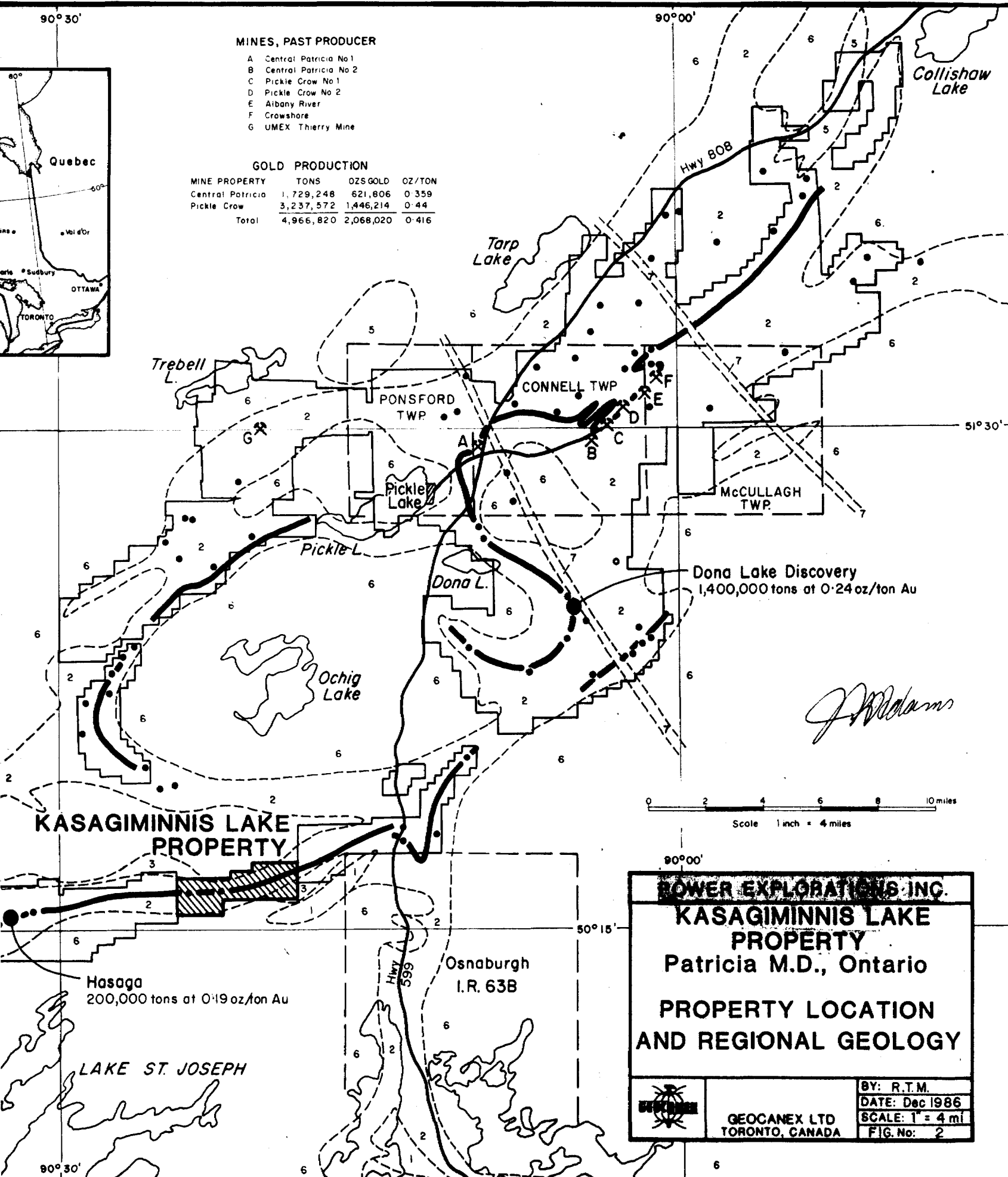


MINES, PAST PRODUCER

- A Central Patricia No 1
- B Central Patricia No 2
- C Pickle Crow No 1
- D Pickle Crow No 2
- E Albany River
- F Crowshore
- G UMEX Thierry Mine

GOLD PRODUCTION

MINE PROPERTY	TONS	OZS GOLD
Central Patricia	1,729,248	621,806
Pickle Crow	3,237,572	1,446,214
Total	4,966,820	2,068,020



MINES, PAST PRODUCER

- A Central Patricia No 1
- B Central Patricia No 2
- C Pickle Crow No 1
- D Pickle Crow No 2
- E Albany River
- F Crowshore
- G UMEX Thierry Mine

GOLD PRODUCTION

MINE PROPERTY	TONS	OZS GOLD	OZ/TON
Central Patricia	1,729,248	621,806	0.359
Pickle Crow	3,237,572	1,446,214	0.44
Total	4,966,820	2,068,020	0.416

POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
 Patricia M.D., Ontario
PROPERTY LOCATION AND REGIONAL GEOLOGY

BY: R.T.M.
 DATE: Dec 1986
 SCALE: 1" = 4 mi
 FIG. No: 2

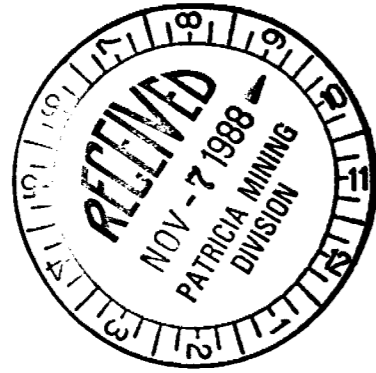
GEOCANEX LTD
 TORONTO, CANADA

Hasaga
200,000 tons at 0.19 oz/ton Au

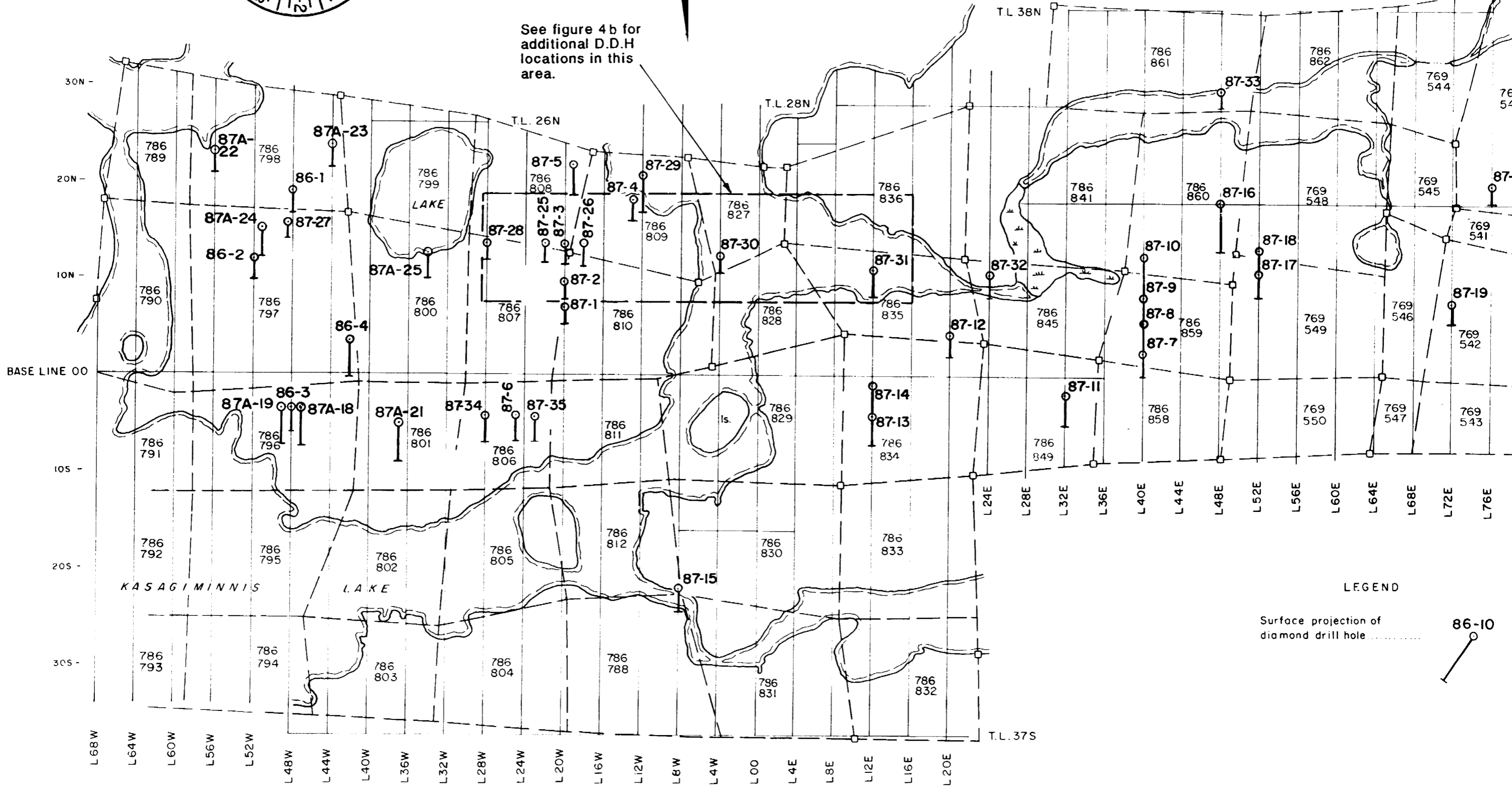
Dona Lake Discovery
1,400,000 tons at 0.24 oz/ton Au

Scale 1 inch = 4 miles

J. Williams

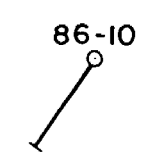


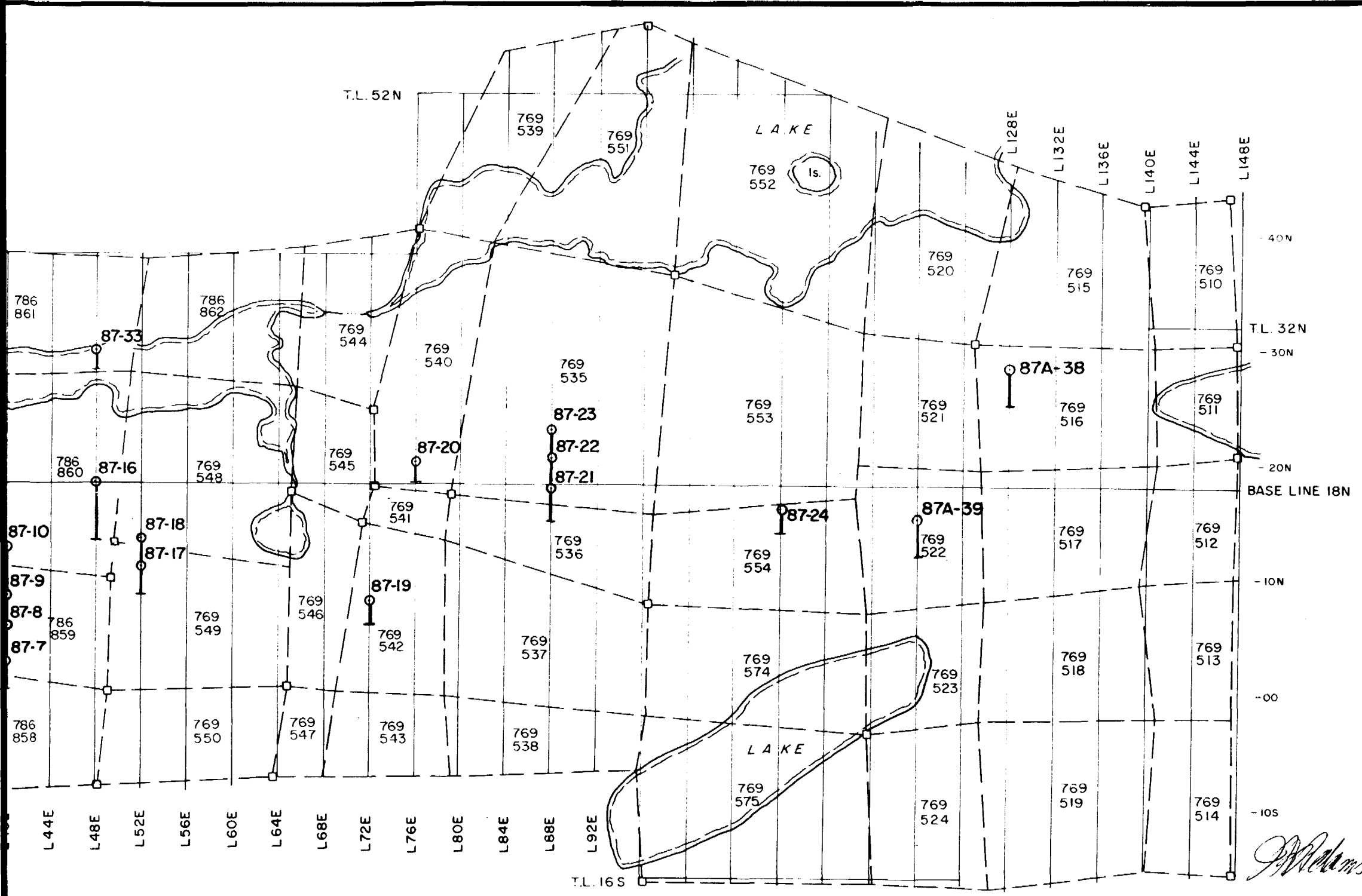
See figure 4b for additional D.D.H locations in this area.



LEGEND

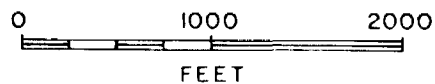
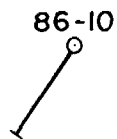
Surface projection of diamond drill hole






LEGEND

Surface projection of
diamond drill hole.....



POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
PLAN OF DRILLING 1986, 1987, 1988	
 GEOCANEX LTD TORONTO, CANADA	BY: /RTM
	DATE: Apr. 1987
	SCALE: 1" = 1700'
	DWG. No. 40



Ministry of Northern Development and Mines

Report of Work Kasagimminis-1

DOCUMENT NO.



520885W0006 14 LITTLE OCHIG LAKE

900

Assess. Library

Amended Mining

Name and Address of Recorded Holder: **Power Explorations Inc.**
 1003-34 King ST. East, Toronto, Ontario M5C 1E5
 Inspector's Licence No.: **T 4642**

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 19,971 (260 requested) 18,096	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
<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	Pa	1008197	20	Pa	1008205	20			
		1008198	20		1008206	20			
		1008199	20		1008207	20			
		1008200	20		1008208	20			
		1008201	20		1008209	20			
		1008202	20						
		1008203	20						
	1008204	20							

All the work was performed on Mining Claim(s): ~~786827 Pa 769512, 769516, 786796, 786797, 786798, 786800, 786828, 786801, 786807, 786808, 786809, 786810, 786835, 786836~~

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below) *Little Ochig Lake G 2104*

Drilling Contractor: **Midwest Drilling, Winnipeg, Manitoba**
 Core Size: **BQ 1 7/16**
 Holes: total of **49** using No. **Kas-88-7**
 Footage: **19,971** using **260** feet
 Geologist In Charge: **Rob A.V. Higginson, Oro, Ontario**
 Dates: **September 2nd to October 28th, 1987**
December 11th to December 17th, 1987
January 7th to February 9th, 1988

Performance Allowed 18,096
 Using 88-285 260
 Bal for future Use 17,836 days

**ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES
 OFFICE
 OCT 24 1989
 RECEIVED**

Resubmitted

Date of Report: **November 3/88**
 Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying:
H.J. Hodge 1003-34 King St. East, Toronto, Ontario M5C 1E5

Date Certified: **Nov. 3/88**
 Certified by (Signature): *[Signature]*

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			
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 surveyer.		



Ministry of Northern Development and Mines

Report of Work

DOCUMENT No. W8803-285 Kasagimimis-Lake

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)".

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 19,971 (260 requests) 4846	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <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	Pa	1008197	20	Pa	1008205	20			
		1008198	20		1008206	20			
		1008199	20		1008207	20			
		1008200	20		1008208	20			
		1008201	20		1008209	20			
		1008202	20						
		1008203	20						
	1008204	20							

All the work was performed on Mining Claim(s):
 786827 Pa 769512, 769516, 786796, 786797, 786798, 786800,
 786828 786801, 786807, 786808, 786809, 786810, 786835, 786836

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below) *Little Ochie Lake G 2104*

Drilling Contractor: **Midwest Drilling, Winnipeg, Manitoba**
 Core Size: **BQ 1 7/16**
 Holes: total of **49** using No. **Kas-88-7**
 Footage: **19,971 4846** using **260 feet** Bal. **4586**
 Geologist In Charge: **Rob A.V. Higgins**
 Dates: **September 2nd to October 28th, 1987**
December 11th to December 17th, 1987
January 7th to February 9th, 1988

RECEIVED
 NOV 3 1988
 PATRICIA MINING DIVISION

Signature: *K. Maycha*

Date of Report: **November 3/88**
 Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

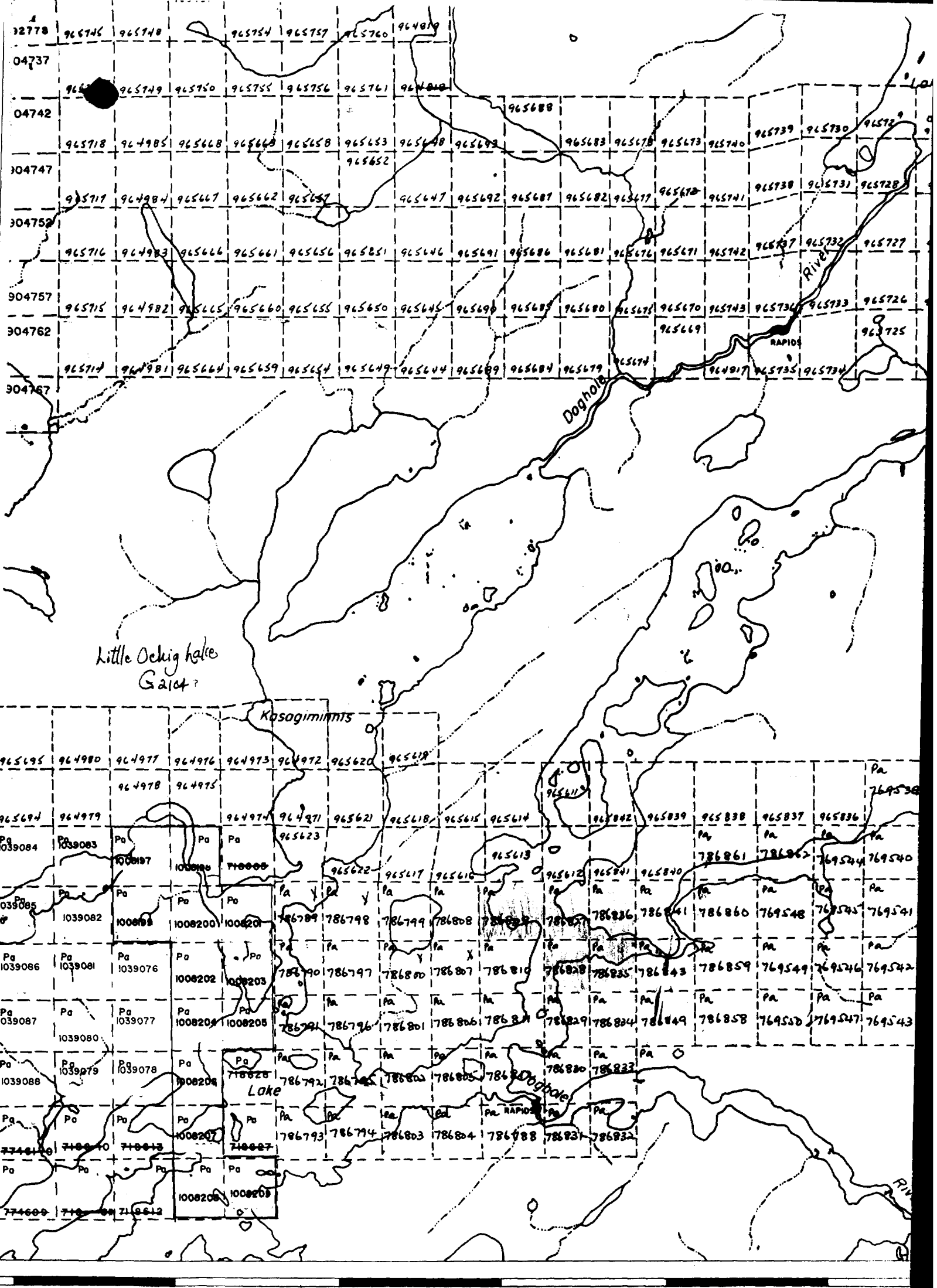
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying:
H.J. Hodge 1003-34 King St. East, Toronto, Ontario M5C 1E5

Date Certified: **Nov. 3/88**
 Certified by (Signature): *[Signature]*

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			
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.	
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	Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.		Nil



Little Ochiig lake
G2104?

Kasogimimnts

Lake

Doghole RIVER

RAPIDS

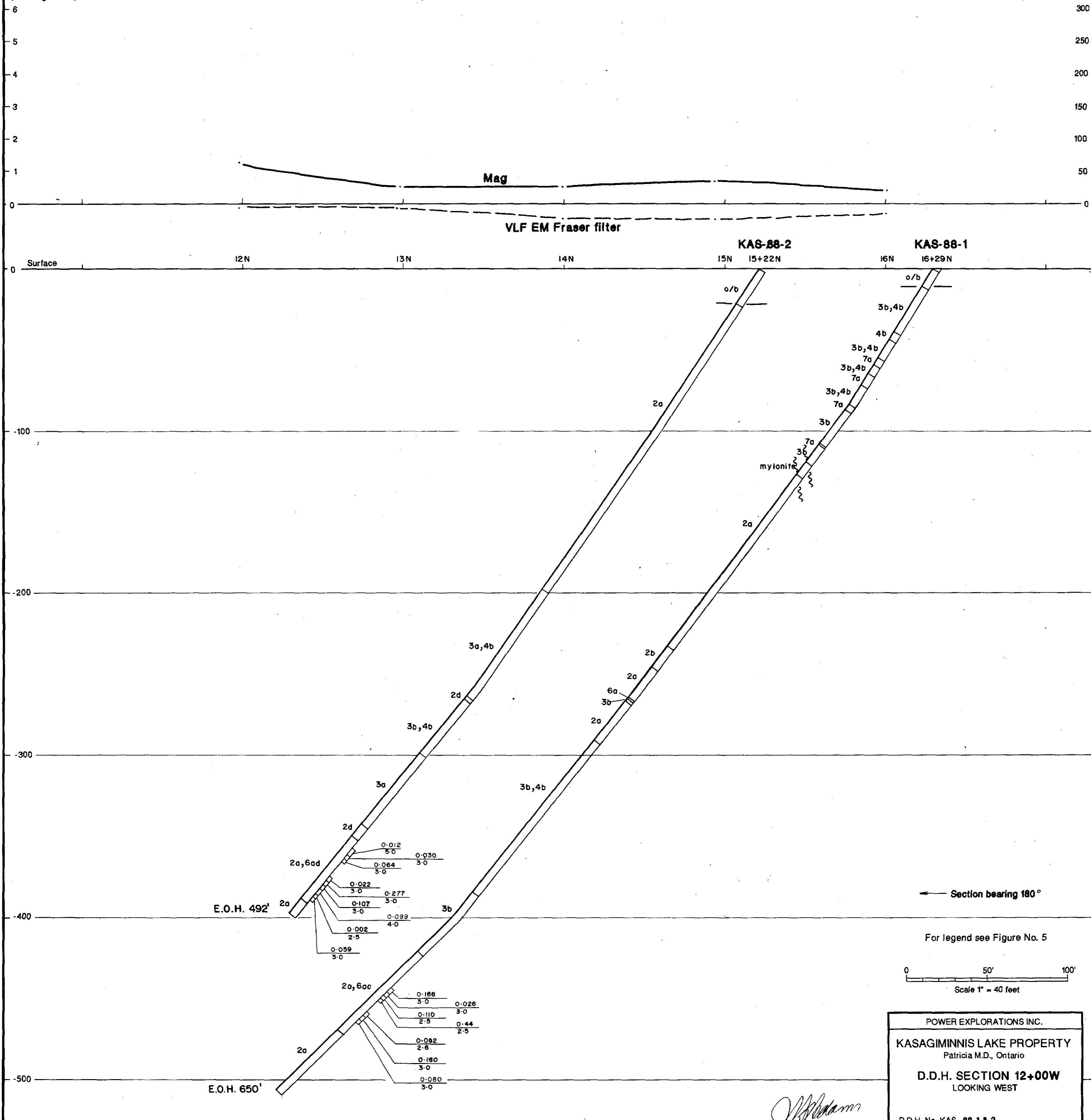
2'

22'

21'

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



Section bearing 180°

For legend see Figure No. 5

0 50' 100'
Scale 1" = 40 feet

POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
D.D.H. SECTION 12+00W
LOOKING WEST

