

52007SE0009 52007SE0021 CALEY LAKE

## DIAMOND DRILLING

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## Report No: 14

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WORK PERFORMED FOR: Power Ecplorations Inc.

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]

Cı	AIM NO;	HOLE NO.	FOOTAGE	DATE	Note
Pa	570074	BL-86-1	206'	Oct/86	(1)
		BL-86-2	564+	Oct/86	(1)
		BL-86-3	2071	Oct /86	(1)
Pa	719629	BL-86-4	3001	Oct/86	(1)
		BL-86-5	2631	Oct/86	(1)
Pa	719630	BL-86-6	288'	Oct/86	(1)
Pa	629229	BL-86-7	286'	Oct/86	
		BL-86-8	321 '	Oct /86	(1)
Pa	570078	BL-86-9	457'	Oct /86	(1)
Pa	570077	BL-86-10	210'	Oct /86	(1)
Pa	570086	BL-86-11	250'	Oct /86	
Pa	570085	BL-86-12	212'	Oct /86	(1)
		BL-86-13	3171	0000/00 00t/86	(1)
Pa	570072	BL-86-14	260.81	Oct-Nov/96	(1)
		BL-86-15	2551	Nov/06	(1),
Pa	570073	BL-86-16	296'	Nov/86	(1)

TOTAL

16 DH

4692.81

NOTES: (1) #120-87(filed in August/87)



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REPORT

OF

DIAMOND DRILLING ON

THE BEN LAKE PROPERTY

BANCROFT LAKE AREA

KENORA MINING DIVISION (PATRICIA PORTION), ONTARIO

FOR

POWER EXPLORATIONS INC.

PATRICIA MINING DIV. DECEVVED
л.м. 7181911011112111218141516

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April, 1987

L.M. Jones J.H. Adams



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#### 1.0 SUMMARY

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The 1986 diamond drilling program on Power Explorations Inc. Ben Lake property consisted of 4,961 feet of drilling in 16 holes.

The property straddles a major contact which separates dominantly mafic volcanics to the north from dominantly felsic to intermediate pyroclastics to the south. Two prominent bands of iron formation cross the property from west to east near the contact area.

The 1986 drill program was based on recommendations from the 1984 field and drill reports and on a 1986 property evaluation report by Derry, Michener, Booth and Wahl.

Drill results from the program were generally low. The best gold value of .08 ounces per ton was returned from a hole drilled near a 1984 hole which yielded the same value. This area warrants further drilling.

The 1986 program reconfirmed the widespread distribution of low gold values on the property. Several additional urill targets have been identified.

#### 2.0 INTRODUCTION

This report describes the results of a 4,961 foot diamond drilling program carried out from October 12 to November 3, 1986 on the Ben Lake Property of Power Explorations Inc. (Fig. No. 1). **W.** ...

Personnel involved in the program were Lawrence M. Jones, geologist, of Collingwood, Ontario and Robert Lindsay, field assistant, of Thunder Bay, Ontario.

#### 3.0 PROPERTY DESCRIPTION

The wholly-owned Ben (Bancroft) Lake property is comprised of 33 contiguous mining claims in the Patricia Mining District (Fig. No. 2) as follows:

	Claim Numbers	Asses	ssment Credits	Date of Recording
			(days)	
Pa	570068-570086	incl	Maximum	July 7, 1981
Pa	629227-629230	incl	Maximum	August 17, 1982
Pa	719628-719634	incl	Maximum	December 5, 1983
Pa	903533-903524	incl	Nil	May 30, 1986

#### 4.0 LOCATIONS, ACCESS AND SERVICES

The Ben Lake Property, on the south and east shores of Ben (Bancroft) Lake, is approximately 22 miles southeast of the town of Pickle Lake and 14 miles west of Highway 599. Highway 599 is a paved road joining Pickle Lake to the town of Ignace on the Trans Canada Highway 200 miles to the south.

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Access in summer is by float plane from Pickle Lake or by water from Highway 599 via Matapesatakun Bay on Lake St. Joseph, a distance of approximately 30 miles. In winter, access may be gained by ski-equipped aircraft from Pickle Lake, or via snowmobile on a winter road from Highway 599.

#### 5.0 PHYSIOGRAPHY AND VEGETATION

Relief on the claim group is relatively gentle, less than 50 feet. In the central part of the property jack pine and black spruce cover a series of gentle ridges trending east-west along the southern shore of Bancroft Lake. In the northern and southern portions of the claim group, isolated islands of outcrop are separated by black spruce-tamarackalder swamps. Bancroft Lake extends into the northwest portion of the claim group and underlies a major part of four claims.

#### 6.0 PREVIOUS WORK

In 1954, prospector Ben Ohman discovered gold in iron formation on the property now held by Power Explorations Inc. Trenching by Mr. Ohman in the following 10 years resulted in the discovery of gold along 3 bands of iron formation.

In 1963, J. Payton of Pickle Crow Gold Mines Ltd. sampled several of the trenches and reported values of up to 4.07 ounces per ton of gold over 16 inches and 2.86 ounces per ton of gold over 11 inches. UMEX drilled a hole to test an airbourne geophysical anomaly on the present property in 1973. Iron formation is assumed to have been intersected, however, the company apparently did not assay for gold.

In 1982, 493217 Ontario Ltd. conducted VLF-EM and magnetic surveys on the original Ben Lake group of 23 claims. The surveys were by pace and compass with readings taken at 100 foot intervals along lines spaced 400 feet apart. Limited trench sampling was carried out at this time.

Mr. C. Von Hessert prepared a property evaluation report for Moss Resources Ltd. in 1982 and recommended a comprehensive field program followed by diamond drilling. This program was carried out in 1983-1984.

In the fall and winter of 1983-1984 a cut picket grid was established with stations at 100 foot intervals along lines 200 feet apart. A magnetic survey was carried out over the entire grid and a VLF-EM survey was completed over those areas not covered in the 1982 survey. I.P. was run on alternate lines.

In the spring of 1984, Geocanex Ltd., under contract to Moss Resources Ltd., carried out detailed mapping and sampling of 35 trenches; prospecting and geological mapping of the grid; and humus sampling over selected areas of the property. This was followed by a 5,000 foot diamond drilling program in the fall of 1985 to test prospective targets outlined by the previous surface program.

Power Explorations Inc. accquired the property in 1986 and engaged Derry, Michener, Booth and Wahl to prepare a property evaluation report. The report recommended further field work and 5,000 feet of additional diamond drilling.

The current program was based on recommendations from this report and on recommendations from the 1984 Geocanex drilling report.

#### 7.0 REGIONAL GEOLOGY AND ECONOMIC MINERALIZATION

The Pickle Lake area is located within the Uchi Subprovince, a part of the Superior Province in 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. Goldbearing quartz veins were also mined within quartz-albite porphyry sills near the contact of mafic volcanics and iron formation.

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

St. Joe Canada's Golden Patricia property is reported to have an estimated 500,000 ounces of gold reserves with a grade of 0.58 ounces of gold per ton. The gold mineralization occurs in a quartz vein at a contact between a mylonitized unit and sheared mafic volcanics in close proximity to banded iron formation (Northern Miner Magazine, September, 1986). The initial mining project has drill indicated reserves of 283,000 tons grading 0.88 ounces of gold per ton and is expected to produce 40,000 ounces of gold annually (Northern Miner, March 23, 1987).

#### 8.0 PROPERTY GEOLOGY

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The geology of the entire Ben Lake property is described in a separate report by J.H. Adams dated November 30, 1984.

The property straddles a major contact which separates dominantly mafic volcanics to the north from Jominantly felsic to intermediate pyroclastics to the south. The rocks generally strike N65°E and dip 70 to 85°S. Tops indicate the rocks become younger to the south. Eight zones of actual or potential gold mineralization were outlined in J.H. Adams report on field activities. Five of these were drilled in the August-October, 1984 drilling program.

Most outcrop on the property lies near the baseline in the central part of the property and exposes the previously mentioned contact area and a group of mixed volcanics, volcanoclastics and clastic and chemical sediments. Most significant of the latter are two major parallel bands of oxide facies iron formation which traverse the property from The bands unite in the east to form a grid west to east. single band up to 200 feet in width. The northern and southern bands are designated Zones 2 and 3 respectively and the area where the bands unite is referred to as Zone 4. Zone 2 is subdivided into area "C" which is exposed in a series of trenches around L18+00E and 20+00E; and area "D" which was outlined in the 1984 drill program around L32+00E and 40+00E. Similarly, Zone 3 is subdivided into area "E", exposed in trenches between L8+00W and 2+00W at about 10+00S; and area "F", outlined by drilling around L28+00E.

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The magnetic expression of these zones suggests the bands may be limbs of an antiform plunging to the east and dipping to the south. A number of narrower and less continous bands of iron formation and associated sediments flank the main band between L4+00E and 20+00E.

The area between the two major bands is occupied mainly by mafic volcanics and lesser amounts of mafic intrusives and tuffs. Rare, slightly deformed pillows indicate tops to the south. Subconcordant quartz feldspar porphyry sills are common and have been traced over 500 feet.

The southern band of iron formation is bounded to the south by mafic flows and tuffs which range from approximately 250 feet at L16+00E, to a few feet in L8+00W. The southern boundary of this unit is the major contact separating the mafic volcanics to the north from the dominantly felsic and tuffaceous volcanics to the south.

In the western part of the property, rocks immediately south of the contact are characteristically very cherty, felsic to intermediate tuffs and tuffaceous sediments. In the east, the tuffs are intermediate in composition and lack chert. In the central part of the property near L16+00E the tuffs are more intermediate in composition and the proportion of chert high. Two minor bands of iron formation occur in this area, which has been designated Zone 5. Zone 5 is subdivided into area "E", immediately south of Zone 3 area "E"; and area "G" between L10+00E and 20+00E, from 12+00S to 16+00S. - 11 -

Rocks immediately north of the main northern band of iron formation are argillaceous and banded siliceous sediments with intermixed tuffs. Thickness of this unit in the western end of the property is unknown; however, in the east, hole BL-84-4 intersected 160 feet of banded siliceous sediments and felsic tuff immediately north of the northern band of iron formation.

A large wedge of coarse grained mafic flows and intermediate to mafic tuffs occurs within the sediments described above. This unit is approximately 300 feet wide in the western end of the property and has been traced on surface as far east as L20+00E. It appears to pinch out west of L38+00E, where it occurs as a narrow band of intermediate and mafic tuff in hole BL-84-11, but was not encountered in the deeper penetration of BL-86-2.

Between L4+00E and 16+00E a band of sediments lies between the northern edge of the wedge of mafic flows and tuffs, and a band of felsic tuffs to the north. Zone 1 occurs here in argillites and siliceous sediments and wackes. Zone 1 area "A" is between L5+00E and 11+00E at 3+00S, and is exposed in trenches. Area "B" of Zone 1 as outlined by drilling in the 1984 program, lies north of Zone 4, between L48+00E and 56+00E.

The major bands of metasediments and tuffs north of the main iron formation bands are bounded to the north by massive mafic to intermediate flows averaging 500 to 600 feet in width. Zone 6 designates an isolated outcrop grouping near L50+00E between 42+00S and 44+00S, and is part of an extensive east-west trending magnetic and I.P. zone. It consists mainly of volcanoclastic units, including felsic tuff, lapilli tuff, and intermediate to mafic agglomerate. Hole BL-86-8 also encountered minor iron formation and quartz feldspar porphyry here. Zone 7 is a 50 to 100 foot wide band of felsic volcanics within mafic flows, between L8+00E to 34+00E, from 2+00N to 3+00N.

Zone 8 is defined by a major magnetic feature which extends from L8+00E to 72+00E at 16+00N. Surface exposure near line 70+00E shows this feature to be caused by 2 narrow bands of iron formation. Between L54+00E and 32+00E the zone exhibits a much weaker magnetic response.

#### 9.0 SUMMARY OF PROPERTY GEOPHYSICS

In the fall and winter of 1983-1984, a grid was established with stations at 100 foot intervals along lines 200 feet apart. A magnetic survey was carried out over the entire grid and a VLF-EM survey was carried out over those areas of the property which weren't covered in a 1982 survey done by 493217 Ontario Limited. An Induced Polarization survey was done on alternate lines.

The results of these surveys were reported in detail by J.W. Kieley in his report dated January 16, 1984, to Moss Resources Ltd. To summarize his report, three discrete zones were outlined. These zones are typically magnetic, high in apparent chargeability, low in resistivity, and contain multiple horizons within each zone.

The most northerly of these lies between L44+00E near 25+00N to L68+00E near 20+00N. The main anomalous zone on the property lies south of the baseline, as a continous and magnetically anomalous zone between L8+00W and 70+00E. The third zone is situated approximately 3,000 feet south of the baseline between L36+00E and 62+00E.

#### 10.0 DRILLING PROGRAM

#### 10.1 Description of Program

Sixteen holes were drilled between October 12 and November 3, 1986. A total of 4,691 feet was drilled by Midwest Drilling, a Division of Germac Enterprises Ltd. Drilling was done on two 12-hour daily shifts. The B.Q. core was split on site and shipped to Bondar Clegg and Co. Ltd. in Ottawa for fire assay. Core was stored at the base camp at L22+00E,4+00N on the Ben Lake grid.

All hole casings were pulled, except for ten feet of casing which was deliberately left in hole BL-86-15. This hole, at L66+00E,12+00S was found to make water.

#### 10.2 Discussion of Results

Table 1 presents in chart form a summary of targets and locations of all holes from this program as well as a summary of rock units intersected and significant assay results. Figure No. 3 shows drill hole projections and assay highlights from the 1986 drill program. Drill sections and legend are located in appendix D and drill logs are compiled in Appendix C.

#### 10.2.1 Area "A" Zone 1

BL-86-10 was drilled at 7+00E,4+00S to test for the possible western extension at depth of zone 1 area "A" gold mineralization (Fig. No. 3).

TABLE I	SUMMARY	TABLE	OF	DRILL	HOLE	DATA

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Hole #	Location	Depth	Target	Intersected
BL-86-1	L 40+00E, 4+19.5S	206 ft.	Eastern extension of mineralized Horizon encountered in BL-84-11.	Mafic tuffs, mafic flows, quartz feldspar porphyry amphibolite, greywacke banded iron formation.
				.015 oz/ton 131.1'- 132.5'
BL-86-2	L 38+00E 6+63S	564 ft.	<ul> <li>a) Mineralized horizon 200ft below same intercept in BL-84-11.</li> <li>b) Zone 3 iron Formation.</li> </ul>	Mafic flows, amphibolite, quartz feldspar porphyry mafic to intermediate tuff, banded iron formation mafic tuff, greywacke.
				.008 oz/ton 131.0'-135.8' banded iron formation .016 " 167.8'-169.3' graphitic sediment .021 " 169.3'-174.4' banded iron formation .083 " 212.1'-216.1' " " "
BL-86-3	L 32+00E 1+46N	207 ft.	Felsic volcanics with minor gold values in quartz-tourmaline veins (0.35 oz/ton) good I.P. response.	Mafic flows, mafic, intermediate and felsic tuffs, i quartz feldspar porphyry, greywacke. .024 oz/ton 51.1'- 52.1' pyrite coated fracture i
				in intermediate tuff.
BL-86-4	L 42+00E 19+50N	300 ft.	Good VLF conductors axis in large mag gap, with coincident gold in humus (30 ppb).	Greywacke, sheared greywacke, mafic tuff intermediate to felsic tuff.
				No significant assays.
BL-86-5	L 44+00E 27+50N	263 ft.	Mag high and VLF conductor axis with a cluster of minor gold from soil geo-	Mafic to intermediate tuff, greywacke, mafic tuff, intermediate to felsic tuff.
			chemistry.	No significant assays.
BL-86-6	L 48+00E 16+80N	288 ft.	Same VLF conductor axis as BL-86-4, same mag. gap, nearby anomalous soil	Greywacke, quartz feldspar porphyry, mafic tuff, mafic sills.
			2000/18/18/19	No significant assays.
BL-86-7	L 52+00E 54+50S	286 ft.	VLF axis near mag. high, chargeability anomaly.	Greywacke, mafic tuffs, mafic flows, garnetiferous sediment, amphibolite.
				No significant assays.

TABLE I

SUMMARY TABLE OF DRILL HOLE DATA (Cont'd)

Hole #	Location	Depth	Target	Intersected
BL-86-8	L 50+00E 44+25S	321 ft.	Magnetic high associated with VLF axis in Zone 6.	Banded iron formation, greywacke, garnetiferous sediments, mafic, intermediate and felsic tuffs, mafic and intermediate lapilli tuffs, mafic flows quartz diorite, quartz feldspar porphyry.
				No significant assays.
BL-86-9	L 20+00E 5+25S	457 ft.	Eastern extension of a horizon which yielded .1 ounces per ton over 2 feet in trench. Zone 2 iron formation.	<pre>Mafic flow, banded iron formation, graphitic sediments, quartz feldspar porphyry, diorite greywacke, mafic and intermediate tuffs .024 oz/ton 287.6'- 288.6' quartz-carbonate-</pre>
BL-86-10	L 7+00E 4+25S	210 ft.	Western extension of Zone 1 Area "A" mineralization.	Amphibolite, greywacke, quartz feldspar porphyry argillaceous sediment, graphitic sediment, mafic I tuff, banded iron formation. No significant assays.
BL-86-11	L 8+00W 11+50S	250 ft.	Western extension of Zone 3 Area "A" mineralization.	Tuffaceous sediment, argillaceous sediment intermediate intrusive, mafic intermediate and felsic tuffs, mafic flow. .021 oz/ton 212.5'- 213.5' zone from 212.5'- 213.1' with 60-70% pyrite.
BL-86-12	L 10+00E 15+00S	212 ft.	Western extension of mineralized horizon encountered in hole BL-84-9 Zone 5, Area "G".	Greywacke, tuffaceous sediment, mafic flows mafic, intermediate and felsic tuffs. .013 oz/ton 191.3'- 193.0' mafic tuff with 5-10% pyrrhotits, 3 - 5% pyrite.
BL-86-13	L 12+00E 15+31S	317 ft.	Extension at depth of mineralized horizon encountered in BL-84-9 Zone 5, Area "G"	Greywacke, intermediate intrusive, mafic flow, mafic tuff, intermediate tuff, felsic lapilli tuff No significant assays.
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#### TABLE I SUMMARY TABI

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SUMMARY TABLE OF DRILL HOLE DATA (Cont'd)

Hole #	Location	Depth	Target	Intersected	
BL-86-14	L 70+00E 8+00S	259 ft.	Small magnetic anomaly in large magnetic gap east of Zone 4.	Mafic flows, mafic tuff, amphibolite. No significant assays.	
BL-86-15	L 66+00E 12+00S	255 ft.	Small magnetic anomaly south of large magnetic gap east of Zone 4.	Mafic to intermediate tuff, greywacke, banded iron formation, quartz feldspar porphyry mafic tuff, argillaceous sediment. .026 oz/ton 127.0'-129.5' greywacke with 1-2% finely disseminated magnetite.	-
BL-86-16	L 60+00E 8+00S	296 ft.	Eastern tip of Zone 4 iron formation.	Greywacke, cherty sediments, mafic tuff, graphitic tuff, banded iron formation, intermediate tuff, felsic tuff, intermediate intrusive. .003 oz/ton 116.4'- 117.8' mafic tuff. .002 oz/ton 117.8'- 121.0' graphitic sediment. .003 oz/ton 121.0'- 124.4' banded iron formation.	- JL -





In 1984, samples from trenches near L8+00E,3+00S yielded up to 1.05 ounces per ton gold. Hole BL-86-19 drilled under the best trench in 1984 yielded values of up to only .06 ounces per ton gold. Hole BL-84-20 also drilled in 1984 at a location 200 feet east of BL-84-19, yielded no significant gold values.

This year BL-86-10 drilled 200 feet to the west of the best trench, yielded no significant gold values. No further work is recommended in area "A".

#### 10.2.2 Area "C" Zone 2

BL-86-9 was drilled at L20+00E 5+25S to test the eastern extension of a zone which yielded .10 oz/ton gold over 2 feet from a sample of iron formation in a trench. It was also intended to test zone 2. The iron formation encountered in the hole produced no significant assays. However, a quartzcarbonate-tourmaline vein yielded .024 ounces per ton and an interval of diorite yielded .012 ounces per ton. No other significant values were encountered.

#### 10.2.3 Area "D" Zone 2

BL-86-1 at L40+00E,4+19S, and BL-86-2 at L38+00E,6+63S were drilled to test Zone 2 area "D" mineralization; at depth and to the east respectively of hole BL-84-11. BL-86-2 also intersected Zone 3 iron formation.

In 1984, BL-84-11 yielded .08 ounces per ton over 3.6 feet of typical banded iron formation. In 1986, hole BL-86-2 intersected the same Zone 2 iron formation 330 feet vertical\_y below the .08 ounce per ton intercept in BL-84-11, however, the best gold values from this unit were .005 ounces per ton over 3.0 feet and .005 ounces per ton gold over 1.4 feet. This Zone 2 iron formation did not yield significant gold values at depth or 200 feet along strike from the 1984 intercept of .08 ounces per ton.

BL-86-2 did, however, encounter Zone 3 iron formation which yielded the best gold values encountered in this program. A 4.0 feet interval of iron formation yielded .083 ounces of gold per ton. A second interval yielded .021 ounces per ton over 5.1 feet. Graphitic sediment between banded iron formation zones yielded .016 ounces per ton over 1.5 feet.

#### 10.2.4 Area "E" Zone 3

The western extension of mineralization in Zone 3 area "E" was tested by BL-86-11 at L8+00W, 11+50S. Trench sampling 25 feet east of L8+00W, 11+50S in 1984 returned gold values of up to .295 ounces per ton over 1.5 feet in iron formation. Drilling in the area at L6+00W and 7+00W in 1984, returned two values of .01 ounces per ton over 2 and 5 feet in iron formation, and two values of .02 ounces per ton over 5 feet in mafic flows.

BL-86-11 returned a value of .021 ounces per ton over one foot. The sample was of a 0.6 foot zone with 60 to 70% pyrite in a mafic flow. Zone 2 iron formation was not encountered in the hole indicating this unit terminates at depth between L7+00W and 8+00W.

#### 10.2.5 Zone 4

The Eastern tip of Zone 4 was tested at L60+00E, 8+00S by Hole BL-86-16. A sequence of mafic tuff, greywacke, and banded iron formation returned low gold values of .003 ounces per ton over 1.4 feet, .002 ounces per ton over 3.2 feet and .003 ounces per ton over 3.4 feet respectively. A large magnetic gap east of Zone 4 was tested by two holes. Hole BL-86-14 drilled at L70+00E at 8+00S, tested a 1020 gamma minor magnetic high on strike with the Zone 4 iron formation 1,000 feet east of hole BL-86-16. The hole intersected mafic tuffs, flows and amphibolite and returned one gold value of .007 ounces per ton over 1.5 feet of mafic flow with quartz carbonate stringers and disseminated pyrite.

Hole BL-86-15 was drilled south of Zone 4 on L66+00E at 12+00S to test a weak magnetic high thought to represent weak iron formation. Iron formation was intersected. A gold value of .026 ounces per ton over 2.5 feet was returned from greywacke with disseminated magnetite. Four gold values of between .006 ounces per ton and .009 ounces per ton were returned from greywacke and iron formation. No further work is warranted on Zone 4 at this time.

#### 10.2.6 Area "G" Zone 5

Hole BL-86-12 at L10+00E,15+00S and Hole BL-86-13 at L12+00E, 15+31S were drilled to test for extensions respectively to the west and at depth of mineralization in 1984 hole number BL-84-9. BL-84-9 encountered significant gold values in mafic to felsic cherty tuffs including .06 ounces per ton over 1.5 feet, .02 ounces per ton over 5.0 feet, .019 ounces per ton over 7.1 feet and .017 ounces per ton over 11.0 feet.

In the 1986 program BL-86-12 returned a single value of .013 ounces per ton over 1.7 feet from a mafic tuff. No significant assays were returned from BL-86-13.

Additional suggested work in this area is discussed in Section 11.0 and 12.0.

#### 10.2.7 Zone 6

Hole BL-86-8 was drilled on L50+00E,44+25S to test a VLF conductor axis coincident with a magnetic high and an apparent chargeability high in Zone 6. The hole intersected sediments, pyroclastics, mafic flows and intermediate intrusives, with no significant assays reported.