D.D.H. No. KAS- 88-1 & 2

BY: R.H. / R.T.M.
DATE: APRIL, 1988
SCALE: 1:480
FIGURE No. 32

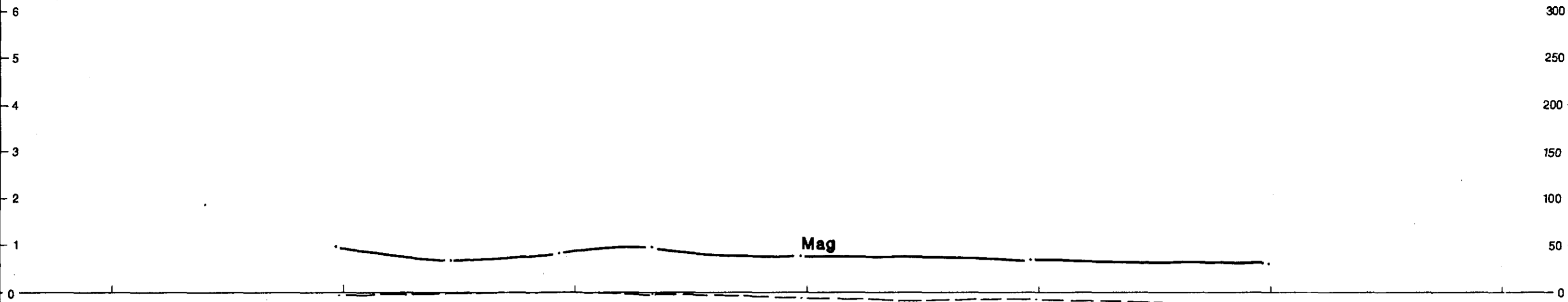
GEOCANEX LTD
TORONTO CANADA



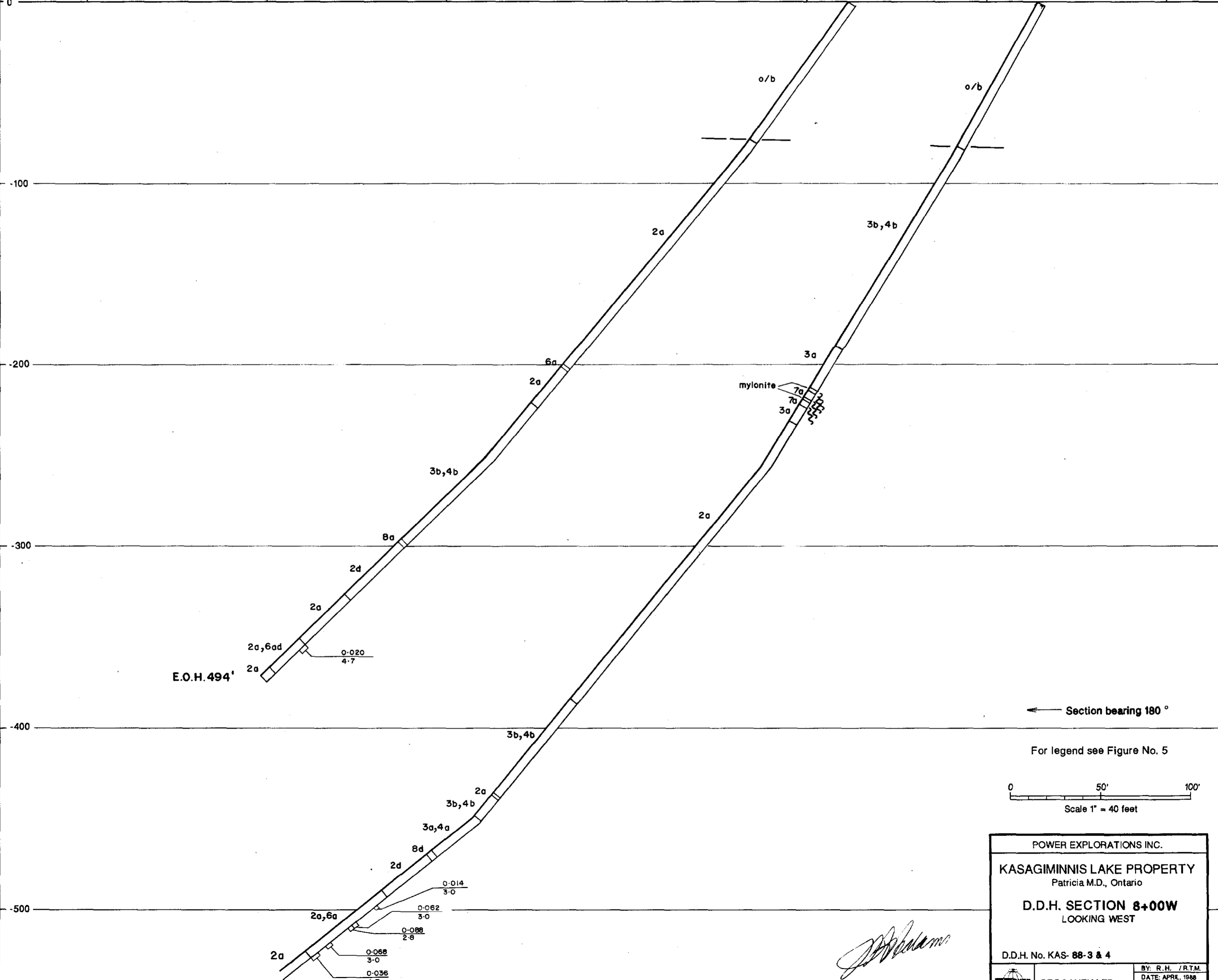
52085W006 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)

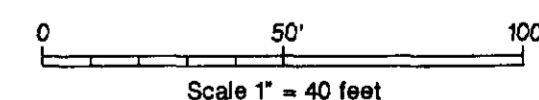


Surface 12N 13N 14N 15N 15+25N 16N 16+28N



Section bearing 180°

For legend see Figure No. 5



POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
D.D.H. SECTION 8+00W
LOOKING WEST

D.D.H. No. KAS- 88- 3 & 4

BY: R.H. /R.T.M.
DATE: APRIL 1988
SCALE: 1" = 40'
FIGURE No. 33

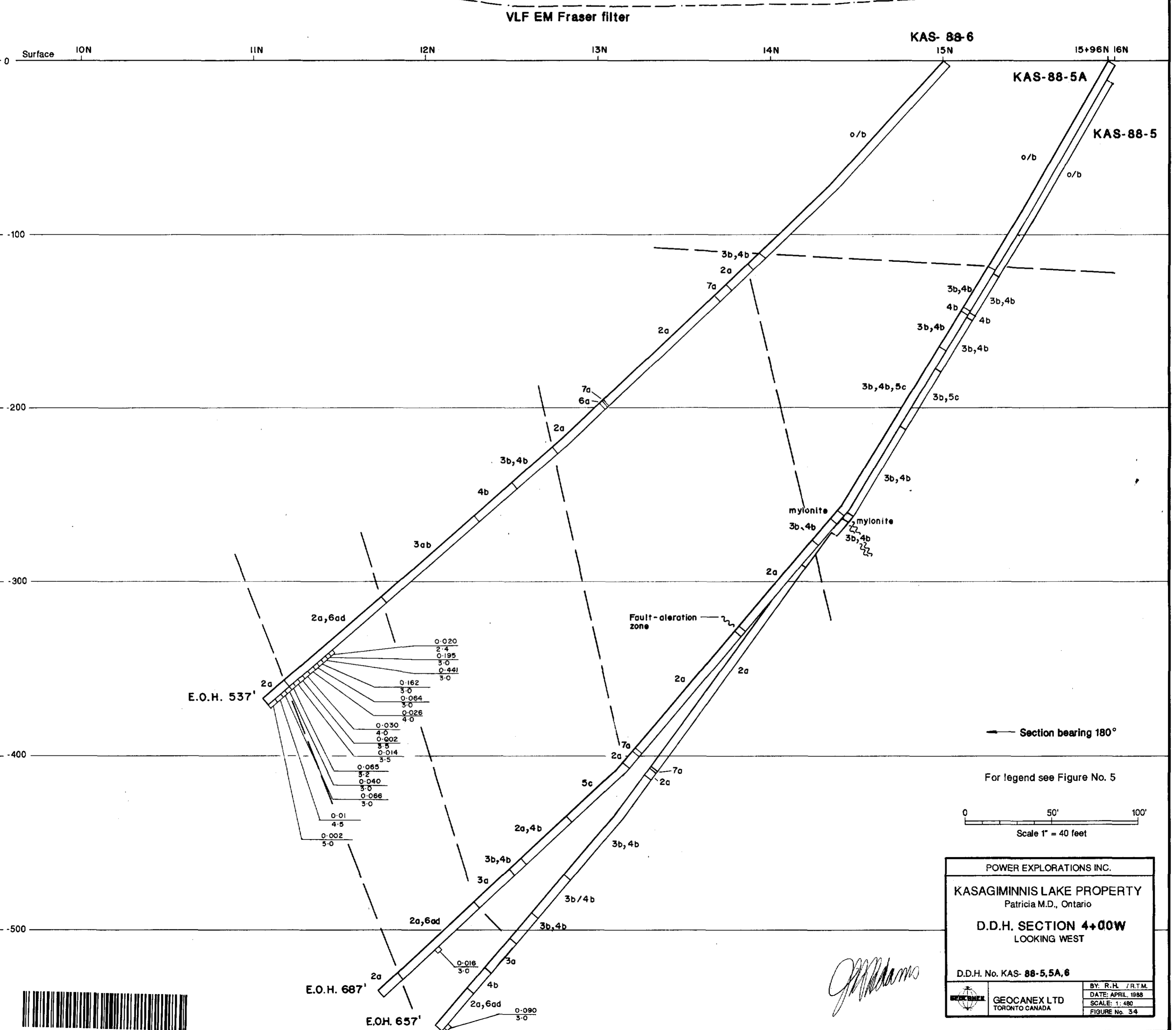
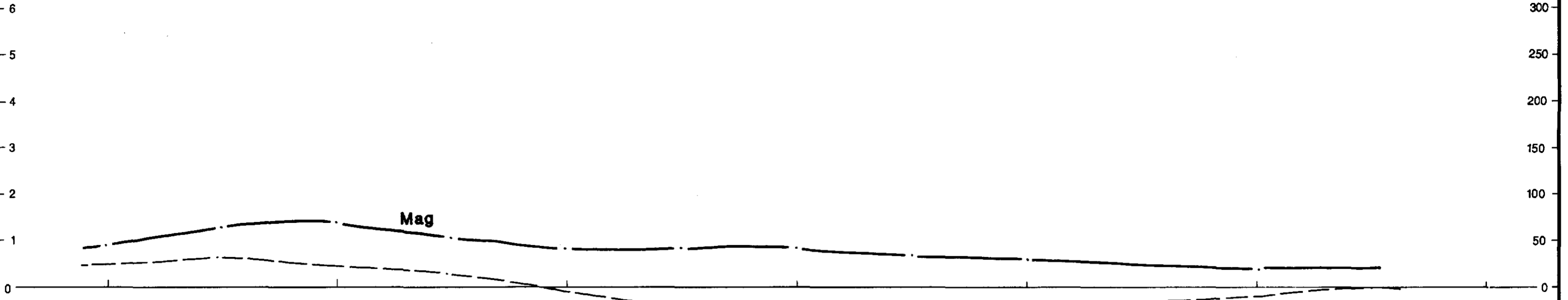
GEOCANEX LTD
TORONTO CANADA



5208550006 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

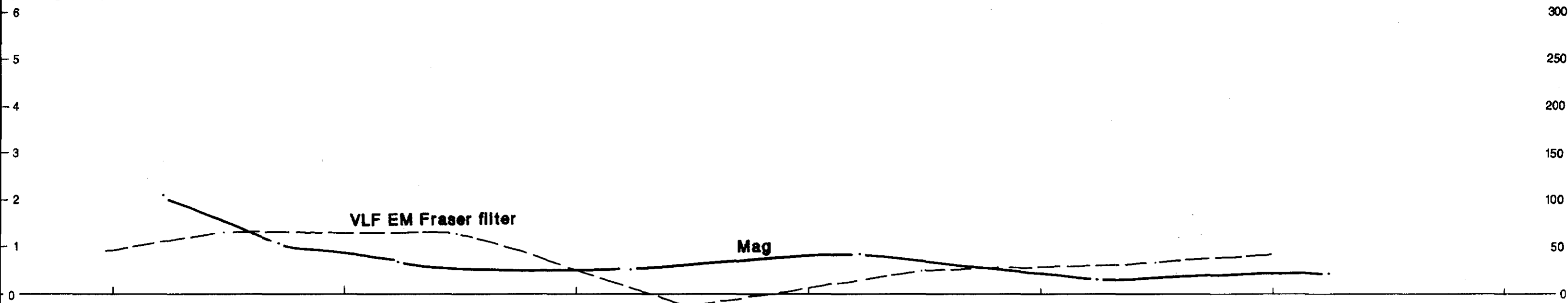
D.D.H. SECTION 4+00W
LOOKING WEST

D.D.H. No. KAS- 88-5,5A,6

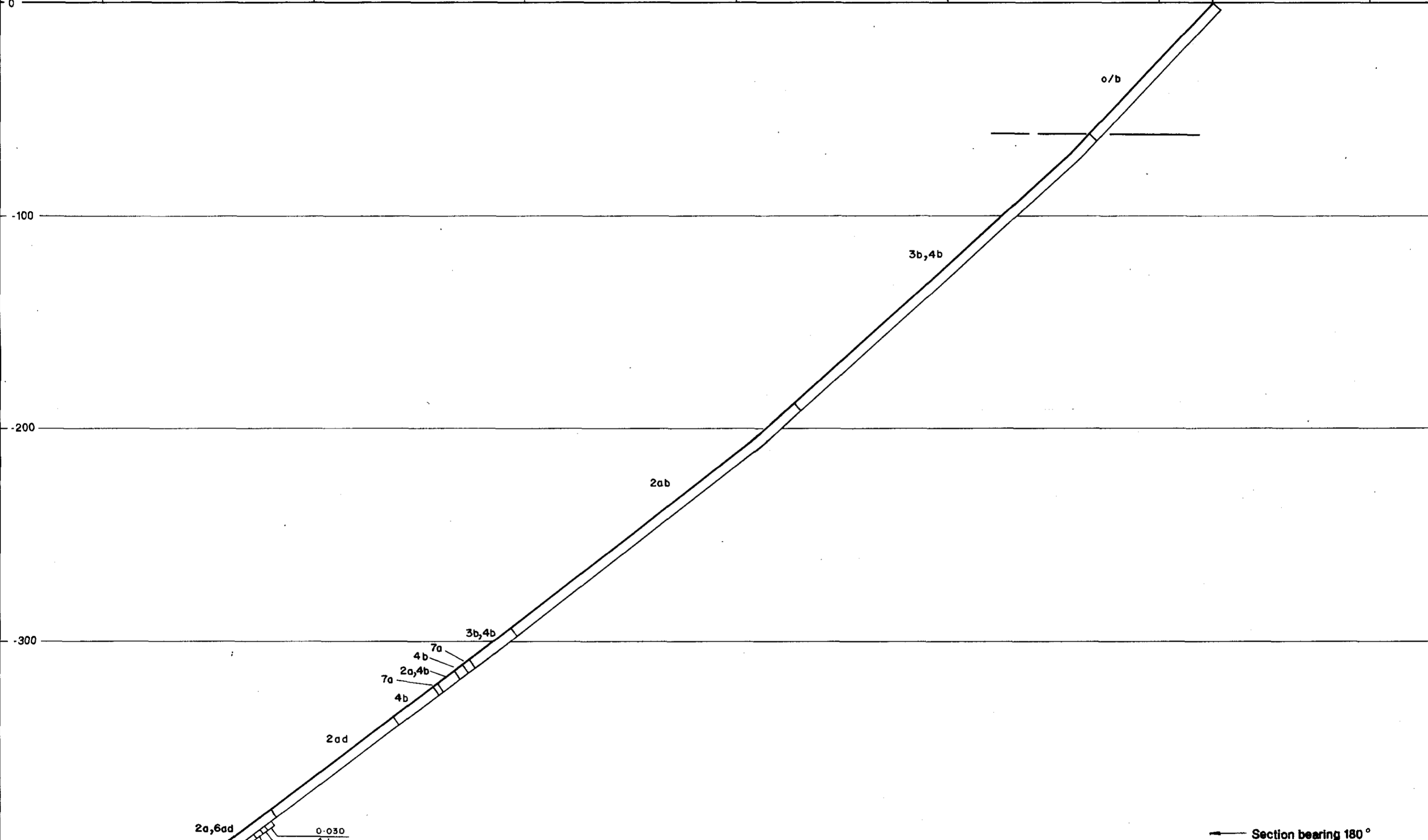
	BY: R.H. /R.T.M.
	DATE: APRIL 1988
	SCALE: 1:480
TORONTO CANADA	
FIGURE No. 34	

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



Surface 10N 11N 12N 13N 14N 15N 15+25N



E.O.H. 637'

0.030
4.1

0.232
2.0

0.026
3.0

0.032
4.6

0.046
2.6

Section bearing 180°

For legend see Figure No. 5

0 50' 100'

Scale 1" = 40 feet

POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

D.D.H. SECTION 4+00E
LOOKING WEST

D.D.H. No. KAS- 88-7

BY: R.H. / R.T.M.
DATE: APRIL 1988
SCALE: 1" = 40'
FIGURE No. 35

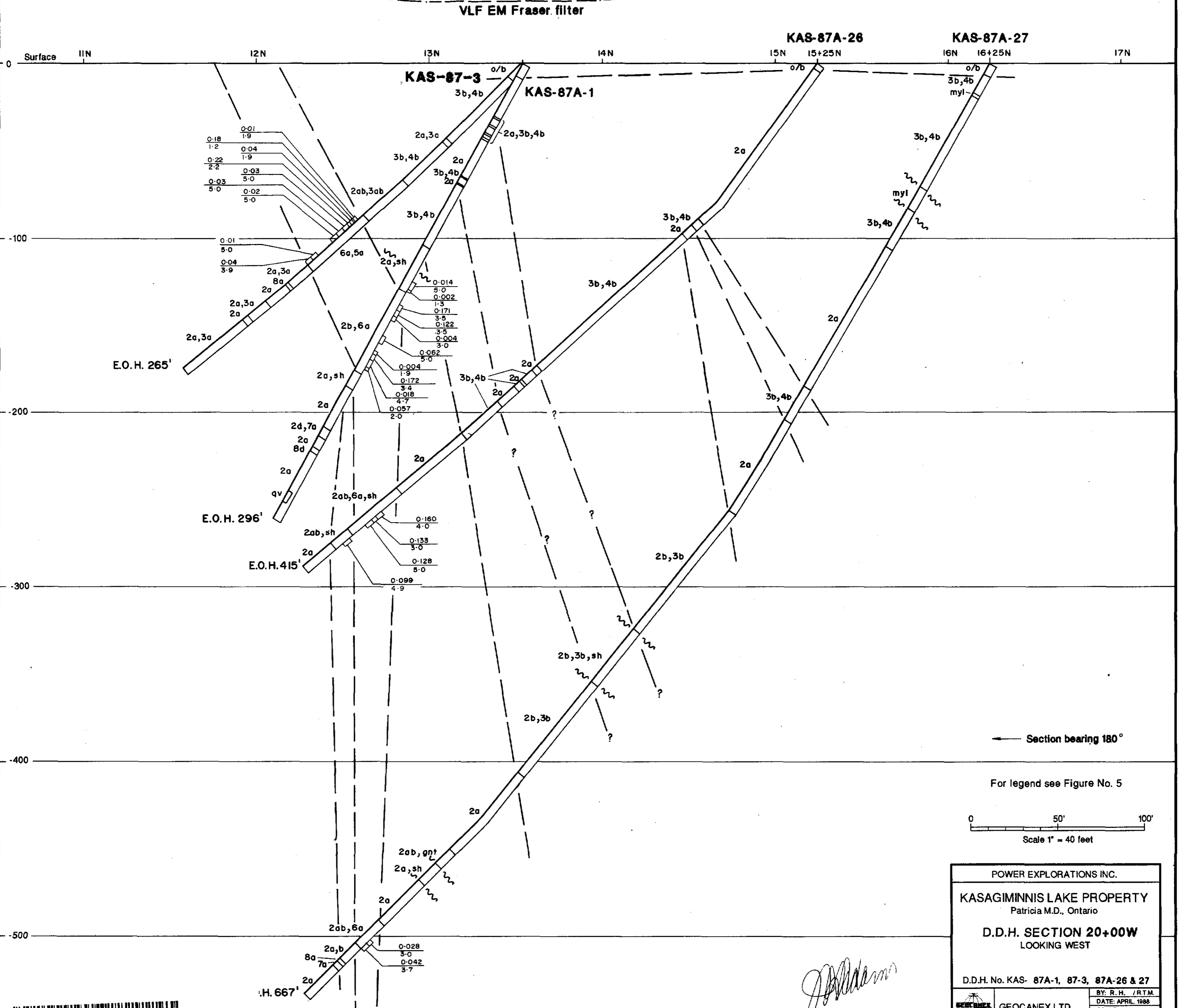
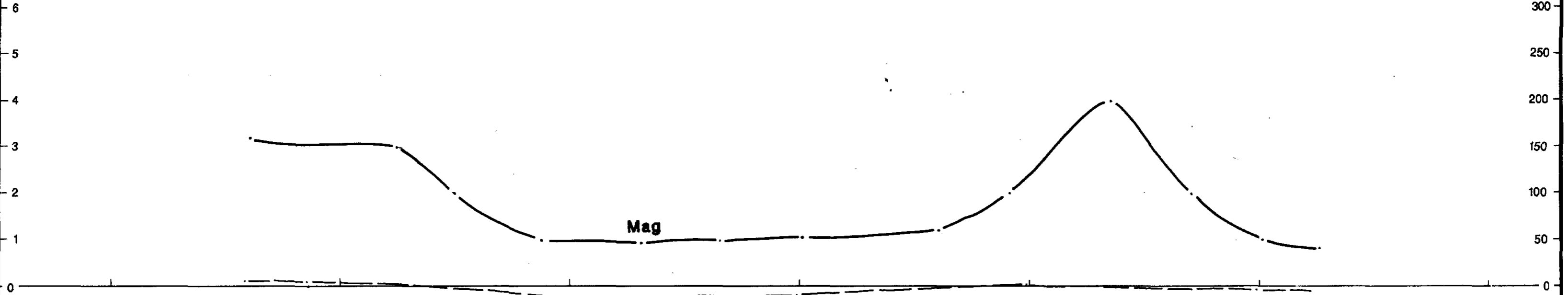
GEOCANEX LTD
TORONTO CANADA



520885W0006 14 LITTLE OCHIG LAKE

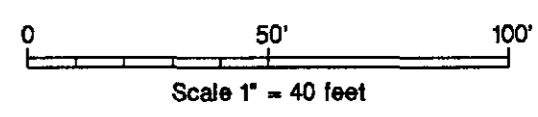
Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



Section bearing 180°

For legend see Figure No. 5



POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

D.D.H. SECTION 20+00W
LOOKING WEST

D.D.H. No. KAS- 87A-1, 87-3, 87A-26 & 27

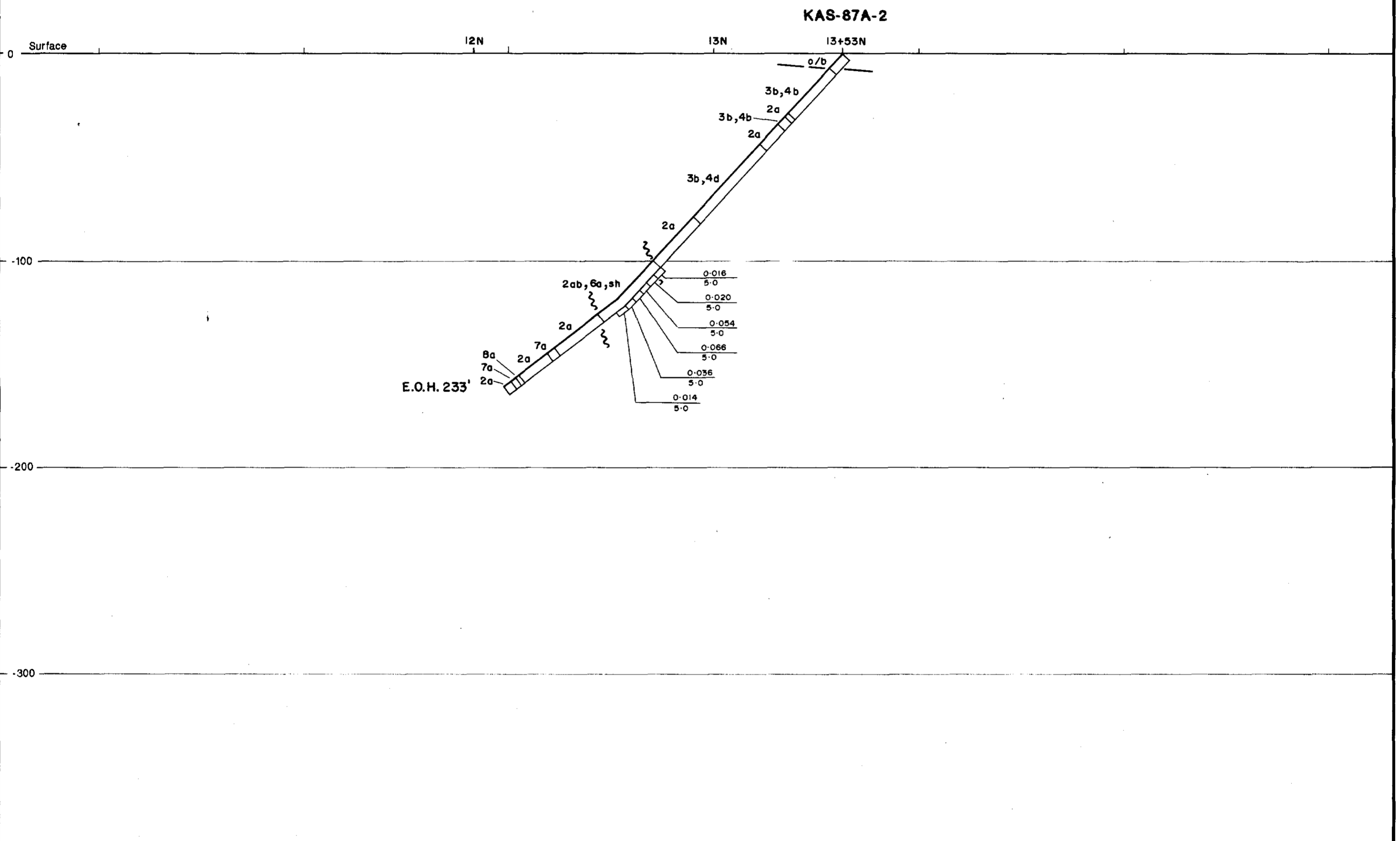
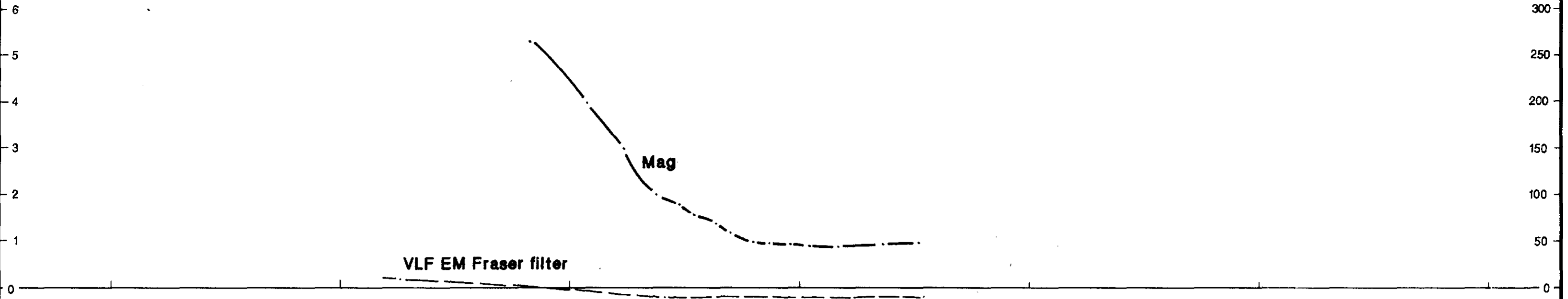
BY: R. H. / R.T.M.
DATE: APRIL, 1988
SCALE: 1: 480
FIGURE No. 24