Hole BL-86-7 was drilled at L52+00E, 54+50S to the south of Zone 6 to investigate a VLF conductor axis with a coincident chargeability high.

The hole intersected sediments, mafic flows and amphibolites with no significant gold assays reported. No further drilling is recommended in the areas of BL-86-7 or BL-86-8.

#### 10.2.8 Zone 7

No. of Lot of Lo

BL-86-3 was drilled at L32+00E,1+46N to test a 1984 gold value of .030 ounces per ton from a surface sample of a quartz-tourmaline vein cross-cutting a quartz feldspar porphyry sill. The only significant value reported from the hole was .024 ounces per ton over 1.0 feet of intermediate tuff with a pyrite coated fracture. No further work is recommended in this area.

#### 10.2.9 Zone 8

Holes BL-86-4 and BL-86-6 were drilled at L42+00E,19+50N and L48+00,16+80N respectively to test a long, continuous VLF conductor axis in the gap of the magnetic high of Zone 8. Each hole was also located near anomalous gold values from soil geochemistry. BL-86-4 may have overshot its target as it had to be cased to 130 feet, however, the probable cause of the VLF conductor is a 3 foot wide shear zone from 133.5 to 136.5 feet. No significant assays were reported from this hole. **1**0 (5)

BL-86-5 was drilled north of Zone 8 on L44+00E at 27+50N to test a VLF conductor axis and a small magnetic anomaly with a coincident cluster of anomalous gold values from soil geochemistry. The hole intersected greywackes and several tuffaceous units, but no significant gold values were reported. No additional work in this area is recommended at this time.

#### 11.0 CONCLUSIONS

Line of

Gold values encountered in the 1986 drill program were generally low. The best value of .083 ounces per ton gold was encountered in a hole drilled to test the down dip extension of a similar value intersected in the 1984 drill program. The mineralized intercepts in the two holes do not correlate stratigraphically, however, this area does contain significant gold and warrants further drilling.

This program reconfirmed the widespread distribution of low gold values on the property. Several potential targets have been identified based on results of the 1984 and 1986 drill programs and on a 1986 report by Derry Michener Booth and Wahl. These are listed on Table 2.

TABLE ZI SUGGESTED ADDITIONAL DRIDGI
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14.20

						APPROX	·
PRIORITY	AREA	ZONE	LOCATION	AZIMUTH	DIP	DEPTH	TARGET
1	D	2	L37+00E,6+65S	335°	60°	570'	Possible western extension of gold mineralization encountered in holes BL-84-11 and BL-86-2
1	G	5	L14+00E,15+00S	335°	45°	200'	Eastern extension of mineralized horizon in BL-84-9
1	-	4	L48+00E,9+40S	335°	55 °	700'	Mineralized horizon below intercepts in BL-84-5
2	E	3	L2+00E,11+50S	335°	45°	200'	a) Eastern extension of Area "E" mineralization. b) Zone 5 cherty tuffs
2	В	1	L54+00E,4+50S	335*	45°	250'	Western extension of a 15.7' mineralized interval
2	-	4	L52+00E,10+60S	335*	55°	675'	Mineralized horizon between holes BL-84-3 and BL-84-5
2			L68+00E, 16+20N	335°	45°	350'	Iron formation; chargeability high
3		-	L32+00E,12+00S	335*	45°	300 '	Resistivity high, possibly a felsic intrusive
3		2	L 0+00,8+00S	335°	45°	300'	Zone 2 iron formation; Possible North- east trending fault
3	-	-	L44+00E, 10+00N	335°	45°	200'	Chargeability high, 102 ppb Au in humus, abundant quartz-feldspar porphyry sills in andesite.
3	-	6	L16+00E,2+00N	335°	45°	20Ŭ '	Felsic Volcanics with strong I.P. and 82 ppb Au in humus
3	**	4	L56+00E,10+00S	335°	55 •	7001	Minuralized horizon below the intercept in BL-84-3.
3	F	3	L24+00E,8+50S	335°	45°	200'	Folded and possibly faulted iron formation.

#### 12.0 RECOMMENDATIONS

Limited additional drilling is recommended. Table 2 is a priority listing of 13 potential drill targets. These include 3 first class drill targets totalling 1,470 feet, 4 second class targets totalling 1,475 feet and 6 third class targets totalling 1,900 feet.

Respectfully submitted,

John Ho Kolams

John H. Adams, B.Sc. Geocanex Ltd.

13.0 REFERENCES

it his

- Adams, J.H., 1984. Report of Field Activities on the Ben Lake Property For Moss Resources Ltd. May-June, 1984.
- Adams, J.H., 1984. Report of Drilling on the Ben Lake Property For Moss Resources Ltd. August-October, 1984.

Von Hessert, C., 1983. Report to Moss Resources Ltd. on the Bancroft (Ben) Lake Property, Patricia Mining District, Ontario.

Kieley, J.W., 1984. Report to Moss Resources Ltd. on the Geophysical Surveys at their Ben Lake Property, Patricia Mining District, Ontario.

Pearson, W. and Woolham, R. - 1986 Report on Properties of Power Exploration Inc., Pickle Lake Area, Ontario. Derry, Michener, Booth and Wahl.

## APPENDIX A

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## CERTIFICATE OF QUALIFICATIONS

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#### CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

I have been a resident of Osgoode, Ontario since 1976.

I have been engaged in mineral exploration since 1971 and have been a consulting geologist since 1979.

I am a graduate of Carleton University (B.Sc. 1971) in geology.

I am a fellow of the Geological Association of Canada and also a member of the Canadian Institute of Mining and Metallurgy, of the Quebec Prospectors Association, of the Association of Exploration Geochemists and of the Prospectors and Developers Association.

This report is based on the author's personal observations on the property, 16 years experience in exploration, on a comprehensive study of all the assessment work records and on geological maps and reports published for the area of interest by the Geological Survey of Canada.

DATED THIS 17 Th DAY OF June 1987

Eh\_H Beans

John H. Adams, B.Sc. Geocanex Ltd.

### APPENDIX B

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### REPORT OF WORK



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POWER EXPLOR	ATIONS INC.					· · · · · · · · · · · · · · · · · · ·	Prospecto	or's Licence	No.	
1003-34 King	Street Eas	t. Toronto	On	tario	MSC	165	<u> </u>	1642		
Summary of Work Performance and Distribution of Credits CALEY LAND CLART CLART CLART CLART CALE										
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				March	<b>,</b> 19	86		A MAL	Agent (Si	gnature)
Certification Verilying Repo	ort of Work			L			Fr	THE	7100	
I hereby certify that I have a or witnessed same during an	personal and intimate	knowledge of the facts	set forth	n in the Rep	ort of Wo	k ennex	ed hereto,	having peri	formed th	e work
Name and Postal Address of Pe	rson Certifying					·····				
J.H. Adams,	1003-34 Kin	ig Street E	<u>ast,</u>	Toror	nto,	Onta	rio			ور بر الم
M5C 1E5				17/1	10	\$1	Certified		thm	0
Table of Information/Attac	hments Required by	the Mining Record	er	- gene	<u>w</u> , , ,	01	$\mathcal{I}$	r/ai	<u>Wiik</u>	
Type of Work	Specific Info	mation per type	01	her Informat	lion (Coin	men to 2	or more t	(ypes)	Attachn	
Manual Work										
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Compressed air, other power driven or mechanical equip.	Type of equipment							ex re	lation to t	ork in he
Power Stripping	Type of equipment an Note: Proof of ectual within 30 days of reco	d amount axpended. cost must be submitte ording.	d N	erres and ed	dresses of	Owner o		^•	arest clair	n post.
			1	one.				' <u> </u>		
Diamond or othe: core rkilling	Signed core log showin core, number and angl	ng; footage, diameter d ins of holes.	°'   "				•	ati	ork State pova) in di	n (ns uplicate

## APPENDIX C

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### DIAMOND DRILL LOGS

# **DIAMOND DRILL RECORD**

NAME OF	PROPERTY		BEN LAKE					
HOLE NO.	81-86-1		LENGTH	206'				
LOCATION	L40_00E_	4+19	.ss					
LATITUDE			DEPARTURE	******				
ELEVATION	·		AZIMUTH	<u></u>		DIP	-47°	
STARTED	October 12.	1986	EINICHED	October	11	1986		

OOT AGE	UIP	AZIMUTH	FOOTAGE	DIP	AZMUTH
206.0'	-43.3				

## HOLE NO. BL-86-1 SHEET NO. 1 OF 2

REMARKS \_\_\_\_\_\_ LOR

Claim 570074

LOGGED BY L.JONES

FOO	TAGE		Τ		SAMP	L E		A 5 5 A Y 5				
FROM	ro	SUMMARY LOG	NO.	NES'	FROM	TO	TOTAL		4	OZ/TON	OZ/TON	
0	30.0	CASING										
30.0	48.5	HAFIC FLOW - dark grey-green, fine grained, weakly foliated.				3.V.						
		- 40.3 - quartz- <u>tourmaline</u> vein.										
48.5	49.5	<u>MAFIC TUFF</u> - dark gray-green, fine grained, quartz-carbonate stringers 50-60% of unit.										
49.5	50.4	MAFIC SILL - dark green, fine to medium grained.										
50.4	53.5	MAFIC TUFF - banded.										
53.5	60.2	HAFIC FLOW - typical.										
60.2	76.1	AMPHIBOLITE - mottled dark green-grey.										
76.1	77.9	CHERT - medium grey, fine grained, well carbonatized.										
77.9	81.8	AMPHIBOLITE - typical.					1					
81.8	ö2.5	QUARTZ-CARBONATE VEIN - 15-202 tourmaline.										
82.5	94.5	MAFIC TUFF - typical.										
94.5	97.9	QUARTZ-FELDSPAR PORPHYRY - medium grey, mottled by grey-white quartz and feldspar phenocrysts.										
97.9	99.1	MAFIC TUFF - typical.										
99.1	101.3	QUARTZ-FELDSPAR PORPHYRY - typical.										
101.3	106.3	MAFIC TUFF - typical, medium to dark grey-green.								{		

# DIAMOND DRILL RECORD

NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

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HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 2 OF 2

F001	TAGE	OFICEIDTION		SAMPLE					ASSAYS				
FROM	10	DESCRIPTION	NO.	S SUL PH	FROM	1001460	TOTAL	1	•	02 104	62 704		
106.3	109.8	BANDED IRON FORMATION - fine to medium grained, medium grey-black, fine lenses of magnetite, chert and grunerite give wispy appearance, pyrite and pyrrhotite trace.											
109.8	110.9	MAFIC SILL								ļ			
110.9	122.5	BANDED IRON FORMATION											
122.5	129,3	GREYWACKE - dark green-grey, fine to medium grained.	Į	ļ									
		- 126.6 - 127.1 - Banded Iron Formation, 1-2% pyrite, 1-2% pyrrhotite.				<b>.</b> .							
129.3	137.2	BANDED IRON FORMATION - garnetiferous.	6064	tr	129.3	131.1	1.8			.004			
137.2	139.0	GRAPHITIC SEDIMENT - black-green, 20-30% coarse pink garnets.	6065	tr	. 131.1	132.5	1.4			.015			
139.0	143.5	QUARTZ-FELDSPAR PORPHYRY - typical.						1			ļ		
143.5	144.2	<u>GREYWACKE</u> - typical.						]					
144.2	151.8	QUARTZ-FELDSPAR PORPHYRY - typical.											
151.8	152.7	SEDIMENT - dark grey with green hues, fine grained, poorly banded.											
152.7	155.0	QUARTZ-FELDSPAR PORPHYRY - typical.							1			1	
155.0	161.8	SEDIMENT - typical.											
:	•	- 159.0 - quartz- <u>tourmaline</u> vein.											
161.8	168.7	MAFIC TO INTERMEDIATE TUFF - medium grey, fine to coarse grained, well banded.										1) In	
168.7	206.0	GREYWACKE - typical.									M	[////	
		- 182.0 - 182.8 - quartz- <u>tourmaline</u> vein.								$\mathcal{U}$			
206.0		End of Hole.								ノ			

# DIAMOND DRILL RECORD

HOLE NO.     BL-B6-1     LENGTH 206'       LOCATION     L40+00E     4+19.5S       LATITUDE     DEPARTURE       ELEVATION     AZIMUTH 335°       STARTED     October 12, 1986       FOOTAGE       FOOTAGE       FROM     TO	REMARKS				
LATITUDE DEPARTURE ELEVATION AZIMUTH _335° DIP47° STARTED OCTOBER 12, 1986 FINISHED OCTOBER 13, 1986 FOOT A GE DESCRIPTION SAMPLE FROM TO FOOTAGE DESCRIPTION TO TOTAL					
ELEVATION	Claim 570074				
STARTED     October 12, 1986     FINISHED     October 13, 1986       FOOTAGE     DESCRIPTION     SAMPLE       FROM     TO     NO. SUPPLEFROM     TO					
FOOTAGE     SAMPLE       FROM TO     DESCRIPTION       NO. SPH FROM TO     TOTAL	LOGGED BY L.Jones				
FROM TO DESCRIPTION FOOTAGE NO. JES FROM TO TOTAL					
FROM TO NO. NOT FROM TO TOTAL					
	4 1 OZ/TON OZ/TON				
0 30.0 <u>CASING</u>					
30.0 48.5 <u>HAFIC FLOW</u> - dark grey-green; fine grained, weakly foliated at 57° to core axis. Cut by numerous quartz-carbonate stringers parallel to foliation. Well carbonatized.					
Average Modes					
Amphiboles         50         -         60Z           Chlórite         15         -         20Z           Feldspar         15         -         20Z           Quartz         SZ         SZ           Carbonate         3         -         SZ           Pyrite         0.5         -         1Z					
Pyrite is finely disseminated throughout section.					
- 40,3 - small <u>quartz-tourmaline vein</u> concordant with foliation; trace pyrite.					
- 44.0 - small brecciated zone parallel to foliation at 70° to core axis. Cut by fracture at 18° to core axis with ½" wide alteration halo.					
48.5 49.5 <u>MAFIC TUFF</u> - dark grey-green; fine grained, abundant quartz- carbonate stringers comprise approximately 50 - 602 of unit.					
Average Modes					
Quartz 50 - 60% Carbonate 5 - 7%					

HOLE NO. BL-86-1 SHEET NO. 101 9
TOPONIO - 366-1166

CHOCES --

NAME OF PROPERTY BEN LAKE

HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_ OF 9

F001	TAGE		<b></b>		SAMPL	. E			 ASSAYS		}
FROM	10	DESCRIPTION	++0.	S WOR		1001466		$\overline{\ }$	01 700	01 104	
		Biotite 20 - 30% Chlorite 20 - 30% Pyrite trace		- 1945 9	7304		70 FAL				
		- 49.4 - 1/8" displacement on fracture aub-parallel to core axis.									
49.5	50.4	<u>MAFIC SILL</u> - dark green; fine to medium grained, moderately well foliated at 65° to core axis, chill margins 1/4" to 1/8" wide, concordant with foliation.									
		Average Modes									
		Amphiboles       40       -       50%         Quartz       10       -       20%         Biotite       10       -       20%         Pyrite       1       -       2%			•						
		Pyrite is finely disseminated through unit.									
50.4	53.5	<u>HAFIC TUFF</u> - dark green-grey; fine grained, prominent banding, foliated at 70° to core axis, abundant quartz-carbonate stringers, banding fines towards bottom of unit.									
53.5	60.2	<u>MAFIC FLOW</u> - typical, well foliated at $67^{\circ}$ to core axis, pyrite trace to 0.5%, disseminated; infrequent quartz-carbonate stringers parallel to foliation.									
60.2	76.1	AMPHIBOLITE - mottled dark green-grey; mottles due to 1/8" amphibole patches. Infrequent quartz-carbonate stringers. Poorly foliated at 60° to core axis.									
		Average Hodes								•	
		Hornblende 50 - 60X Chlorite 20 - 30X Quartz 5 - 10X Carbonate *race Pyrite trace, disseminated									

NAME OF PROPERTY\_\_\_\_BEN\_LAKE

SHEET NO. \_ 3 0. 9 HOLE NO. \_\_\_\_BL-86-1 SAMPLE ASSAYS FOOTAGE DESCRIPTION FOOTAGE IS SULPH NO 02 104 FROM 10 02 100 ٩. ٩. TOTAL 1065 FROM 10 76.1 77.9 CHERT - medium grey; fine grained, well carbonatized. Lenses and 6050 12 (.001 stringers of mafic minerals comprise 30% of section. 76.1 77.9 1.8 Average Modes Chert 70% Chlorite 20X .: 15 Amphiboles 10 157 Pyrite 0.5 17 Pyrite is disseminated with the mafic minerals. 77.9 81.8 AMPHIBOLITE - as 60.2 to 76.1. 81.8 82.5 QUARTZ-CARBONATE VEIN - typical, 15 - 20% tourmaline, no sulphides, 6051 81.6 82.7 1.1 ¢.001 well carbonatized. 82.5 94.5 HAFIC TUFF - dark grey-green; fine to medium grained, moderately well foliated at 60° to core axis, infrequent quartz-carbonate stringers. Average Hodes Amphiboles 15 202 Chlorite 50 60Z 15X Ouartz 10 Biotite 5 102 Pyrite trace to 0.5%, disseminated Carbonate trace 94.5 97.9 QUARTZ-FELDSPAR PORPHYRY - medium grey; mottled by grey-white 6052 tr. 4: .> 97.1 (.001 \* quartz and feldspar plienocrysts up to 1/8". Well foliated at 55° to core axis caused by alignment of very fine grained blotite. - 70AON10 Infrequent fine quartz-carbonate stringers. Upper contact discordant, lower contact concordant. Phenocrysts 10 - 20% of section, phenocrysts larger in lower half of section. DOES -

NAME OF PROPERTY BEN LAKE

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			OLE N	. <u>BL</u> .	86-1		SHEET NO. 4 01 9				
FOOTAGE		T		SAMP					ASSAYS		
FROM TO	DESCRIPTION	NO	SUL PH	Jaou	10017001	TOTAL	、	\ \	02 104	02 104	
	Average Modes	1					Į				
	Ovartz 40 - 502	1			5 -		ļ		ļ		
	Feldspar 40 - 50%							]	ļ		
	Biotite 5 - 107										
	Pyrite in small areas concentracted to 0.5 - 1%.										
97.9 99.1	MAFIC TUFF - dark green; fine grained, banding indistinct.	ł									
	occasional quartz-carbonate stringers.							1			
	Average Modes	1	1								
1											
1	Biotite 30 - 40% Chlorite 30 - 40%	1			3 1						
	Amphiboles 10 - 20%	1		•							
	· Quartz 10 - 202				i i						
99.1 101.3	QUARTZ-FELDSPAR PORPHYRY - as 94.5 to 97.6. Upper and lower									1	
	contacta concordant.										
101.3 106.3	MAFIC TUFF - medium to dark grey-green; foliated at 55° to core										
1	axis. Well carbonatized at top, poorly at bottom. Thin quartz-										
1	carbonate stringers, finely disseminated pyrite. Occasional pyrite and pyrrhotite on fracture surfaces.	1			-						
1											
ĺ	Average Modes										
	Biotite 30 - 40%										
}	Chlorite 30 - 40X Ouartz 20 - 30X										
	Carbonate 2 - 3%										
	Pyrite 0.5 - 1.02 Pyrhotite trece - 0.52									1	
	- 103.7 - 1/8" pyrite stringer.										
				1						Í	
1		<b>I</b> (			2 1	(			i	1	

#### NAME OF PROPERTY\_\_\_BEN\_LAKE

HOLE NO \_\_\_\_\_\_\_ BL-86-1\_\_\_\_\_\_\_ SHEET NO \_\_\_\_\_ 5 of 9

F00	TAGE		Γ		\$AMPI	.E			 ASSAYS		
FROM	10	DESCRIPTION	10	1 201 000	[2014	7667468	10141	,	02 104	67 104	
106.3	109.8	BANDED IRON FORMATION - medium grey-black; fine to medium grained, well banded at 70° to 75° to core axis. Fine lenses of magnetite, chert ard grunerite give wispy appearance. Grunerite concentrated around magnetite bands.	6054 6055	2 tr.	106.3 108.0	108.0 109.8	1.7		⟨ .001 ⟨ .001		
		Average Modes         Magnetite       30       -       40%         Chert       40       -       50%         Grunerite       10       -       15%         Biotite       10       -       15%         Garbonate       3       -       5%         Pyrite       trace         -       106.3       -       107.1         -       105.3       -       107.1       -								•	
109.8	110.9	MAFIC SILL - dark grey-black; fine grained, poorly foliated at 55° to core axis.         Average Modes         Amphiboles       30       -       40%         Feldspar       20       -       30%         Chlorite       10       -       20%         Biotite       20       -       30%         Chlorite       10       -       20%         Biotite       20       -       30%	6056	-	109.8	110.9 110.9	1.1		< .001		
110.9	122.5	BANDED IRON FORMATION - dark green-black; fine grained, banding at 50 to 60° to core axis. Bands from less than 1/8" to 3", commonly from less than 1/8" to 1/4". Well carbonatized. Infrequent fractures at 40° to core axis, perpendicular to foliation.         Average Modes         Magnetite       30       -       40%         Chert       25       -       35%         Chlorite       25       -       35%         Pyrhotite       trace       0.5%       disseminated, rarely as st	6057 6058 6059 6060 6061 6062	0.5 0.5 0.5 0.5 0.5 0.5	110.9 112.7 114.8 117.0 118.9 120.9	112.7 114.8 117.0 118.9 120.9 122.5	1.8 2.1 2.2 1.9 2.0 1.6		<pre>&lt;.001 &lt;.001 &lt;.004 &lt;.004 &lt;.001 &lt;.001 &lt;.001</pre>		

#### NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_\_ BL-86-1\_\_\_\_\_\_ SHEET NO \_\_\_\_\_\_ 6 of 9 \_\_\_\_\_

F001	AGE				SAMPL	.€				ASSAYS		
FROM	10		NO.	L SUL PH	FROM	TO	TOTAL	``	``	02 104	62 104	
		- 115.5 - fracturing of magnetite banda				¥.						
		- 119.8 - banding distorted										ĺ
		- 120.6 - 2 bands coarse chlorite 1/4" wide										
		- 122.1 - 122.3 - coarse garnets in chloritic bands.										1
122.5	129.3	<u>GREYWACKE</u> - dark green-grey; fine to medium grained, well foliated at 55° to core axis, banded, with biotite-chlorite rich bands alternating with smaller quartz-feldspar layers. Infrequent quartz-carbonate stringers.				and the second secon						
		Average Modes										
		Biotite 40 - 50X Chlorite 20 - 30X Quartz 10 - 20X Feldspar 10 - 20X Carbonate trace			•							
		<ul> <li>126.6 - 127.1 - Banded Iron Formation, mildly magnetic, small magnetite bands, 1 - 2% pyrite, 1 - 2% pyrrhotite as very thin stringers parallel to foliation.</li> </ul>	6063	4	126.4	127.3	0.9			<.001		
129.3	137.2	BANDED IRON FORMATION - medium grey-green; fine to coarse grained banded magnetite, chert, chloritic and garnetiferous zone, foliated at 55° to core axis. Bands from less than 1/8" to 1", commonly less than 1/8" to 1/4". Garnetiferous bands associated with magnetite bands. Garnets poikiloblastic, anhedral, pink, 1/16" to 1/8" across, almost wholly replacing some zones. Trace pyrrhotite. Garnet rich zones at:	6064 6065 6066 6067 6068	tr tr tr tr	129.3 131.1 132.5 134.0 135.0	131.1 132.5 134.0 135.0 137.2	1.8 1.4 1.5 1.0 2.2			.002 .015 \$.001 .001 \$.001		
		129.6 - 129.8 $132.0 - 132.3$ $135.0 - 135.2$ $135.7 - 136.2$ $136.4 - 137.0$				and the second second second						

UANGROCES - TORONTO - 366-1168

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NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

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HOLE NO \_\_\_\_\_\_\_ BL-86-1\_\_\_\_\_\_\_ SHEET NO \_\_\_\_\_ 7 OF 9

F001	AGE				SAMP	.E				ASSAYS		
FROM	10	DESCRIPTION	NO.	SULPH IDES	FROM	TO	10141	· ·	•	07 TON	62 104	
		<ul> <li>- 129.9 - 130.1 - 10 - 15% pyrrhotite as stringers parallel to foliation</li> <li>- 134.5 - thin stringer of <u>arsenopyrite</u> parallel to foliation</li> </ul>										
		- 136.0 - 137.2 - fracture sub-parallel to core axis coated with pyrite.										
137.2	139.0	<u>GRAPHITIC SEDIMENT</u> - black-green; well foliated at $70^{\circ}$ to core axis. Generally fine grained, except for coarse pink garnets up to $1/8^{"}$ in diameter.	6069	0.5	137.2	139.0	1.8			<.001		
		Average Modes										
		Biotite       40       -       50%         Garnets       20       -       30%         Quartz       10       -       15%         Graphite       10       -       15%         Pyrite       trace       -       0.5%										
		Pyrite finely disseminated, as very fine stringers parallel to foliation, and as blebs on 2 fractures at 30 to $40^\circ$ to core axis.										
139.0	143.5	QUARTZ-FELDSPAR PORPHYRY - medium grey; mottled with 15% quartz and feldspar phenocrysts, foliation at 50° to core axis. Fine grained towards contacts.	6070 6071	tr tr	139.0 142.1	142.1 143.5	3.1 1.4			<b>(</b> .001 (.001		
		Average Modes										
		Quartz 50 - 60% Feldspar 30 - 40% Biotite 10 - 15%										
		Hinor quartz-carbonate stringers, trace pyrite, disseminated, or as blebs on fractures.										

#### BEN LAKE NAME OF PROPERTY\_\_\_

		HOLE NO. <u>BL-86-1</u>		. SHI	EET NO.	<u>     8    of</u>	<u> </u>				
FOOT	TAGE		I		SAMPI					ASSAYS	
FROM	то	DESCRIPTION	NO.	2 BULPH IDES	FROM	TOOTAGE	TOTAL	· ·	•	02 104	02 TON
		- 139.5 - 141.0 - fracture sub-parallel to core axis pyrite coated									
		- 142.1 - 142.4 - small graphitic mediment zone as 137.2 to 139.0 - 142.4 - 142.5 - 5 - 10% pyrrhotite in stringers.				e e					
143.5	144.2	<u>GREYWACKE</u> - as 122.5 to 129.3.	6072	-	143.5	144.2	0.7			001. >	
		- 143,5 - 143,6 - mildly magnetic due to trace magnetite.		1				ļ			
144.2	151.8	QUARTZ-FELDSPAR PORPHYRY - as 139.0 to 143.5	6073 6074 6075 6076		144.2 146.2 148.2 150.1	146.2 148.2 150.1 151.8	2.0 2.0 1.9 1.7			<pre>&lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001</pre>	
151.8	152,7	<u>SEDIMENT</u> - dark grey with green hues; fine grained, poorly banded, foliated at $67^{\circ}$ to core axis. Possibly a greywacke.			•						
		Average Hodes	[	ĺ				1			
		Biotite 30 - 407 Quartz 30 - 402 Feldspar 20 - 307 Pyrrhotite trace disseminated									
152.7	155.0	QUARTZ-FELDSPAR PORPHYRY - as 139.0 to 143.5	6077	-	152.7	155.0	2.3			001 >	
155.0	161.8	SEDIMENT - as 151.8 to 152.7	607 <b>8</b>	-	158.5	159.5	1.0			< . 001	
		<ul> <li>159.0 - quartz-tourmaline vein 1/4" wide at low angle to core axis Infrequent 1mm pink garnets.</li> </ul>				2 					
161 <b>.8</b>	168.7	MAFIC TO INTERMEDIATE TUFF - medium grey; fine to coarse grained, well banded. Bands of chlorite, chert, quartz-feldspar, garnets and pyrrhotite. Pyrrhotite 2 - 3%.	6079 6080 6081 6082	333	161.8 164.1 166.0 167.2	164.1 166.0 167.2 168.7	2.3 1.9 1.2 1.5			.001 .001 .002 <b>〈</b> .001	
		- 162.2 - concordant pyrrhotite stringers				1. 1.					

NAME OF PROPERTY\_\_\_\_BEN\_LAKE

HOLE NO. BL-86-1 SHEET NO. 9 of 9

FOOTAGE				SAMPI	. 8		[		ASSAYS		
FRUN TO		ND	SULPH IDES	FROM	TOOTAGE	TOTAL	<u>`</u>	•	02 104	61 SU	
206.0 168.7	<ul> <li>162.9 - small shear parallel to core axis</li> <li>163.2 - 163.9 - concordant pyrrhotite stringers</li> <li>164.1 - 165.0 - pyrite coatings on fractures in chert rich zone</li> <li>166.8 - 167.2 - quartz vein, minor hematite staining in wall rock around.</li> <li>CREYWALKE - dark grey-black: well foliated at 55° to core axis. Hinor banding due to fine chloritic and biotitic bands alternating with quartz-feldspar rich bands. Pyrite trace, disseminated.</li> <li>169.2 - 169.8 - quartz vein</li> <li>184.0 - 185.0 - pyrite as fine concordant stringers</li> <li>185.1 - fracture sub-parallel to core axis with pyrhotite</li> <li>182.0 - 182.8 - quartz-tourmaline vein sub-parallel to core axis</li> <li>- 187.0 - 188.0 - trace to 0.5% pyrrhotite disseminated, and as fine stringers, in medium grained zone</li> <li>203.7 - quartz-tourmaline vein.</li> </ul>	6083 6084 6085 6086		169.0 181.9 184.4 203.2	170.0 183.0 185.6 2.4.2	1.0 1.1 1.2 1.0			<.001 .001 <.001 <.001	Ma	ano

NAME OF	PROPERTY	·	BEN LAKE			
HOLE NO.	BL-86-2		LENGTH	564'		
LOCATION	<u>1.38E</u>	6+635				
LATITUDE			DEPARTURE			
ELEVATION			AZIMUTH	<u>335°</u>		<u>-60°</u>
STARTED	October	13. 1986	FINISUED	October	15. 1986	

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZMUTH
200'	-55.0				
400'	-52.0				
5641	-50.9				

#### HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_4

REMARKS Summary Log

Claim 570074

LOGGED BY \_\_\_\_\_

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100	TAGE	DESCRIPTION	l	·	5 A M P			<b>  </b>	· · · · · · · · ·	- 5 5 A -	r s	
FROM	to	SINMARY LOG	но.	SUL PH	FROM	TO	TOTAL	×	6	02/10H	07/10N	
0	15.3	CASING										
15.3	30.4	MAFIC FLOW - typical.										
		~ 19.0 - quartz- <u>tourmaline</u> vein, 2-3% pyrite.										
		- 29.0 - quartz-tourmaline vein.										
30.4	40.0	AMPHIBOLITE - typical.										
40.0	43.7	MAFIC FLOW - typical.										
43.7	88.3	AMPHIBOLITE - typical.										
88.3	93.1	MAFIC FLOW - typical.										
93.1	95.8	AMPHIBOLITE - typical.										
95.8	99.3	MAFIC TO INTERMEDIATE TUFF - typical.										
99.3	103.3	QUARTZ-FELDSPAR PORPHYRY - typical.										
103.3	117.3	<u>MAFIC FLOW</u> - typical.				:						
117.3	153.8	BANDED IRON FORMATION - medium green-grey, well banded, magnetite bands have 1-2 mm grunerite rims, 3-5% pyrrhotite, trace to 0.5% pyrite.										
153.8	157.4	MAFIC TO INTERMEDIATE TUFF - typical.										1
157.4	160.6	QUARTZ-FELDSPAR PORPHYRY - typical.										
160.6	162.9	<u>GRAPHITIC SEDIMENT - 10-157</u> pyrrhotite in stringers and blebs.										

NAME OF PROPERTY BEN LAKE

HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 2 OF 4

F001	TAGE		5A		SAMPL	. E				ASSAYS	rs	
FROM	70	DESCRIPTION	NO.	I SULPH	FROM	TO	TOTAL	``	۰	#07 TO	41 TO4	
162.9	167.8	CHERTY SEDIMENT - medium grey, fine to medium grained.										
167.8	169.3	GRAPHITIC SEDIMENT - BB 160.6 - 162.9.	6226	15	167.8	169.3	1.5			.016		
169.3	182.5	BANDED IRON FORMATION - as 117.3 - 153.8.	6227	-	169.3	174.4	5.1			.021		
182.5	187.5	MAPIC TUFF - typical.	<b></b>		•••••							
187.5	192.5	QUARTZ-FELDSPAR PORPHYRY - typical.		ļ	}							
192.5	200.5	MAFIC FLOW - typical.										
200.5	204.8	MAFIC TUFF - typical.										
204.8	206.5	QUARTZ-FELDSPAR PORPHYRY - typical.			Ì							
206.5	208.4	MAFIC TUPF - typical.			ŀ							
208.4	209.5	QUARTZ-FELDSPAR PORPHYRY - typical.			Í							
209.5	212.1	MAFIC TUFF										
212.1	216.1	BANDED IRON FORMATION	6234	5	212.1	216,1	4.0			.083		
216.1	217.0	MAFIC TUFF										
217.0	217.3	QUARTZ-FELDSPAR PORPHYRY	1									
217.3	217.6	MAFIC TUFF	1			19 19					,	
217.6	220.9	QUARTZ-FELDSPAR PORPHYRY										
220.9	222.9	MAFIC TUFF										
222.9	236.4	QUARTZ-FELDSPAR PORPHYRY - as 187.5 - 192.4.				2						
236.4	253.6	HAFIC FLOW - typical.				میں ایک میں ایک						I
253.6	254.4	MAFIC TUFF - as 182.7 - 192.5.				an in the						

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NAME OF PROPERTY\_\_\_\_\_

RTY\_\_\_\_BEN LAKE

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			H	IOLE N	0. <u>Bl</u>	-86-2		SHE	ET NO.	3.0	[ 4	<del></del>
FOOT	AGE			ن <u>سب المجريم</u>	SAMP	.E 👌				ASSAYS		
FROM	70	DESCRIPTION	140	S SULPH	FROM	TOOTAGE	10141	`	、	02 10#	61 10.	
256.4	269.0	QUARTZ-FELDSPAR PORPHYRY - as 187.5 - 192.5.										
269.0	277.3	HAFIC FLOW - typical.										
277.3	281.4	MAFIC TUFF - as 182.7 - 192.5 - 30-40% quartz-carbonate stringers.	ļ				-					
281.4	342.7	MAFIC PLOW - typical.		}		e i						
342.7	345.4	QUARTZ-FELDSPAR PORPHYRY - 88 187.5 - 192.5.	Į									
345.4	414.0	MAFIC FLOW - typical.										
		- 408.8 - 409.0 - quartz-carbonate- <u>tourmaline</u> vein with trace pyrite, pyrrhotite.										
414.0	415.0	QUARTZ-FELDSPAR PORPHYRY - typical.				(a.e.)						
415.0	435.3	MAFIC FLOW - typical.										
1		- 423.6 - small quartz- <u>tourmaline</u> vein.										
435.3	441.8	MAPIC FLOW										
441.8	442.7	QUARTZ-CARBONATE VEIN - typical.										
442.7	455.3	MAFIC FLOW - typical.	1									
455.3	475.0	AMPHIBOLITE - typical.										
475.0	480.8	HAFIC FLOW - typical.										
		- 475.2 - 476.0 - quartz-tourmaline vein.	]									
		- 476.4 - 476.7 - quartz-tourmaline vein.	ŀ									
480.2	483.8	MAFIC TO INTERMEDIATE TUFF - typical.										
483.8	501.1	BANDED IRON FORMATION - typical.										
			ł			з£						

NAME OF PROPERT	Y BEN LAKE
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HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 4 OF 4

FOO	TAGE	DESCRIPTION	SAMPLE						ASSAYS			
FROM	10	DESCRIPTION	NO	1 SULPH	FROM	TOOTAGE	TOTAL	``	``	01 104	02 704	
501.1	506.0	<u>MAFIC TUFF</u> - typical.										
506.0	517.8	BANDED IRON FORMATION - typical.										
517.8	564.0	CREYWACKE - typical.										
564.0		End of Hole.										
						•						
						н. А. (						
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NAME OF HOLE NO LOCATION LATITUDE ELEVATIC STARTED	PROP(     BL-     BL-     DN      Octobe	BEN LAKE           86-2         LENGTH         5641           1400E         6463S	F001AGE 200 400 564	DIP - <u>55,0</u> ° - 52,0° - 50,9°			001 4Gt	DIP	A7 MUTH	HOLE NO. REMARK LOGGED E	<u>BL-86-2</u> weet w S Claim 570074 avL.Jones	
ERON	10	DESCRIPTION		-				FOOTAG	E	┨		
				<u> </u> _	<u> </u>	25	FROM	TO	101AL	ᠯ᠆᠆᠆		~ <b> </b>
0	15.3	CASING										
15.3	30.4	<u>MAFIC FLOW</u> - dark green-black; fine grained, moderately we foliated at 35° to core axis.	el1									
		Average Modes										
		Amphiboles 20 - 40% Chlorite 30 - 40% Quartz 10 - 15% Feldspar 10 - 15% Pyrite 0.5 - 1% disseminated										
		- 19.0 - quartz- <u>tourmaline</u> vein, concordant, with 2 - 3% pyrite	th	62 62	06 07	3	18.5 28,5	19. 29.	5 1.0 5 1.0		<.001 <.001	
		- 29.0 - quartz- <u>tourmaline</u> vein		I								
		<ul> <li>- 29.6 - small, one inch wide, brecciated zone quartz-carbonate stringers.</li> </ul>	vith					1				
30.4	40.0	AMPHIBOLITE - medium grey-green; moderately well foliated to core axis, medium grained.	at 40°									
		Average Modes										
		Amphiboles 60 - 70% Chlorite 20 - 30% Biotite 15 - 20% Pyrite trace dissemineted										
		One wm amphibole phenocrysts;foliation due to bistite, whi occasionally forms thin bands. Infrequent quartz-carbonat	ich e									

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#### NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

FOOT	AGE		1		SAMPL	E				ASSAYS		
FROM	70	DESCRIPTION	NO.	L SUL PH	FROM	FOOTAGE	TOTAL	٢	•	02 184	61 10×	
		stringers and lenses.										
		- 34.0 - 37.0 - blocky.										
40.4	43.7	MAFIC FLOW - typical										
		- 43.7 - small 1/2" wide zone with 5 - 8% pyrite, 0.5 - 1% pyrrhotite.	6208	9	43.3	44.2	0.9			<.001		
43.7	88.3	AMPHIBOLITE - medium grey-green; medium to coarse grained, moderately well foliated at 55° to core axis.										
		Average Modes										
		Amphiboles 60 - 70% Chlorite 20 - 30%			•							
		Quartz 5 - 107 Pyrite trace disseminated										
		One to two mm amphibole phenocrysts. Infrequent quartz-carbonate stringers. Biotite tends to form thin bands.										
		- 48.7 - 49.2 - quartz vein, minor carbonate	6209 6210	-	48.2	49.5 58.1	1.3 1.1			<.001 <.001		
		- 55.0 - 55.1 - quartz vein, minor carbonate				n - The state						
		- 57,5 - 57.6 - quartz vein, minor carbonate - 62.8 - trace pyrite.				14 A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.						
88.3	93.1	MAFIC FLOW - typical, fewer quartz-carbonate stringers.	6211	-	92.1	93.4	1.3			<b>&lt;</b> .001		
		- 92.5 - 93.1 - quartz-carbonate stringers 50% of section.										
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HOLE NO BL-86-2 SHEET NO 2 OF 13

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# LANGHIDGES - TORONTO - 365-1168

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NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

			•	OLE N	0. <u>BL-</u>	86-2		5H1	EET NO		<u>( 1)</u>	
FOO	TAGE		T		\$AMP	LE				ASSAYS		
FROM	TO	DESCRIPTION	NO	IDES	FROM	1007AGE	10141	``	、	01 104	62 6	
93.1	95.8	AMPHIBOLITE - typical.										
95.8	99.3	<u>MAFIC TO INTERMEDIATE TUFF</u> - medium green-grey; fine to medium grained, foliated at $55^{\circ}$ to core axis. Moderate number of quartz-carbonate stringers.										
		Average Modes						1				
		Chlorite 40 - 50Z Amphiboles 15 - 20Z Biotite 15 - 20Z Quartz 10 - 15Z Feldspar 10 - 15Z										
99.3	103.3	<u>QUARTZ-FELDSPAR PORPHYRY</u> - dark grey; well foliated, phenocrysts 5% of section, minor brecciation at upper and lower contacts.	6212	-	99.3	103.2	3.9			<.001		
		Average Modea										
		Quartz 60 - 70% Feldspar 15 - 20% Biotite 10 - 15%										
103.3	117.3	MAFIC FLOW - typical										
		- 114.5 - 1/2" displacement on fracture parallel to core axis - 117.3 - 3 - 5% biotite										
117.3	153.8	BANDED IRON FORMATION - medium green-grey; well banded at $45^{\circ}$ to core axis. Magnetite bands wispy, some pyrrhotite replacement of magnetite. Chloritic bands in the upper six feet of section have subhedral to euhedral pink poikiloblastic garnets. Chert bands bluish grey. Some magnetite bands have 1 - 2 mm rims of very fine grained grunerite.	6213 6214 6215 6216 6217 6218 6219	5 5 10 5 5 5 5 5	117.3 122.0 127.0 129.0 131.0 135.8 140.0	122.0 127.0 129.0 131.0 135.8 140.0 145.0	4.7 5.0 2.0 4.8 4.2 5.0			<.001 <.001 .001 .001 .008 <.001 .004		
		<u>Average Modes</u> Chert 40 - 50% Magnetite 30 - 40%	6220 6221	5	145.0 150.0	150.0 153.8	5,0 3,8			.004 .002		

NAME OF PROPERTY\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 4 of 13 .

F00	TAGE	DESCRIPTION			SAMPL	. E				ASSAYS		
FROM	70	UESCRIPTION	NO	SUL PH	FROM	FOOTAGE	TOTAL	``	`	07 704	01 10m	
153.8	157.4	Chlorite 10 - 202 Grunerite 5 - 107 Pyrrhotite 3 - 57 Pyrite trace - 0.57 Garnets less than 17 - 127.0 - 128.0 - 3 - 57 pyrite in irregular stringers - 128.0 - 129.0 - 10 - 157 pyrrhotite stringers - 128.0 - 131.0 - contorted bedding, small scale folding - 129.7 - 130.5 - foliation parallels core axis - 151.5 - 153.8 - chert, appears brecciated. <u>HAFIC TO INTERMEDIATE TUFF</u> - dark grey-black; well foliated at 50° to core axis, brecciated at lower contact, well carbonatized,	6223	tr	153.8	157.4	3,6			<.001		
157.4	160.6	abundant quartz-carbonate stringers. <u>Average Modes</u> Biotite 20 - 30% Chlorite 20 - 30% Quartz 20 - 30% Carbonate 5 - 10% Pyrite trace, as smears on foliation planes <u>QUARTZ-FELDSPAR PORPHYRY</u> - medium grey; well foliated at 37° to core axis. Foliation caused by fine chlorite bands. Fine grained at contacts. Quartz-feldspar phenocrysts one mm form 20 - 25% of rock. <u>Average Modes</u> <u>Quartz 60 - 70%</u> Feldspar 20 - 30% Chlorite 10 - 15% Pyrite trace	6222	tr	157.4	160.6	3.2			<b>&lt;</b> .001		•