GEOCANEX LTD
TORONTO CANADA



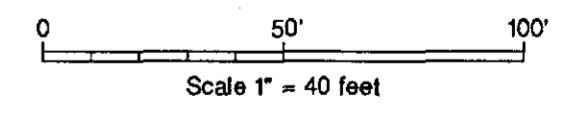
Magnetic Profile
(x 1000 gammas)


VLF EM Fraser Filtered
Inphase Profile (%)



Section bearing 150°

For legend see Figure No. 5



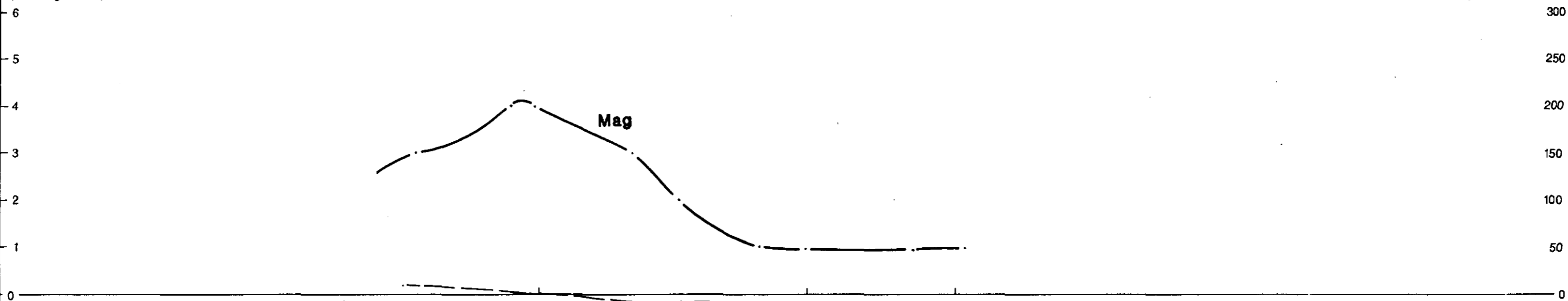
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 20+00W LOOKING WEST	
D.D.H. No. KAS- 87A-2	
	BY: R.H. /R.T.M. DATE: APRIL, 1988 SCALE: 1: 480 FIGURE No. 25
GEOCANEX LTD TORONTO CANADA	

[Handwritten signature]

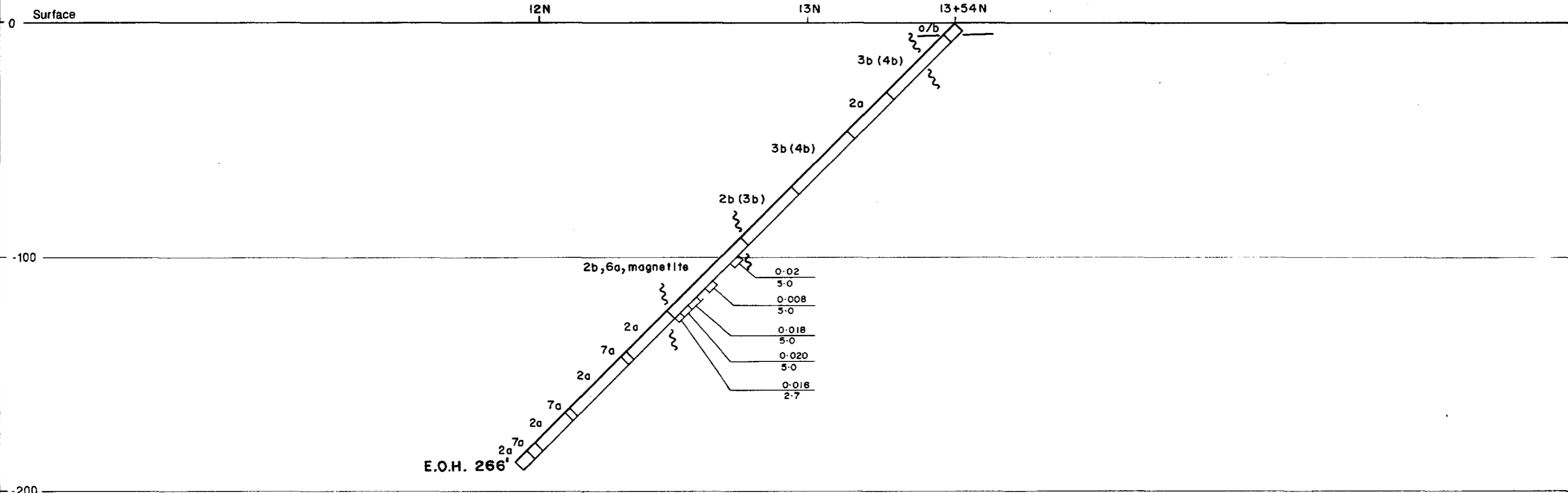


Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)

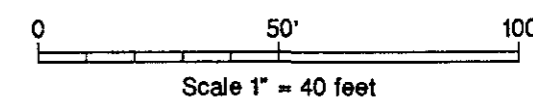


VLF EM Fraser filter



← Section bearing 210°

For legend see Figure No. 5



POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
D.D.H. SECTION 20+00W
LOOKING WEST

D.D.H. No. KAS- 87A-3



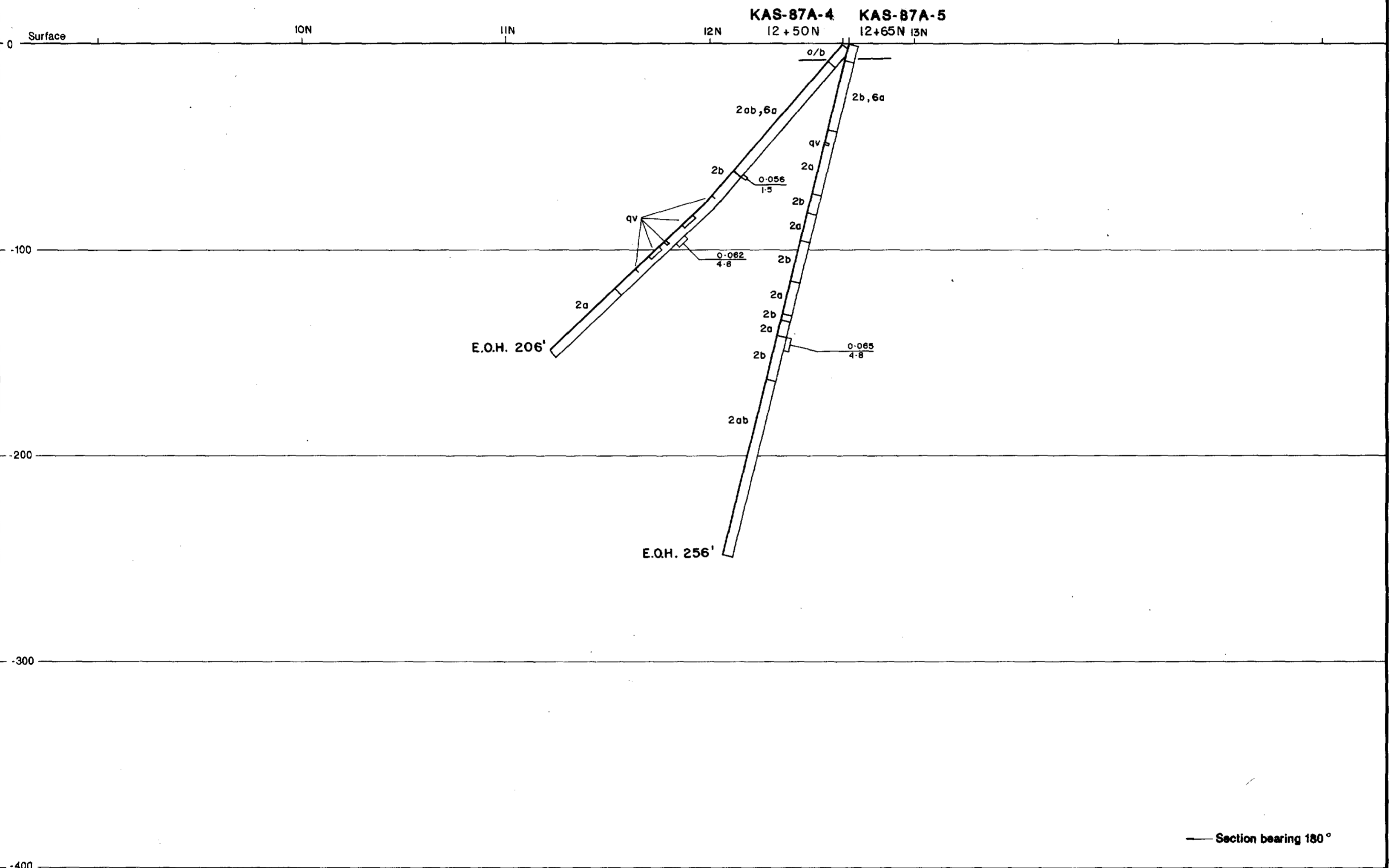
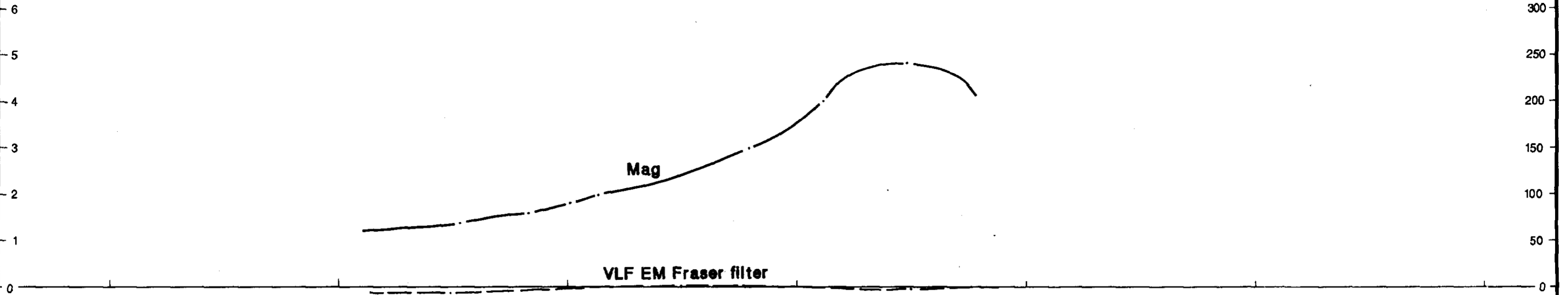
GEOCANEX LTD
TORONTO CANADA

BY: R.H. /R.T.M.
DATE: APRIL 1988
SCALE: 1:480
FIGURE No. 26

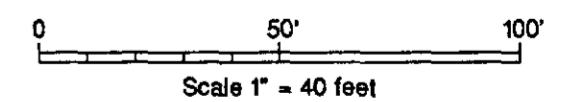


Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



For legend see Figure No. 5

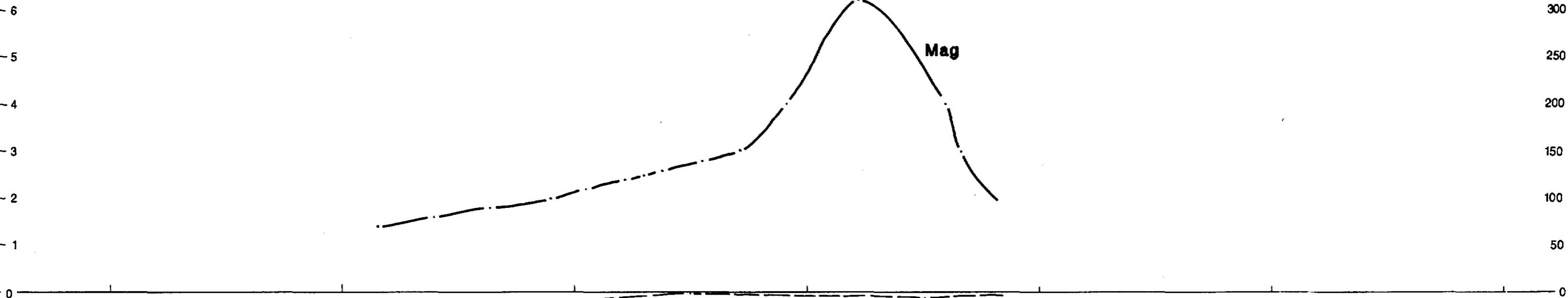


POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 23+00W LOOKING WEST	
D.D.H. No. KAS-87A-4,5	
BY: R.H. / R.T.M.	DATE: APRIL 1986
SCALE: 1:400	FIGURE No. 22



Magnetic Profile
(x 1000 gammas)

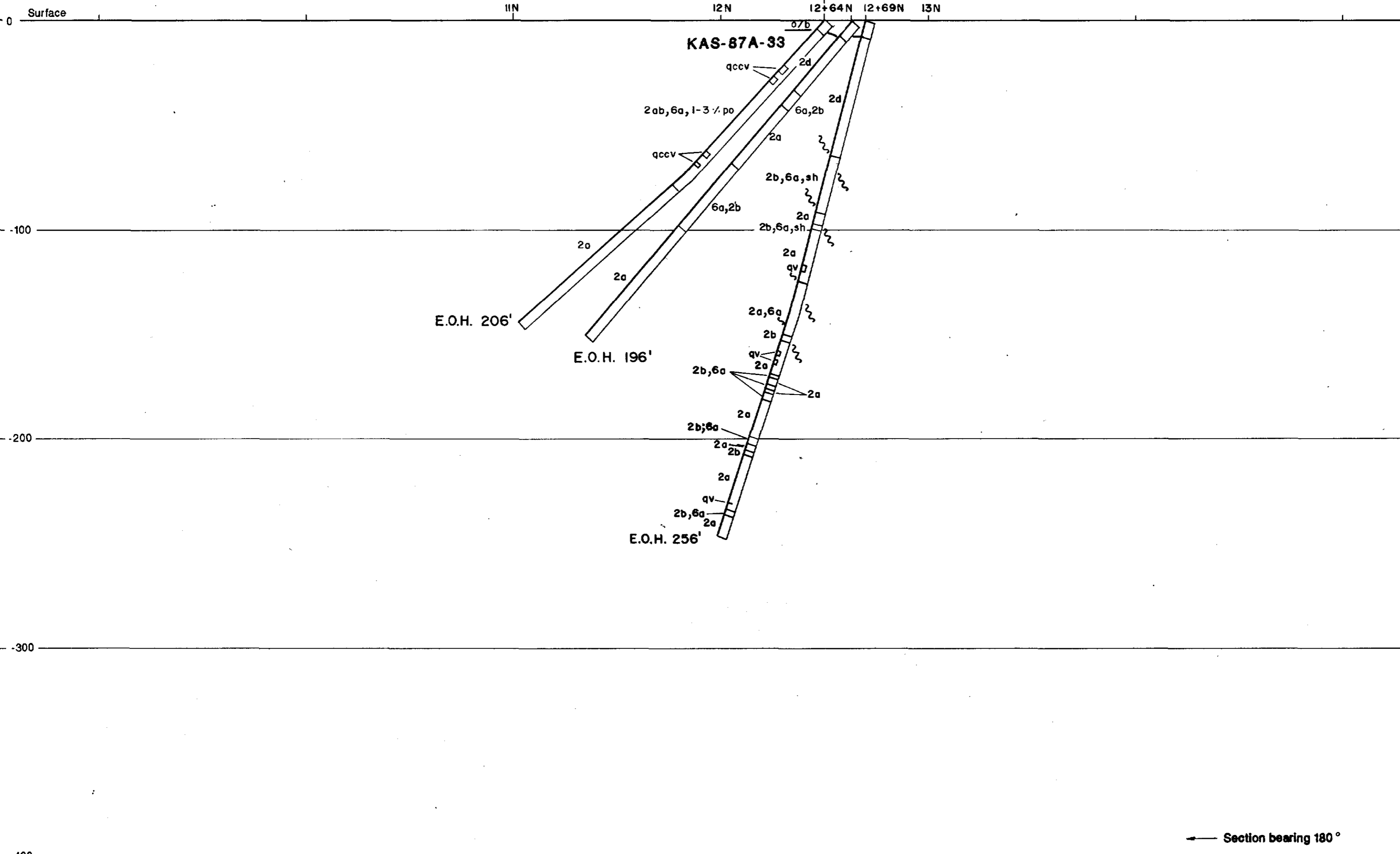
VLF EM Fraser Filtered
Inphase Profile (%)



VLF EM Fraser filter

KAS-87A-6

12+50N KAS-87A-7
12+64N 12+69N 13N



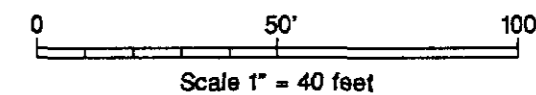
E.O.H. 206'


E.O.H. 196'

E.O.H. 256'

Section bearing 180°

For legend see Figure No. 5



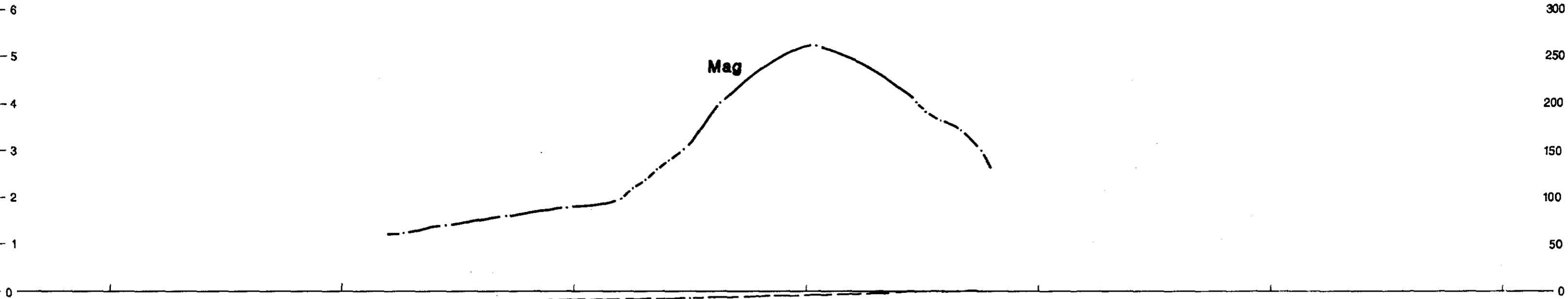
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 24+00W LOOKING WEST	
D.D.H. No. KAS- 87A-6, 7 & 33	
 GEOCANEX LTD TORONTO CANADA	BY: R.H. /R.T.M. DATE: APRIL, 1988 SCALE: 1:480 FIGURE No. 20



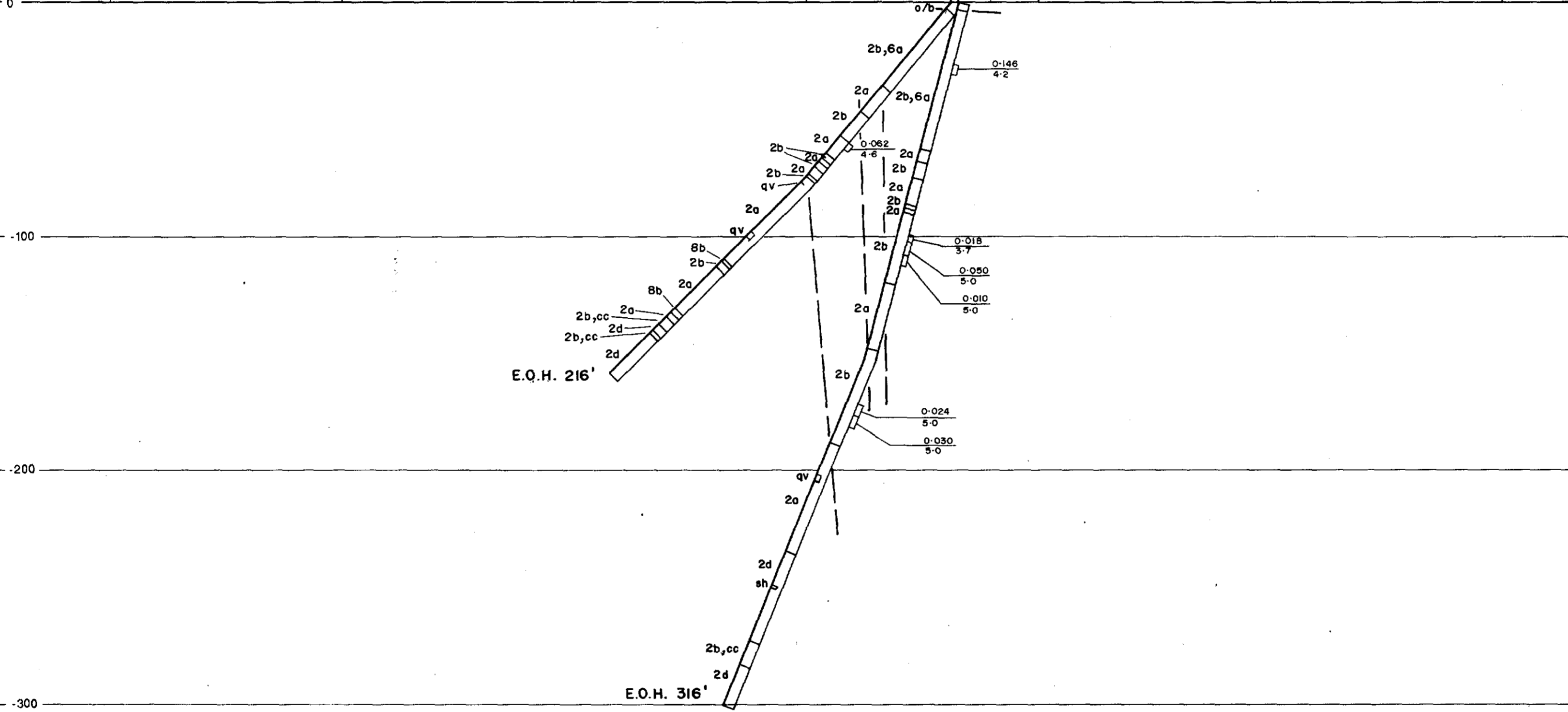
52085W0086 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)

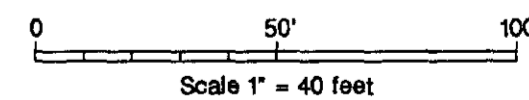


Surface 10N 11N 12N 13N
KAS-87A-8 KAS-87A-9



Section bearing 180°

For legend see Figure No. 5



POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

D.D.H. SECTION 25+00W
LOOKING WEST

D.D.H. No. KAS-87A-8 & 9

BY: R.H. / R.T.M.
DATE: APRIL, 1988
SCALE: 1" = 40'
FIGURE No. 18

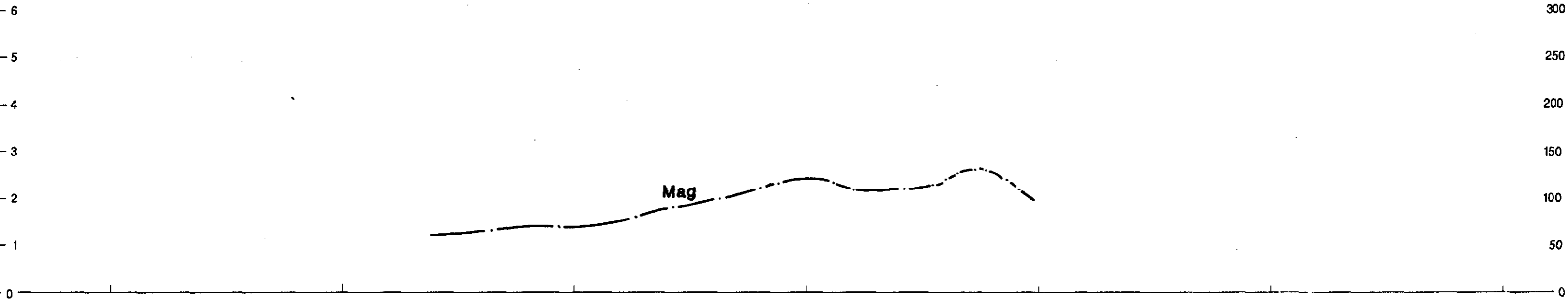
GEOCANEX LTD
TORONTO CANADA



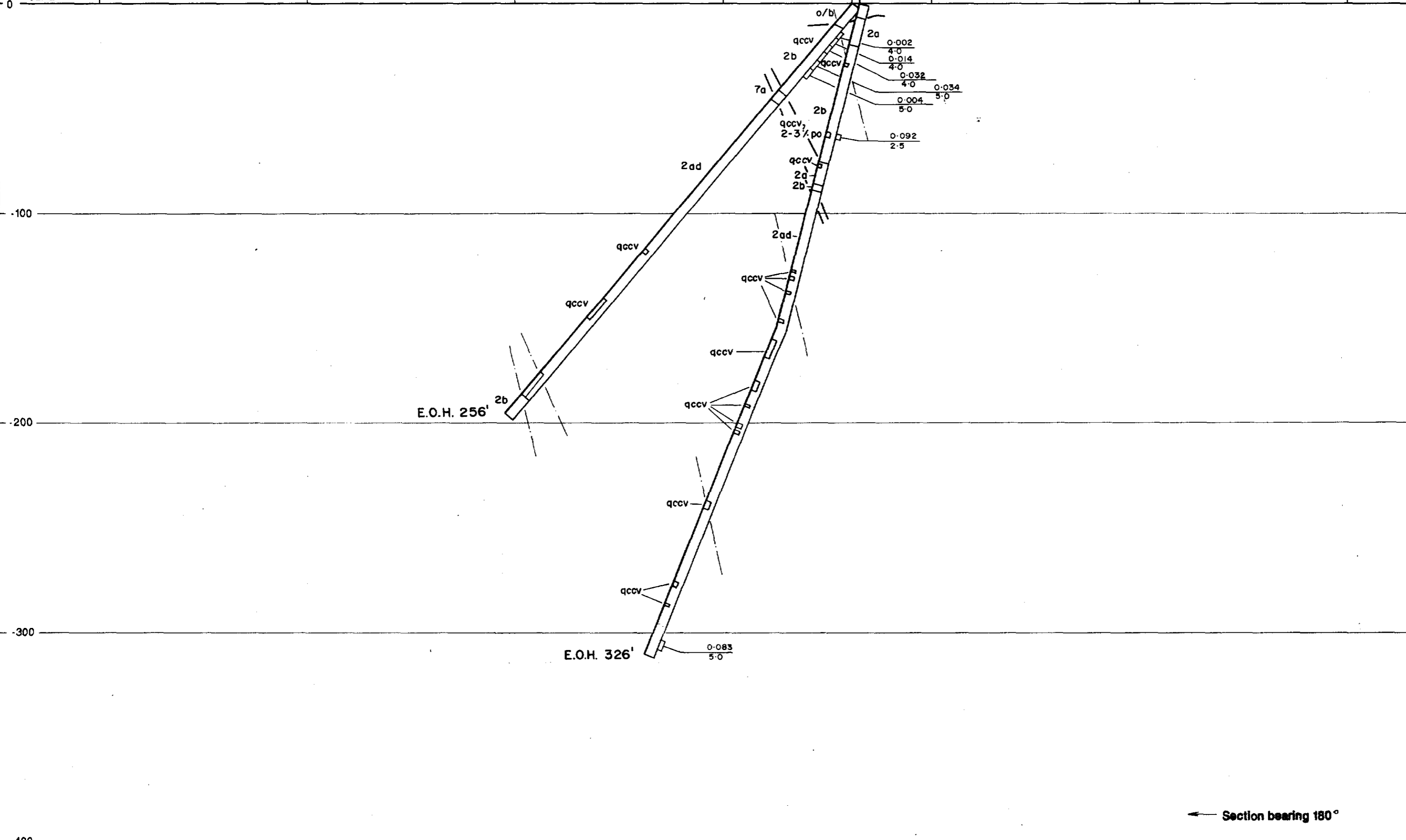
520885W0006 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