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		HOLE NO. <u>BL-86-2</u> SAMPLE					SHEET NO <u>5 of 13</u>					
AGE				\$AMPI			Ι		ASSAYS			
10	DESCRIPTION	ND.	S SULPH	FROM	TO	10741	<u>`</u>		02 104	62 10H		
	Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.											
162.9	<u>GRAPHITIC SEDIMENT</u> - dark grey-black; fine grained, well foliated, pyrrhotite 10 - 157, in stringers and bands, gradational contact over six inches with next lower unit.	6224	15	160.6	162.9	2.3			<.001			
167.8	CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly foliated at 55° to core axia.	6225	-	162.9	167.8	5.1			.001			
	Average Modes											
	Quartz 30 - 40% Chlorite 10 - 20% Biotite 10 - 15% Muscovite 10 - 15%											
	Muscovite coarse grained, in irregular stringers in quartz-rich areas. Lower section resembles quartz-feldspar porphyry.			•								
	- 163.7 - 163.9 - quartz vein					1						
	- 164.1 - 164.6 - small, irregular quartz veins comprise 50% of section				:							
	- 166.5 - 166.7 - quartz vein 0.5 - 1% pyrite.											
169.3	GRAPHITIC SEDIMENT - as 160.6 - 162.9	6226	15	167.8	169.3	1.5			.016			
	- 169.3 - <u>chalcopyrite</u> and pyrrhotite stringer.				:							
182.5	BANDED IRON FORMATION - as 117.3 - 153.8 Banding 50° to core axis, fewer garnets, no deformation.	6227 6228 6229		169.3 174.4 177.6	174.4 177.6 182.5	5.1 3.2 4.9			0.021 0.003 <.001			
187.5	<u>MAFIC TUFF</u> - dark green-grey; fine to medium grained, foliated at 50° to core axis, biotite, chlorite and quartz-carbonate stringers.											
	162.9 167.8 169.3 182.5 187.5	DESCRIPTION           10           10           10           10           162.9           GRAPHITIC SEDIMENT - dark grey-black; fine grained, well foliated, pyrrhotite 10 - 153, in stringers and bands, gradational contact over six inches with next lower unit.           167.8           CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly foliated at 55° to core axis.           Average Modes           Quartz         30 - 407 Chlorite           Quartz         30 - 407 Chlorite           10 - 152 Muscovite         10 - 152 Muscovite           Nuscovite coarse grained, in irregular stringers in quartz-rich areas. Lower section resembles quartz-feldspar porphyry.           - 163.7 - 163.9 - quartz vein           - 164.1 - 164.6 - small, irregular quartz veins comprise 502 of section           - 166.5 - 166.7 - quartz vein 0.5 - 12 pyrite.           169.3         CRAPHITIC SEDIMENT - as 160.6 - 162.9 - 169.3 - chalcopyrite and pyrhotite stringer.           182.5         BANDED IRON PORMATION - as 117.3 - 153.8 Banding 50° to core axis, fewer garnets, no deformation.           187.5         HAFIC TUFF - dark green-grey; fine to medium grained, foliated at 50° to core axis, biotite, chlorite and quartz-carbonate stringers.	DESCRIPTION         10         TO DESCRIPTION         10         Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.         Interingers and bands, gradational contact over six inches with next lower unit.         162.9         GRAPHITIC SEDIMENT - dark grey-black; fine grained, well foliated, 6224 pyrhotite 10 - 15%, in stringers and bands, gradational contact over six inches with next lower unit.         167.8         CHERTY SEDIMENT - medium grey; fine to medium grained, generally 6225         Quartz 30 - 40%         Quartz 30 - 40%         Chlorite 10 - 20%         Biotite 10 - 15%         Muscovite coarse grained, in irregular stringers in quartz-rich areas.         Lower section resembles quartz-feldspar porphyry.         - 163.7 - 163.9 - quartz vein         - 163.7 - 163.9 - quartz vein         - 163.7 - 163.9 - quartz vein         - 164.6 - small, irregular quartz veins comprise 50% of section         - 166.5 - 166.7 - quartz vein 0.5 - 1% pyrite.         169.3         GRAPHITIC SEDIMENT - as 160.6 - 162.9         - 169.3 - chalcopyrite and pyrhotite stringer.	DESCRIPTION         NO       Liture         TO       NO       Liture         Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.         ISENT - dark grey-black; fine grained, well foliated, 6224         Dyrhotite 10 - 151         Average Modes         Quartz 30 - 401         OLICE         Quartz 30 - 401         Chlorite 10 - 202         Biotite 10 - 152         Muscovite corses grained, in irregular stringers in quartz-rich areas. Lower section resembles quartz-feldspar porphyry.         - 163.7 - 163.9 - quartz vein         - 164.1 - 164.6 - small, irregular quartz veins comprise 502 of section         - 166.5 - 166.7 - quartz vein 0.5 - 12 pyrite.         169.3 - chalcopyrite and pyrhotite stringer.         - 169.3 - chalcopyrite and pyrhotite stringer. <td col<="" td=""><td>DESCRIPTION       NO.       Number of the second se</td><td>DESCRIPTION       No.       Variation       POSTAGE         10       Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.       10       <t< td=""><td>DESCRIPTION       10       10       10       Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.       162.9     GRAPHITIC SEDIMENT - dark grey-black; fine grained, well foliated, foliated, over six inches with next lower unit.     6224     15     160.6     162.9     2.3       167.8     GRAPHITIC SEDIMENT - dark grey-black; fine grained, generally pyrrhotite 10 - 15%, in stringers and bands, gradational contact over six inches with next lower unit.     6225     -     162.9     167.8     5.1       Average Modes       Quartz     30     -     40%       Quartz     30     -     40%       Biotite     10     -     15%       Muscovite     10     -     15%       Muscovite     10     -     15%       Muscovite     10     -     15%       Muscovite     166.5     -     166.7       -     166.4     -     162.9     6226       -     165.7     -     162.9     -       -     166.5     -     166.7     -     169.3       -     -     166.6     -     162.9     -       -     -     166.6     -     162.9     -<!--</td--><td>DESCRIPTION         10       Postact         10       Postact         10       Postact         10       Postact       10         Privite appears as smears on foliation planes and on a few iffactures at 65° to core axis.         Interview of the set in set ingers and bands, gradational contact over six inches with next lower unit.         162.9       GRAPHITIC SEDIMENT - dark grey-black; fine grained, generally pyrrhotite 10 - 15%, in stringers and bands, gradational contact over six inches with next lower unit.         Average Modes         Quartz       30       - 40%         Quartz       30       - 40%         Average Modes         Quartz       30       - 40%         Quartz       30       - 40%         Colspan= and, in irregular stringers in quarts-rich areas. Lower section resembles quarts-feldspar porphyry.       - 163.7 - 163.9 - quartz vein         - 164.1 - 164.6 - small, irregular quartz veins comprise 50% of section       - 169.3 - 166.7 - 8       169.3 1.5         - 169.3 - chalcopyrite and pyrrhotite stringer.</td></td></t<><td>DESCRIPTION       10       10       Pyrite appears as amears on foliation planes and on a few fractures at 65° to core axis.       162.9       ORAPHITIC SEDIMENT - dark grey-black; fine grained, well foliated, pyrthotite 10 - 15%, in stringers and bands, gradational contact over six inches with next lower unit.       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     162.9     167.8     5.1       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     162.9     167.8     5.1       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     162.9     167.8     5.1       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     167.8     5.1       Muscovite     10     -     153     -     6226     15     167.8     5.1       Muscovite     coare grained, in irregular stringers in quartz-rich arcss. Lower section     -     6226     15     167.8     169.3     1.5       169.3     -     166.5 - 166.7 - quartz vein     -     6226     15     167.8     169.3     1.5   <td>DESCRIPTION         10       2001/201         10       2001/201       2.3       X</td></td></td></td>	<td>DESCRIPTION       NO.       Number of the second se</td> <td>DESCRIPTION       No.       Variation       POSTAGE         10       Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.       10       <t< td=""><td>DESCRIPTION       10       10       10       Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.       162.9     GRAPHITIC SEDIMENT - dark grey-black; fine grained, well foliated, foliated, over six inches with next lower unit.     6224     15     160.6     162.9     2.3       167.8     GRAPHITIC SEDIMENT - dark grey-black; fine grained, generally pyrrhotite 10 - 15%, in stringers and bands, gradational contact over six inches with next lower unit.     6225     -     162.9     167.8     5.1       Average Modes       Quartz     30     -     40%       Quartz     30     -     40%       Biotite     10     -     15%       Muscovite     10     -     15%       Muscovite     10     -     15%       Muscovite     10     -     15%       Muscovite     166.5     -     166.7       -     166.4     -     162.9     6226       -     165.7     -     162.9     -       -     166.5     -     166.7     -     169.3       -     -     166.6     -     162.9     -       -     -     166.6     -     162.9     -<!--</td--><td>DESCRIPTION         10       Postact         10       Postact         10       Postact         10       Postact       10         Privite appears as smears on foliation planes and on a few iffactures at 65° to core axis.         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Lower section resembles quarts-feldspar porphyry.       - 163.7 - 163.9 - quartz vein         - 164.1 - 164.6 - small, irregular quartz veins comprise 50% of section       - 169.3 - 166.7 - 8       169.3 1.5         - 169.3 - chalcopyrite and pyrrhotite stringer.</td></td></t<><td>DESCRIPTION       10       10       Pyrite appears as amears on foliation planes and on a few fractures at 65° to core axis.       162.9       ORAPHITIC SEDIMENT - dark grey-black; fine grained, well foliated, pyrthotite 10 - 15%, in stringers and bands, gradational contact over six inches with next lower unit.       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     162.9     167.8     5.1       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     162.9     167.8     5.1       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     162.9     167.8     5.1       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     167.8     5.1       Muscovite     10     -     153     -     6226     15     167.8     5.1       Muscovite     coare grained, in irregular stringers in quartz-rich arcss. Lower section     -     6226     15     167.8     169.3     1.5       169.3     -     166.5 - 166.7 - quartz vein     -     6226     15     167.8     169.3     1.5   <td>DESCRIPTION         10       2001/201         10       2001/201       2.3       X</td></td></td>	DESCRIPTION       NO.       Number of the second se	DESCRIPTION       No.       Variation       POSTAGE         10       Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.       10 <t< td=""><td>DESCRIPTION       10       10       10       Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.       162.9     GRAPHITIC SEDIMENT - dark grey-black; fine grained, well foliated, foliated, over six inches with next lower unit.     6224     15     160.6     162.9     2.3       167.8     GRAPHITIC SEDIMENT - dark grey-black; fine grained, generally pyrrhotite 10 - 15%, in stringers and bands, gradational contact over six inches with next lower unit.     6225     -     162.9     167.8     5.1       Average Modes       Quartz     30     -     40%       Quartz     30     -     40%       Biotite     10     -     15%       Muscovite     10     -     15%       Muscovite     10     -     15%       Muscovite     10     -     15%       Muscovite     166.5     -     166.7       -     166.4     -     162.9     6226       -     165.7     -     162.9     -       -     166.5     -     166.7     -     169.3       -     -     166.6     -     162.9     -       -     -     166.6     -     162.9     -<!--</td--><td>DESCRIPTION         10       Postact         10       Postact         10       Postact         10       Postact       10         Privite appears as smears on foliation planes and on a few iffactures at 65° to core axis.         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Lower section resembles quarts-feldspar porphyry.       - 163.7 - 163.9 - quartz vein         - 164.1 - 164.6 - small, irregular quartz veins comprise 50% of section       - 169.3 - 166.7 - 8       169.3 1.5         - 169.3 - chalcopyrite and pyrrhotite stringer.</td></td></t<> <td>DESCRIPTION       10       10       Pyrite appears as amears on foliation planes and on a few fractures at 65° to core axis.       162.9       ORAPHITIC SEDIMENT - dark grey-black; fine grained, well foliated, pyrthotite 10 - 15%, in stringers and bands, gradational contact over six inches with next lower unit.       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     162.9     167.8     5.1       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     162.9     167.8     5.1       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     162.9     167.8     5.1       167.8     CHERTY SEDIMENT - medium grey; fine to medium grained, generally poorly follated at 55° to core axis.     6225     -     167.8     5.1       Muscovite     10     -     153     -     6226     15     167.8     5.1       Muscovite     coare grained, in irregular stringers in quartz-rich arcss. Lower section     -     6226     15     167.8     169.3     1.5       169.3     -     166.5 - 166.7 - quartz vein     -     6226     15     167.8     169.3     1.5   <td>DESCRIPTION         10       2001/201         10       2001/201       2.3       X</td></td>	DESCRIPTION       10       10       10       Pyrite appears as smears on foliation planes and on a few fractures at 65° to core axis.       162.9     GRAPHITIC SEDIMENT - dark grey-black; fine grained, well foliated, foliated, over six inches with next lower unit.     6224     15     160.6     162.9     2.3       167.8     GRAPHITIC SEDIMENT - dark grey-black; fine grained, generally pyrrhotite 10 - 15%, in stringers and bands, gradational contact over six inches with next lower unit.     6225     -     162.9     167.8     5.1       Average Modes       Quartz     30     -     40%       Quartz     30     -     40%       Biotite     10     -     15%       Muscovite     10     -     15%       Muscovite     10     -     15%       Muscovite     10     -     15%       Muscovite     166.5     -     166.7       -     166.4     -     162.9     6226       -     165.7     -     162.9     -       -     166.5     -     166.7     -     169.3       -     -     166.6     -     162.9     -       -     -     166.6     -     162.9     - </td <td>DESCRIPTION         10       Postact         10       Postact         10       Postact         10       Postact       10         Privite appears as smears on foliation planes and on a few iffactures at 65° to core axis.         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Lower section     -     6226     15     167.8     169.3     1.5       169.3     -     166.5 - 166.7 - quartz vein     -     6226     15     167.8     169.3     1.5 <td>DESCRIPTION         10       2001/201         10       2001/201       2.3       X</td>	DESCRIPTION         10       2001/201         10       2001/201       2.3       X	

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BEN LAKE

NAME OF PROPERTY.

NAME OF PROPERTY\_\_\_\_BEN\_LAKE

HOLE NO \_\_\_\_\_\_\_ 6 of 13

F00	TAGE	DECONOLIS			SAMP	LE		[		ASSAYS		
FROM	TO	DESCRIPTION	NO.	N SULPH IDES	FROM	7007AGE	TOTAL	``	`	02 TON	61 TON	
		Average Modes Chlorite 50 - 60X Biotite 30 - 40X Quartz 10 - 15X . Carbonate 1 - 2X Pyrite trace disseminated										
187.5	.92.4	QUARTZ-FELDSPAR PORPHYRY - medium grey; medium grained, foliated at 50° to core axis, well carbonatized, upper and lower contacts concordant.	6230	-	187.5	192.4	4.9			<b>&lt;</b> .001		
		Average Modes Quartz 50 - 60% Feldspar 40 - 50% Biotite 5 - 10%										
	1	One to two ma phenocrysts 5 - 10% of unit.										
		- 191.1 - 191.2 - chlorite-biotite rich band with 1 - 2Z pyrrhotite, trace to 0.5Z pyrite.										
192.4	200.5	MAFIC FLOW - medium to dark green; poorly foliated at 60° to core axis. Abundant quartz-cerbonate stringers. Brecciated by quartz-carbonate stringers at 194.5 to 195.0 and 199.0 to 199.6.	6231	tr	197.0	198.2	1.2			<.001		
		<ul> <li>197.8 - quartz-carbonate stringer with 1 - 2% pyrrhotite.</li> </ul>										
200.5	204.8	MAFIC TUFF - as 182.5 - 187.5										
204.8	206.5	QUARTZ-FELDSPAR PORPHYRY - ab 187.5 - 192.4	6232	-	204.8	206.5	1.7			<b>(</b> .001		
206.5	208.4	<u>MAFIC TUFF</u> - as $182.5 - 187.5$ 1 - 2% pyrrhotite; disacminated and as fine stringers.				· · ·						
208.4	209.5	QUARTZ-FELDSPAR PORPHYRY - 49 187.5 - 192.4	6233	-	208.4	209.5	1.1			<b>č.</b> 001		
						3.					{	

NAME OF PROPERTY\_\_\_\_\_BEN LAKE

HOLE NO \_\_\_\_\_\_ BL-86-2\_\_\_\_\_\_ SHEET NO \_\_\_\_\_ 7 UE 13

F001	AGE		[		SAMP	. E				ASSAYS		
FROM	to	DESCRIPTION	NO.	T BULPH	FROM	FOOTAGE	TOTAL	N	·	01 700	62 104	
209.5	232.1	MAFIC TUFF - as 182.5 - 187.5 Pewer quartz-carbonate stringers, trace disseminated pyrrhotite.										
212.1	216.1	BANDED IRON FORMATION - medium to dark grey; well banded, banding and foliation at 50° to core axis. Alternating chert and magnetite bands. Banding regular at top of unit, irregular at bottom. Extensive pyrrhotite replacement of magnetite 212.1 - 214.0. Trace <u>chalcopyrite</u> at 212.8.	6234	5	212.1	216.1	4.0			,083		
		Average Modes				1			1			
		Chert 50 - 607 Magnetite 35 - 407 Pyrrhotite 3 - 57 Chlorite 3 - 57										
216.1	217.0	MAFIC TUFF - as 182.5 - 187.5	6235	-	216.1	217.3	1.2			.001		•
217.0	217.3	QUARTZ-FELDSPAR PORPHYRY - as 187.5 - 192.4	1			} -						
217.3	217.6	MAFIC TUFF - AB 182.5 - 187.5										
217.6	220.9	QUARTZ-FELDSPAR PORPHYRY - as 187.5 - 192.4	6236	-	217.6	220.9	3.3			<b>く</b> .001		
220.9	222.9	HAFIC TUFF - as 182.5 - 187.5. 0.5 - 1% pyrrhotite.	6237	1	220.9	222.9	2.0			<b>&lt;</b> .001		
		- 221.9 - 222.0 - guartz-feldspar porphyry				1						
222.9	236.4	QUARTZ-FELDSPAR PORPHYRY - as 187.5 - 192.4	6238	-	222.9	227.0	4.1			(.001		
		- 224.5 - 225.0 - 70 - 80% biotite	6240	-	232.0	236.4	4.4			<.001		
236.4	253.6	MAFIC FLOW - typical									Í	
		- 237.7 - 237.8 - quartz-carbonate vein, 2 - 3% pyrrhotite	624)	tr	244.0	247.0	3.0			6.001		
•		- 244.4 - 244.8 - brecciated, angular fragments in quartz-carbonate matrix			244.0		3,0			2.001		

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NAME OF PROPERTY\_\_\_\_BEN\_LAKE

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			HOLE NO						EET NO	<u> </u>	<u>[ 13 .</u>
F00	TAGE		SAMPLE NO 1, SULPH FOOTAGE IDES FROM TO TO					l .		ASSAYS	
FROM	10	DESCRIPTION	N0	IDES	FROM	F00TAG	10141			02 104	61 104
		- 245.1 - 246.9 - brecciated, angular fragments in quartz-carbonate matrix, occasional patches of disseminated pyrrhotite.									
253.6	256.4	MAFIC TUFF - 88 182.5 - 187.5									
256.4	269 ,0	QUARTZ-FELDSPAR PORPHYRY - as 187.5 - 192.4	6242	-	256.4	260.0	3.6			٢.001	
		<ul> <li>- 263.0 - 269.0 - blocky, fractured, infrequent pyrite coated fractures</li> </ul>	6243 6244	-	260.0	264.5	4.5			<b>(</b> .001	
269.0	277.3	MAFIC FLOW - typical									
		- 274.6 - 275.0 - brecciated.									
277.3	281.4	HAFIC TUFF - as 182.5 - 187.5. 30 - 40% quartz-carbonate stringers.			ί.		1		ļ	1	
		<ul> <li>- 280.0 - 281.4 - small displacement on fractures at 50° to core axis perpendicular to foliation. Trace to 0.5% pyrite on fractures.</li> </ul>									
281.4	342.7	<u>HAFIC FLOW</u> - typical, foliated at 50° to core axis, variable number of quartz-carbonate stringers.									
		- 282.2 - 282.7 - brecciated	ĺ							[	
		- 292.9 - 293.6 - brecciated	6245	-	291.5	293.6	1.1		1	<.001	
		- 292.9 - 293.0 - quartz-carbonate vein, 1 - 2% pyrrhotite	6246 6247 6248	2	293.6 294.8 311.5	294.8 295.7 312.6	1.2 0.9 1.1			<.001 <.001 <.001	
		- 295.1 - 295.5 - quartz-feldapar porphyry				1		[			
		- 297.7 - 298.3 - brecciated									
		- 307.0 - 307.8 - blocky		ĺ							
•		- 312.6 - 312.9 - quartz-carbonate vein with 1 - 2% pyrite, fracture perpendicular to core axis pyrite									

#### NAME OF PROPERTY\_\_\_\_\_BEN LAKE

F00	TAGE		\$AMPLE NO 1.50100 FOOTAGE 1055 FROM 10 1014L							ASSAYS		
FROM	TO	DESCRIPTION	NO	S SUL PH	FROM	TOOTAGE	10741	``	``	01 100	01 TO#	
		- 313.0 - 313.3 - quartz-carbonate vein										
	1	- 321.7 - 322.5 - brecciated	Į –									
		- 322.8 - 324.0 - brecciated										
		- 329.8 - 330.0 - quartz vein	1		ļ							
		- 330.9 - 331.7 - brecciated	ļ									
342.7	345.4	QUARTZ-FELDSPAR PORPHYRY - as 187.5 - 192.4	6249 6250	tr	342.6	343.8	1.2			<.001		
		- 343.0 - 343.8 - quartz vein, trace pyrite										
345.4	414.0	<u>MAFIC FLOW</u> - typical, large number of quartz-carbonate stringers, large amount of brecciation, notably 347.9 to 350.4 and 352.4 to 356.0.										
		- 355.0 - 356.0 - two .15' quartz veins	6251	-	354.8	356.3	1.5			<b>(</b> .001		
		- 396,4 - 396,5 - quartz-carbonate vein	6253	tr	408.5	409.4	0.9			<b>&lt;.0</b> 01	ĺ	
		- 399.8 - 400.0 - quartz-carbonate vein with trace pyrrhotite										
		- 408.8 - 409.0 - quartz-carbonate- <u>tourmaline</u> vein, trace pyrite, trace pyrrhotite										
		- 409.0 - 412.8 - coarse grained, large number of quartz- carbonate stringers.										
414.0	415.0	QUARTZ-FELDSPAR PORPHYRY - as 187.5 - 192.4	6254	-	414,0	415.0	1.0			<.001		
415.0	435.3	MAFIC FLOW - dark green-grey; fine to medium grained, poorly foliated at top of section, foliated 45° to core axis.										
•		- 417.1 - 417.2 - quártz-carbonate vein				1						•
		- 419.2 - 410.3 - quartz-carbonate vein	6255	-	418.7	419.7	1.0			<b>&lt;</b> .001	ĺ	ļ

HOLE NO. \_\_\_\_\_\_\_ BL-86-2\_\_\_\_\_\_ SHEET NO. \_\_\_\_ 9 OF 13

- TONONTO

.

NAME OF PROPERTY\_\_\_\_\_\_BEN\_LAKE

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F001	TAGE		Γ		SAMPI	.8				ASSAYS		. ]
FROM	то	DECRIPTION	NO.	1 SULPH	FROM	1001ACE	TOTAL	``	``	01.100	01 10=	
		- 423.6 - small quartz- <u>tourmaline</u> vein										
		- 424.9 - 425.3 - 5 - 10% biotite		ļ								
		- 425.9 - 435.3 - 5 - 10% biotite										
		- 433.5 - 433.8 - quartz-carbonate vein, 0.5 - 1% pyrrhotite.	6256	1	433.2	434.4	1.2			.001		
		- 433.8 - 434.5 - 0.5 - 1% pyrrhotite.										
435.3	441.8	<u>MAFIC FLOW</u> - medium green grey; medium grained, foliated at 55° to core axis, somewhat mottled appearance due to clumps of anhedral amphiboles, infrequent quartz-carbonate stringers.										
		Average Hodes	1									
		Chlorite 50 - 60% Amphibolog 2() - 10%			•		1					
		Biotite 10 - 15X Quartz 10 - 15X				A Shere (1994)						
441.8	442.7	<u>QUARTZ-CARBONATE VEIN</u> $-70 - 802$ quartz-carbonate, 20 - 302 lenses and stringers of mafic minerals, trace disseminated pyrrhotite.	6257	tr	441.8	442.7	0.9			.006		
442.7	455.3	MAFIC FLOW - as 192.4 - 200.5										
455.3	475.0	AMPHIBOLE - as 43.7 - 88.3 Few quartz-carbonate stringers, poorly folisted 55° to core axis.				يالي المراجع						
475.0	480.2	MAFIC FLOW - as 192.4 - 200.5	6258	tr	474.9	477.0	2.1			.001		
		- 475.2 - 476.0 - quartz- <u>tourmaline</u> vein with trace pyrite										
		- 476.4 - 476.7 - quartz- <u>tourmaline</u> vein with 0.5 - 1% pyrrhotite in blebs with <u>tourmaline</u> .										
480.2 •	483,8	<u>MAPIC TO INTERMEDIATE TUFF</u> - light to dark grey; fine to medium grained, well foliated at $40^\circ$ to core axis, alternating bands of	6259	3	480.2	483.8	3.6			.001		
						- à						

NAME OF PROPERTY\_\_\_\_BEN\_LAKE

HOLE NO \_\_\_\_\_\_ BL-86-2 \_\_\_\_\_\_ SHEET NO \_\_\_\_\_ 11 UF 13 .\_\_\_\_\_

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FUOT	AGE		SAMPLE NO 1 BULPH PODTAGE 10ES TADM TO							ASSAYS		
FROM	10	DESCRIPTION	NO	IDES	FROM	7007AGE	TOTAL	``	•	01 10#	61 100	
		light and dark grey prominent, pyrrhotite as infrequent atringers and blebs, also disseminated. Average Modes										
		Quartz     30     -     40%       Feldspar     20     -     30%       Biotite     15     -     25%       Chlorite     15     -     25%       Pyrrhotite     2     -     3%										
483.8	501,1	BANDED IRON FORMATION - medium to dark grey; fine to medium grained, banding generally prominent at 55° to core axis, in some areas obscured or destroyed by garnet growth. Garnets are $3 - 5$ mm pink, poikiloblastic, generally in bands $3 - 5$ inches wide. Pyrrhotite as fine stringers and blebs, in some places replaces magnetite.	6260 6261 6262 6263	5 5 5	483.8 487.0 492.0 497.0	487.0 492.0 497.0 501.1	3.2 5.0 5.0 4.1			<.001 <.001 <.001 <.001		
		Average HodesChert30-40%Hagnetite20-30%Grunerite5-10%Chlorite5-10%Pyrrhotite3-5%Garnets3-5%										
		<ul> <li>486.3 - 486.8 - garnetiferous hand with pyrrhotite; well developed tremolite-actinolite.</li> </ul>										1
501.1	506.0	<u>HAFIC TUFF</u> - medium to dark green-grey; fine to medium grained, well foliated at 50° to core axis, banding less distinct at top of unit, infrequent quartz-carbonate stringers.										l
		Average Modes Chlorite 40 - 50% Biotite 20 - 30%										' [
		Feldspar 20 - 30X									l, I	

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NAME OF PROPERTY\_\_\_\_\_BEN LAKE

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FOOTAGE		SAMPLE NO. 150170 FOOTAGE NO. 1055 FROM TO TOTAL						ASSAYS			
FROM TO	DESCRIPTION	ND.	SULPH IDES	FROM	7001AGE	TOTAL	Ň	•	01 100	62 TON	
506.0 517.8	<ul> <li>- 503.0 - 505.3 - several fractures sub-parallel to parallel to core axis, 1/4" displacement.</li> <li><u>BANDED IRON FORMATION</u> - as 483.8 - 561.1</li> <li>- 507.8 - pyrrhotite filled fracture parallel to core axis, displacement 1/4"</li> </ul>	6264 6265 6265	5 5 5	506.0 511.0 514.0	511.0 514.0 517.8	5.0 3.0 3.8			<.001 .005 .005		
517.8 564.0	<ul> <li>- 509.5 - minor folding</li> <li>- 512.5 - 514.5 - folding and distortion of bands</li> <li>- 517.5 - 517.8 - pyrite stringers and blebs.</li> <li><u>GREYWACKE</u> - dark grey; fine to medium grained, moderately well foliated at 45° to core axis.</li> <li><u>Average Hodes</u></li> <li>Chlorite 20 - 30%</li> <li>Quartz 20 - 30%</li> <li>Quartz 20 - 30%</li> <li>Biotite 15 - 20%</li> <li>Amphiboles 10 - 15%</li> <li>Pyrite trace disseminated</li> <li>Pyrhotite trace disseminated</li> <li>- 527.4 - 527.6 - quartz-carbonate vein</li> <li>- 529.3 - fracture at 40° to core axis sub-parallel to foliation, trace pyrite</li> <li>- 531.0 - 532.0 - fracture sub-parallel to core axis 5 - 10%</li> <li>pyrite blebs on surface</li> <li>- 536.0 - trace pyrhotite associated with small quartz-</li> </ul>	6267 6268 6269	tr tr	527.0 530.6 547.6	528.1 532.2 549.5	1.1 1.6 1.9			<.001 <.001		

UNIGNOCES - TONONTO - 366-1166

			н		\$H	EET NO.		of 13 .	·			
FOOT	AGE		SAMPLE NO \$ \$ULPM FOOTAG					Γ		ASSAYS		
FROM	tÖ		ND.	S SUL PH	FROM	POOTAGE	TOTAL	、	`	07 10m	42 100	
		~ 548.3 - 548.7 - trace pyrrhotite disseminated										
		- 550.1 - 550.2 - quartz-carbonate vein	6270	tr	549.5	550.5	1.0	l		<b>&lt;</b> .001		
564.0		End of Hole.										
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NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

NAME OF	PROPERTY		EN LAKE			
HOLE NO.	BL-86-3		LENGTH _	207		
LOCATION	L32E	1+46N				
LATITUDE			DEPARTU	?E		
ELEVATION			AZIMUTH	<u>335°</u>		-45°
STARTED C	ctober 15.	1986	FINISHED	October	16, 1986	

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
207'	-38.19				

HOLE NO. BL-BG-3 SHEET NO. 1.01.

REMARKS SUBMARY LOB

Claim 57004

LOGGED BY I.. Jones

FOO	TAGE		Ι		5 A M P	LE			A	5 5 A	v 5	
FROM	10	SUMMARY LOG	NO.	INES!	FROM	FOOTAGE	TOTAL			02/10H	02/10N	
0	4.0	CASING										
4.0	6.5	MAFIC FLOW - typical.										
6.5	8.3	MAFIC TUFF - dark grey, fine to medium grained.										
8.3	22.5	MAFIC FLOW - typical.										
22.5	24.1	INTERMEDIATE TO FELSIC TUFF - fine grained, medium grey.										
24.1	26.5	MAFIC TO INTERMEDIATE TUFF - fine to medium grained, medium green- grey.										
26.5	50.4	MAFIC FLOW - typical.										
50.4	53.1	INTERMEDIATE TO FELSIC TUFF - typical.	6005	tr	51,1	52.1	1.0			.024		
53.1	56.5	MAFIC TO INTERMEDIATE TUFF - typical.										
		- 55.5 - 56.5 - quartz-tourmaline vein.										
56.5	80.9	MAFIC FLOW - typical.										
80,9	87.6	SILICIFIED MAFIC FLOW - light to medium grey-green.										
87.6	88,4	INTERMEDIATE TO FEISIC TUFF - typical.										
88.4	91,1	MAFIC FLOW - typical.										
91.1	91.6	QUARTZ-FELDSPAR PORPHYRY - typical.					:					
91.6	94.0	MAFIC FLOW - typical.										
94.0	108.4	INTERMEDIATE TO FELSIC TUFF - typical.				1	Ì	ļ			I	1

NAME OF PROPERTY\_\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF 2

14. Ju

F001	TAGE				SAMPL	. E				ASSAYS		
FROM	10	DESCRIPTION	ND.	SULPH IDES	FROM	FOOTAGE TO	TOTAL	r	•	02 704	62 104	
108.4	112.0	FELSIC TUFF - brecciated in places.										
112.0	120.0	INTERMEDIATE TO FELSIC TUFF - typical.						[				
120.0	121.7	MAFIC TO INTERMEDIATE TUFF										
12).7	133.0	GREYWACKE - typical.										
133.0	135.4	MAFIC FLOW - typical.										
135.4	137.2	MAFIC TO INTERMEDIATE SILL - medium grey, medium grained.										
137.2	142.7	MAFIC FLOW - typical.										
142.7	147.4	<u>GREYWACKE</u> - typical.										
147.4	151.1	MAFIC INTRUSIVE.			•							
151.1	158.8	MAFIC TUFF - typical.										
158.8	200.5	MAFIC FLOW - typical.										
		- 188.7 - 188.9 - quartz- <u>tourmaline</u> vein.										
200.5	203.1	INTERMEDIATE TO PELSIC TUFF - typical.										
203.1	206.4	MAFIC FLOW - typical.										
206.4	206.7	INTERMEDIATE TO FELSIC TUFF - typical.										
206.7	207.0	MAFIC FLOW - typical.								2	1,	
207.0		End of Hole.								210	AL	n
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NAME O	F PROPI	ERTY BEN LAKE	FOOTAGE	DIP A	ZIMUTH	FOOTAGE	DIP	ZHAUTH					
HOLE NO	b. <u>BL-</u>	86-3 LENGTH 207'				┠┦			REMA	RKS			
LOCATIO	N _1.32	E 1+46N	-207'-	18.1°		ł				Claf	m 57004	4	
LATITUD	ε	DEPARTURE										•	
ELEVATI	ON	AZIMUTH DIP				{}							
STARYED	Octob	er 15, 1986 FINISHED October 16, 1986				L	I		LOGGE	) BY	L.Jones	<u>.</u>	
1001	I A G E			I		5 A M I	ν. <b>Ε</b>		1	A	SSAN	1 5	
FROM	10	UESCRIPTION		NO	IN P	FROM	FOOTAGE	TOTAL		s.	02/TON	02/10N	
0	4.0	CASING			1								
4.0	6.5	MAPIC FLOW - typical											
6,5	8.3	MAFIC TUFF - dark grey; fine to medium grained, well folia 57° to core axis, blocky, fractured 15° to core axis.	ited at										
		Average Modes											
		Chlorite 30 - 40X Amphiboles 20 - 30X						4					
	ļ	Feldspar 20 - 30X Quartz 10 - 20X											
8.3	22.5	MAFIC FLOW - typical, foliated $70^{\circ}$ to core axis.			ł								
		- 20.6 - 20.9 - quartz-carbonate vein		600	1 -	20.3	21,3	1,0			< .001		
22.5	24.1	INTERMEDIATE TO FELSIC TUFF - medium grey; fine grained, moderately well developed banding at 65° to core axis. Py	rite										
		disseminated on foliation planes and as smears on fracture to core axis at 24.0. Infrequent quartz-carbonate stringe	50° 	6002	2 1	23.0	24.1	1.1			.002		
		Average Modes											
		Quartz 30 - 40% Chlorite 30 - 40%		l							· 1		
	}	Biotite 20 - 307		N	1	1	1	1					ľ
	ł	Feldspar 10 - 20%		li i				}			}		
		Pyrite 0.5 - 17		li I		1		[ [		{	{		1
, 1	· ]			ll	ļ	[`		1		1		1	1
1 1						1		ļļ	1	ł	1	ł	Į

HOLE NO. BL-86-3 SHEET NO. 1 OF 7



NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

SHEET NO 2 OF 7

SAMPLE ASSAYS FOOTAGE DESCRIPTION S SULPH TODTAGE FROM 10 ND. ۰. 01 10m 61 104 1005 TROW 10 TOTAL 24.1 26.5 MAFIC TO INTERMEDIATE TUFF - medium green-grey; fine to medium grained, foliated at 55° to core axis. Average Hodes Chlorite 60 702 Amphiboles 20 307 Quartz 5 107 6003 1 25.5 26.5 (,001 - 25.9 - 26.5 - two 1" quartz-carbonate veins with 1.0 0.5 - 1% pyrite associated. 26.5 50.4 MAFIC FLOW - typical - 36.2 - 36.4 - guartz-carbonate vein 0.5 - 1% 1mm cubic pyrite on fracture 50° to core axis 6004 1 35.8 36.8 **〈**.001 1.0 50.4 53.1 INTERMEDIATE TO FELSIC TUFF - light to medium grey; fine to medium grained, foliated at 70° to core axis, moderately well banded. Average Hodes Feldspar 30 40X 40Z Biotite 30 Quartz 10 207 6005 tr 51.1 Pyrite disseminated 52.1 1.0 .024 trace - 51.1 - 51.6 - fracture sub-parallel to core axis with pyrite smears 366-1168 - 51.8 - 51.9 - quartz-carbonate vein. DGES - TOPONTO -53.1 56.5 MAFIC TO INTERMEDIATE TUFF - medium green-grey; fine grained, 6006 1 moderately well banded, foliated at 70° to core axis. 53.1 55.2 2.1 ٢.001

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NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO \_\_\_\_\_\_ BL-86-3 \_\_\_\_\_ SHEET NO \_\_\_\_\_ 3 OF 7

F 001	TAGE	DECONDEND	SAMPL. NO. LEULPH I IDES FROM		E				ASSAYS		]	
FROM	٢٥		NO.	1 SULPH	FROM	FOOTAGE	FOTAL	3	<b>\</b>	02 104	01 TON	
		Average Hodes         Chlorite       50       -       60%         Biotite       20       -       30%         Feldspar       10       -       20%         Pyrite       0.5       -       1%       disseminated         -       55.2       -       55.7       -       fracture at 20° to core axis, trace to 0.5%         0.5%       pyrite disseminated and as smears       -       -       55.5       -       56.5       -       quartz-tournaline vein at low angle to core axis. Trace pyrite associated with tournaline.	6007	tr	55.2	56.5	1.3			<.001		
56.5 80.9	80.9 87.6	<u>MAFIC FLOH</u> - typical <u>SILICIFIED MAFIC FLOH</u> - light to medium grey-green; fine grained, foliated at 55° to core axis. Irregular patches and wisps of greyish, silicified areas interspersed with greyish, more chloritic areas.										
		- 80.9 - 84.5 - most intense silicification, brecciated frequently, 0.5 - 1% pyrite as fine stringers and disseminated.	6008	1	80.9	82,3	1.4			<b>&lt;</b> .001		
87.6	88.4	INTERMEDIATE TO FELSIC TUFF - medium grey; fine grained, poorly bunded, foliated at $65^{\circ}$ to core axis. Fracture at $40^{\circ}$ to core axis across banding with trace pyrite as smear. Pyrite trace to 0.52 disseminated and as fine stringers.	6009	0.3	87.6	88,4	0.8			<.001		
		<u>Average Hodes</u> Quartz 50 - 607 Biotite 10 - 207 Feldspar 10 - 207										
88,4	91.1	MAFIC FLOW - typical, foliated 70° to core axis.										f
		- 88,4 - 89,3 - fracture parallel to core axis				-						

NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_ SHEET NO. \_\_\_\_ 4 OF 7

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FOOT	AGE		SAMPLE NO 15469 FOOTAGE 1065 FROM TO TO							ASSAYS		
FROM	10	· UESCRIPTION	NO	1 SULPH	FROM	700TAGE	10141	``	•	01 104	61 100	
91.1	91.6	- 89.5 - 90.0 - fractures at 20° to core axis - 90.8 - <u>epidote</u> in pillow selvage (?) <u>QUARTZ-FELDSPAR PORPHYRY</u> - medium grey; fine-medium grained, foliated 70° to core axis. 5 - 10% 1 mm phenocrysts. Average Modes	6010	1	90.8	91.8	1.0			< .001		
91.6	94.0	Quartz 50 - 60% Feldspar 30 - 40% Biotite 10 - 15% Pyrite 0.5 - 1% disseminated and as blebs										
94.0	108.4	NAPIC PLON - Cypical         INTERMEDIATE TO FELSIC TUFF - medium grey; fine grained, poorly developed banding. Banding and foliation 65° to core axis.         Average Hodes         Quartz       50       -       60%         Feldspar       20       -       30%         Biotite       10       -       20%         Chlorite       10       -       20%	6011 6012 6013 6014 6015 6016	1 2 1 2 0.5 0.5	94.0 95.7 98.0 98.9 102.1 105.6	95.7 98.0 98.9 102.1 105.6 108.4	1.7 2.3 0.9 3.2 3.5 2.8			<pre>{ .001 &lt; .001 &lt; .001 &lt; .001 &lt; .001 &lt; .001</pre>		
108,4	112.0	Pyrite 0.3 - 14 Pyrite disseminated, and as stringers, irregularly distributed. <u>FELSIC TUFF</u> - medium grey with frequent bands of orange-red staining; veinlets of quartz-carbonate- <u>epidote</u> , brecciated in places, notably 108.4 to 108.6. The brecciation post-dates the orange-red staining - possibly hematite stains. Trace pyrite as blebs and fine stringers. - 110.0 - fracture at 30° to core axis, minor pyrite smears	6017	tr	109.5	110.5	1.0			< .001		

#### NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_\_\_ SHEET NO \_\_\_\_\_\_ SALET NO \_\_\_\_\_\_

FOOT	AGE		SAMPLE -0 1500FAGE -0 1969 1800 10 10							ASSAYS		
FROM	то	DESCRIPTION	-10	I SULPH	FRON	POOTAGE	TOTAL	•	<b>\</b>	01 100	UJ 100	
112.0	120.0	INTERMEDIATE TO FELSIC TUFF - medium grey; fine to medium grained, moderately well developed banding at 65° to core axis, pyrite trace.										
		Average Modes										1
		Quartz 60 - 70% Biotite 20 - 30% Feldapar 20 - 30%										
		- 114.5 - 116.0 - frequent pyrite coated fractures	6018 6019	tr tr	114.5 117.0	116.0	1.5			<.001 <.001		
120.0	121.7	MAFIC TO INTERMEDIATE TUFF - medium grey-green; fine grained, foliation 65° to core axis, stringers of pale orange-red hematite staining.										
121.7	133.0	<u>GREYWACKE</u> - medium grey-green; fine to medium grained, $\alpha$ ccasional quartz-carbonate stringers, foliated 60° to core axis										
		Average Hodes										
		Chlorite 40 - 50X Amphiboles 30 - 40X Quartz 10 - 20X Feldspar 5 - 10X				4 						
133.0	135.4	HAFIC FLOW - typical		Į	l							
		- 133.0 - 133.5 - trace to 0.5% diaseminated pyrrhotite on fracture at 40° to core axis, perpendicular to foliation.	6021	0.5	133.0	134.0	1.0			.001		
135.4	137.2	MAFIC TO INTERNEDIATE SILL - medium grey; medium grained, concordant contacts, no apparent foliation.										
		Average Hodes				5. C						
•		Amphiboles 30 - 40%										

NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_ BL-86-3\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 6 of 7

14

F00'	TAGE		T		SAMPI	.E		<b></b>		ASSAYS		
FROM	70	DESCRIPTION	NO.	-	FROM	FOOTAGE	10 (4)	· ·	$\overline{\ }$	01 100	01 104	
		Chlorite 20 - 302 Quartz 20 - 303 B'otite 10 - 203 Feldspar 5 - 102									·	
137.2	142.7	Some tremolite-actinolite present, as well as other amphiboles. MAFIC FLOW - typical										
142.7	147.4	<u>GREYWACKE - as 121.7 - 133.0</u>										
147.4	151.1	<u>MAFIC INTRUSIVE</u> - medium to dark grey; fine to medium grained, moderately well foliated at 70° to core axis.										
151.1	158.8	Average HodesAmphiboles40-50%Chlorite20-30%Biotite10-20%Quartz5-10%Feldspar5-10%-147.4-148.4-trace to 0.5%pyrrhotiteMAFIC TUFF - medium to dark green; fine grained, moderately well developed banding. Banding and foliation 60° to core axis. Quartz-carbonate stringers common.Average ModesChlorite40-S0%Biotite20-30%Feldspar10-20%Quartz5-10%	6022	0.5	147.4	148.4	1.0			.001		
		- 158.0 - 158.6 - two 0.2' quartz-feldspat porphyry intrusives.	6023	-	157.8	158.8	1.0			<.001		

: B NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

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HOLE NO. \_\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF 7\_\_\_\_\_

F00	TAGE	DESCRIPTION	1		SAMP	LE		ASSAYS						
FROM	70	UESCHIPTION	NO	1 SULPH	Faou	TO	TOTAL	,	•	07 TO#	61 104			
158.8	200.5	MAFIC FLOW - typical, foliated 60° to core axis												
		- 163.5 - fracture across foliation with pyrite blebs	6024	tr	162.8	163.8	1.0	Ì		<.001				
		- 185.5 - fracture with pyrite	6025	l tr	185.4	186.7	1.3			.001				
		- 186.6 - fracture with pyrite	6026	tr	188.3	189.3	1.0			<.001				
		- 188.7 - 188.9 - quartz-tournaline vein with trace to 0.5% pyrrhotite	6027	tr	195.5	196.5	1.0			<.001				
		- 196.0 - fracture with pyrite blebs	6028	tr	199.5	200.5	1.0			<.001				
		- 199.9 - 200.1 - quartz-feldspar porphyry stringer			ł		i							
200.5	203.1	INTERMEDIATE TO FELSIC TUFF 112.0 - 120.0												
203.1	206.4	MAFIC PLOW - typical		ļ										
		<ul> <li>206.0 - fracture at low angle to core axis with disseminated pyrite.</li> </ul>	6029	tr	205.5	206.4	0.9			<.001				
206.4	206.7	INTERMEDIATE TO FELSIC TUFF - as 112.0 - 120.0												
206.7	207.0	HAFIC FLOW - typical												
207.0		End of Hole.												
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										N	Inn	N		
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NAME OF PROPERTY	BEN LAKE	FOOTAGE
HOLE NO. <u>BL-86-4</u> 142E 19+50N	LENGTH	3001
LATITUDE	DEPARTURE	
ELEVATION	AZIMUTH 335° DIP46°	
STARTED October 16, 1986	FINISHED October 18, 1986	L

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
3001-	-39.19				

#### HOLE NO. BL-86-4 SHEET NO. 1 OF )

REMARKS Summary Log

Claim 719629

LOGGED BY \_\_\_\_\_L. Jones

FOOTAGE			Ī		5 A M P	LE			A S S A Y S				
FROM	10	SUNMARY LOG		SUL PH	FROM	FOOTAGE	TOTAL	*	:	02/10N	02/101		
0	130.0	CASING				-							
130.0	133.5	<u>GREYWACKE</u> - dark grey, medium grained, typical.											
133.5	136.5	SHEAR ZONE - broken, friable, clay-like consistency, well carbonatized.											
136.5	239.8	GREYWACKE - typical.	l										
239.8	251.0	<u>GREYWACKE</u> - fine grained, medium grey-brown.				. 1							
251.0	259.8	<u>GREYWACKE</u> - typical.											
259.8	261.5	HAFIC TUFF - typical.											
261.5	269.9	<u>CREYWACKE</u> - typical.	1										
269.9	300.0	INTERMEDIATE TO FELSIC TUPF - typical.											
300.0		End of Hole.											
						and the second secon			C	À	Par	an	

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							- B1-86-4
NAME OF PROPERTYBEN LAKE	FOOTAGE	OIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH	HOLE NO. BLOOM SHEET NO. LOL S
HOLE NO LENGTH			l				REMARKS
LOCATION LAZE 19+50N	300'	-39.19					
LATITUDE DEPARTURE							Claim 719629
ELEVATION AZIMUTH 335° DIP -46°							
STARTED October 16, 1986 FINISHED _ October 18, 1986	L			L		i	LOGGED BY L.JONES
				_	_		

TAGE				5 A M P	LE		A 5 5 A Y 5						
τo		NO.	SUL PH	FROM	FOOTAGE	TOTAL	4	5	02/10N	02/10N			
130.0	CASING				[								
133.5	<u>GREYWACKE</u> - dark grey; medium grained, moderately well foliated at $75^{\circ}$ to core axis. Foliation shown by alignment of 1 - 2 mm acicular amphiboles.	6103	tr	130.0	133.5	3,5			<b>く</b> .001				
	Average Modes												
	Quartz     50     -     60%       Feldspar     20     -     30%       Biotite     10     -     15%       Amphiboles     10     -     15%												
136.5	SHEAR ZONE - broken up, approximately 1.5 feet missing, most of section is brittle, clay-like, very frisble, well carbonatized. One fragment contains quartz- <u>epidote</u> -chlorite.	6104	-	133.5	136.5	3.0			<.001				
239.8	GREYWACKE - as 130.0 - 133.5. Infrequent hematite staining.												
	- 136.5 - 136.8 - quartz vein, minor hematite stains	6030	-	136.5	137.5	1,0			<.001				
	- 146.8 - 147.2 - very blocky	0103		137.3	140.0	2.5							
	- 147.6 - 148.1 - very blocky												
	- 155.5 - fracture at low angle to core axis, no sulphides												
	- 162.0 - fracture at low angle to core axis, no sulphides												
	<ul> <li>162.7 - 1/4" wide schistose zone, very friable, possible shear, 80° to core exis</li> </ul>												
	TAGE TO 130.0 133.5 136.5 239.8	TAGE       DESCRIPTION         130.0       CASING         133.5       GREYWACKE - dark grey; medium grained, moderately well foliated at 75° to core axis. Foliation shown by alignment of 1 - 2 mm acicular amphiboles.         Average Modes       Quartz       50 - 607         Peldspar       20 - 307         Biotite       10 - 152         Apphiboles       10 - 152         Pyrite       trace         disseminated         136.5       SHEAR ZONE - broken up, approximately 1.5 feet missing, most of section is brittle, clay-like, very friable, well carbonatized. One fragment contains quartz-epidote-chlorite.         239.8       GREYWACKE - as 130.0 - 133.5. Infrequent hematite staining.         - 136.5 - 136.8 - quartz vein, minor hematite stains         - 146.8 - 147.2 - very blocky         - 155.5 - fracture at low angle to core axis, no sulphides         - 162.0 - fracture at low angle to core axis, no sulphides         - 162.7 - 1/4" wide schistose zone, very friable, possible shear, 80° to core axis	YAGE       DESCRIPTIO.4         YO       NO.         130.0       CASING         133.5       CREYWACKE - dark grey; medium grained, moderately well foliated at 75° to core axis. Foliation shown by alignment of 1 - 2 mm acicular amphiboles.       6103         Average Modes       Quartz       50 - 60%         Quartz       50 - 60%       Feldspar         Yo       NO.       10 - 15%         Apphiboles       10 - 15%       Apphiboles         136.5       SHEAR 20NE - broken up, approximately 1.5 feet missing, most of section is brittle, clay-like, very frisble, well carbonatized. One fragment contains quartz-epidote-chlorite.       6104         239.8       GREYWACKE - as 130.0 - 133.5. Infrequent hematite staining.       6030         - 136.5 - 136.8 - quartz vein, minor hematite stains       6030         - 146.8 - 147.2 - very blocky       - 147.6 - 148.1 - very blocky       6105         - 155.5 - fracture at low angle to core axis, no aulphides       - 162.0 - fracture at low angle to core axis, no sulphides       - 162.7 - 1/4" wide schistose zone, very friable, possible shear, 80° to core axis	YAGE       DESCRIPTION         YO       NO. Market         130.0       CASING         133.5       GREYWACKE - dark grey; medium grained, moderately well foliated at 75° to core axis. Foliation shown by alignment of 1 - 2 mm acicular amphiboles.       6103       tr         Average Modes       Quartz       50 - 60%       Feldspar       20 - 30%         Biotite       10 - 15%       Amphiboles       6104       -         136.5       SHEAR ZONE - broken up, approximately 1.5 feet missing, most of section is brittle, clay-like, very friable, well carbonatized. One fragment contains quartz-epidote-chlorite.       6104       -         239.8       GREYWACKE - as 130.0 - 133.5. Infrequent hematite staining.       6105       -         - 136.5 - 136.8 - quartz vein, minor hematite stains       6030       -         - 146.8 - 147.2 - very blocky       -       155.5 - fracture at low angle to core axis, no sulphides       -         - 162.0 - fracture at low angle to core axis, no sulphides       -       -       6105       -         - 162.7 - 1/4" wide schistose zone, very friable, possible shear, B0° to core axis       -       -       -	TAGEDESCRIPTIONTOSAMPTONO. $\frac{\sqrt{5}}{\sqrt{5}}$ or $$	YAGE       DESCRIPTION       SAMPLE         YO       NO. NEED       FOOTAGE         130.0       CASING       NO. NEED       FOOTAGE         133.5       CRETWACKE - dark grey; medium grained, moderately well foliated at 75° to core axis. Foliation shown by alignment of 1 - 2 mm acicular amphiboles.       6103       tr       130.0       133.5         Average Modes       Quartz       50       - 602       FootAcce       130.0       133.5         Quartz       50       - 602       FootAcce       130.0       133.5       136.5         Quartz       50       - 602       FootAcce       130.0       133.5       136.5         136.5       SHEAR ZONE       10       - 152       Amphiboles       10       - 152         Amphiboles       10       - 152       Amphiboles       6010       -       133.5       136.5         136.5       SHEAR ZONE       broken up, approximately 1.5 feet missing, most of section is brittle, clay-like, very friable, well carbonatized.       6104       -       133.5       136.5         136.5       137.5       Socore axis       Infrequent hematite stains       6105       -       136.5       137.5         - 146.8       - 147.2       very blocky       -       137.5	SAMPLETO DESCRIPTIONTOTALADALOCCL COLSPANEADALTOTALTOTALTOTALTOTALTOTALTOTALTOTALTOTALTOTALTOTALTOTALTOTALTOTAL<	YAGE       SAMPLE         YO       FOOTAGE         130.0       CASING         133.5       GREYWACKE - dark grey; medium grained, moderately well foliated actual amphiboles.         Average Modes       Guartz         Quartz       50         Poilson       100         136.5       GREYWACKE - dark grey; medium grained, moderately well foliated actual amphiboles.         Average Modes       Guartz         Quartz       50         Poilson       10         Poilson       10         Biotite       10         136.5       SHEAR ZONE - broken up, approximately 1.5 feet missing, most of section is brittle, clay-like, very friable, well carbonatized.         One fragment contains quartz-epidote-chlorite.         239.8       GREYWACKE - as 130.0 - 133.5. Infrequent hematite stains         - 136.5 - 136.8 - quartz vein, minor hematite stains         - 146.8 - 147.2 - very blocky         - 146.8 - 147.2 - very blocky         - 146.9 - 148.1 - very blocky         - 152.7 - 1/4" wide schistose zone, very friable, possible shear, 80" to core axis	YAGESAMPLEAYOFORMACE130.0CASING133.5CREPWACKE - dark grey; medium grained, moderately well foliated at 75° to core axis. Foliation shown by alignment of 1 - 2 mm acicular amphiboles.6103tr130.0133.53.5Average Modea Quarte $50$ - 60Z Feldspar20 - 30Z Biotite10 - 15Z Pyrite130.0133.53.51136.5SHEAR ZONE - broken up, approximately 1.5 feet missing, most of section is brittle, clay-like, very frisble, well carbonatized. One fragment contains quarte-epidote-chlorite.6104-133.5136.53.0239.8CREVWACKE - as 130.0 - 133.5.Infrequent hematite stains - 136.5 - 136.8 - quarte vein, minor hematite stains - 136.5 - 136.8 - quarte vein, minor hematite stains - 147.6 - 148.1 - very blocky - 152.5 - fracture at low angle to core axis, no aulphides - 162.7 - 1/4" wide schistose zone, very friable, possible shear, 80° to core axis6104-137.51.0	YAGESAMPLEASSANYODESCRIPTIONSAMPLEASSANYONO. $\frac{1}{100}$ FOOLATIONSAMPLEASSANYOOTALSAMPLESAMPLESAMPLESSANYOOTALSAMPLESAMPLESSAN130.0CASENCESAMPLESAMPLESSAN130.0CASENCESAMPLESSAN130.0CASENCESAMPLESSAN130.0CASENCESAMPLESSAN130.0CASENCESSAN130.0CASENCESAMPLESAMPLESAMPLESSAN130.0CASENCESAMPLESAMPLESAMPLESAMPLESAN130.0CASENCEAdversage ModesQuartzSO601XPeldspar20SANSANSANSANSANSANSANSANSANSANSANSANSANSANSANSAN<	TAGESAMPLESAMPLETO DESCRIPTIONTO DESCRIPTIONTO DESCRIPTIONTO TOTALSAMPLETO TOTALSAMPLESAMPLESAMPLETO TOTALSAMPLESAMPLESAMPLETOTALSAMPLETOTALSAMPLEACRETWACKE - dark grey; medium grained, moderately well foliatedQuartsSONGONQuartsSONGONQuartsSONGONQuartsSONGONQuartsSONGONPriteTo colspan="2">SONSONOD Colspan=SONGONOD Colspan=SONGON </td		
HOLE NO \_\_\_\_\_\_\_ BL-86-4 \_\_\_\_\_\_ SHEET NO \_\_\_\_\_ 2 OF 3 \_\_\_\_\_