Surface ION IIN 12 N 12+65 N 13 N 14 N



For legend see Figure No. 5

0 50' 100'

Scale 1" = 40 feet

POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

D.D.H. SECTION 26+00W
LOOKING WEST

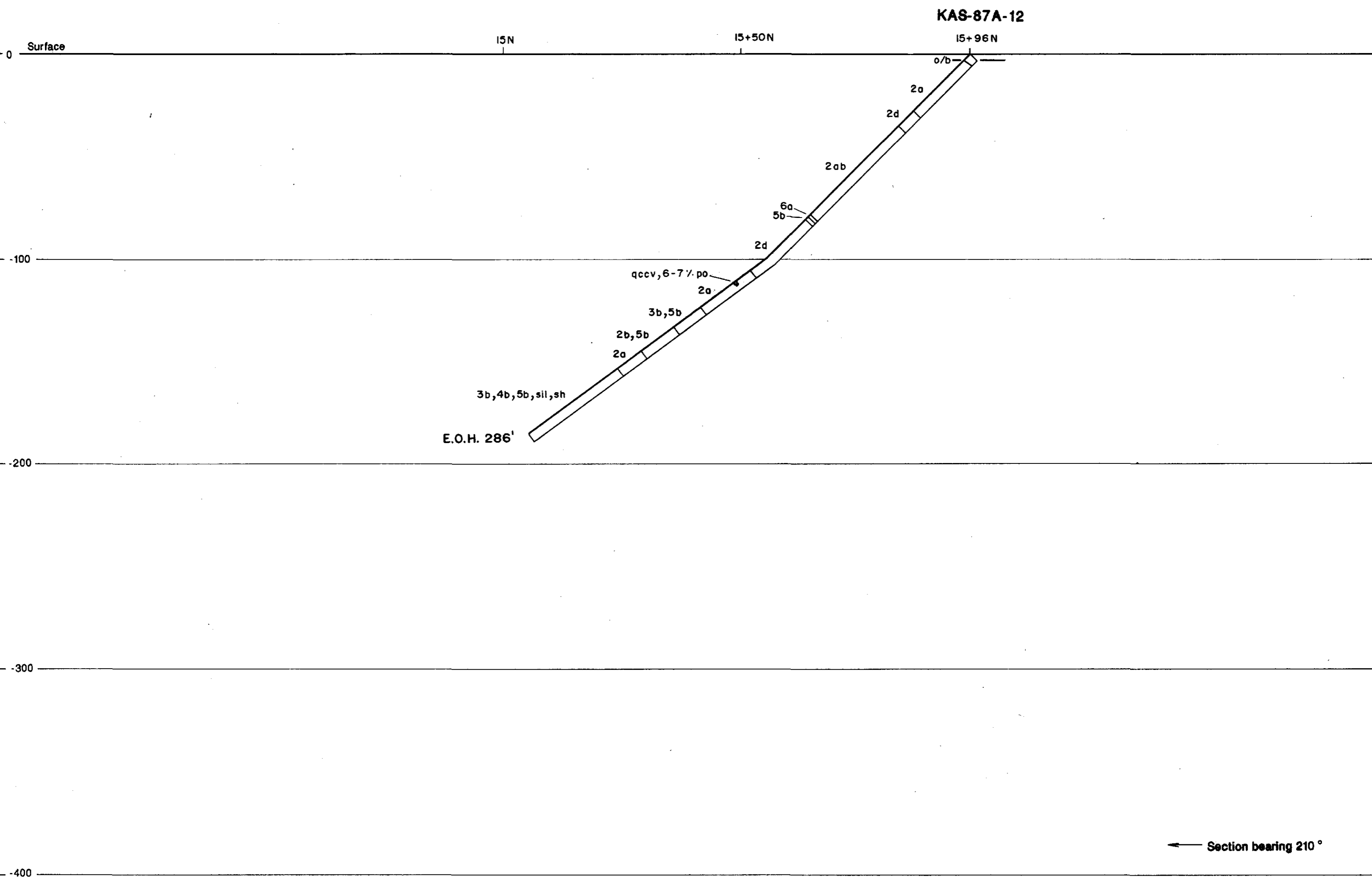
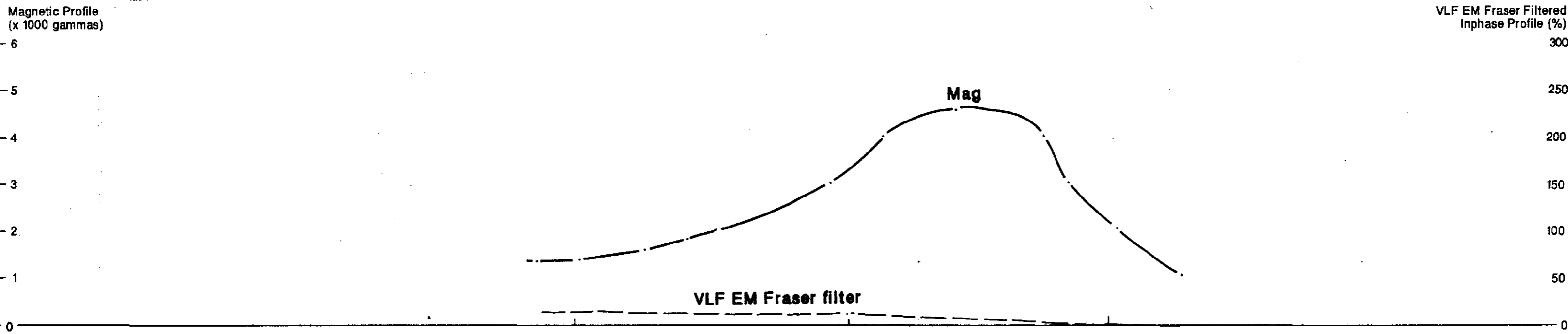
D.D.H. No. KAS- 87A-10 & 11

BY: R.H. /R.T.M.
DATE: APRIL, 1988
SCALE: 1:480
FIGURE No. 14

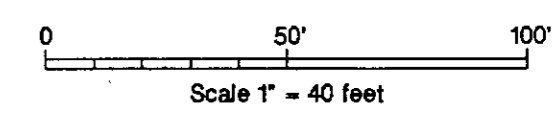
GEOCANEX LTD
TORONTO CANADA

Madam



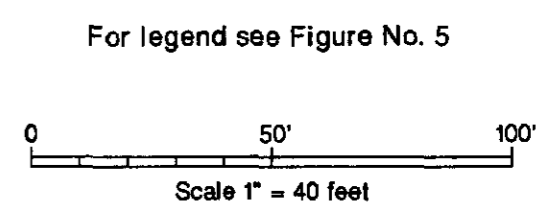
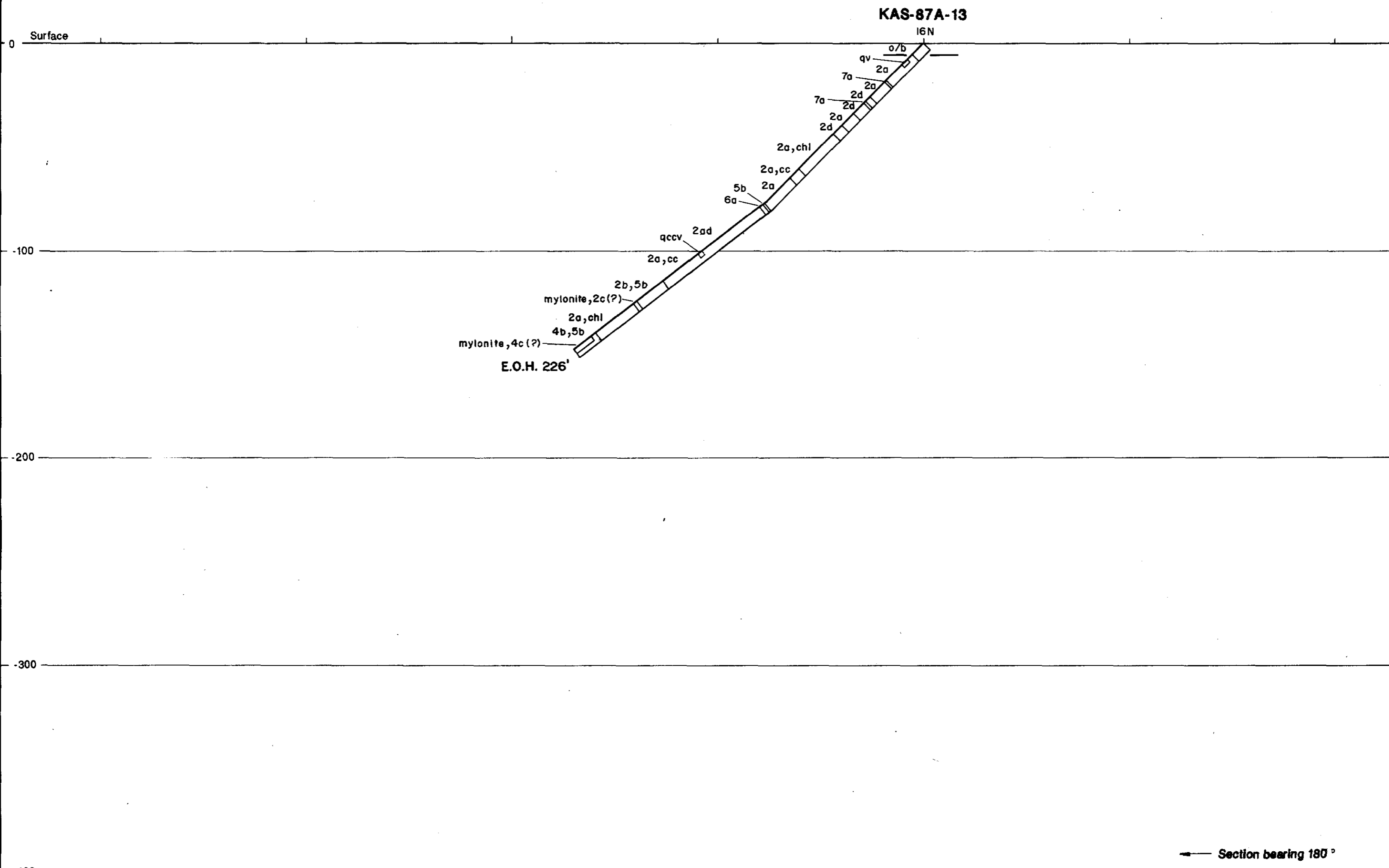
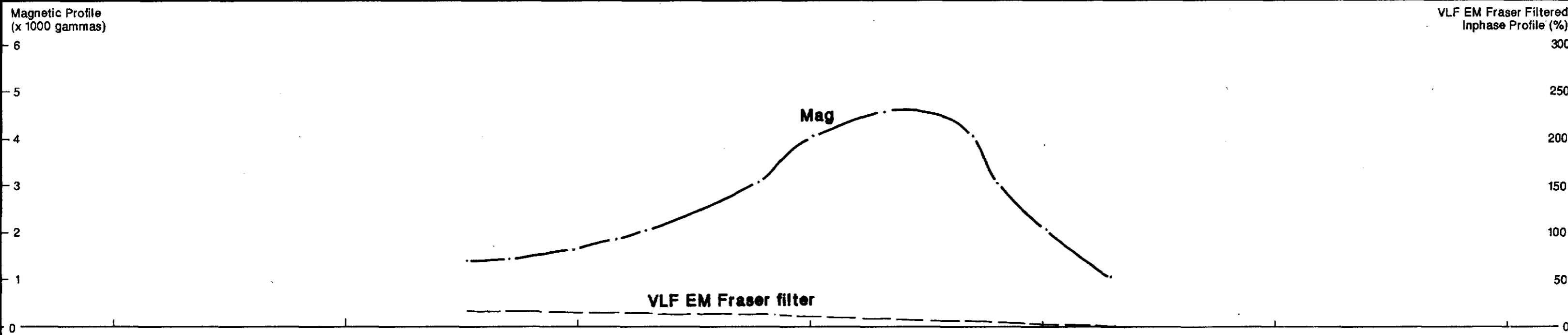


For legend see Figure No. 5



POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 25+03W LOOKING WEST	
D.D.H. No. KAS- 87A-12	
 GEOCANEX LTD TORONTO CANADA	BY: R. H. /R.T.M.
	DATE: APRIL 1988
	SCALE: 1:480
	FIGURE No. 15





POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

D.D.H. SECTION 25+00W
LOOKING WEST

D.D.H. No. KAS-87A-13

BY: R.H. / R.T.M.
DATE: APRIL 1988
SCALE: 1:480
FIGURE No. 18

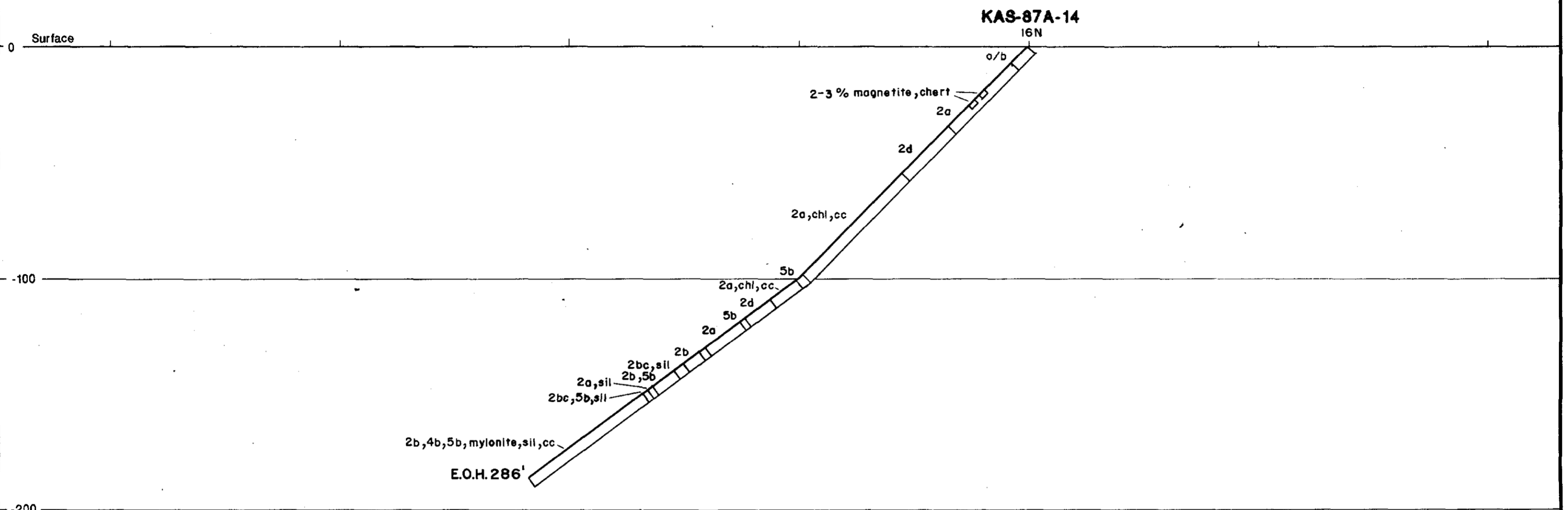
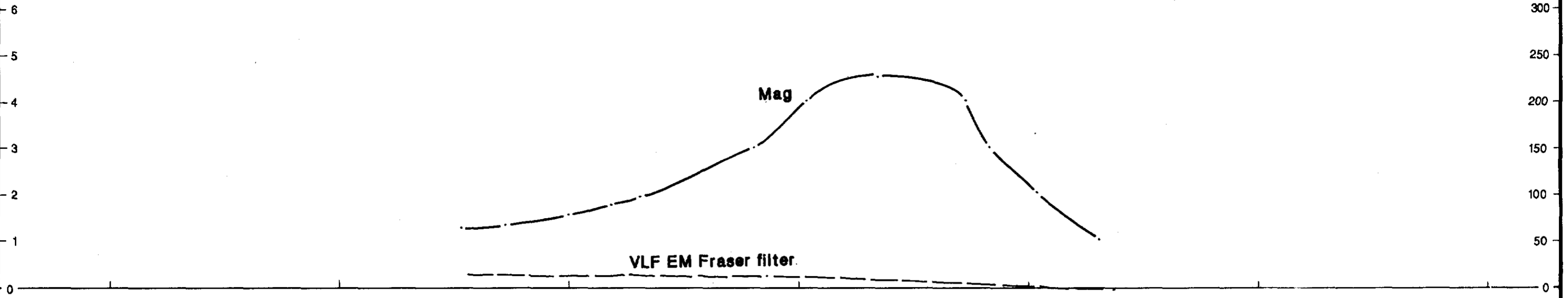
GEOCANEX LTD
TORONTO CANADA

[Handwritten signature]



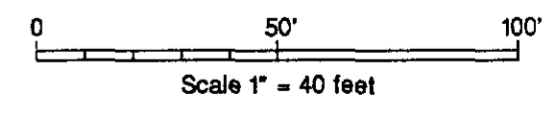
Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)

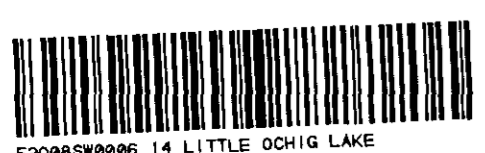


← Section bearing 150°

For legend see Figure No. 5

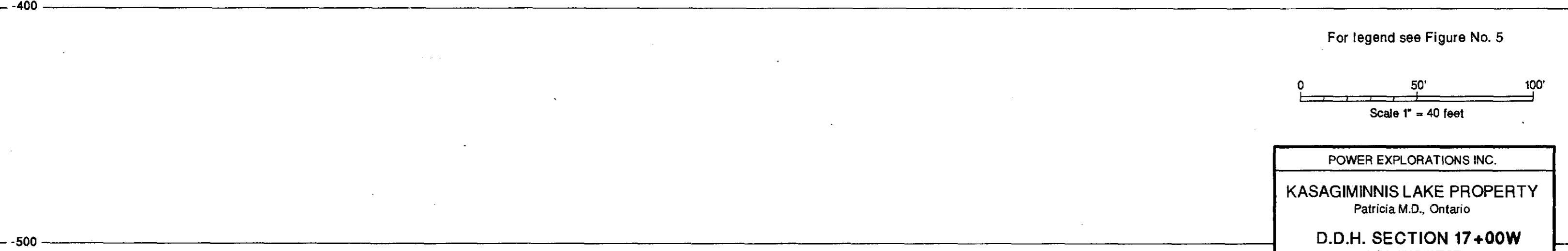
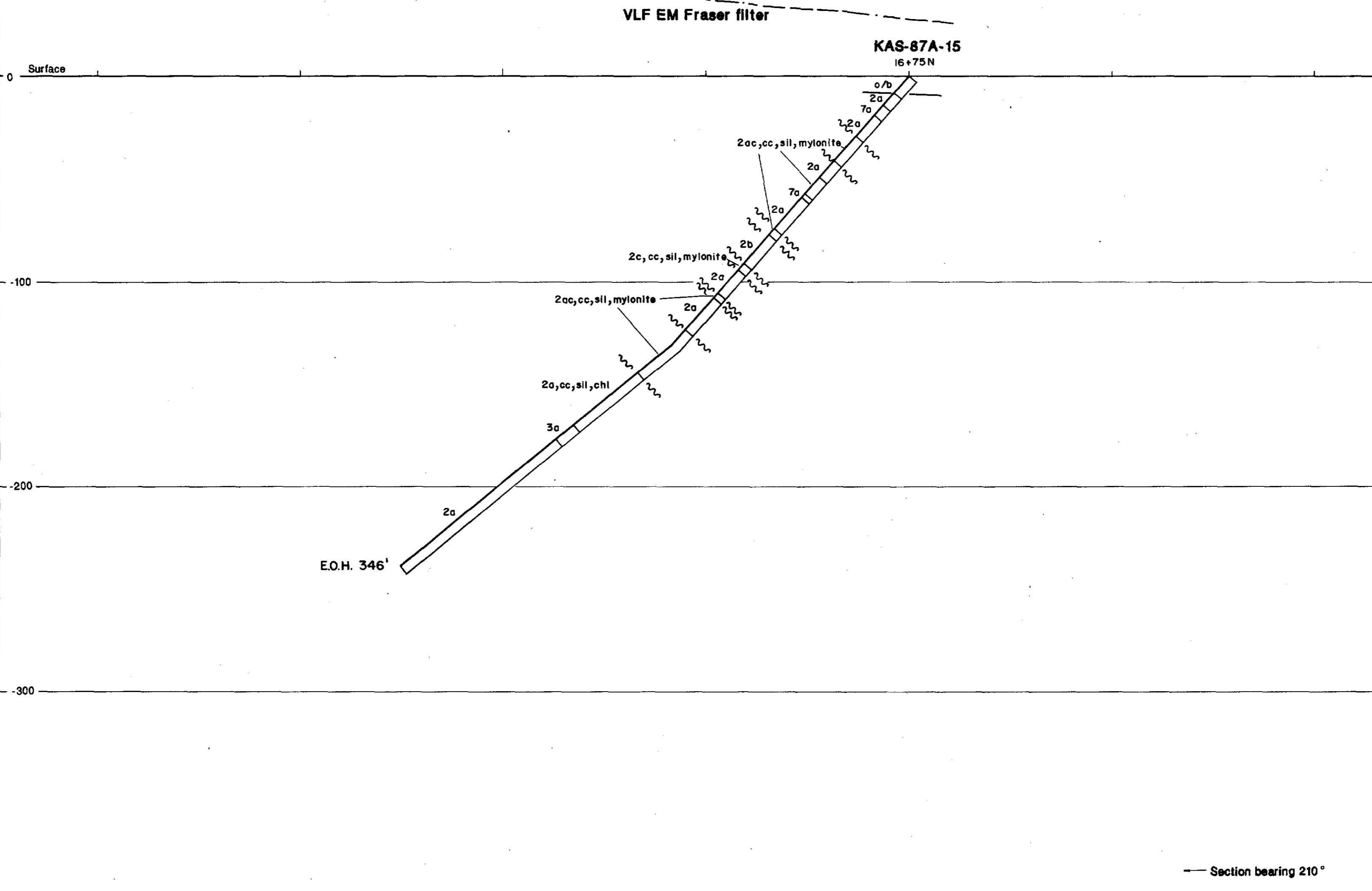
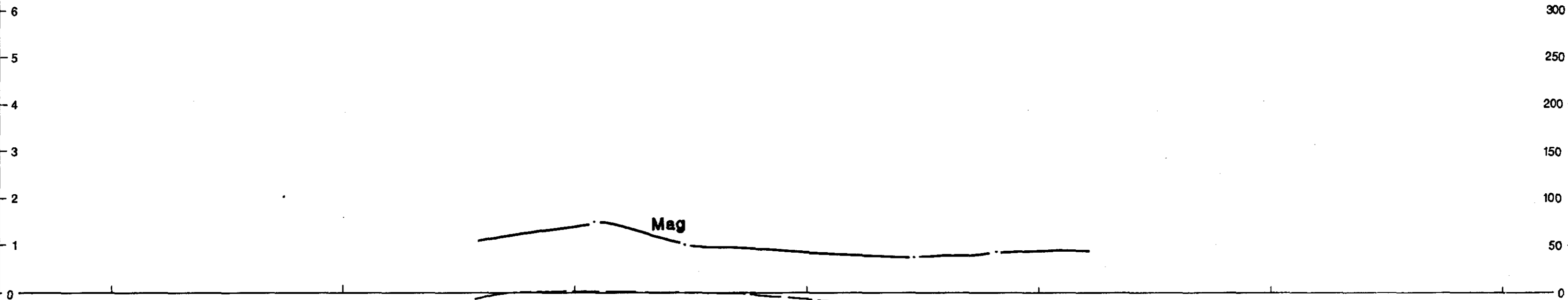


POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 25+00W LOOKING WEST	
D.D.H. No. KAS- 87A-14	
	BY: R.H. / R.T.M. DATE: APRIL, 1988 SCALE: 1" = 480' FIGURE No. 17



Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



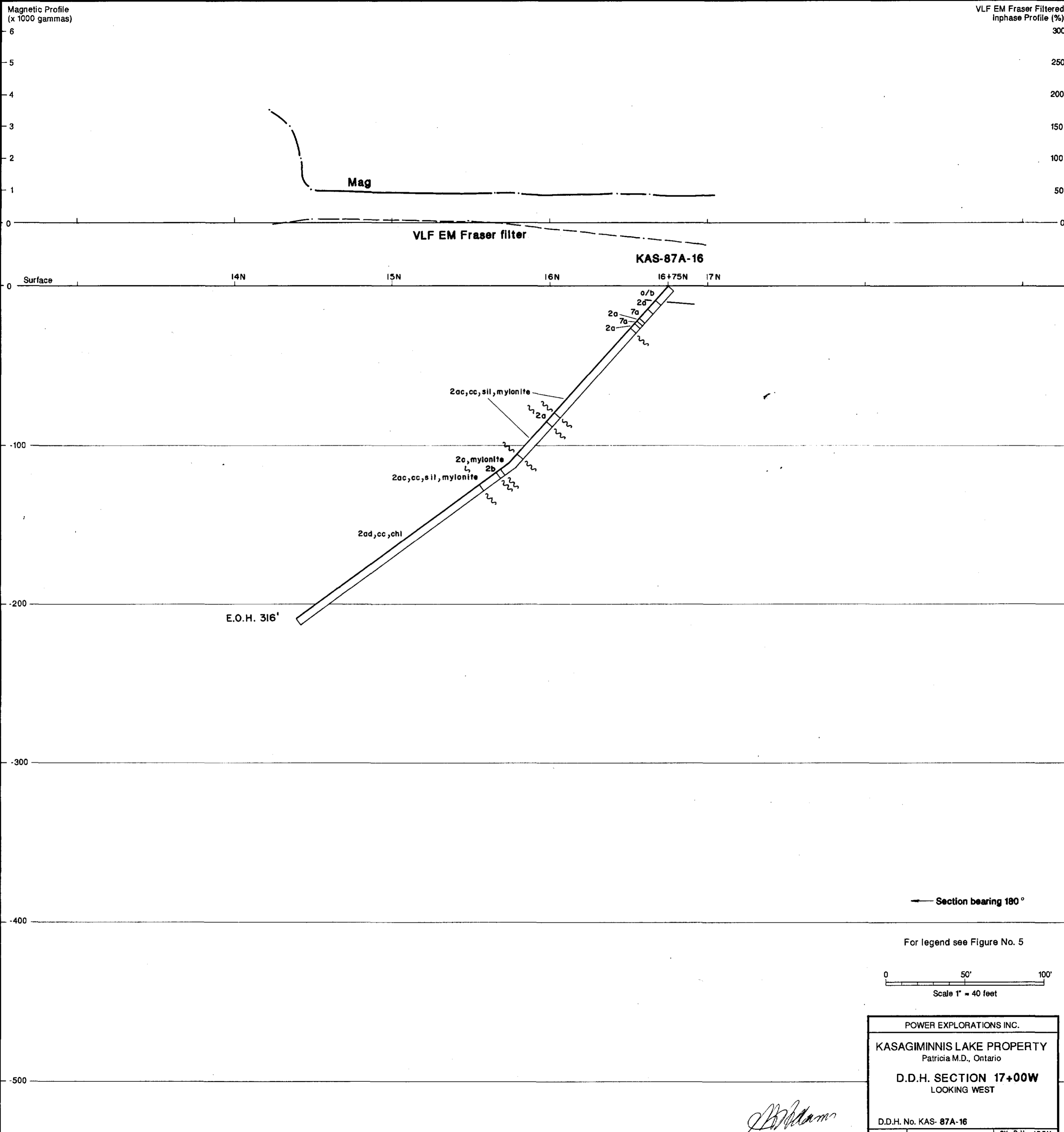
POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
D.D.H. SECTION 17+00W
LOOKING WEST
D.D.H. No. KAS-87A-15

BY: R.H. / R.T.M.
DATE: APRIL, 1988
SCALE: 1:480
FIGURE No. 2B

GEOCANEX LTD
TORONTO CANADA



52085W0006 14 LITTLE OCHIG LAKE



POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

D.D.H. SECTION 17+00W
LOOKING WEST

D.D.H. No. KAS- 87A-16

	BY: R.H. / R.T.M.
	DATE: APRIL 1988
	SCALE: 1: 480
	FIGURE No. 29

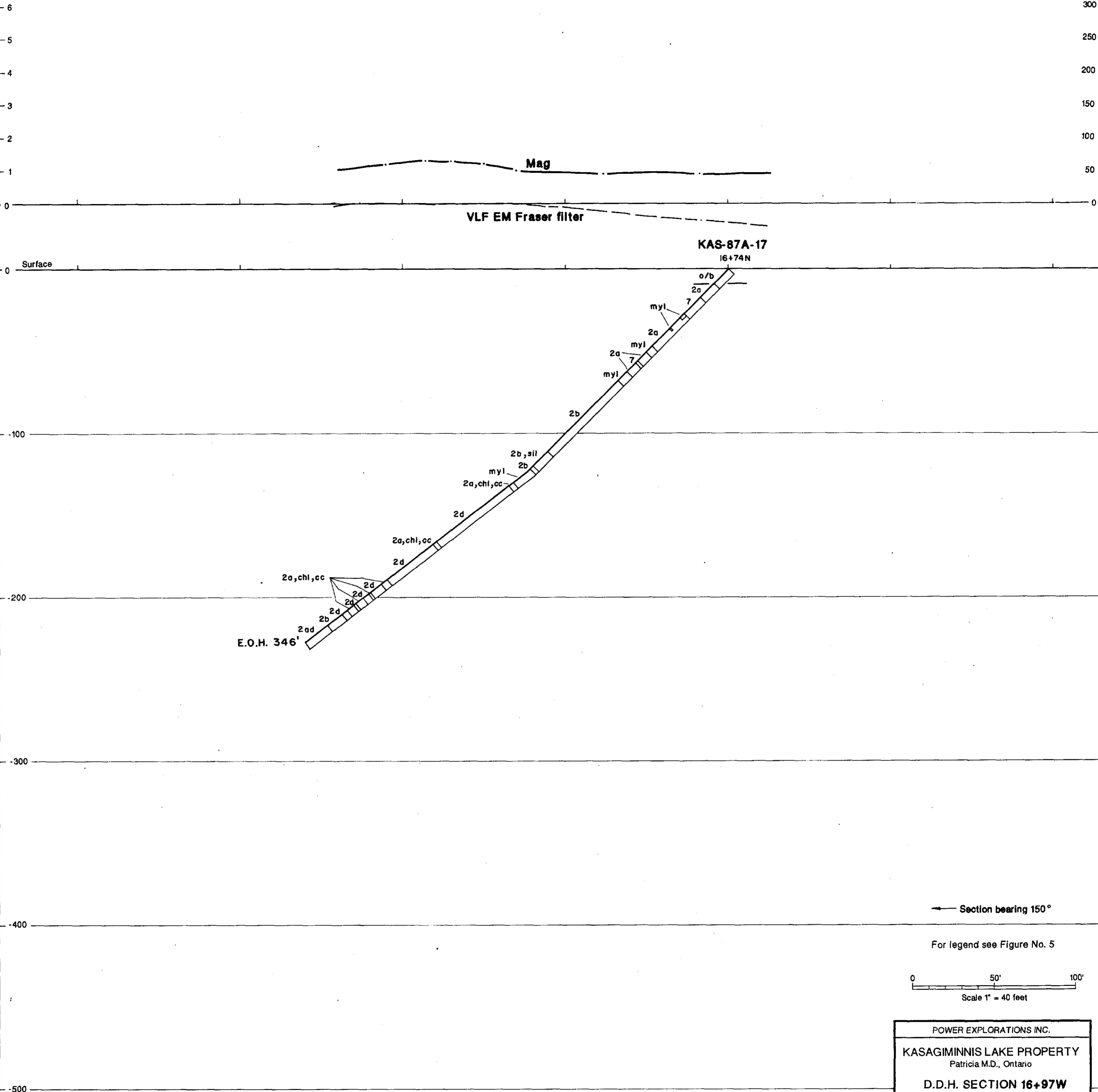
GEOCANEX LTD
TORONTO CANADA



520085W0006 14 LITTLE OCHIG LAKE

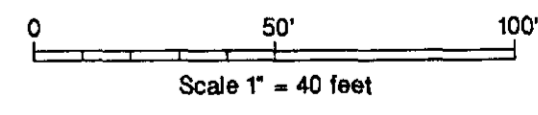
Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



Section bearing 150°

For legend see Figure No. 5

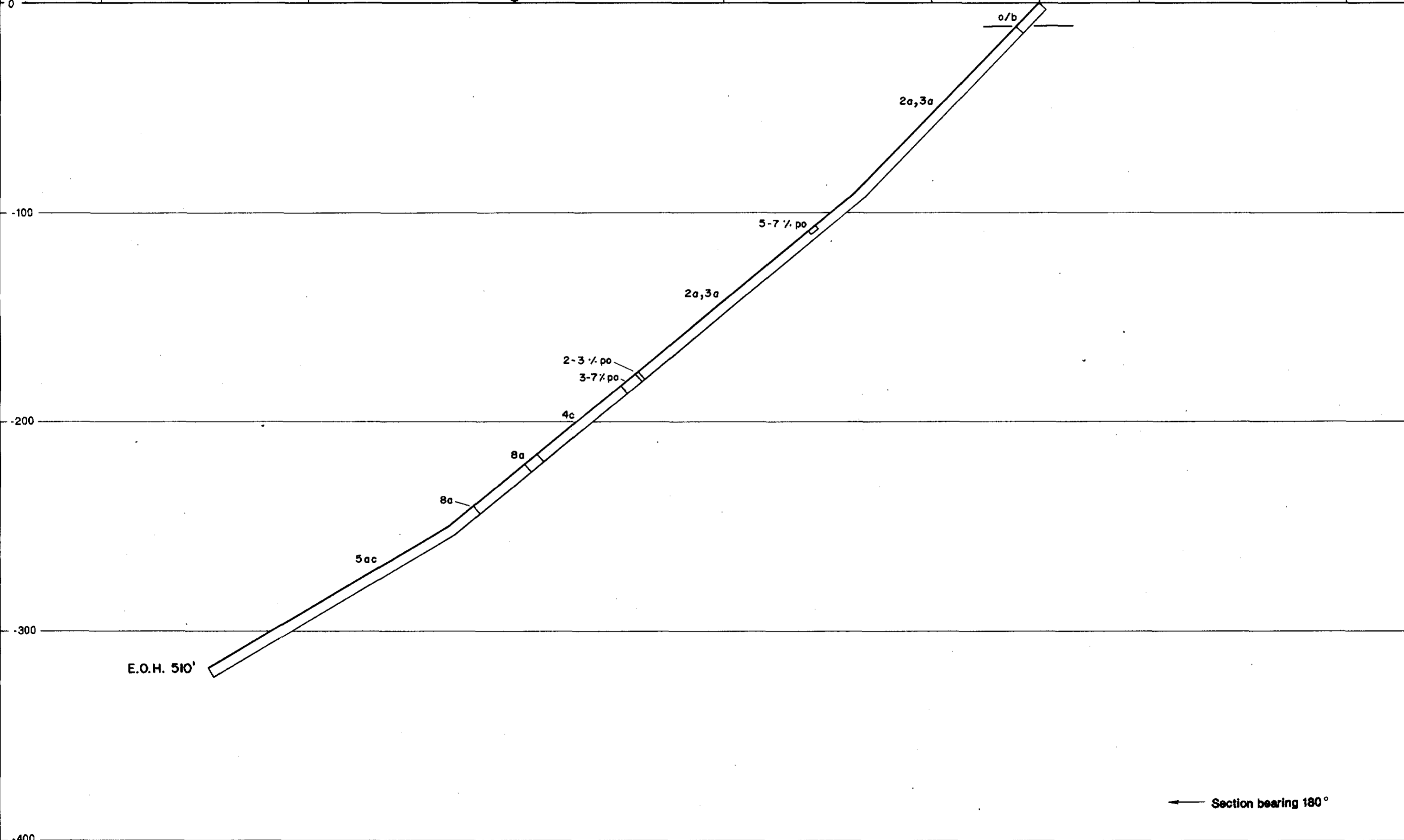
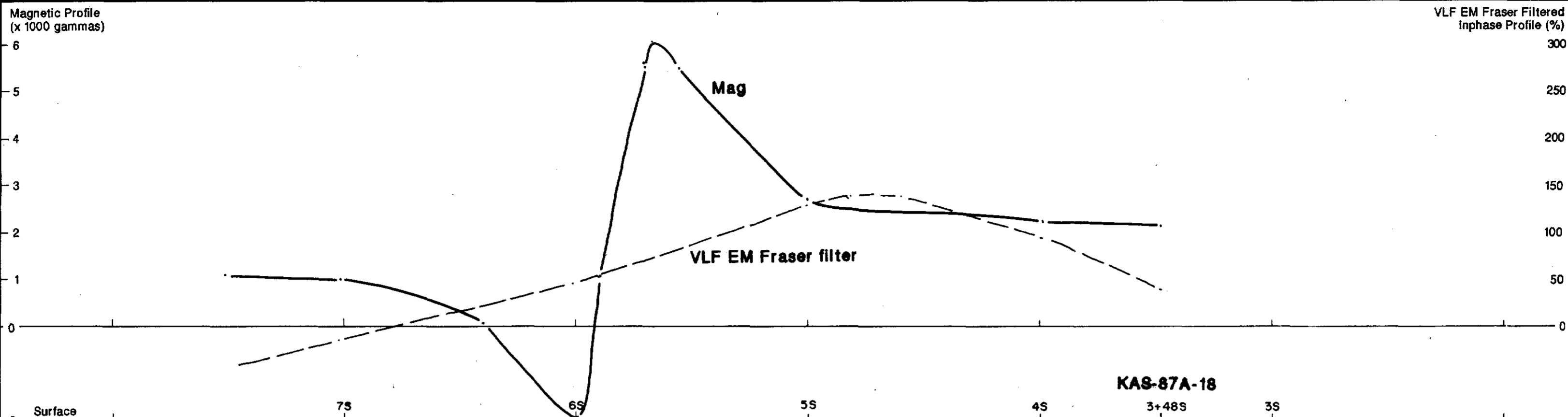


POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 16+97W LOOKING WEST	
D.D.H. No. KAS-87A-17	
	BY: R.H. /RT.M
	DATE: APRIL, 1988
	SCALE: 1" = 40'
	FIGURE No. 30

J. Adams

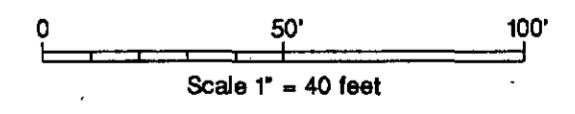


520885W0006 14 LITTLE OCHIG LAKE



← Section bearing 180°

For legend see Figure No. 5



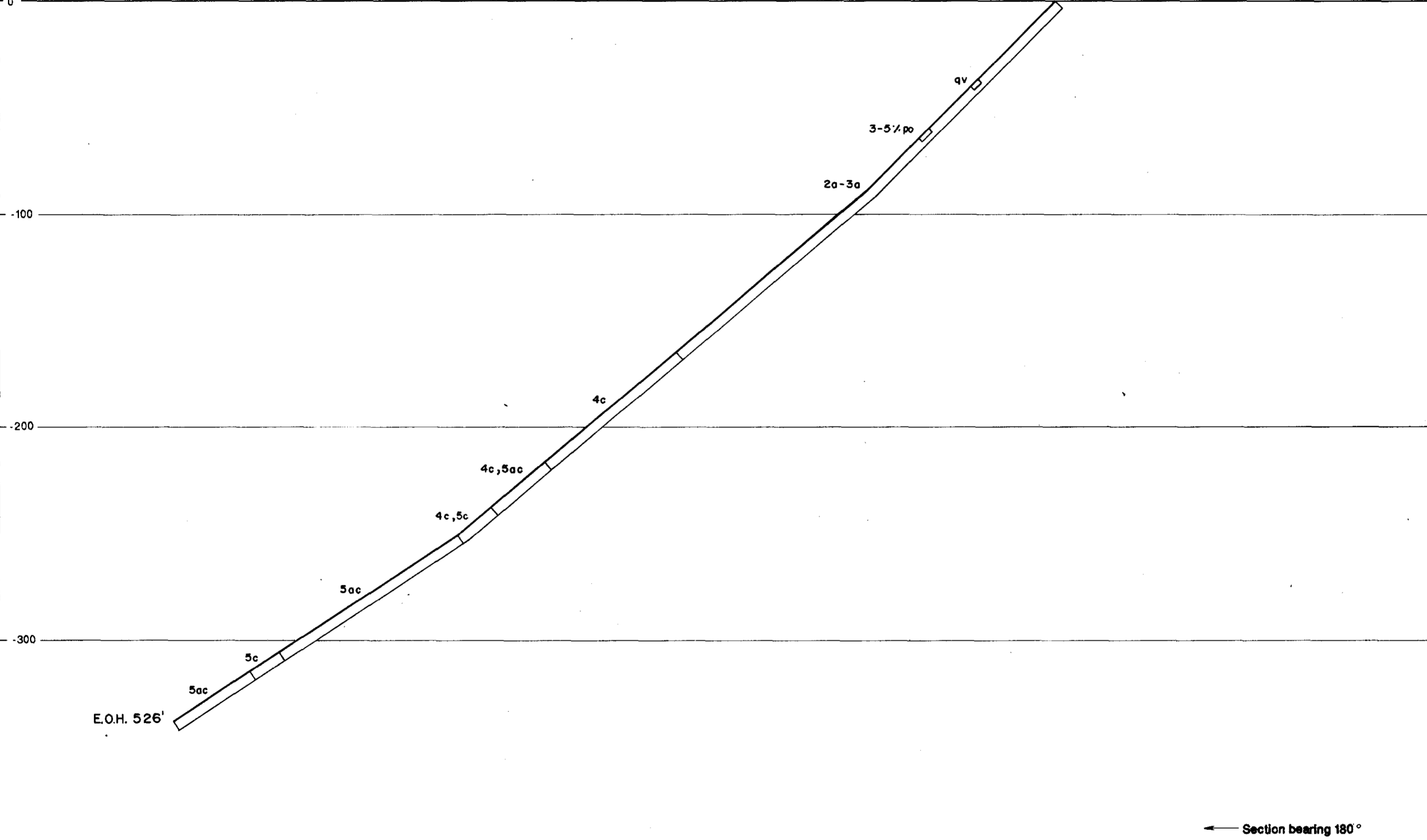
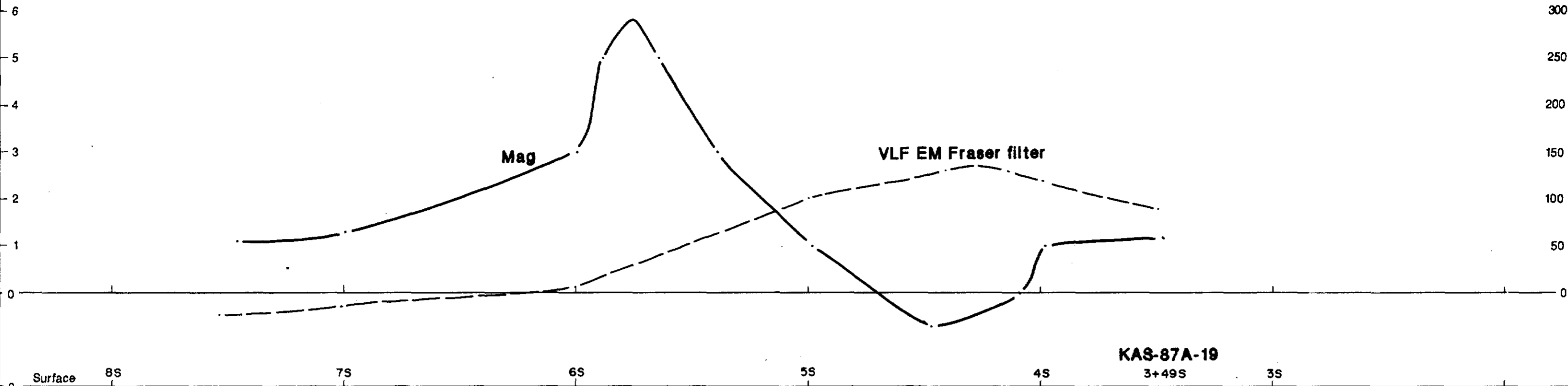
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY	
Patricia M.D., Ontario	
D.D.H. SECTION 47+00W	
LOOKING WEST	
D.D.H. No. KAS- 87A-18	
BY: R.H. /R.T.M.	DATE: APRIL, 1988
GEOCANEX LTD	
TORONTO CANADA	
SCALE: 1:480	
FIGURE No. 10	

[Handwritten signature]

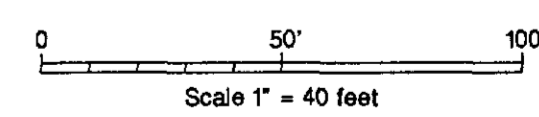


Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



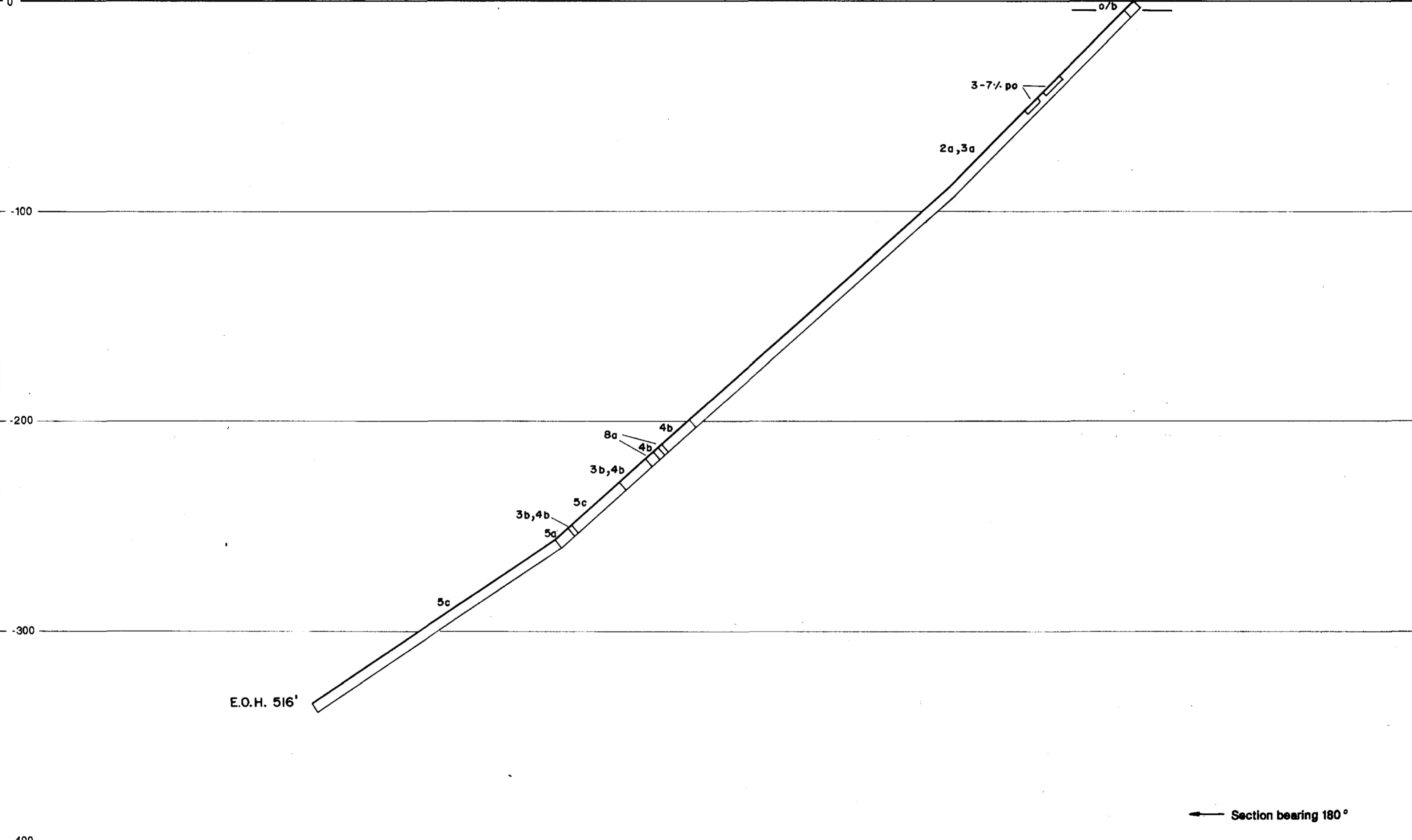
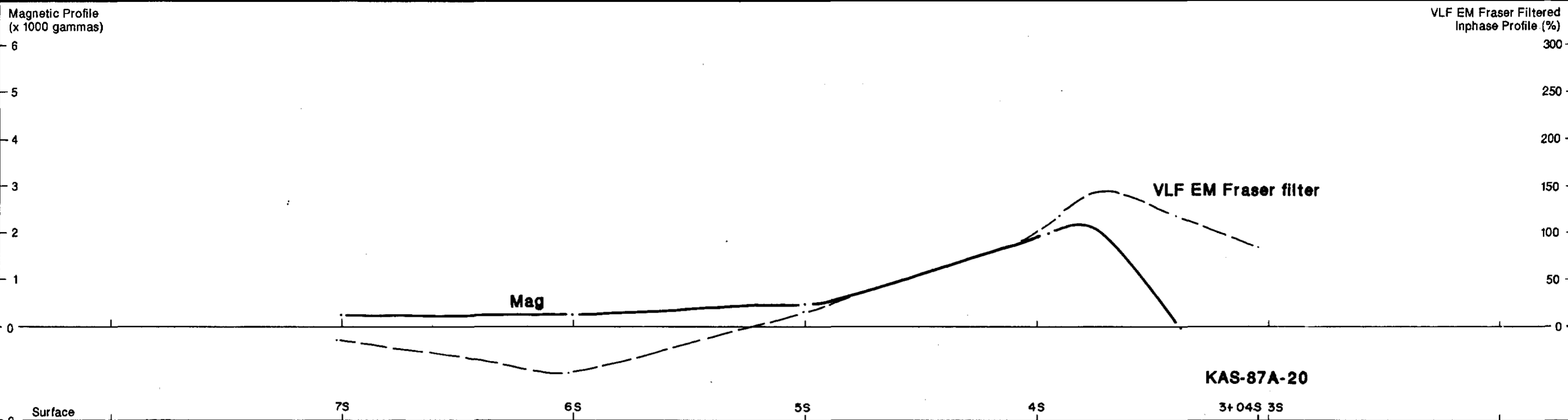
For legend see Figure No. 5