FOOT	TAGE	DECORDINA	SAMPLE					ASSAYS				
TROM	10	DESCRIPTION	NO.	SULPH IDES	TROM	FOOTAGE	70741	``	`	01 104	01 10w	
		- 190.3 - 191.4 - extensive hematite staining around small quartz-filled fractures										
		- 193.7 - 194.0 - quartz vein with hematite stains	6031	-	193.3	194.3	1.0			< .001		
		- 200.7 - 200.9 - quartz vein with hematite stains										
		- 213.5 - 214.5 - very blocky										
		- 223.5 - 224.0 - very blocky										
		- 224.5 - 225.0 - very blocky			}							
		- 227.0 - folistion at $75^{\circ}$ to core axis				İ						
		- 229.0 - fracture at 80° to core axis			•							
		- 235.0 - 239.8 - coarse amphiboles.										
239.8	251.0	<u>GREYWACKE</u> - medium grey-brown; fine grained, occasional lens of coarser grained material, usually carbonatized. Mineralogy as 130.0 - 133.5.										
		- 251.0 - fracture at 10° to core axis, quartz- carbonate filled.										
251.0	259.8	<u>GREYWACKE</u> - medium grained, as 239.8 - 251.0 except coarse grained lenses predominate over fine grained lenses.							- - - -			
259.8	261.5	<u>MAFIC TUPP</u> - dark green; medium grained, well banded, foliated at $80^{\circ}$ to core axis.										Î
		Average Modes										
		Chlorite 40 - 50X Tremolité-actinolite 40 - 50X										

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NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

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HOLE NO. BL-86-4 SHEET NO. 3 OF 3 SAMPLE ASSAVS FOOTAGE DESCRIPTION FOOTAGE TA SULPH NO. FROM ۲O • ۰. 02 TO# 01 10× 1065 FROM 10 TOTAL Quartz 10% 5 5 107 Feldspar 261.5 269.9 CREYWACKE - fine grained, as 239.8 - 251.0 ŝ, -267.5 - 268.0 - blocky269.9 300.0 INTERMEDIATE TO FELSIC TUFF - medium to dark grey with blue tinge; fine to medium grained, generally fire grained, poorly developed banding at 75° to core axis, infrequent hematite staining on quartz-carbonate stringers Average Modes Amphiboles 30 407 Quartz 30 40% ÷ Biotite 20 302 • Feldspar 5 10% - 277.5 - 278.5 - white guartz vein - 277.2 - 290.3 - 290.3 - 291.7 - shear zone, friable, clay-like, 6033 278.7 1.5 <.001 6034 290.3 291.7 <.001 strongly carbonatized. 1.4 300.0 End of Hole. 4 Andeny .

NAME OF PROPERTY	BEN LAKE	FOO
HOLE NO. BL-86-5	LENGTH 263'	
LOCATION 144E27+50	N	26
LATITUDE	DEPARTURE	
ELEVATION	AZIMUTH 335° DIP46°	
STARTED October 18, 1986	FINISHED October 19, 1986	

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
263'	-42.0				

HOLE NO. BL-86-5 SHEET NO. 1 OF 1 REMARKS \_\_\_\_\_\_\_ SURMARY LOK

Claim 719629

LOGGED BY L.JONES

F 0 0 1	TAGE		SAMPLE					ASSAYS				
FROM	10	SUMMARY LOG	NO.	-WEPH	FROM	TO	TOTAL	<u>د</u>	2	07/10H	07/TON	
0	25.7	CASING										
25.7	32.0	MAFIC TO INTERMEDIATE TUFF - medium to dark grey, fine grained.										
32.0	40.6	GREYWACKE - medium to dark grey, fine grained.										
40.6	45.1	GREYWACKE - dark green-brown, fine to medium grained.										
45.1	47.4	INTERMEDIATE SILL - medium grey-brown, medium grained.										
47.4	52.9	<u>GREYWACKE</u> - BB 32.0 - 40.6.										
52.9	61.3	MAFIC TO INTERMEDIATE TUFF - medium green-brown, fine grained.										
61.3	76.1	INTERMEDIATE TO FELSIC TUPF - light to medium grey-green, fine to medium grained.										
76.1	220.0	<u>GREYWACKE</u> - medium grey-green, typical.										
220.0	223.0	MAFIC TUFF - typical.										
223.0	263.0	<u>GREYWACKE</u> - typical.	i									
263.0		End of Hole.								22		
									~ 7	X HA	ang	
									X	Art		
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NAME OF PROPERTYBEN LAKE	FOOTAGE	UIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH	HOLE NO. DLOUDS SHEET NO. 101
HOLE NO. <u>BL-86-5</u> LENGTH <u>2631</u>	263'	-42°					REMARKS
LATITUDE							Claim 719629
ELEVATION AZIMUTH335° DIP46° STARTEDCCLOBER 18, 1986 FINISHEDCCLOBER 19, 1986							LOGGED BY

FOO	TAGE				5 A M P	L E		A 5 5 A Y 5				
FROM	то	of some right	NO.	SUL PH	FROM	FOOTAGE	TOTAL	1	1	07/10N	02/104	
0	25.7	CASING										
25.7	32.0	MAFIC TO INTERMEDIATE TUFF - medium to dark grey; generally fine grained, occasionally medium grained, moderately well developed	6035	2	25.7	28.9	3.2			<.001		
		banding at 55 to core axis, moderately well carbonatized.	60.36	2	28.9	32.0	١.٤			<b>K</b> .001		
		Average Modes							İ			1
		Biotite 20 - 302						ļ				
		Chlorite 10 - 20%										
		Feldspar 10 - 20%										
		Pyrite 1 - 22										
		Pyrite finely disseminated and as stringers.										
32.0	40.6	<u>GREYWACKE</u> - medium to dark grey; fine grained, modurately well foliated at 70° to core axis.										
		Average Modes										
		Chlorite 30 - 40Z										
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
	1	Feldspar 10 - 152				1 1						
		Pyrite 0.5 - 17		1								;
		Pyrite disseminated and as fine stringers.										
		- 34.5 - 35.0 - fractures across foliation at 55° to core axis, with 5 - 10% pyrite on faces	6037	tr	34,3	35.3	1.0			<b>&lt;</b> .001		i
							i			ł	ļ	

NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_ BL-86-5\_\_\_\_\_\_ SHEET NO. \_\_\_\_ 2 OF 5\_\_\_\_\_

F001	TAGE		SAMPLE			ASSAYS						
FROM	10	DESCRIPTION	NO.	I SULPH	FROM	TOTACE	TOTAL	```	•	02 104	01 10#	
		- 38.4 - fracture across foliation at 35° to core axis, 3 - 5% pyrite on face	60 <b>38</b>	tr	38.1	39.1	1.0			.001		
40.6	45.1	<u>GREYWACKE</u> - dark green-brown; fine to medium grained, moderately well developed banding at 70° to core axis, occasional lens of quartz-rich material.	6039	1	43.5	44.5	1.0			<.001		
		Average Modes	1		1				1			
		Biotite       30       -       40%         Amphiboles       20       -       '30%         Quartz       15       -       20%         Chlorite       10       -       20%         Feldspar       5       -       10%         Pyrite       0.5       -       1%       as fine stringers										
45.1	47.4	INTERMEDIATE SILL - medium grey-brown; medium grained, poorly foliated. <u>Average Hodes</u>	6040	1	45.1	47.4	2,3			<.001		
		Quartz       20       -       30%         Biotite       20       -       30%         Amphiboles       15       -       25%         Chlorite       10       -       20%         Feldspar       10       -       15%         Pyrite       0.5       -       1%										
67.6	52 Q	Pyrite as blebs and irregular stringers.										
	52.7	Average Hodes										
		Biotite     40     -     50%       Quartz     15     -     20%       Amphiboles     10     -     20%       Chlorite     10     -     20%       Feldspar     5     -     10%       Pyrite     trace     -     10%										

NAME OF PROPERTY\_

R1 - 86-5

BEN LAKE

		HOLE NO					SHEET NO OL 5					
FOOTAGE				SAMP	LE				ASSAYS			
FROM TO		NO.	NO. LIULDA POOTACE IDES FROM TO TOTAL				•	•	02 194	62 TOu		
52.9 61.	Pyrite disseminated, occasionally in stringers. <u>MAFIC TO INTERMEDIATE TUFF</u> - medium green-brown; fine grained, poorly developed banding, foliated 70° to core axis, upper and lower contacts gradational, lenses and pode of quartz in the more mafic groundmass.											
61.3 76.	Average Mo. es         Chlorite       30       -       407         Biotite       20       -       307         Quartz       15       -       207         Feldspar       5       -       107         Pyrite       trace         Pyrite       trace         INTERMEDIATE TO FE'SIC TUFF - light to medium grey-green; fine to medium grained, generally grey, some sections have green hues, foliated 60° to core axis.         -       -       -       107 pyrite as coarse stringers         -       -       72.4 - 72.8 - 5 - 107 pyrite as coarse stringers         -       -       -       3.3 - 73.5 - 2 - 37 pyrite, disseminated, and as atringers	6041	10	72 4	73.5	1.1			<.001			
76.1 220.	- 74.4 - 74.6 - shear zone, very friable - 74.8 - 76.1 - extensive hematite staining as halos around fractures. <u>GREYWACKE</u> - medium grey-green, foliation 70° to core axis, mineralogy typical. - 82.7 - 82.8 - quartz-carbonate stringer - 88.1 - 88.4 - hematite stained quartz-carbonate stringer					•						

NAME OF PROPERTY	BEN LAKE
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HOLE NO. \_\_\_\_\_\_\_ BL-86-5\_\_\_\_\_\_\_ SHEET NO \_\_\_\_\_\_ 4 08 5\_\_\_\_\_

FO	DTAGE	DECORDIN	SAMPLE					ASSAYS					
FROM	10		NO	S SUL PH	FROM	TOTACE	TOTAL	١	•	07 104	61 104		
		- 91.3 - 91.6 - pyrite and pyrchotite 1 - 2% stringers	6042	2	91.3	92.3	1.0			<.001			
		- 92.0 - possible shear, somewhat friable	i i										
		- 99.2 - 99.5 - possible shear, very friable, well carbonatized	6043	-	98.9	99.9	1.0			<b>&lt;</b> .001			
		- 155.4 - 156.4 - quartz vein, trace pyrite in wallrock	6044	tr	155.1	156.8	1.7			<.001			
		- 175.2 - 175.3 - hematite stained quartz vein	6045	-	174.8	175.8	1.0			<.001			
		- 181.1, 186.1 and 189.8 $-$ 1/2" wide quarte veins	6046	-	202.7	203.8	1.1			.002			
		- 203.3 - 1/2" wide <u>epidote</u> stringer		ļ	ļ								
		<ul> <li>- 211.3 - 212.4 - fracture at 10° to core axis, some hematite staining, minor displacement</li> </ul>											
220.	0 223.0	<u>HAFIC TUFF</u> - medium brown; very fine grained, occasional quartz- carbonate stringers.	6047	tr	222.0	223.0	1.0			<b>&lt;.</b> 001			
		Average Modes											
		Biotite 30 - 40Z Chlorite 20 - 30Z Quartz 10 - 20Z Feljapar 5 - 10Z											
		~ 222.5 - small shear, very friable, trace disseminated pyrite in wallrock.											
223.	0 263.0	<u>GREYWACKE</u> - typical											
		- 248.4 - 248.5 - quartz vein with trace pyrite in wallrock as blebs	6048	tr	248.2	249.6	1.4			<b>&lt;</b> .001			
							-						

NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

					0. <u>_BL</u> -	86-5	SHEET NO 5 of 5						
F00	TAGE		T		SAMP	LE		ASSAYS					
FROM	70		NQ.	1065	FROM	TOOTAGE	TOTAL	•	``	01 10+	61 104		
		- 249.2 - 249.4 - quartz vein - 256.1 - 256.9 - hemstite staining sround fractures. Blocky.											
263.0		End of Hole.											
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NAME OF	PROPERTY		BEN LAKE			
HOLE NO.	<u></u>		LENGTH	288'		
LOCATION	<u>1.48E 1</u>	6+80N				
LATITUDE			DEPARTURE			
ELEVATION			AZIMUTH	335°	DIP	<u>-45°</u>
STARTED _	October 19,	1986	FINISHED	October 20.	1986	

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
288'	-40.0				

HOLE NO. BL-86-6 SHEET NO. 1 OF 2 REMARKS \_\_\_\_\_ Summary Log

Claim 719630

LOGGED BY \_\_\_\_\_L.Jones

FOOT	TAGE		1		5 A M P	LE				SSA	v 5	
FROM	10	SUMMARY LOG	NO.	UL PH	FROM	FOOTAGE TO	TOTAL		4	OZ/TON	02/TON	
0	70.7	CASING										
70.7	77.5	<u>GREYWACKE</u> - typical.										
77.5	77.9	QUARTZ-FELDSPAR PORPHYRY - typical.										
77.9	79.6	<u>GREYWACKE</u> - typical.										
79.6	81.2	QUARTZ-FELDSPAR PORPHYRY - typical.										
81.2	101.6	<u>GREYWACKE</u> - typical.										
101.6	103.4	QUARTZ-FELDSPAR PORPHYRY - typical.										
103.4	106.6	<u>GREYWACKE</u> - typical.										
106.6	107.3	QUARTZ-FELDSPAR PORPHYRY - typical.										
107.3	113.0	MAFIC TUFF - typical.										
113.0	115.7	MAFIC SILL - medium grained, medium grey.				•		·				
115.7	117.7	MAFIC TUFF - typical.										
117.7	120.1	HAFIC SILL - as 113.0 - 115.7.										
120,1	121.1	QUARTZ-FELDSPAR PORPHYRY - typical.									Í	
121.1	122.3	MAFIC TUFF - typical.										1
122.3	125.3	QUARTZ-FELDSPAR PORPHYRY - typical.										
125.3	128.7	MAFIC TUFF - typical.	ļ									

BEN LAKE NAME OF PROPERTY\_\_\_

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**W**.

			HOLE NO					SHEET NO OF 2					
F00	TAGE				\$AMP					ASSAYS			
FROM	TO		NO.	SUL PH	FROM	TOOTAGE	TOTAL	`	•	02 104	62 104		
128.7	129.2	QUARTZ-FELDSPAR PORPHYRY - typical.											
129.2	130.0	MAPIC TUFF - typical.		]				1		]			
130.0	138.2	MAFIC SILL - typical.						1	}				
138.2	143.4	MAFIC TUFF - typical.						]	]	]			
143.4	145.9	QUARTZ-FELDSPAR PORPHYRY - typical.						ļ	ļ				
145.9	148.2	MAFIC TUFF - typical.	ļ										
148.2	150.2	MAFIC SILL - typical.			ļ	ļ		l					
150.2	151.4	MAFIC TUFF - typical.											
151.4	153.0	MAFIC SILL	ļ		ŀ			{	ł				
153.0	157.6	MAFIC TUFF - typical.			l					}			
157.6	158.2	QUARTZ-FELDSPAR PORPHYRY - typical.				ļ							
158.2	159.3	MAFIC TUFF - typical.										}	
159.3	161.2	QUARTZ-FELDSPAR PORPHYRY - typical.											
161.2	226,9	MAFIC TUFF - typical.				•						İ	
226.9	229.9	<u>CREYWACKE</u> - typical.							Ì				
229.9	246.0	MAPIC TUPF - typical.										$\gamma_{i}$	
246.0	248.6	MAFIC SILL - typical.										Alan	
248.6	288,0	HAPIC TUFF - typical.								51			
288.0		End of Hole.	•							$\mathcal{O}$		ſ	
	a a											ļ	

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NAME O	F PROP	ERTY BEN LAKE	FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH	HOLE	NO. <u>B1</u>	<u>86-6</u> y	HEET NO.	<u>1 of 5</u>
HOLE N	oB	L-00-0 LENGTH288'	288'	-40.09									
	F									C1	aim 719	630	
ELEVATI	ON	AZIMUTH 335° DIP45°											
STARTED	Octob	er 19, 1986 FINISHED October 20, 1986				li		J	LOCGI	O BY	L.Jon	es	
FOO	TAGE		7. <u>3. ing 112 7 1</u>	I		S A M I	P L E		1		55 A	Y 5	
FROM	10	DESCRIPTION		N		FROM	FOOTAG	E TOTAL	1 .	\$	02/10H	02/104	
0	70.7	CASING											
70.7	77.5	GREYWACKE - medium grey-green; fine grained, poorly devel banding, foliated 70° to core axis.	oped										
77.5	77.9	Average ModesBiotite40-50%Chiorite10-20%Quartz10-15%Amphiboles5-10%-77.0-77.5-freidspar10-15%Amphiboles5-10%-77.0-77.5-freidspar10-15%Amphiboles5-10%QUARTZ-FELDSPAR PORPHYRY-medium grey; fine to medium greyJ - 2uma phenocrysts15-200unit, minor hematitestateAverage Modes-80%Quartz70-80%Feldspar20-30%Biotite5-10%	ained, ining.	601	87 -	77.3	78.3	1.0			< .001		
77.9	79.6	<u>GREYWACKE</u> - 88 70.7 - 77.5			1				}				
79.6	81.2	QUARTZ-FELDSPAR PORPHYRY - as 77.5 - 77.9. 20 - 252 phenod	cryst <b>s.</b>	601	- 88	79.6	81.2	1.6			<b>&lt;</b> .001		
81.2	101.6	GREYWACKE - typical		l		•			Į				
		- 101.2 - 101.6 - fractured, hematite stained.											

			÷	IOLE N	0. <u>BL-</u>	86-6		\$н	EET NO.	2 0	<u>f5</u> ,
F00	TAGE		1		SAMP	LE		1		ASSAYS	
FROM	TO	DESCRIPTION	NO.	S SULPH	FROW	TO	70741	·	\ \	07 104	UZ 10=
101.6	103.4	QUARTZ-FELDSPAN PORPHYRY - BB 77.5 - 77.9									
		- 103.0 - fractured at $10^{\circ}$ to core axis.	6089	-	101.6	103.4	1,8			<b>&lt;.</b> 001	
103.4	106.6	<u>GREYWACKE</u> - typical									
106.6	107.3	QUARTZ-FELDSPAR PORPHYRY - as 77.5 - 77.9	6090	-	106.4	107.4	1.0			<b>&lt;</b> .001	
107.3	113.0	<u>HAFIC TUFF</u> - medium grey-brown; fine grained, poorly banded, foliated 75° to core axis, minor quartz-carbonate stringers.									
		Average Modes									
		Biotite 40 - 50% Chlorite 20 - 30% Quartz 15 - 20% Feldapor 5 - 10%									
113.0	115.7	<u>MAFIC SILL</u> - medium grey; medium grained, foliated at $60^{\circ}$ to core axis, moderate carbonatization.									
		-Average Hodes									
		Feldspar       30       -       40%         Biotite       20       -       30%         Chlorite       20       -       30%         Quartz       10       -       15%				n an an an an an an an an an an an an an					
115.7	117.7	MAFIC TUFF - as 107.3 - 113.0	ĺ			:					
117.7	120.1	HAFIC SILL - ## 113.0 - 115.7									•
120.1	122.1	QUARTZ-FELDSPAR PORPHYRY - as 77.5 - 77.9, trace pyrite.	6091	tr	120.1	121.1	1.0			<.001	
121.1	122.3	MAFIC TUFF - as 107.3 - 113.0	·		<b>1</b> -						
122.3	125.3	QUARTZ-FELDSPAR PORPHYRY - as 77.5 - 77.9, foliated $70^{\circ}$ to core axis	6092 6093	-	122.3 123.7	123.7 125.3	1.4			<.001 <.001	
			1			1 · · ·					ľ

BEN LAKE

NAME OF PROPERTY.

NAME OF PROPERTY\_\_\_\_\_\_BEN LAKE HOLE NO. \_\_\_\_\_\_ BL-86-6 \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 3 of 5 \_\_\_\_\_

F00	TAGE	DETCRIPTION	SAMPLE				ASSAYS					
FROM	TO	DESCRIPTION	NO.	SULPH IDES	FROM	TOTAGE	TOTAL	、	•	01 10+	61 104	
125.3	128.7	MAFIC TUFF - BB 107.3 - 113.0										
128.7	129.2	QUARTZ-FELDSPAR PORPHYRY - #8 77.5 - 77.9	6094	-	128.5	129.5	1.9			<b>&lt;</b> .001		
129.2	130.0	MAFIC TUFF - 18 107.3 - 113.0	i i									
130.0	138.2	MAFIC SILL - as 113.0 - 115.7										
ļ		- 134.5 - 134.9 - mafic tuff										r.
		- 135.8 - 136.2 - mafic tuff				l		l				
		- 136.2 - 138.2 - minor hematite staining										
138.2	143.4	MAFIC TUFF - as 107.3 - 113.0										
143.4	145.9	QUARTZ-FELDSPAR PORPHYRY - as 77.5 - 77.9	6095	-	143.4	145.9	1.5			<b>&lt;</b> .001		
		- 145.0 - fracture at low angle to core axis with 1 cm alteration halo				1						
145.9	148.2	MAFIC TUFF - as 107.3 - 113.0										
		- 147.1 - 147.4 - quartz-feldspar porphyry	6096	-	147.0	147.7	0.7			<.001		
148.2	150.2	MAFIC SILL - as 113.0 - 115.7										
150.2	151.4	MAFIC TUFF - ## 107.3 - 113.0										
151.4	153.0	MAPIC SILL - as 113.0 - 115.7										
153.0	157.6	<u>MAFIC TUFF</u> - as $107.3 - 113.0$ , foliation and banding $75^{\circ}$ to core axis										
157.6	158.2	QUARTZ-FELDSPAR PORPHYRY - AB 77.5 - 77.9, trace pyrite	6097	tr	157.4	158.4	1,0			<b>&lt;</b> .001		
158.2	159.3	<u>PAFIC TUFF</u> - as 107.3 - 113.0										
		<i>"</i>										

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FOOTAGE

HOLE NO	
SAMPLE	

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		DESCRIPTION		L. Gut Aut	r*****	1001100				· · · · · · · · · · · · · · · · · · ·	·	
FROM	10		NO.	1985	FROM	10	IDTAL	<b>`</b>	۲	01 100	01 104	
.159.3	161.9	QUARTZ-FELDSPAR PORPHYRY - as 77.5 - 77.9, minor hematite staining.	6098	-	159,3	161.9	2.6			<.001		
161.9	226.9	MAFIC TUFF - as 107.3 - 113.0				[						
		$\sim$ 173.0 $\sim$ fracture at 10° to core axis										
		- 186.5 - 187.4 - fracture at low angle to core axis, some silicification and chloritization, trace pyrite	6099	tr	186.5	187.4	0.9			<.001		
		- 207.2 - 207.9 - fracture parallel to core axis silicification and chloritization halo	6100	-	207.0	208.0	1.0			<b>&lt;</b> .001		
		- 226.8 - 226.9 - quartz vein		ĺ								
226.9	229.9	<u>GREYWACKE</u> - medium grey; fine grained, poorly foliated, foliation 65° to core axis, upper and lower contacts each have a 1" quartz vein at contact.	6101	tr	226.7	230.2	3.5		•	.001		
		Average Modes										
		Quartz 30 - 407										
		Feldspar 20 - 301 Biotite 20 - 307				Į				(		
		Chlorite $10 - 20$				ĺ				1		:
		Pyrite trace disseminated					1			{		
229.9	246.0	MAFIC TUFF - as 107.3 - 113.0, foliation 65° to core axis.										
246.0	248.6	HAFIC SILL - madium grey; medium grained, minor carbonatization.										
		Average Hodes										
		Quartz 30 - 40%										
		Biotite 20 - 307								1 1		[
2		Chlorite 15 - 25%							-			
		Feldspar IV - ISX									, l	]
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NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE HOLE NO\_\_\_\_\_BL-86-6\_\_\_\_\_\_\_SHEET NO\_\_\_\_4\_0[\_5\_\_\_\_

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ASSAYS

			۲	IOLE N	0. <u></u>	86-6		. <u> </u>	EET NO.	50	<u>r</u> 5	· · · · · · · · · · · · · · · · · · ·
FOO	TAGE		T		SAMP	E				ASSAYS		
FROM	to	DESCRIPTION	NO.	IDES	FROM	TO	TOTAL	$\overline{\mathbf{\cdot}}$		01 100	62 10=	
248.6	288.0	<u>MAFIC TUFF</u> - medium grey-green with brown tinges; fine to medium grained, moderately well banded, foliation and banding $78^{\circ}$ to core axis.	6102	-	275.5	276.5	1.0			<.001		
		- 275.9 - 276.1 - quartz vein at $35^\circ$ to core axis										
288.0		End of Hole.							]			
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NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

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HOLE NG, $\underline{DEOUT}$ DEPORT       ZAB         LOCATION $\underline{152E}$ S4450S         LATITUDE       DEPARTURE       Claim 629229         ELEVATION       AZIMUTH       335°       DIP       -44°         STARTED OCTODER 21, 1986       FINISHED       October 22, 1986       Location         FOOTAGE       DESCRIPTION       SAMPLE       ASSAYS         FROM TO       DESCRIPTION       SUPPARY LOG       NO. SUPPARY LOG       NO. SUPPARY LOG         0       35.5       CASING       SUPPARY LOG       NO. SUPPARY LOG       NO. SUPPARY LOG       NO. SUPPARY LOG         35.5       44.5       GREYWACKE - typical.       HAFIC TUFF - typical.       HAFIC TUFF - typical.	
LATITUDE	
ELEVATION	
STARTED October 21, 1986 FINISHED October 22, 1986         FOOTAGE       Logged BY       Logged BY         FROM       TO         SAMPLE       A 5 5 A Y 5         FROM       TO         SINDGARY LOG       NO. $\sqrt{2}$ PI FOOTAGE       O 0/104         O       35.5       CASING         35.5       GREYWACKE - typical.         44.5       85.0       MAFIC TUFF - typical.	
FOOTAGESAMPLEASSAYSFROMTODESCRIPTION SUNDARY LOGNO.SUPPAREASSAYS035.5CASING35.544.5CREYWACKE - typical.44.585.0MAFIC TUFF - typical.	
FROM         TO         SUPPLARY LOG         NO.         SUPPLACE         OZ/100         OZ/100           0         35.5         CASING         35.5         GREYWACKE - typical.         0<	
0         35.5         CASING           35.5         44.5         GREYWACKE - typical.           44.5         85.0         MAFIC TUFF - typical.	
35.5         44.5 <u>GREYWACKE</u> - typical.           44.5         85.0 <u>MAFIC TUFF</u> - typical.	
44.5 85.0 MAFIC TUFF - typical.	
85.0 142.3 <u>GREYWACKE</u> - typical.	
142.3 162.7 <u>GARNETIFEROUS SEDIMENT</u> - dark grey, fine grained, 10-20% garnets.	
162.7 227.5 <u>GREYWACKE</u> - typical	
227.5 252.4 AMPHIBOLITE - typical.	
252.4 256.3 <u>MAFIC FLOW</u> - typical.	
256.3 258.3 AMPHIBOLITE - typical.	
258.3 260.0 <u>HAFIC TUFF</u> - typical.	
260.0 274.0 <u>GREYWACKE</u> - typical.	
274.0 286.0 <u>MAFIC TUFF</u>	
286.0 End of Hole.	

NAME OF PROPERTY	FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZMUTH
HOLE NO. <u>BL-8D-7</u> LENGTH <u>286'</u> LOCATION <u>1.52E 54+505</u>	286'	-36.89				
LATITUDE						
ELEVATION AZIMUTH 335° DIP44°						

HOLE NO. BL-86-7 SHEET NO. 1 OF 4

REMARKS \_\_\_\_\_

Claim 629229

L'OGED BY L.JONES

7001	AGE				SAMP	LE		A \$ 5 A Y 5				
FROM	10		NO.	IDES	FROM	TO	TOTAL	×	:	02/TON	OZ/TON	
0	35.5	CASING										
35.5	44.5	<u>GREYWACKE</u> - medium grey; fine to medium grained, moderately well banded, shistose, somewhat mottled due to chlorite patches, foliated 40° to core axis.	6106 6107 6108	0.5 0.5 0.5	35.5 39.1 40.2	39.1 40.2 44.5	2.6 1.1 4.3			<pre>&lt;.001</pre> <.001<.001<.001		
44.5	85.0	Average ModesMuscovite30-407Quartz20-307Chlorite10-202Biotite10-202Pyritetrace-0.5% as very fine stringersPyrhotitetracedisseminated as blebs39.2 - 40.0 - several small quartz stringers with trace disseminated pyrite.MAFIC TUFF - dark grey-green; commonly fine grained, infrequent coarse grained bands, well banded, banding and foliation at 38° to core axis.30 - 40% fine biotite in a very fine grained quartz-feldspr: matrix. Pyrite trace to 0.5% as fine stringers and blebs on foliation planes. Trace disseminated pyrhotite44.5 - 44.7 - 10% pink anhedral poikiloblastic garnets-53.0 - fracture at low angle to core axis pyrite coated-63.5 - fracture at low angle to core axis pyrite coated	6109 6110 6111 6112 6113 6114 6115	0.5 0.5 0.5 0.5 0.5 0.5	51.3 55.0 59.0 73.2 75.0 79.0 81.8	55.0 59.0 64.7 75.0 79.0 81.8 85.0	3.7 4.0 5.7 2.8 4.0 2.8 4.2			<.001 <.001 <.001 <.001 <.001 <.001 <.001		

#### NAME OF PROPERTY ....

BEN LAKE

				OLEN	oB	L-86-7		\$H	EET NO	20	<u>r 4</u>	
FOO	TAGE		ſ		SAMP			Ι		ASSAYS		
FROM	10	DESCRIPTION	ND.	SUL PH	FROM	700TAGE	10141	•	\ \	01 70#	02 104	
		- 73.7 - 74.5 - quartz vein with trace pyrite blebs.										
85.0	142.3	<u>GREYWACKE</u> - medium grey; moderately well banded, gradational contact at 85.0 with mafic tuff, foliated 40° to core axis, very fine grained, medium grained light grey bands alternate with dark grey bands. Light grey bands mottled with 1 mm biotite.	6116	0.5	85.0	89.B	4.8			<.001		
		- 117.0 - 132.2 - 0.5 - 1% pyrite as smears on foliation planes and fractures, infrequent 1 mm pink garnets	6117 6118 6119	$1.0 \\ 1.0 \\ 1.0 \\ 1.0$	117.0 122.0 127.0	122.0 127.0 132.2	5.0 5.0 5.2			<pre>&lt;.001 &lt;.001 &lt;.001 &lt;.001</pre>		
		- 132.2 - 142.3 - 5 - 10% patches of chloritic material 1 cm across. Pyrite 0.5 - 1% on fractures and foliation planes	6120 6121	1.0	132.2 137.0	137.0 142.3	4.8 5.2			<.001 <.001		
		<ul> <li>- 141.8 - fracture at low angle to core axis pyrite coated.</li> </ul>										
142.3	162.7	<u>GARNETIFEROUS SEDIMENT</u> - dark grey; fine grained, achistose mottled with $10 - 20\%$ pink garnets, foliated 43° to core axis, trace to 0.5\% pyrite, finely disseminated, also on foliation planes and fractures. Unit too fine grained to identify mineralogy, except for $10 - 20\%$ pink, subhedral to anhedral poikiloblastic garnets.	6122 6123 6124 6125 6126	0.5 0.5 2.0 0.5 0.5	142.3 145.0 148.4 150.0 159.5	145.0 148.4 150.0 152.1 162.7	2.7 3.4 1.6 2.1 3.2			<pre>&lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001</pre>		
		- 149.0 - 150.1 - 1 - 2% pyrite as stringers, 0.5 - 1% pyrrhotite as stringers										
		- 150.0 - $3^{ii}$ wide altered zone with bleached appearance.					1	1	1			
162.7	227.5	<u>GREYWACKE</u> - as 35.5 - 44.5, pyrite, pyrrhotite trace.							]			
		- 182.5 - 182.8 - more chloritic, with trace disseminated	6127	tr	182.5	183.5	1.0			<b>&lt;</b> .001		
		- 182.8 - 183.0 - quartz vein	6128	1	183.5 •	186.0	2.5			<b>(</b> .001		
		- 185.0 - 185.8 - foliation deformed, 0.5 - 1% pyrite in stringers and blebs										
1								!	1	1		

TORONTO -

-ANGROGES -

#### NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 3 of 4

F00'	TAGE		1		SAMPL	. 8				ASSAYS		
FROM	70	DESCRIPTION	HO.	SULPH IDES	FROM	TO	TOTAL	`	•	07 104	UZ 104	
		- 192.0 - 193.0 - pyrite on fractures at 55° to core axis, also on fractures sub-parallel to core axis	6129	tr	192.0	193.7	1.7			<b>(.</b> 001		
		- 194.5 - 195.0 - trace to 0.5% pyrrhotite as stringers and blebs	6130	tr	193.7	195.0	1.3			<b>(</b> .001		
		- 196.5 - 197.5 - trace to 0.5% pyrite on fractures and on foliation planes	6131	0.5	195.0	198.0	3.0			(.001		}
		- 211.3 - 211.7 - chert horizon	6132	-	210.5	212.7	2.2			٥.001 (		
		- 212.2 - 212.4 - chert horizon	6133	-	217.6	219.7	2.1			<b>‹.</b> 001		
		- 210.0 - 219.2 - quartz stringers generally parallel to foliation, one sub-parallel to core axis - 220.7 - 221.9 - pyrite coats on fractures.	6134	tr	219.7	222.7	3.0			<i>(</i> .001		
227.5	252.4	AMPHIBOLITE - medium green-grey; medium to coarse grained, foliated at 45° to core exis, moderately well banded, a few areas of trace	6135	tr	229.5	231.5	2.0			٢.001		
		disseminated pyrrhotite, trace pyrite.	6136	tr	235.2	236.7	1.5			<b>(</b> .001		
		Average Hodes	6137	tr	243.3	247.0	3.7			<b>८.</b> 001		
		Amphiboles 60 - 70% Quarte 10 - 20%	6138	tr	247.7	249.7	2.0			¢.001		
		Feldspar 5 - 10%	6139	tr	249.7	252.4	2.7			<.001		
٠.		- 235.8 - 236.0 - quartz vein										
		- 236.1 - trace pyrite on fracture at $70^{\circ}$ to core axis.										
252.4	256,3	HAFIC FLOW - typical, trace pyrrhotite as stringers, trace pyrite as smears on fractures.	6140	tr	252.4	256.3	3.9			<b>∢.</b> 001		
256.3	258.3	<u>AMPHIBOLITE</u> - as $227.5 - 252.4$ , $2 - 3$ disseminated carbonate, trace finely disseminated pyrite.	6141	tr	256.3	258.3	2.0			<b>(</b> .001		-
											Į	Į

NAME OF PROPERTY\_\_\_\_\_\_BEN\_LAKE

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F00	TAGE		Ī		SAMPL	. E				ASSAYS		
FROM	TO	DESCRIPTION	NO.	S SULPH	FROM	TO	10141	`	``	01 TON	41 10m	
258.3	260.0	MAFIC TUFF - medium to dark grey; moderately well banded, chloritic bands alternate with quartz rich bands.										
		Average Modes Chlorite 20 - 307 Quartz 15 - 207 Amphiboles 10 - 207 Biotite 5 - 107 Feldspar 5 - 107										
260.0	274.0	Amphiboles dominantly fine grained tremolite-actinolite. <u>GREYWACKE</u> - medium to dark grey; fine grained, foliated 50° to										
		Average Hodes       Amphiboles     30 - 40%       Quartz     20 - 30%       Biotite     10 - 20%       Feldspar     10 - 15%       Pyrhotite     trace	6142	tr	261.0	263.7	2.7			<.001		
274.0	286.0	<ul> <li>261.8 - 263.0 - blocky, broken, fractured with minor pyrite.</li> <li><u>MAFIC TUFF</u> - dark green-grey; poorly banded 50° to core axis, fracture set 55° to core axis, perpendicular to foliation, also at 25°</li> </ul>	6143	tr	267.5	269.4				ζ.001		
286.0		Average Modes Biotite 30 - 407 Chlorite 20 - 307 Amphiboles 10 - 207 Quartz 10 - 157 Feldspar 5 - 107 End of Hole.			•				G	<i>P</i>	J.d.	ann <sup>o</sup>

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	F PROP	FRTY BEN LAVE	[ emails of		T	Emiles	DIR	AZIMUTH	HOLE	NO. <u>BL-</u>	<u>-86-8</u> s	HEET NO.	<u>1 of 3</u>
HOLE N	o BL	-86-8 LENGTH 321'							REMA		Summa	ry Log	
LOCATI	DN 1.50	DE 44+25S	321	-37.9									
ATITU			[		L	L					Claim	629229	
FLEVAT		47141174 335° DID 45°	J		<b></b>								
STARTE	o _Octo	Der 22. 1986 FINISHED October 23. 1986	L		l	<u> </u>		I	LOGGE	D 8Y	L.	Jones	
500									1	17 Alitera			
	1 × 6 E	DESCRIPTION				5 A M	PLE		╢	<b></b>	A 5 5 A	¥ 5 +	
FROM	то	SUMMARY LOG		( •	10. hui	EROM	FOOTAG		-	14	02/100	01/104	
0	7.0	CASING								1	1		
7.0	49.4	<u>GREYWACKE</u> - typical.											
49.4	56.5	BANDED IRON FORMATION - medium grey-green with brown and $2-32$ pyrrhotite, $1-22$ pyrite.	pink hu	es,									
		- 50.0 - 50.2 - 60-70% pyrite, 30-40% pyrrhotite.											
		- 50.9 - 51.0 - 50% pyrite, 50% pyrrhotite											
		- 55.9 - 56.0 - 40-JOZ pyrrhotite, 20-30Z pyrite.											
56.5	69.5	<u>GREYWACKE</u> - typical.											
69.5	78.1	<u>GARNETIFEROUS SEDIMENT</u> - medium to dark grey-green, 5-102 2-32 pyrite.	garnet	s,	ĺ								
78.1	81.6	BANDED IRON FORMATION - medium grey-green, poorly banded	•										
		- 79.8 - 80.9 - 70-80% pyrrhotite, 20-30% pyrite.							( ·				
81.6	91.1	MAFIC TO INTERMEDIATE TUFF - medium to dark grey, 2-3% py	rite.										
91.1	95.4	MAFIC TUFF - typical.							ł				
95.4	102,5	INTERMEDIATE TUPF - typical.											
102.5	104.7	MAPIC FLOW - typical.				4							
104.7	105.9	INTERMEDIATE TUFF - typical.											
105.9	112.0	MAFIC FLOW - typical.		ļ									Į

HOLE NO. BL-86-6 SAMPLE ASSAYS FOOTAGE DESCRIPTION FOCTAGE S BULPH NØ. FROM 10 07 104 02 10× N. ٩. FROM TOTAL 1065 10 1 112.0 125.5 INTERMEDIATE TUFF - typical. 125.5 129.9 INTERMEDIATE LAPILLI TUFF - medium grey with green tinge. 129.9 134.0 MAFIC FLOW - typical. 134.0 136.0 MAFIC TO INTERMEDIATE TUFF - typical. MAFIC FLUW - typical. 136.0 166.9 166.9 180.2 MAFIC TO INFERMEDIATE LAPILLI TUFF - medium grey-green, 180.2 183.4 MAFIC FLOW - typical, 183.4 192.5 MAFIC TO INTERMEDIATE LAPILLI TUFF - as 166.9 - 180.2. 192.5 198.0 GREYWACKE - typical. 198.0 200.1 MAPIC TO INTERMEDIATE LAPILLI TUFF - as 166.9 - 180.2. 200.1 208.9 MAFIC FLOW - typical. 208.9 239.8 MAFIC TO INTERMEDIATE LAPILLI TUFF - as 166.9 - 180.2. 239.8 241.8 MAFIC TUFF - typical. 241.8 244.8 QUARTZ DIORITE - light grey, fine to medium grained. 244.8 261.2 MAFIC TUFF - typical. 261.2 270.7 QUARTZ-FELDSPAR PORPHYRY - typical. 270.7 277.2 HAFIC FLOW - typical. 277.2 281.8 INTERMEDIATE TUFF - typics). 281.8 291.5 HAFIC FLOW - typical.

NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

SHEET NO 2 OF 3

			н	OLE N	0. <u>BL</u>	-86-8		SHI	EET NO.	<u> </u>	3	
F00	TAGE	DESCRIPTION			SAMP	LE				ASSAYS		
FROM	70		NØ.	S BULPH	FROM	TO	101AL	`	•	02 104	67 TON	
291.5	294.8	INTERMEDIATE TUFF - typical.										
294.8	321.0	MAFIC FLOW - typical.										
		- 294.8 - quartz- <u>tourmaline</u> vein.										
321.0		End of Hole.		]				1				
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BEN LAKE NAME OF PROPERTY.