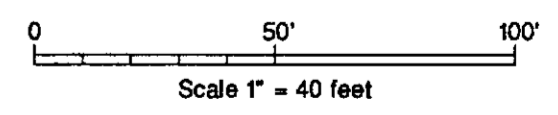
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 49+00W LOOKING WEST	
D.D.H. No. KAS- 87A-19	
	BY: R.H. /R.T.M.
	DATE: APRIL 1988
	SCALE: 1: 480 FIGURE No. 9



5208570006 14 LITTLE OCHIG LAKE

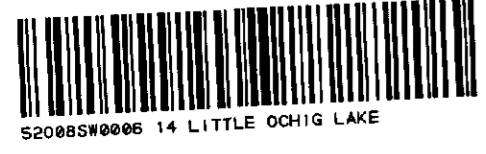


For legend see Figure No. 5



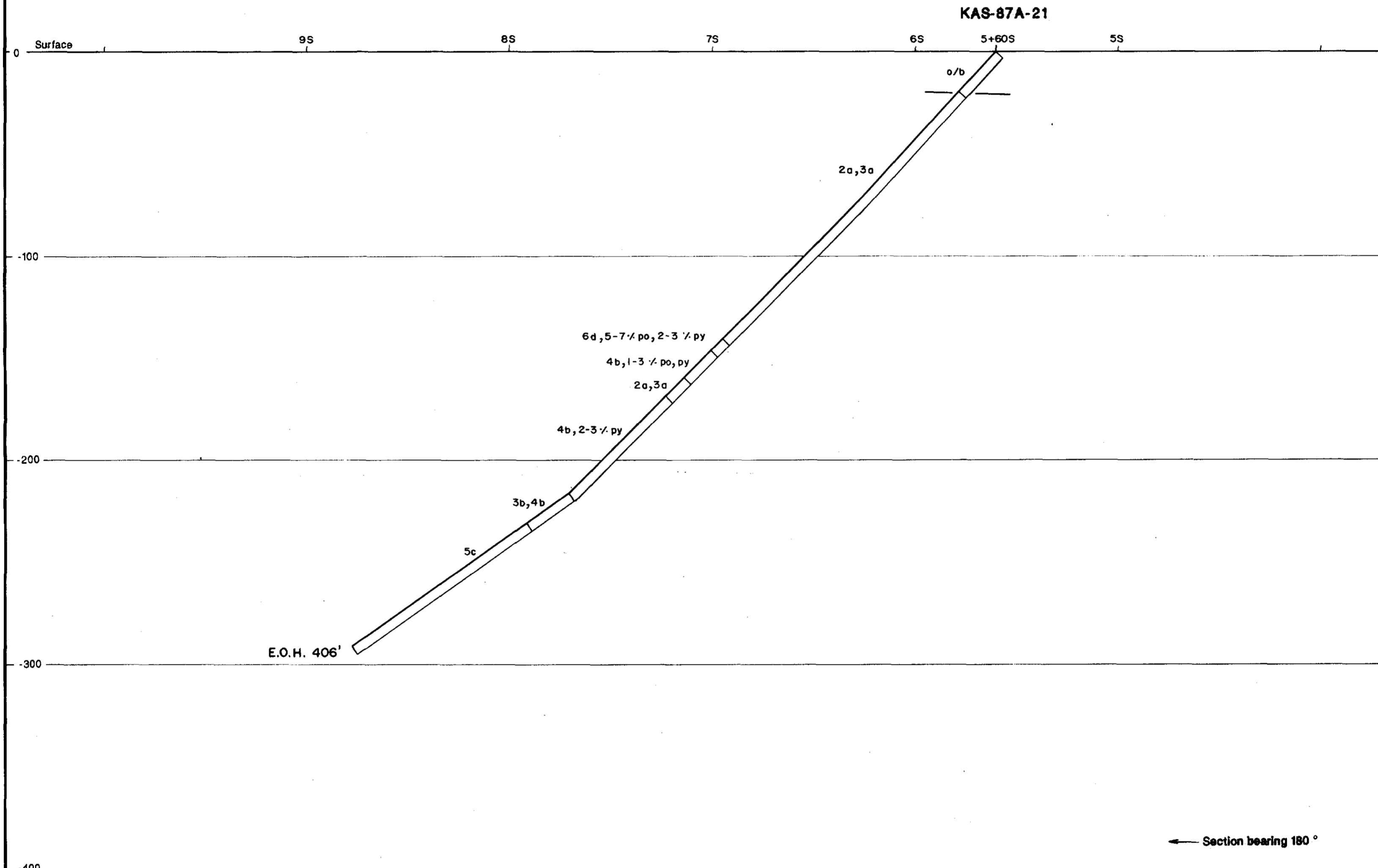
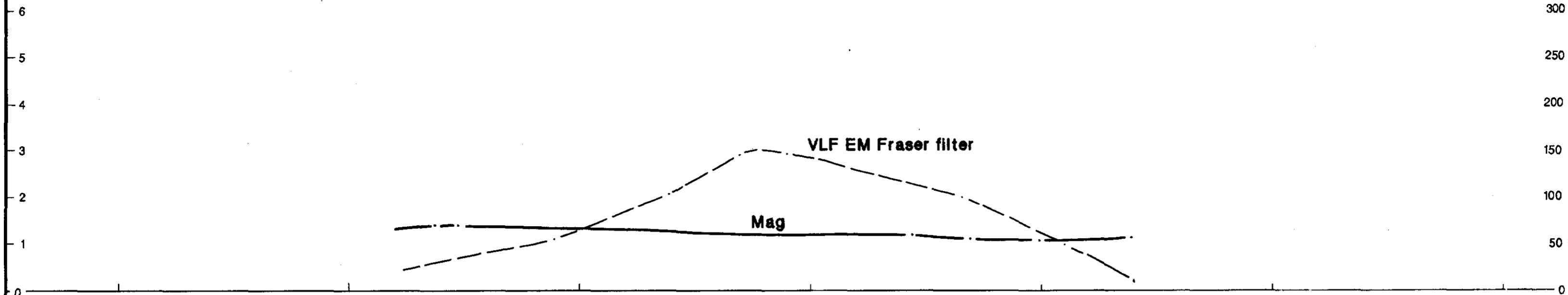
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 51+00W LOOKING WEST	
D.D.H. No. KAS-87A-20	
BY: R. H. / R.T.M.	DATE: APRIL 1986
GEOCANEX LTD TORONTO CANADA	
SCALE: 1:480 FIGURE No. 8	

[Handwritten signature]

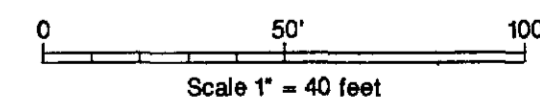



Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



For legend see Figure No. 5



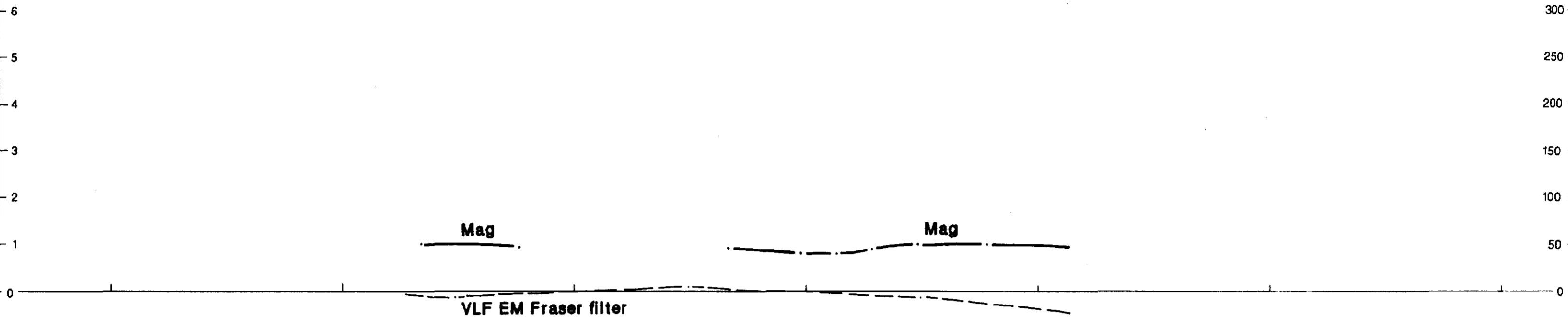
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY	
Patricia M.D., Ontario	
D.D.H. SECTION 37+00W	
LOOKING WEST	
D.D.H. No. KAS- 87A-21	
 GEOCANEX LTD	BY: R.H. /R.T.M.
TORONTO CANADA	DATE: APRIL 1988
	SCALE: 1: 480
	FIGURE No. 12



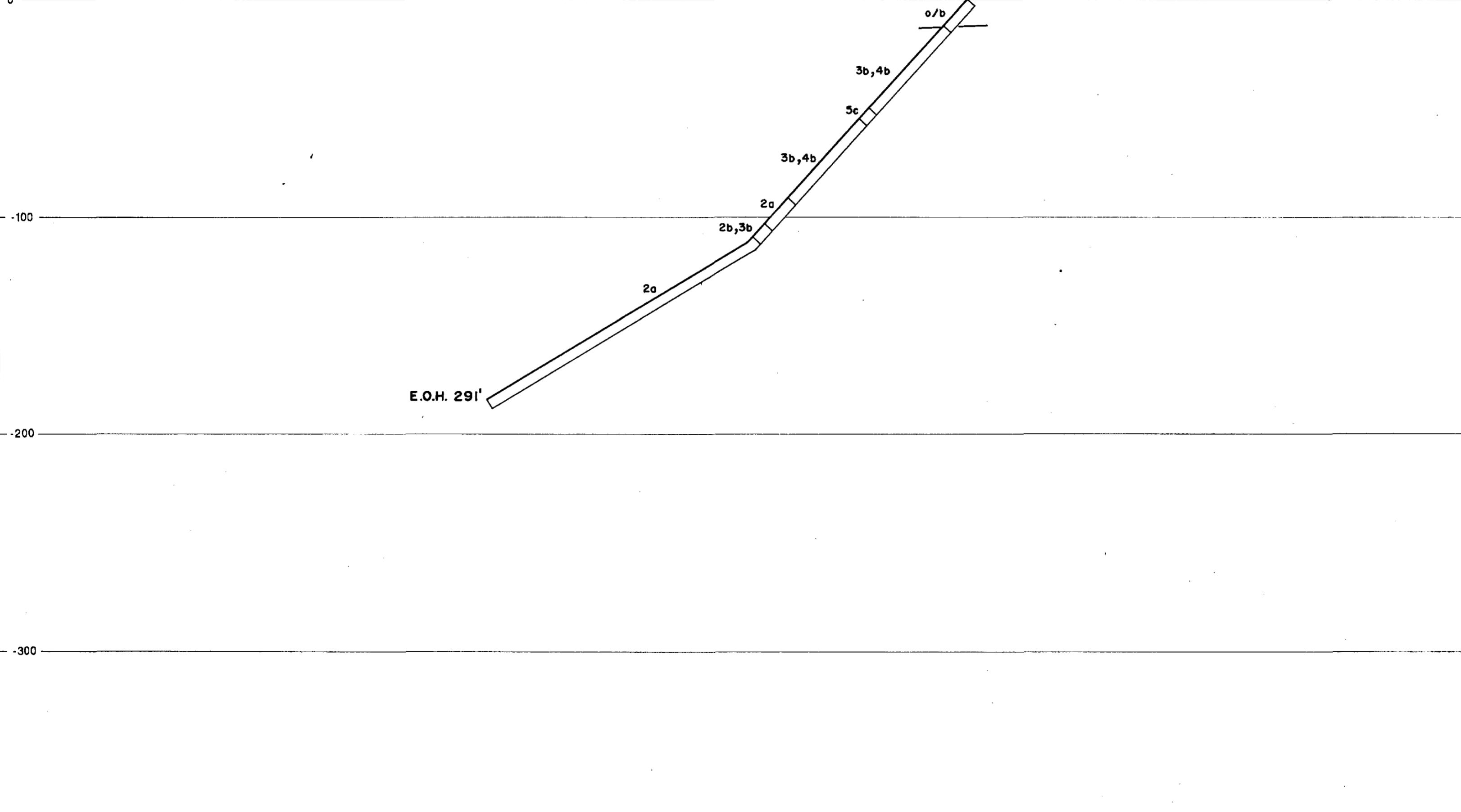
520085W0006 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)

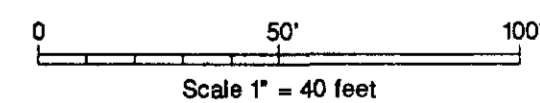


Surface 21N 22N 23N KAS-87A-22



Section bearing 180°

For legend see Figure No. 5



POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
D.D.H. SECTION 56+00W
LOOKING WEST
D.D.H. No. KAS-87A-22

BY: R.H. /R.T.M.
DATE: APRIL 1988
SCALE: 1:430
FIGURE No. 6

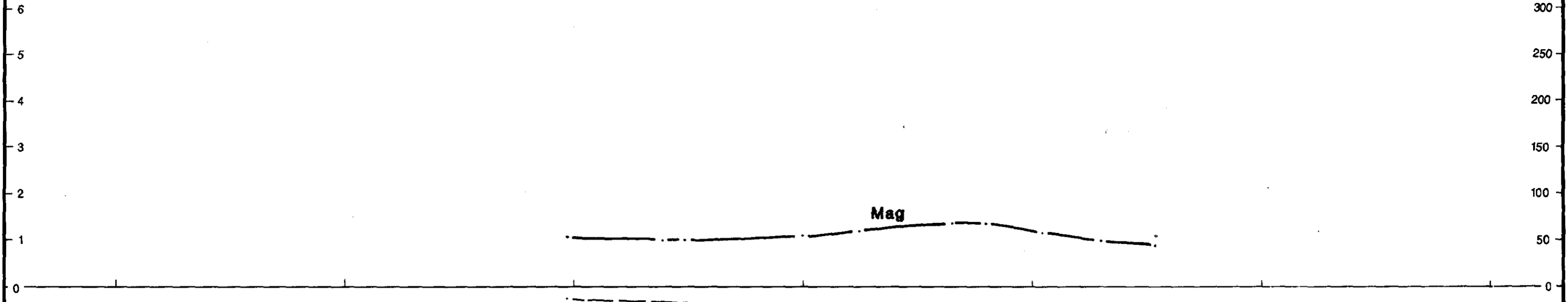
GEOCANEX LTD
TORONTO CANADA



52065W006 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

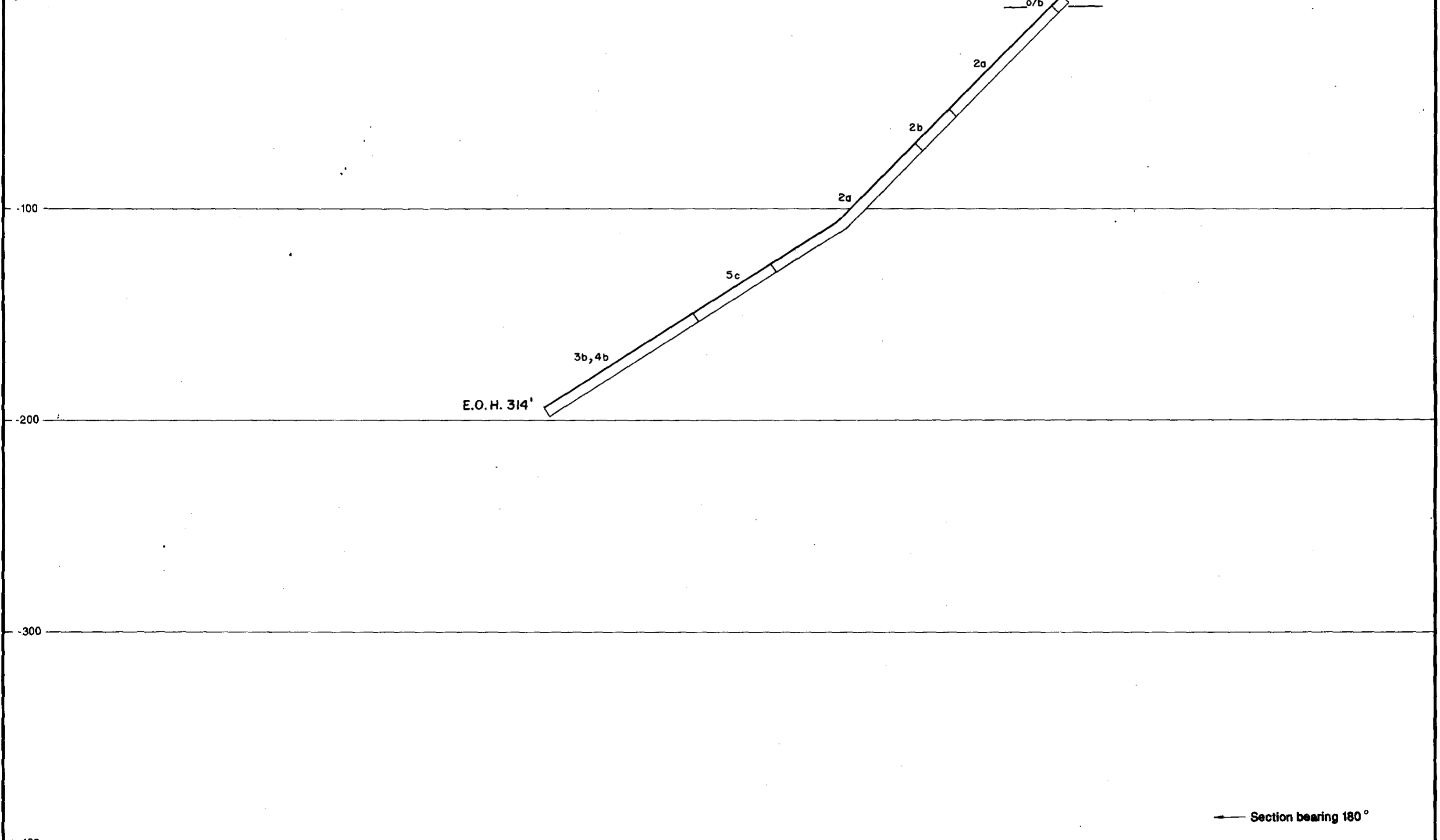
VLF EM Fraser Filtered
Inphase Profile (%)



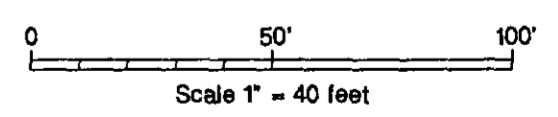
Surface

21N 22N 23N 23+54N 24N

KAS-87A-23



For legend see Figure No. 5



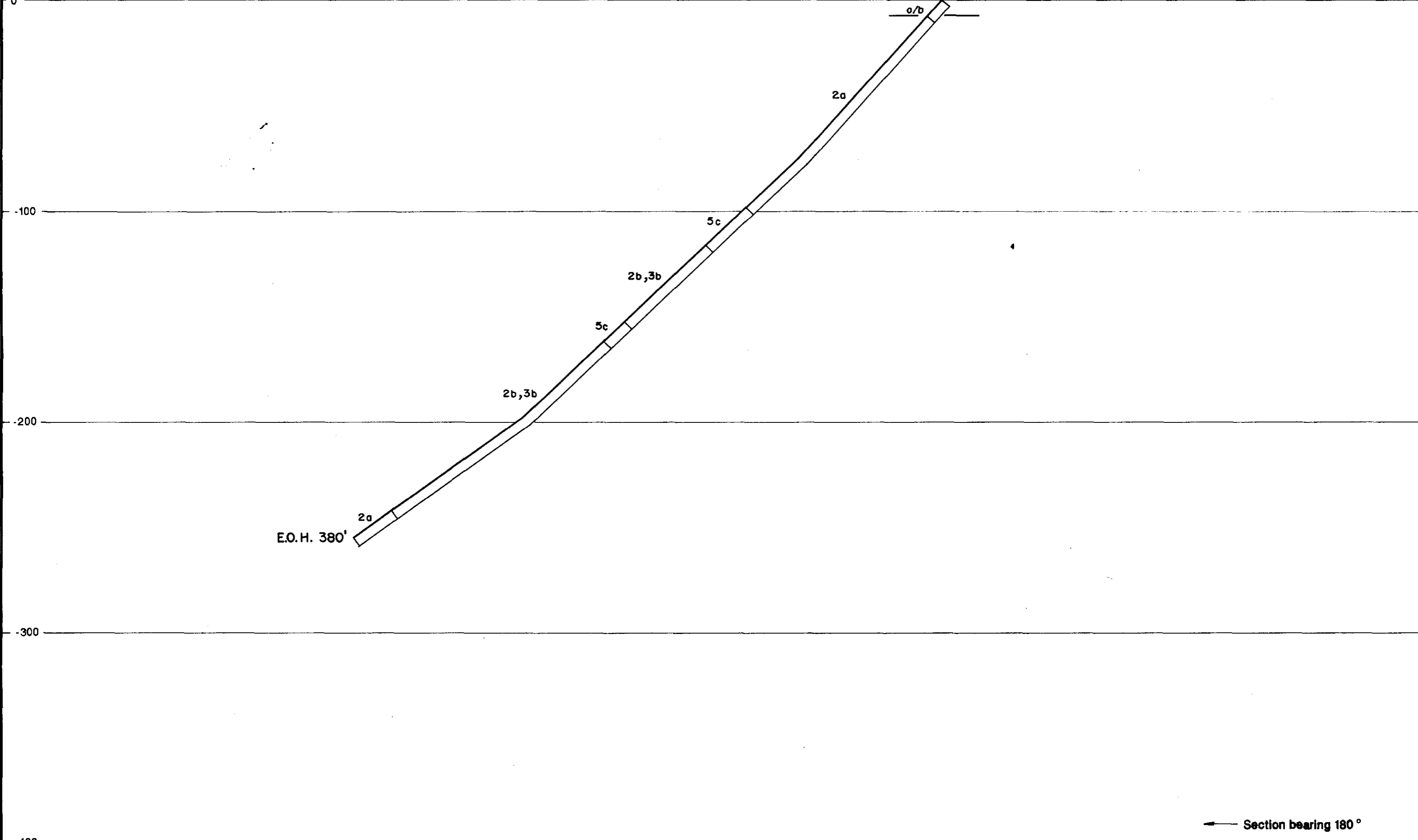
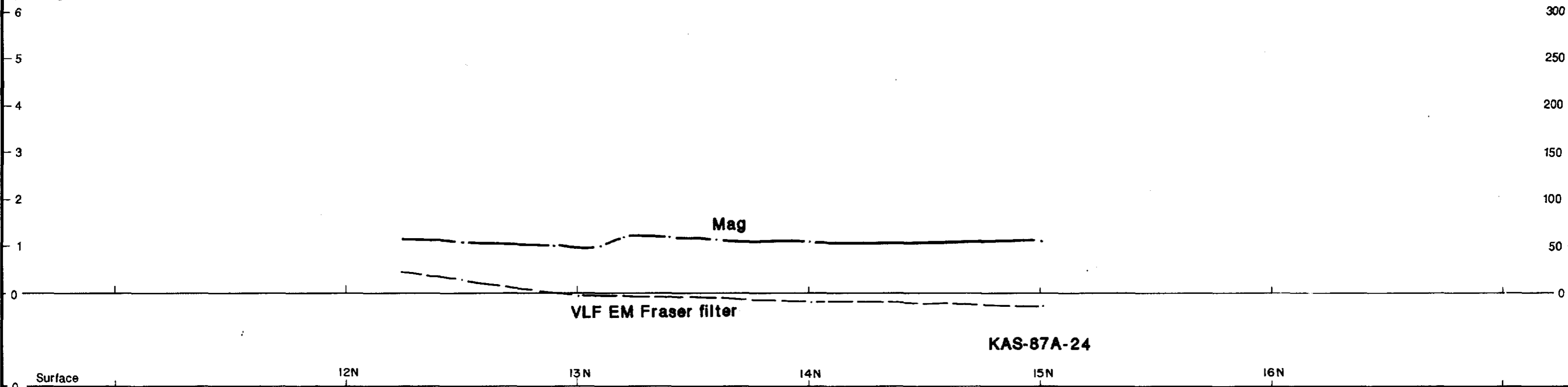
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 44+00W LOOKING WEST	
D.D.H. No. KAS- 87A-23	
	BY: R.H. / R.T.M.
	DATE: APRIL 1988
	SCALE: 1:480
	FIGURE No. 11
GEOCANEX LTD TORONTO CANADA	

[Handwritten Signature]



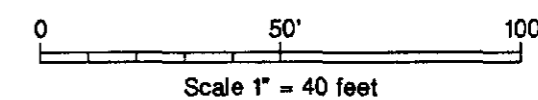
Magnetic Profile
(x 1000 gammas)


VLF EM Fraser Filtered
Inphase Profile (%)



Section bearing 180°

For legend see Figure No. 5

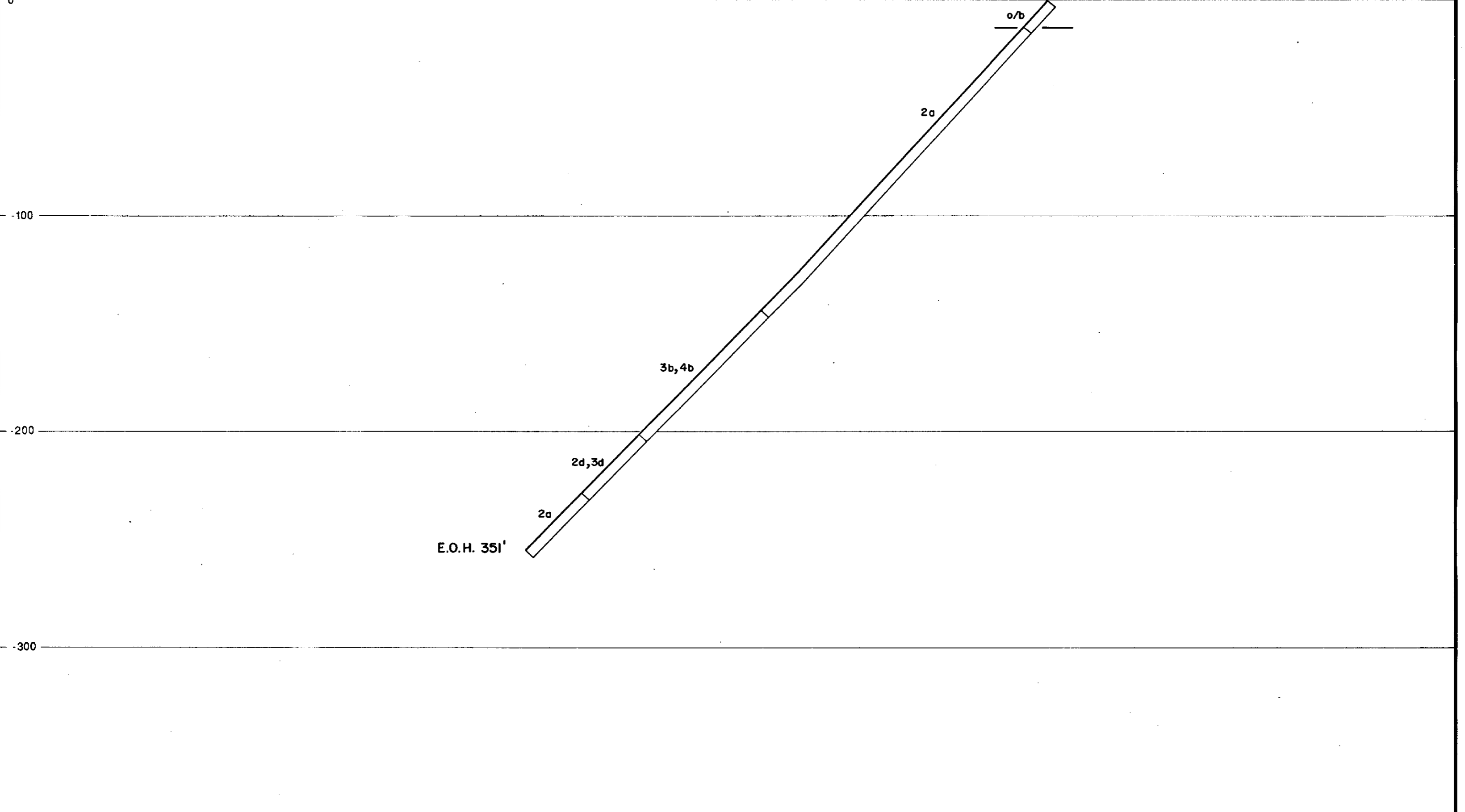
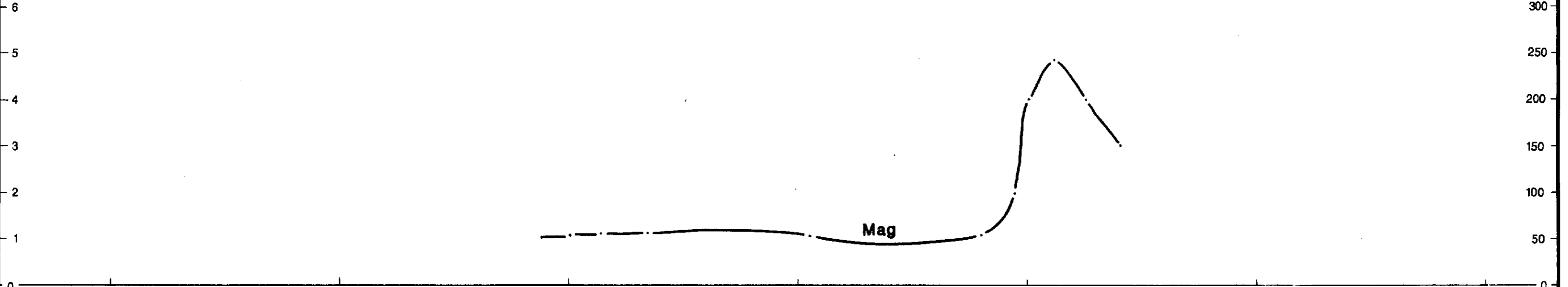


POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 51+00W LOOKING WEST	
D.D.H. No. KAS- 87A-24	
	BY: R.H. / R.T.M. DATE: APRIL, 1988 SCALE: 1" = 400' FIGURE No. 7
GEOCANEX LTD TORONTO CANADA	



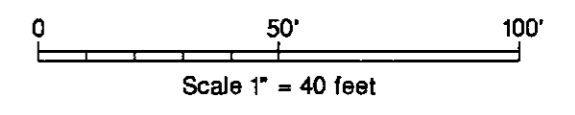
Magnetic Profile
(x 1000 gammas)


VLF EM Fraser Filtered
Inphase Profile (%)



← Section bearing 180°

For legend see Figure No. 5



POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 34+00W LOOKING WEST	
D.D.H. No. KAS- 87A-25	
 GEOCANEX LTD TORONTO CANADA	BY: R.H. / R.T.M. DATE: APRIL 1988 SCALE: 1" = 40' FIGURE No. 13

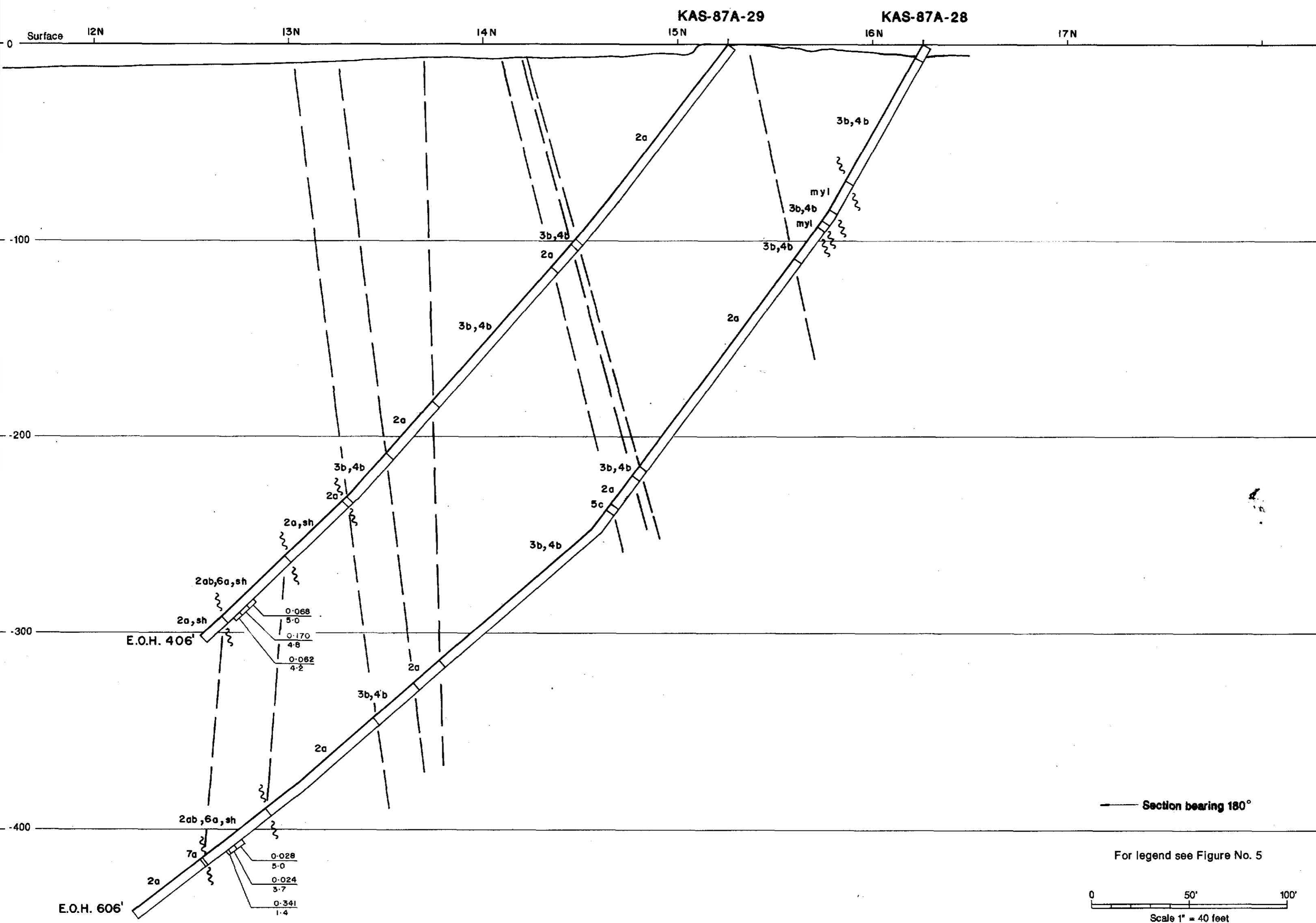
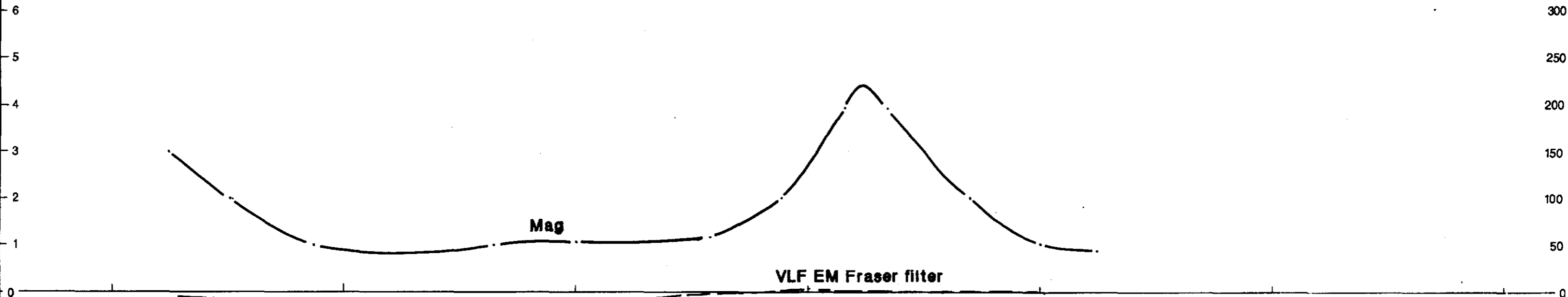
J. Adam



52085W0006 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



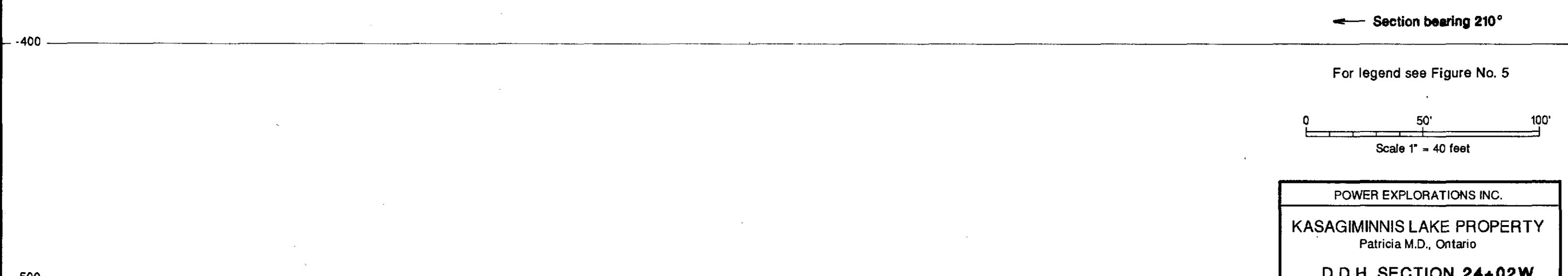
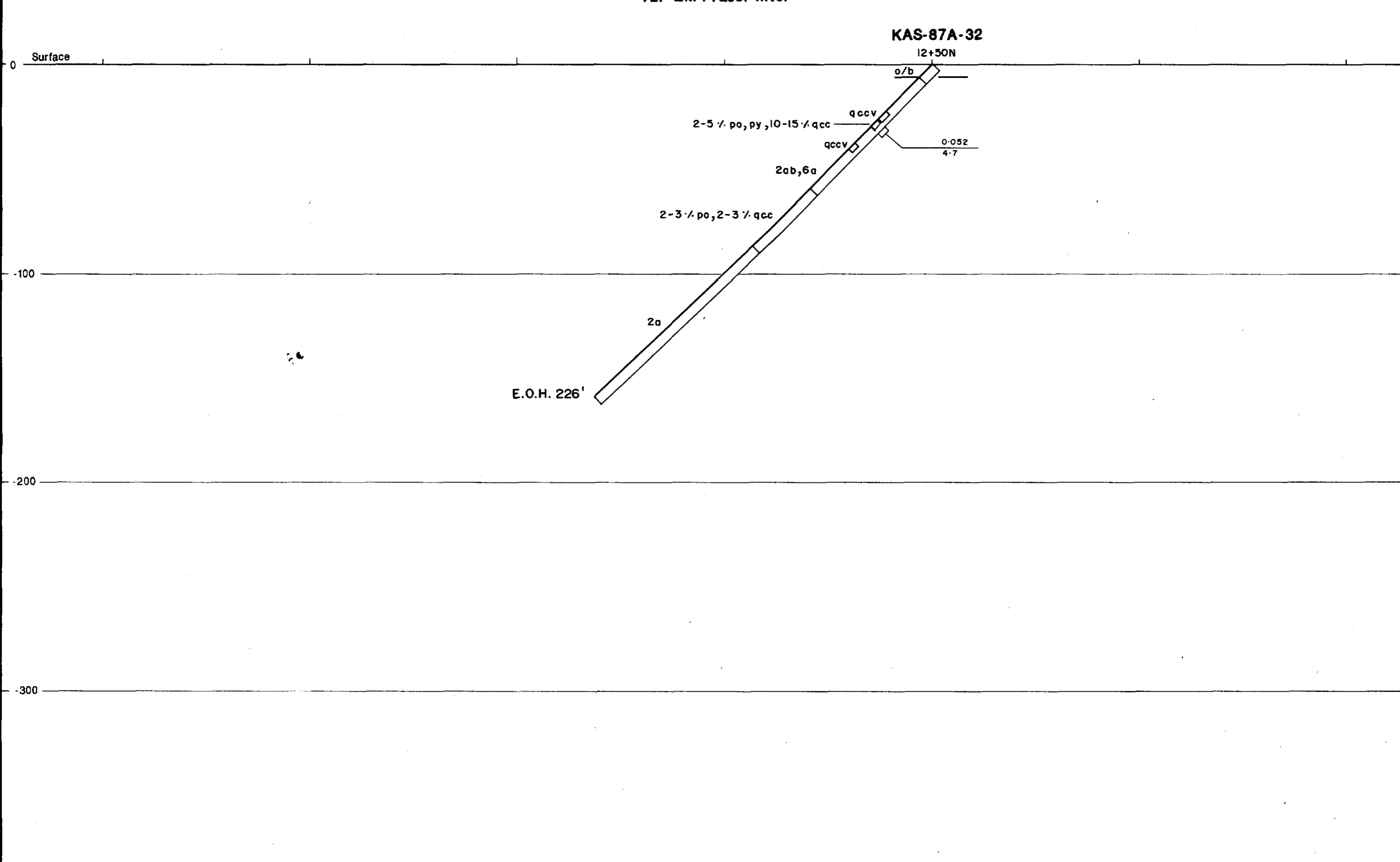
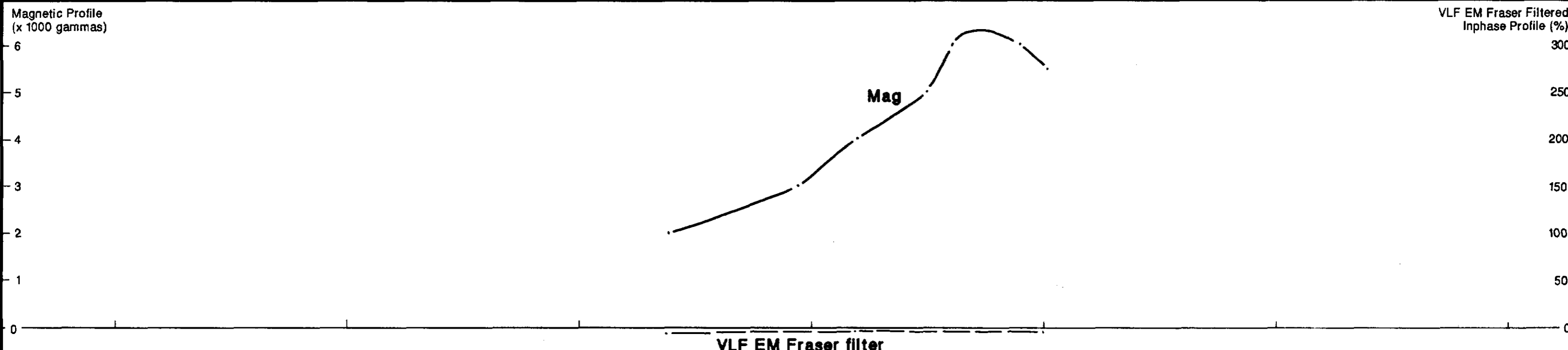
POWER EXPLORATIONS INC.
KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario
D.D.H. SECTION 19+00W
LOOKING WEST
D.D.H. No. KAS- 87A-28 & 29

	BY: R.H. /R.T.M.
	DATE: APRIL, 1988
	SCALE: 1:480
	FIGURE No. 27

GEOCANEX LTD
TORONTO CANADA



520885W0005 14 LITTLE OCHIG LAKE



POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

D.D.H. SECTION 24+02W
LOOKING WEST

D.D.H. No. KAS- 87A- 32

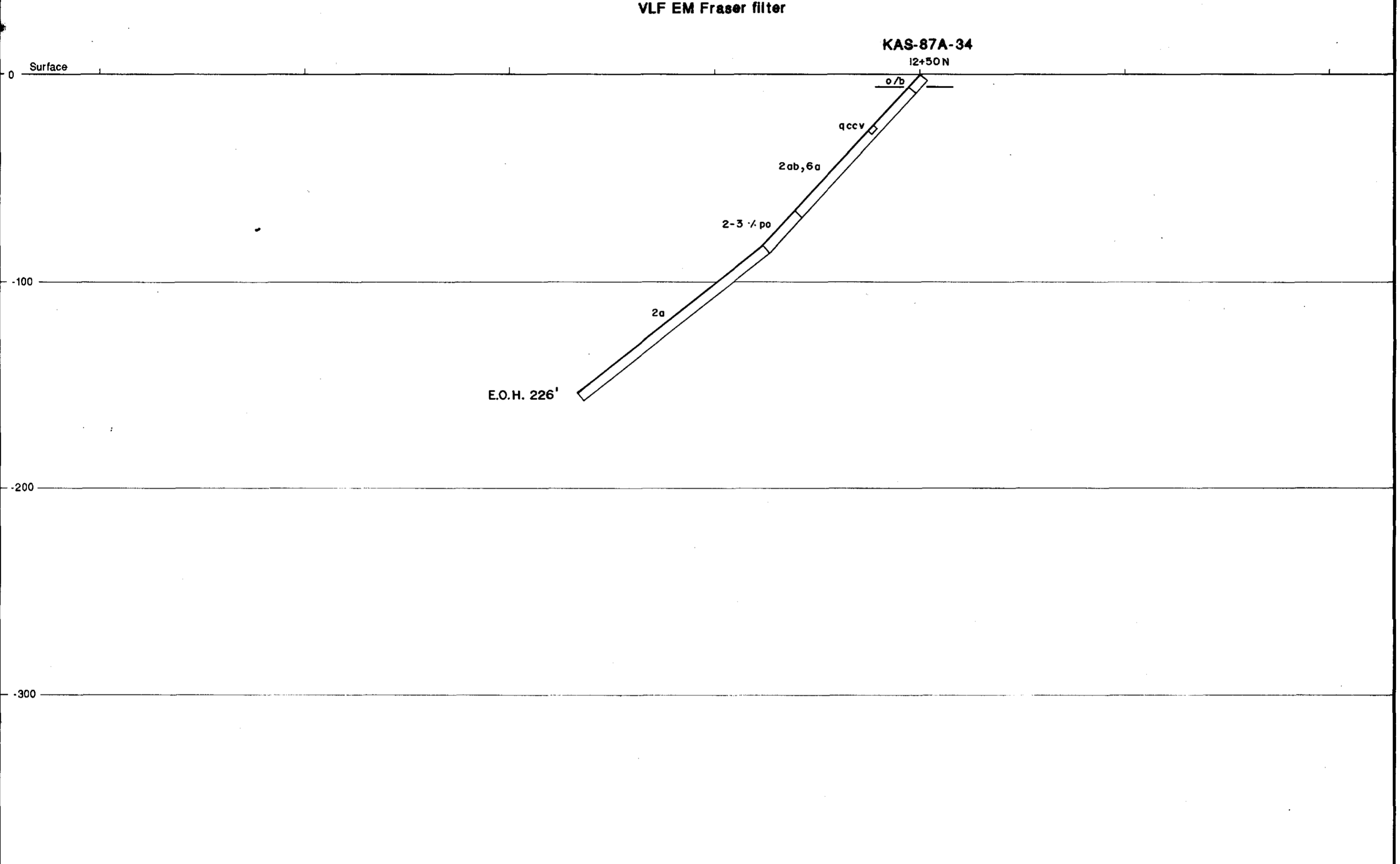
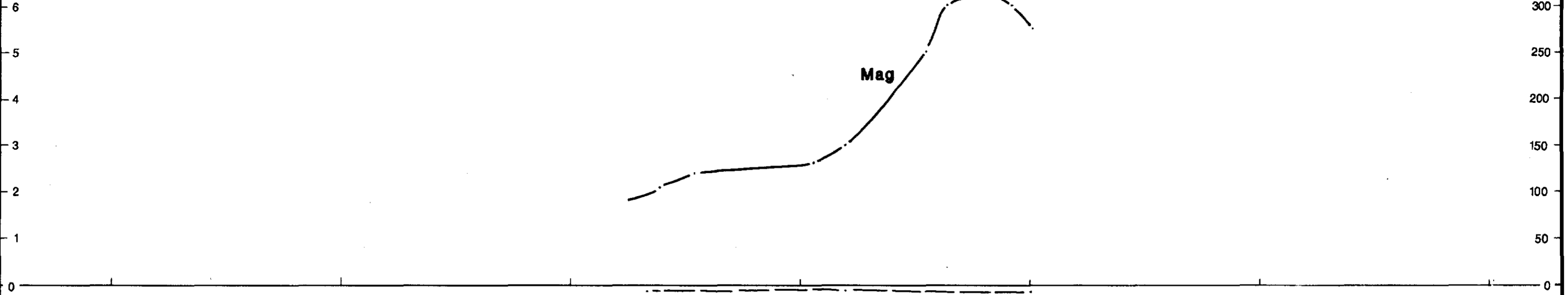
	BY: R.H. / R.T.M.
	DATE: APRIL 1988
	SCALE: 1: 480
	FIGURE No. 19

GEOCANEX LTD
TORONTO CANADA



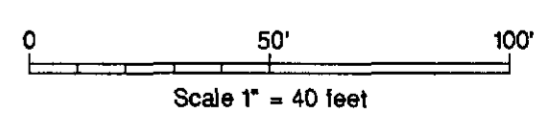
Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



Section bearing 150°

For legend see Figure No. 5



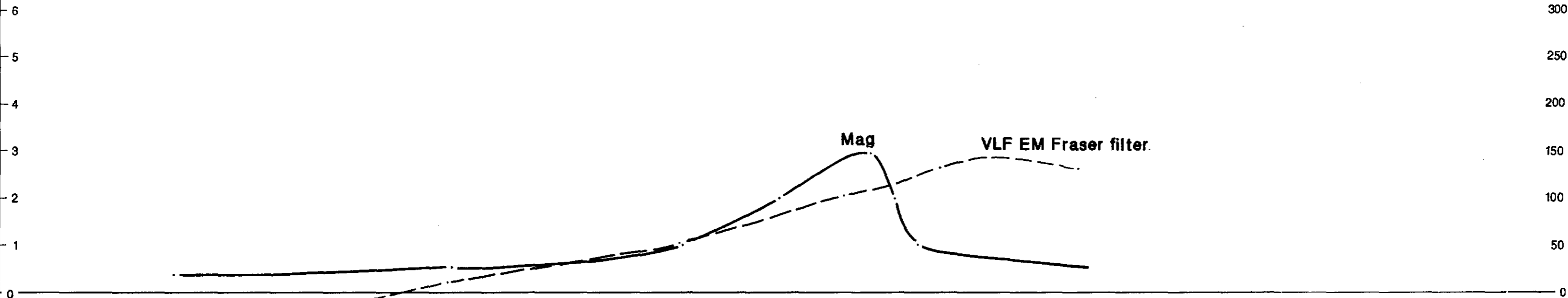
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 24+00W LOOKING WEST	
D.D.H. No. KAS-87A-34	
	BY: R.H. / R.T.M. DATE: APRIL, 1988 SCALE: 1:480 FIGURE No. 21
GEOCANEX LTD TORONTO CANADA	



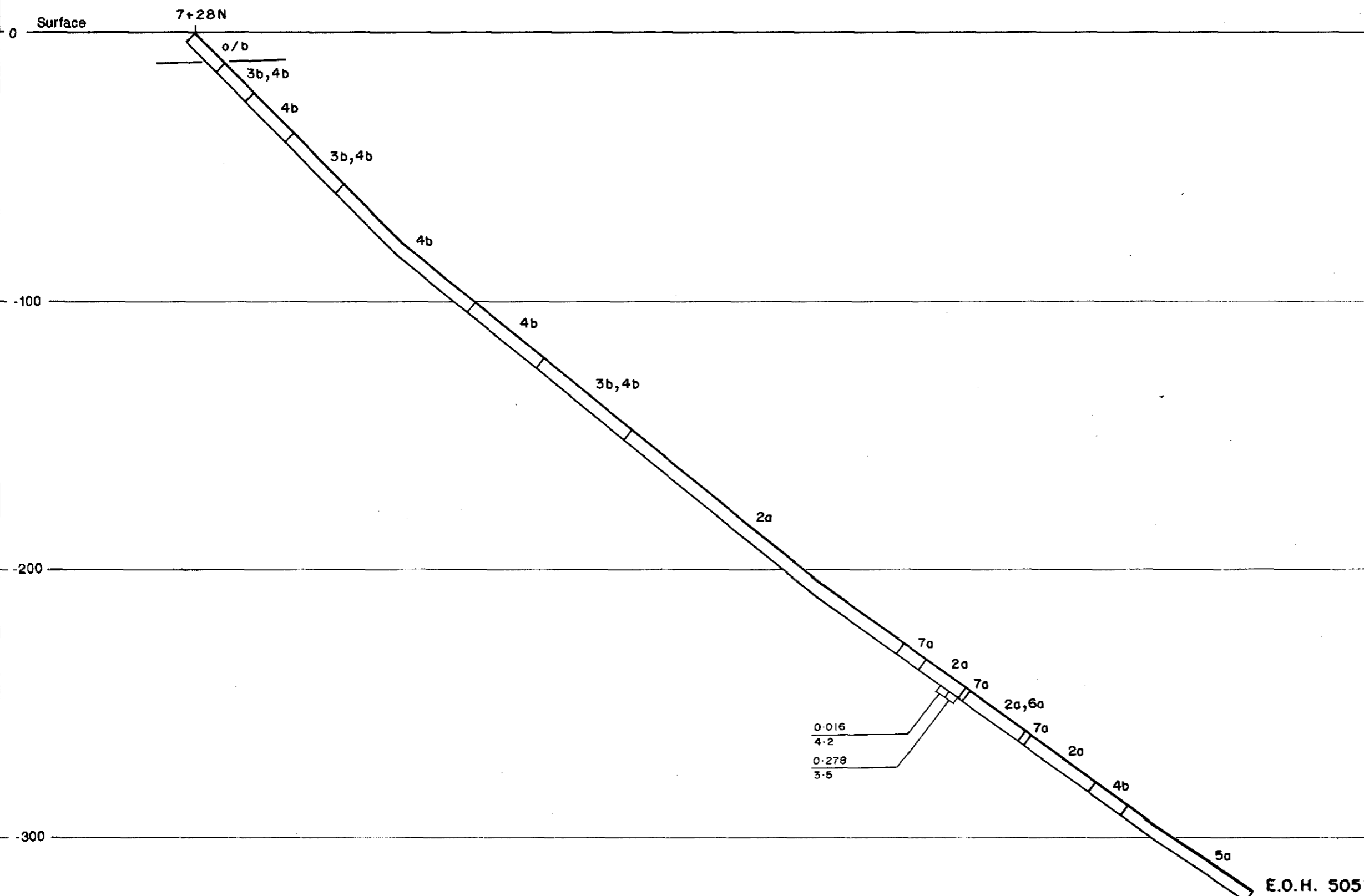
52085W0006 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)

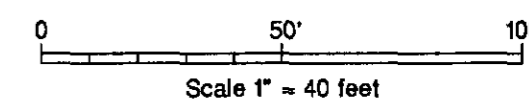


KAS-87A-35

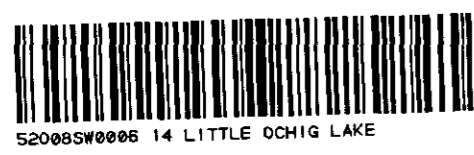


Section bearing 325° →

For legend see Figure No. 5



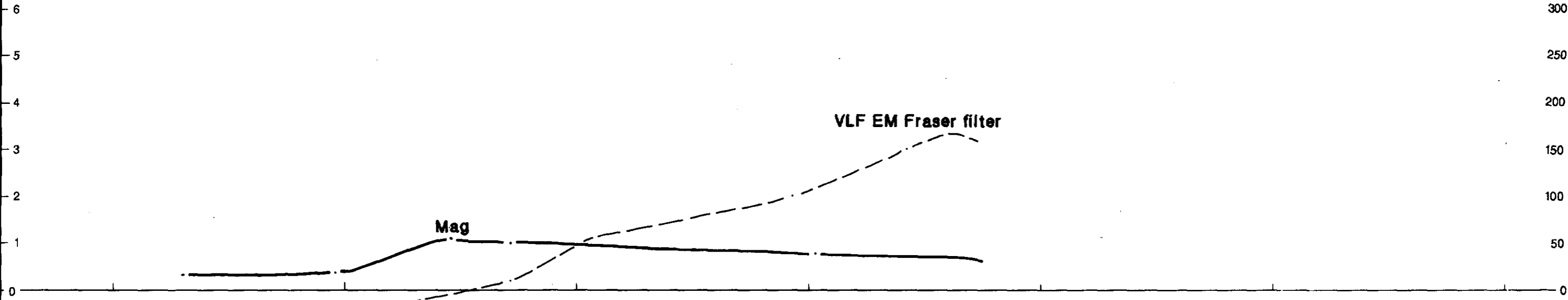
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 12+02E LOOKING WEST	
D.D.H. No. KAS- 87A-35	
	BY: R.H. / R.T.M. DATE: APRIL, 1988 SCALE: 1: 480 FIGURE No. 3B
GEOCANEX LTD TORONTO CANADA	



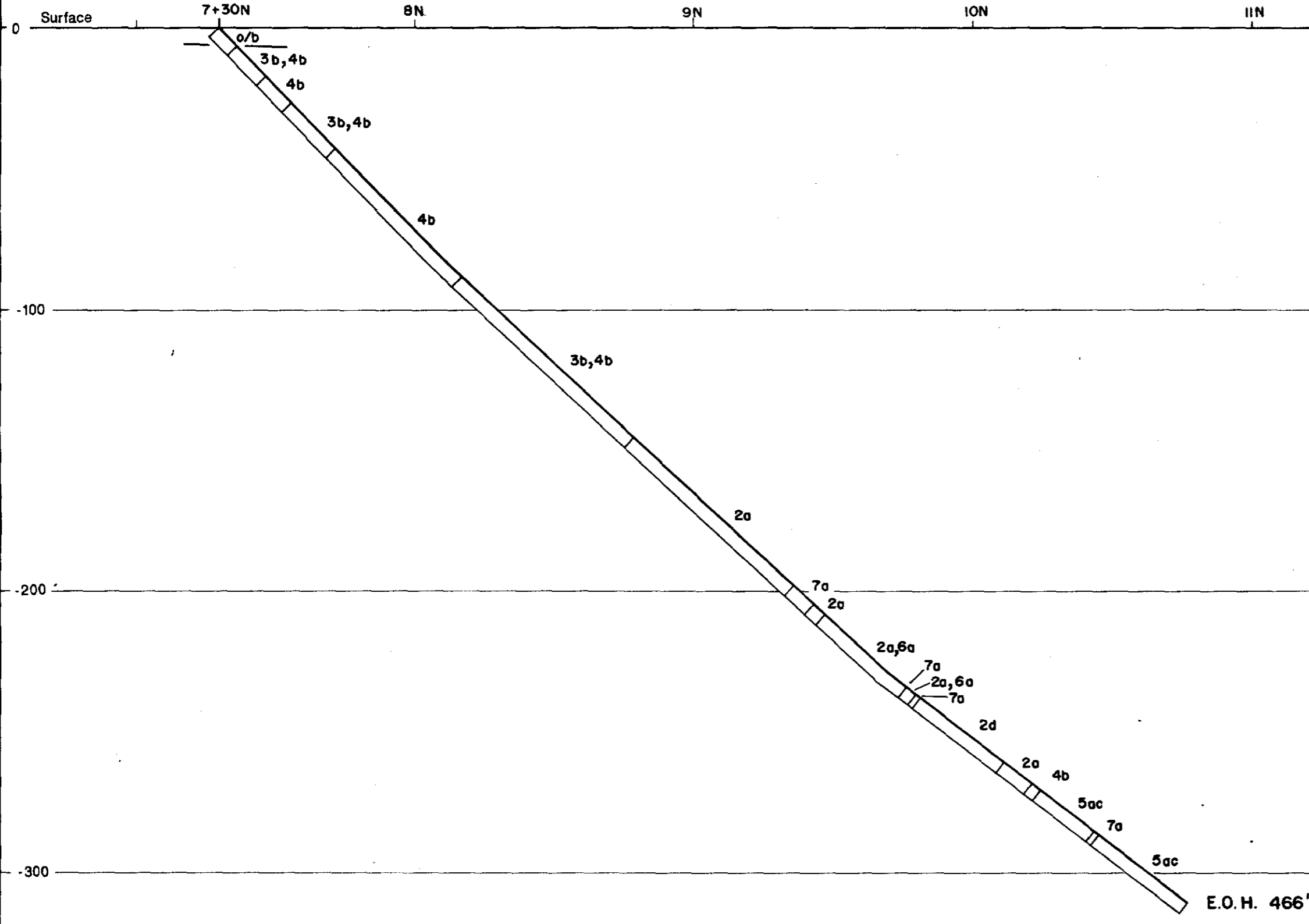
5208950006 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)

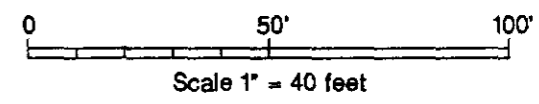



KAS-87A-36



Section bearing 360° →

For legend see Figure No. 5



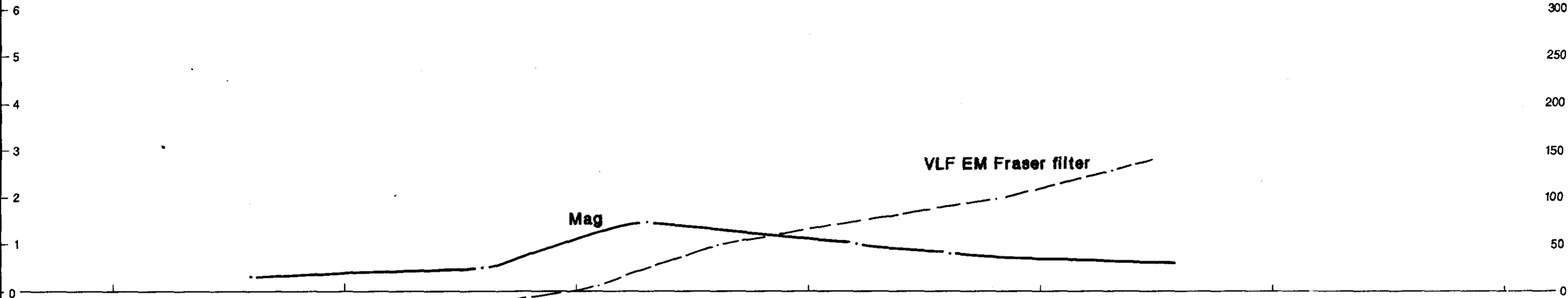
POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY Patricia M.D., Ontario	
D.D.H. SECTION 12+00E LOOKING WEST	
D.D.H. No. KAS- 87A-36	
 GEOCANEX LTD TORONTO CANADA	BY: R.H. / R.T.M. DATE: APRIL, 1988 SCALE: 1" = 40' FIGURE No. 37



5208510006 14 LITTLE OCHIG LAKE

Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



KAS-87A-37

Surface

7+30N

o/b

3b,4b

4b

3b,4b

4b

4b

3b,4b

2a

7a

2a

7a

2a

7a

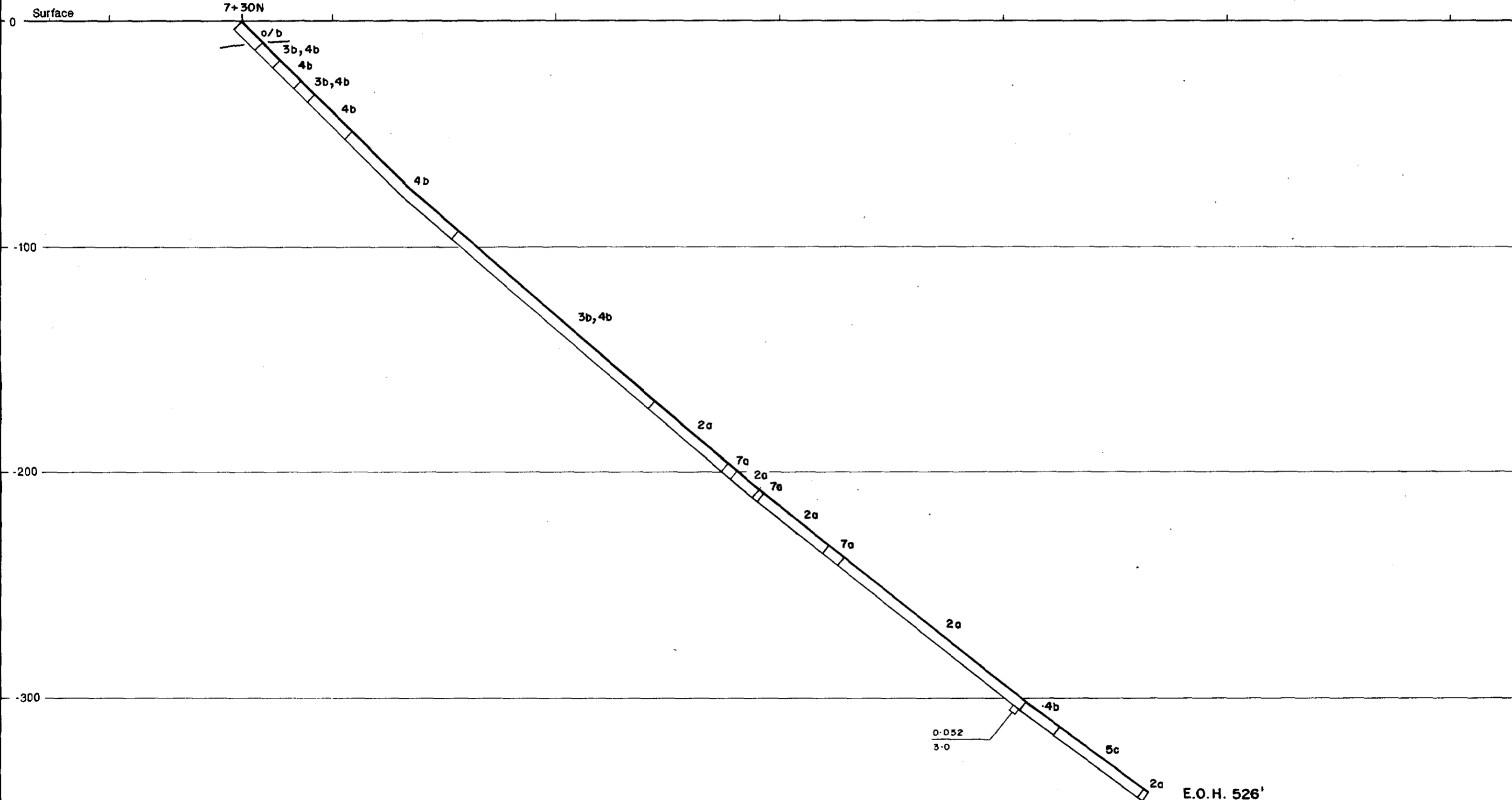
2a

4b

5c

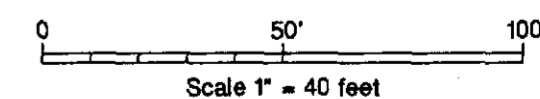
2a

E.O.H. 526'



Section bearing 30°

For legend see Figure No. 5



POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

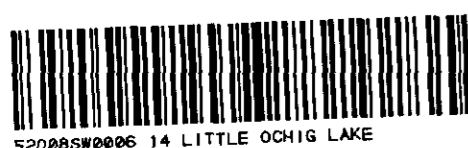
D.D.H. SECTION 12+00E
LOOKING WEST

D.D.H. No. KAS-87A-37



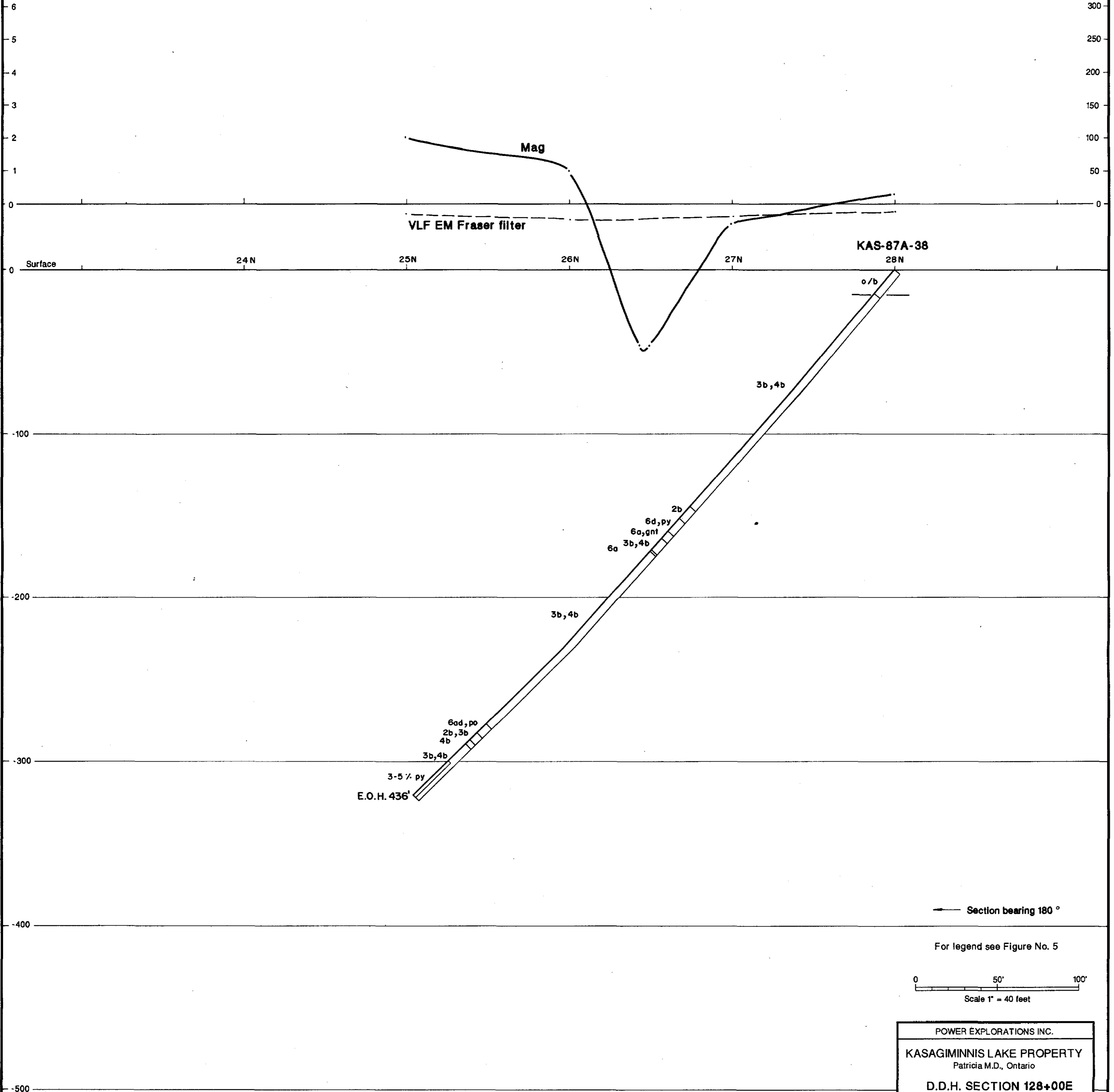
GEOCANEX LTD
TORONTO CANADA

BY: R.H. / R.T.M.
DATE: APRIL, 1988
SCALE: 1:480
FIGURE No. 36



Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



POWER EXPLORATIONS INC.

KASAGIMINNIS LAKE PROPERTY
Patricia M.D., Ontario

D.D.H. SECTION 128+00E
LOOKING WEST

D.D.H. No. KAS- 87A-38

BY: R.H. /RTM.
DATE: APRIL 1988
SCALE: 1:400
FIGURE No. 40

GEOCANEX LTD
TORONTO CANADA

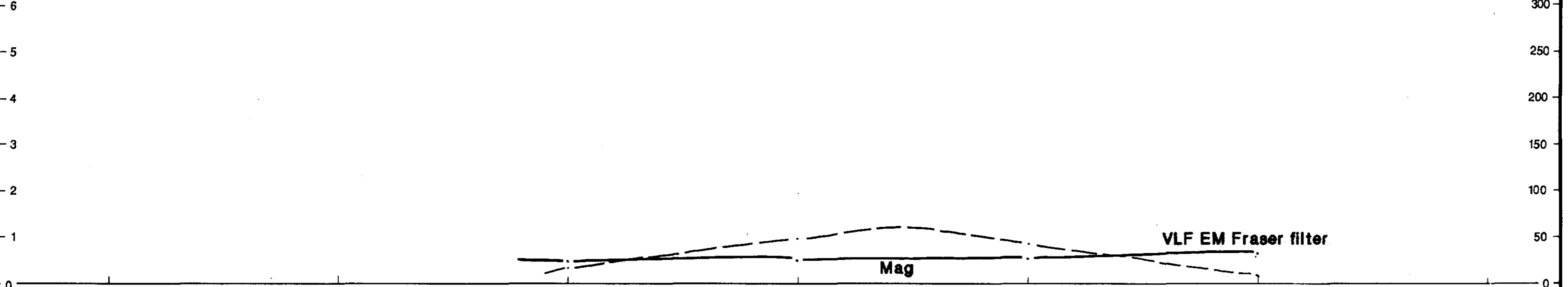


520085W0006 14 LITTLE OCHIG LAKE

520

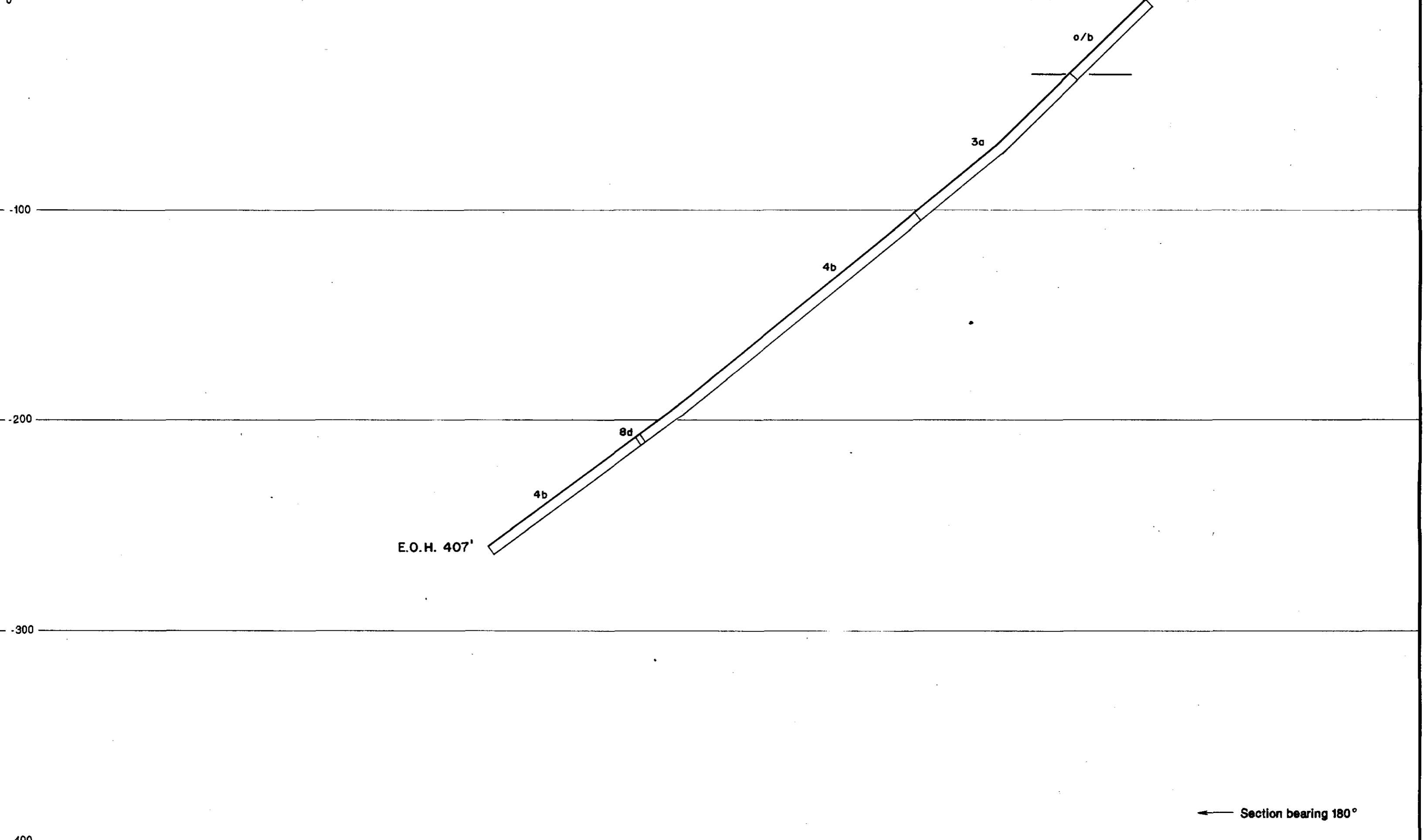
Magnetic Profile
(x 1000 gammas)

VLF EM Fraser Filtered
Inphase Profile (%)



Surface 11N 12N 13N 14N 15N

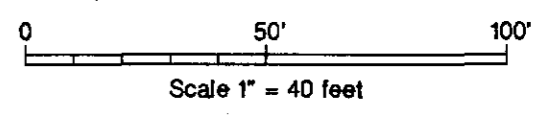
KAS-87A-39



E.O.H. 407'

Section bearing 180°

For legend see Figure No. 5



POWER EXPLORATIONS INC.	
KASAGIMINNIS LAKE PROPERTY	
Patricia M.D., Ontario	
D.D.H. SECTION 120+00E	
LOOKING WEST	
D.D.H. No. KAS- 87A-39	
	BY: R.H. / R.T.M.
GEOCANEX LTD	DATE: APRIL, 1988
TORONTO CANADA	SCALE: 1:480
	FIGURE No. 39



52085W0006 14 LITTLE OCHIG LAKE