BL-86-8

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NAME OF PROPERTY	BEN LAKE
HOLE NO	LENGTH 321'
LOCATION LODE 44+255	
LATITUDE	DEPARTURE
ELEVATION	AZIMUTH 335° DIP 45°
ST RTED October 22, 1986	FINISHED October 23, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
	-37.9				

HOLE NO. BL-86-8 SHEET NO. 1 OF 9

REMARKS

Claim 629229

LOGGED BY \_\_\_\_\_L.Jones

FOO	TAGE				SAMP	LE			1 5 5 A	Y S	
FROM	то		NO.	SUĽ MI IDES	FROM	TO	TOTAL	:	02/10N	02/101	
0	7.0	CASING									
7.0	49.4	<u>GREYWACKE</u> - medium to dark grey; fine to medium grained, foliated at 40° to core axis. Upper section tends to be biotite rich, lower section muscovite rich.	6145	0.5	12.2	15.7	3.5		< .001		
		Average Hodes	6146	0.5	47.0	49.4	2.4		( .001		
49.4	56.5	Quartz 40 - 50% Muscovite 20 - 30% Feldspar 10 - 20% Biotite 10 - 20% Pyrite trace - 0.5% finely disseminated - 7.0 - 27.0 - blocky, fractured. BANDED IRON FORMATION - medium grey-green with brown and pink hues; sulphide facies (?), moderately well banded, foliated 50° to core axis.									
		Average ModesQuartz20-30%Chlorite10-20%Biotite10-20%Garnets5-10%Pyrrhotite2-3%Pyrite1-2%Pyrite1-2%Pyrite and pyrrhotite disseminated and as massive stringers.Garnets 1 mm to 1 cm, pink, subhedral to anhedral, poikiloblastic, disseminated throughout section.									

and a second state

NAME OF PROPERTY\_\_\_\_\_\_BEN LAKE

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HOLE NO. \_\_\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 2 Of 9\_\_\_\_\_

FOOT	TAGE		Γ		SAMPL	E		1		ASSAYS		
FROM	70		но	SUL PH	FROM	TO	TOTAL	Ň	•	07 104	02 104	
		- 50.0 - 50.2 - pyrite 60 - 70%, pyrrhotite 30 - 40%	6147	50	49.4	51.4	2.0			<b>&lt;</b> .001		
		- 50.9 - 51.0 - pyrite 50%, pyrrhotite 50%	6148	5	51.4	53.7	2.3	ĺ		<.001		
		- 52.5 - 53.5 - garnets 20 - 30%	6149	5	53.7	54.5	0.8	ĺ		<.001		
		- 53.8 - 54.2 - quartz vein, pyrrhotite 1 - 2% as stringers and blebs, pyrite 0.5 - 1% as blebs	6150	30	54.5	56.5	2.0			< .001		
		- 55.9 - 56.0 - pyrrhotite 40 - 50%, pyrite 20 - 30%										
56.5	69.5	<u>GREYWACKE</u> - as $7.0 - 49.4$ essentially, foliated at $48^{\circ}$ to core axis	6152	-	56,5	58,2	1,7			<.001		
		- 61.8 - 62.0 - quartz vein, 0.5 - 17 pyrite on fractures and as blebs	6153	1	61,4	62.5	1.1			<.001		
		- 63.5 - 66.0 - pyrite 0.5 - 1% as stringers	6154	tr	62.5	64.0	1.5			<.001		
		- 64.4 - 64.6 - quartz vein, trace pyrite	6155	tr	64.0	65.2	1.2			(.001		
		- 66.8 - 67.1 - quartz vein, trace pyrite.	6156	tr	65,2	67.3	2.1			<.001		
69.5	78.1	GARNETIFEROUS SEDIMENT - medium to dark grey-green; poorly banded, schistose, foliated at 50° to core axis. Pyrite and pyrchotite	6157	2	69.5	74.0	4.5			<b>&lt;</b> .001		
		disseminated throughout.	6158	3	74.0	78,1	4.1			4.001		
		Average Hodes										
		Biotite 30 - 40X Quartr. 20 - 30X Chlorite 20 - 30X Garnets 5 - 10X Pyrite 2 - 3X Pyrrhotite trace - 0.5X Garnets 2 - 3 mm, pink, anhedral, poikiloblastic.				-						

10 - 366

BEN LAKE NAME OF PROPERTY

SHEET NO. \_\_\_\_ 3 0. 9 SANPLE FOOTAGE ASSAVS DESCRIPTION FOOTAGE S SUL PH FROM τO NO. N ١. 02 784 62 10a TOTAL FADU 10 1065 78.1 81.6 BANDED IRON FORMATION - medium grey-green; sulphide facies (?), poorly banded, foliated 45° to core axis. - 78.1 - 79.8 6159 78.1 **<**.001 3 79.8 1.7 Average Modes Quartz 50 60X Biotite 20 307 Chlorite 10 202 Pyrite 2 37 Pyrrhotite 0.5% trace -Pyrite and pyrrhotite disseminated, and as fine to crarae stringers. - 79.8 - 80.9 - pyrrhotite 70 - 80%, pyrite 20 - 30% 6160 100 79.8 80.8 .002 1.0 3 - 80.9 - 81.6 - as 78.1 - 79.8. 6161 80.8 81.6 0.8 **(**.001 81.6 91.1 MAFIC TO INTERMEDIATE TUFF - medium to dark grey; moderately well 6162 81.6 86.0 **(**.001 3 4.4 banded, folisted at 50° to core axis. 6163 **<**.001 3 86.0 91.1 5.1 Average Hodes 307 Quartz 20 20 302 Biotite Feldspar 10 207 Chlorite 10 20% 3% disseminated throughout Pyrite 2 0.5% disseminated Pyrrhotite trace -2 -90.0 - 91.1 - 70 - 80 chert. 91.1 95.4 MAFIC TUFF - medium green, fine grained, poorly banded, foliated 6164 2 **6** 91.1 95.4 4.3 **〈**.001 40° to core axis.

NAME OF PROPERTY\_\_\_\_\_\_BEN\_LAKE

HOLE NO \_\_\_\_\_\_ BI-86-8 \_\_\_\_\_ SHEET NO \_\_\_\_\_ 4 of 9

FOO	TAGE				\$AMP	LE				ASSAYS		
FROM	70	DESCRIPTION	NO.	IDES	FROM	FOOTAGE	TOTAL	,	· \	01 704	UT 104	
95.4	102.5	Average Modes         Chlorite       50       -       607         Biotite       10       -       207         Amphiboles       10       -       207         Quartz       5       -       107         Feldspar       5       -       107         Pyrite       1       -       22         Pyrite       1       -       22         Pyrite as blebs and stringers assoc'ated with quartz stringers, also disseminated         INTERMEDIATE TUFF - light grey; fine to medium grained, poorly banded, folisted 65° to core axis. Infrequent fractures perpendicular to foliation at 35° to core axis, with pyrite smears.         Average Modes       20       -         Quartz       30       -       402	ND.	tr	97.0	100.6	3.6			<u>¢</u> ,001		
102.5 104.7 105.9	104.7 105.9 112.0	Biotite 20 - 307 Amphiboles 10 - 207 Chlorite 10 - 207 Feldapar 10 - 207 <u>HAFIC FLOW</u> - typical, foliated 70° to core axis. <u>INTERMEDIATE TUFF</u> - as 95.4 - 102.5 <u>MAFIC FLOW</u> - typical - 108.4 - quartz-carbonate stringer with trace to 0.57 pyrite - 111.6 - fracture parallel to core axis pyrite costed.	6166 6167	tr tr	107.4 111.0	109.0 112.0	1.6 1.0			<.001 <.001		
1,12.0	125.5	INTERMEDIATE TUFF - as 95.4 - 102.5, foliated 60° to core axis. - 112.2 - fracture at 30° to core axis pyrite coated.	6168	tı	112.0	113,0	1.0			<.001		

DGES - TORONTO - 366-1

#### NAME OF PROPERTY\_

6174 tr 140.6 144.3 3.7

<.001

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BEN LAKE

			н	OLEN	0. <u>BL-</u>	86-8		_ SHE	ET NO	5 0	[9
F001	AGE		Γ		SAMP	. E			A	SSAYS	
FRON	10	DESCRIPTION	40	IDES	FROM	TOTAGE	10141	•	``	01 104	68 100
125.5	129.9	INTERMENIATE LAPILLI TUFF - medium grey with green tinge; fine to medium grained, foliated $50^{\circ}$ to core axis. Grey quartz clasts 2 - 8 mm surrounded by fine grained material; either chlorite or amphiboles. Carbonatized in infrequent patches.									
		Average Modes	l								
		Quartz 40 - 50% Chlorite 20 - 40% Amphiboles 0 - 20% Pyrite trace disseminated	6169	tr	127.0	128.1	1.1		<	.001	
		- 127.5 - fracture at $75^{\circ}$ to core axis, pyrite coated.									
129.9	134.0	HAFIC PLOW - typical	6170	tr	133.0	134.0	1.0			.001	
		- 135.5 - small quartz stringer with 0.5 - 1% disseminated pyrite.									
134.0	136.0	MAFIC TO INTERMEDIATE TUFF - medium grey-green; fine to medium grained, foliated at 50° to core axis, mottled appearance, some quartz-carbonate stringers.	6171	-	134.0	136.0	2.0		<	.001	
		Average Hodes	]								
		Amphiboles 30 - 407 Chlorite 20 - 307 Quartz 20 - 307 Feldspar 10 - 207									
36.0	166.9	MAFIC FLOW - typical			ł						
		- 136.3 - pyrite associated with quartz-carbonate stringer	6172	tr	136.0	137.0	1.0			<b>&lt;</b> .001	
		- 140.0 - fractures at $35^{\circ}$ to core axis, pyrite coated	6173	tr	139.6	140.6	1.0			(.001	

- 141.2 - 144.0 - 1" quartz vein at very low angle to core axis, trace pyrite

ANGROGES - TORONTO - 366-1168

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#### NAME OF PROPERTY\_\_\_\_\_\_BEN\_LAKE

HOLE NO. BL-86-8 SHEET NO. 6 OF 9

F00'	TAGE		Γ	a na ifa na na na na	\$AMPI	LE			1	SSAYS		
FROM	٥٦	DESCRIPTION	NO.	SULPH IDES	FROM	TOOTAGE	TOTAL	``		01 104	42 TON	
		- 147.4 - 147.7 - 0.3' alteration halo around 1/4" wide quartz vein with trace to 0.5% pyrrhotite, finely disseminated pyrrhotite in alteration halo	6175	tr	147.0	148.0	1.0			<.001		1
		- 149.4 - pyrrhotite blebs in quartz stringer	6176	tr	149.2	150,5	1.3	•.		<b>〈</b> .001		
ĺ		- 150.3 - pyrite on foliation plane at 45° to core axis	l	l								
		- 152.5 - pyrchotite in stringers, fractures	6177	tr	152.0	153.1	1.1			<.001		
		<ul> <li>155.0 - 155.9 - pyrite, pyrrhotite on fractures, with quartz stringers and disseminated; zone marks transition from relatively coarse to relatively fine grained flows</li> </ul>	6178	tr	154.5	156 <b>.1</b>	1.6			<.001		
		- 161.0 - 161.8 - pyrite coated fractures at 35° to core axis	6179	tr	160.5	162.2	1.7			<b>(</b> .001		
		<ul> <li>- 164.5 - 165.0; 165.6 - 166.0 - pyrite, pyrrhotite</li> <li>disseminated within quartz stringers or as stringers.</li> </ul>	6180	tr	164.2	166.9	2.7			<b>〈</b> .001		
166.9	180.2	MAFIC TO INTERMEDIATE LAPILLI TUFF - medium grey-green; possibly a conglomerate, coarse grained, clasts range from 1 mm to over 2 cm. Clasts are 50 - 60% fine grained, light green mafics, some stretching apparent. In general, clast wire decreases down hole.										
		<ul> <li>- 170.5 - 2 x 5 cm clast, 60 - 70% pyrrhotite, trace disseminated pyrrhotite in surrounding rock</li> </ul>	6181	tr	169.9	171.1	1.2			<b>&lt;</b> .001		
		- 174.0 - 175.0 - fracture at low angle to core axis										
		- 177.2 - 178.2 - fracture at low angle to core axis.										
180.2	183.4	MAFIC FLOW - typical, trace to 0.5% disseminated pyrrhotite.	6182	tr	180.2	183,4	3.2			<b>&lt;</b> .001		
183.4	192.5	MAFIC TO INTERMEDIATE LAPILLI TUFF - as 166.9 - 180.2			•							
		- 187.5 - 1.5 x 2 cm clast, 20% pyrrhotite	6183	tr	187.0	189.0	2.0			<.001		

#### NAME OF PROPERTY\_\_\_\_\_BEN LAKE HOLE NO. \_\_\_\_\_\_\_\_ BL-86-8 \_\_\_\_\_\_\_\_ SHEET NO \_\_\_\_\_\_ 7 of 9 \_\_\_\_\_

FODT	AGE				SAMPL					ASSAYS		
FROM	10	DESCRIPTION	ND.	SULPH IDES	TROM	TO	10144	,	•	01 104	01 104	
		- 188.4 - 189.4 - clasts infrequent, less than 1 cm. - 190.1 - 191.0; 191.5 - 192.5 - fractures 15° to 50° to core axis, pyrite conted.	6184	tr	189.0	192.5	3.5			<b>&lt;</b> .001		
192.5	198.0	<u>GREYWACKE</u> - medium grey-green; medium grained, poorly fuliated 55° to core axis. - 192.8 - 193.0 - quartz vein with trace to 0.57 pyrite blebs - 193.7 - pyrite coated fracture at 60° to core axis	6185	tr	192.5	194.3	1.8			<b>(.001</b>		-
198.0	200.1	- 195.5 - fracture, pyrite coated - 197.5 - pyrite coating on irregular fracture. MAFIC TO INTERMEDIATE LAPILLI TUFF - an 166.9 - 180.2	6186	tr	196.5	198.0	1.5			<b>(</b> .001		
200.1	208.9	MAFIC FLOW - typical	6187 6188		200.1 207.5	201.8 208.9	1.7 1.4			<.001 <.001		
208.9	239.8	MAFIC TO INTERMEDIATE LAPILLI TUFF - as 166.9 - 180.2	6189	0.5	221.0	230.5	9.5			(.001		
		- 215.1; 234.2 - pyrrhotite clasts - 221.5 - 230.0 - trace to 0.5% pyrrhotite and pyrite	6190	0.5	233.3	235.8	2.5			<b>(.</b> 601		
239.8	241.7	HAFIC TUFP - as $91.1 - 95.4$ , banding and foliation $45^{\circ}$ to core axis.										
241.7	244.8	QUARTZ DIORITE - light grey; fine to medium grained, dominantly felsic minerals, with small clumps of mafic minerals.										
		Average Hodes Feldspat 40 - 50% Quattz 20 - 30%			•	a,						

#### NAME OF PROPERTY BEN LAKE

5HEET NO. \_\_8 OF 9

	TAGE	5 A M						ASSAYS					
	1	DESCRIPTION		TE SULPH	1	FOOTAGE			1	1			
FROM	10			1025	FROM	70	TOTAL	<u>`</u>		02 104	62 104		
		Chlorite 10 - 20Z Biotite 5 - 10Z Amphiboles 5 - 10Z				i.							
244.8	261.2	<u>MAFIC TUFF</u> - as 91.1 - 95.4, pyrrhotite $0.5 - 17$ , pyrite trace to $0.57$ . Sulphides occasionally disseminated, more often as stringers. Pyrite also on fractures and foliation planes.	6191 6192 6193 6194 6195 6196 6197	1 1 1 1 1 1	244.8 246.5 248.9 250.1 252.1 255.6 258.4	246.5 248.9 250.1 252.1 255.6 258.4 261.2	1.7 2.4 1.2 2.0 3.5 2.8 2.8			<pre>&lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001</pre>			
261.2	270.7	QUART2-: PORPHYRY - medium grey; medium grained, poorly foliated, i prained at upper and lower contacts.	6198 6199	tr tr	261.2 265.8	265.8 270.7	4.6 4.9			(.001 (.001			
		Average Modes	1		.				ļ				
		Quartz30-40%Feldspar30-40%(phenocrysts10-20%Biotite10-20%Amphiboles5-10%Pyritetrace											
		Pyrite finely disseminated and as coatings on fractures.											
270.7	277.2	MAFIC FLOW - typical											
		-273.7 - 274.1 - 20 - 30% biotite, possibly a mafic tuff			[								
		- 274.1 - 277.2 - pyrite disseminated, as fine, irregular stringers	6200	tr	274.1	277.2	3.1			<b>&lt;</b> .001			
		- 275.4 - 276.2 - blocky, pyrite on fractures.		{									
277.2	281.8	INTERMEDIATE TUFF - medium grey; fine grained, foliated $55^{\circ}$ to core axis. Pyrite 0.5 to 1% as fine stringers, blebs, and on a fracture $25^{\circ}$ to core axis at 281.3.	6201	1	• 277.2	281.8	4.6	-		<b>&lt;.</b> 001			
			]										

BEN LAKE

NAME OF PROPERTY\_\_\_\_\_BEN LAKE

HOLE NO \_\_\_\_\_\_ SHEET NO \_\_\_\_ 9 OF 9 \_\_\_\_

F001	AGE			الأوبيد الثان	SAMP	. E		ASSAYS					
FROM	70		NO.	IDES	FROM	TOOTAGE	TOTAL	``	`	02 104	01 10%		
281.8	291.5	MAFIC FLOW - typical											
291.5	294.8	INTERMEDIATE TUFF - medium grey; fine grained, pyrite disseminated, trace to 0.5%.	6202	0.5	291.5	294.5	3.0			<b>く</b> .001			
		- 294.0 - pyrite blebs around small quartz stringer.											
294.8	321.0	HAFIC FLOW - typical, often blocky, fractured.											
		- 294.8 - small quartz- <u>tourmaline</u> vein, minor <u>tourmaline</u> disseminated into mafics as well	6203	-	294.8	295.7	0,9			<i>(</i> .001			
		- 313.5 - 313.8 - quartz vein	6204	-	313.0	314.4	1.4			(.001			
		- 315.0 - 317.0 - quartz vein.	6205	-	314.4	317.7	3.3			<b>&lt;.0</b> 01			
321.0		End of Hole.											
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NAME OF	PROPERTY	BEN LAKE			
HOLE NO.	BL-86-9	LENGTH	457'		
LOCATION					
LATITUDE		DEPARTURE			
ELEVATION		AZIMUTH	<u> </u>		-45°
STARTED _	ctober '5, 1986	FINISHED	October 26	1986	

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTII
200'	-41.4				
457'	-38.19				

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HOLE NO. BL-86-9 SHEET NO. 1 OF 3

REMARKS SUBMARY LOB

Claim 570078

LOGGED BY \_\_\_\_\_ I.Jones

FOOT	TAGE				5 A M P	ι <b>Ε</b>		ASSAYS				
FROM	10	SUPPLARY LOG	NO.	IDES"	FROM	TO	TOTAL	<u>,</u>		02/10N	07/10N	
0	24.5	CASING										
24.5	26.5	<u>GRANITE</u> - from overburden boulder.										
26.5	51.5	MAFIC FLOW - typical.										
51.5	65.1	BANDED IRON FORMATION - medium grey-green, fine grained, grunerite associated with magnetite, trace sulphides.				•						
65.1	68.0	GRAPHITIC SEDIMENT - dark grey-black, very fine grained.										
68.0	75.7	BANDED IRON FORMATION - medium grey-black, well banded, 0.5-17 pyrrhotite.										
75.7	81.4	GRAPHITIC SEDIMENT - as 65.1 - 68.0.							i			
81.4	97.3	BANDED IRON FORMATION - as 68.0 - 75.7.										
97.3	107.3	<u>GRAPHITIC SEDIMENT</u> - BB 65.1 - 68.0.									ļ	
107.3	134.8	<u>HAFIC FLOW</u> - typical.										
		- 117.5 - quartz-carbonate- <u>tourmaline</u> vein.										
134.8	136.2	QUARTZ-FELDSPAR PORPHYRY - typical.										
136.2	155.6	HAFIC TUFF - typical.										
155.6	157.8	BANDED IRON FORMATION - pyrite 0.5-17, pyrrhotite 0.5-17.		· · ·								
157.8	159.5	QUARTZ-FELDSPAR PORPHYRY - typical.				i A					ĺ	
159.5	196.2	MAFIC TUFF - typical.				<u>.</u>			1		1	1

NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_\_ 2 OF 3

F001	TAGE				SAMPL			ASSAYS					
FROM	10	DESCRIPTION	NO.	SULPH IDES	FRON	7007AGE 10	TOTAL	`	•	02 104	62 104		
196.2	236.0	<u>GREYWACKE</u> - typical.											
236.0	246.1	MAFIC FLOW - typical.											
246.1	247.7	QUARTZ-FELDSPAR PORPHYPY - typical.											
247.7	255.3	MAFIC TUFF - typical.											
255.3	272.2	MAFIC FLOW - typical.	Į										
272.2	286.7	MAFIC TUPF - typical.	Į										
286.7	358,8	GREYWACKE - typical.	l										
		- 288.3 - 288.5 - quartz-carbonate- <u>tourmaline</u> vein.	6311	2	287.6	288.6	1.0			.024			
		- 289.0 - 289.2 - quartz- <u>tourmaline</u> vein.	ļ		·								
		- 308.9 - 309.7 - 50-60% quartz-carbonate- <u>tourmaline</u> stringers.	ļ			·	· .						
		- 310.9 - 311.1 - quartz vein, trace <u>tourmaline</u> .	Į										
358.8	362.6	DIORITE - medium grey, medium grained.	6238	tr	358,8	362.6	3.8			.012			
362.6	375.3	<u>GREYWACKE</u> - typical.											
375.3	382,0	MAFIC FLOW - typical.	l										
382.0	392.0	<u>GREYWACKE</u> - typical.											
		- 382.4 - 1/4" quartz-carbonate- <u>tourmaline</u> vein.											
		- 387.2 - 1/2" quartz-carbonate- <u>tourmaline</u> vein.											
392.0	395.2	<u>SILICIFIED INTERNEDIATE TUFF</u> - typical.											
395.2	417.3	<u>GREYWACKE</u> - typical.										ł	
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NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_\_\_ BL-B6-9\_\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF 3\_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO	· · · · · · · · · · · · · · · · · · ·	NO.	S SULPH IDES	FROM	1001402	TOTAL	`	•	07 104	02 104	
417,3	427.9	SILICIPIED MAFIC TUFF - typical.										
427.9	457.0	HAFIC FLOW - typical.										
457.0		End of Hole.										
					•							
	•								1		- 0	1. 1.
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NAME OF	PROPERTYB	EN LAVE			
HOLE NO.	BL-86-9	LENGTH	457'		
LOCATION	L20E 5+255				
LATITUDE	•	DEPARTURE			
ELEVATION	۱ <u></u>	. AZ IMUTH		DIP	45°
STARTED	October 25, 1986	FINISHED	October 26	1986	

FOOTAGE	-trip	AZIMUTH	FOOTAGE	DIP	AZMUTH
200'	-41.49				
457'	-38.1				

\*

HOLE NO. BL-86-9 SHEET NO. 1 OF 7

Claim 570078

REMARKS

LOGGED BY \_\_\_\_\_L.Jones

FOOT	AGE				SAMP	LE		A 5 5 A Y 5					
FROM	70		NO.	SUL PH	FROM	TO	TOTAL		4	OZ/TON	02/104		
0	24.5	CASING											
24.5	26.5	<u>GRANITE</u> - from boulder in overburden											
26.5	51,5	MAFIC FLOW - typical, foliated 78° to core axis, quartz- carborate stringers common	6271	-	26.5	27,8	1.3			<.001			
		- 27.2 - 27.3 - quartz-carbonate stringer	6272	-	43.4	44.5	1.1			<.001	1		
		- 43.8 - 44.0 - quartz-carbonate stringer	6273	-	46.0	47.0	1.0			(,001			
		- 46.3 - 46.6 - quartz-carbonate stringer	6274	-	49.8	51,5	1.7			<.001			
51.5	65.1	BANDED IRON FORMATION - medium grey-green; fine grained, well banded, banding and foliation $70^{\circ}$ to core axis. Gruperite is	6275	tr	51.5	55.0	3.5			<b>&lt;</b> .001			
		is wispy, associated with magnetite. Carbonatization associated with grunerite.	6276	tr	55.0	60.0	5.0			<b>&lt;</b> .001		Ì	
		Average Modes	6277	tr	60.0	65.1	5.1			<b>&lt;.0</b> 01			
		Chert 40 - 50% Magnetite 30 - 40% <u>Grunerite</u> 10 - 20% Pyrite trace disseminated Pyrrhotite trace disseminated				5							
65.1	68,0	<u>GRAPHITIC SEDIMENT</u> - dark grey-black; vc:y fine grained, well banded, well foliated, banding, foliation at $65^{\circ}$ to core axis, mildly magnetic. Pyrrhotite 0.5 - 1% as very fine stringers.	6278	1	65.1	68.0	2.9			<.001			
		- 65,5 - 65,8 - amall Banded Iron Formation											
. 1		- 67.5 - 67.6 - small Banded Iron Formation				ĺ							
NAME OF PROPERTY\_\_\_\_\_\_BEN LAKE

HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 2 OF 7

F00'	TAGE		SAMPLE NO SULPH FOOTAGE IDES FROM TO							ASSAYS	
FROM	10	DESCRIPTION	HO	A SULPH		1001466		t	Γ.	01 100	67 760
68,0	75.7	BANDED IRON FORMATION - medium grey-black; well banded, banding, foliation 70° to core axis.	6279	1	68,0	72.0	4.0				<b>(</b> .001
		Average Modes	6280	1	72.0	75.7	3.7				<.001
		Chert50-60ZMagnetite30-40ZGrunerite10-20Z associated with magnetiteChlorite5-15ZGarnets1-2Z pink, poikiloblastic, anhedral									
		Pyrrhotite 0.5 - 1%									
		Pyrrhotite as fine stringers and disseminated. - $72.5 - 72.8$ - contorted folded foliation									
75.7	81,4	GRAPHITIC SEDIMENT - as 65.1 - 68.0, trace pyrrhotite.			•						
		- 76.8 - 76.9 - small Banded from Formation	6281	tr	75.7	81.4	5.7				<b>(</b> .001
		- 77.8 - 78.5 - small Banded from Formation - 80.7 - 80.9 - small Banded from Formation, 0.5 - 12 pyrrhotite.									
81.4	97.3	BANDED IRON FORMATION - ## 68.0 - 75.7	6282 6283 6284	1 1 1	81.4 86.1 91.0	86.1 91.0 95.0	4.7 4.9 4.0				<.001 .002 <.001
97.3	107.3	<u>CRAPHITIC SEDIMENT</u> - as $65.1 - 68.0$ , pyrrhotite $0.5 - 12$ as fine stringers. Pyrite, trace to $0.52$ disseminated, rarely as stringers.	0203		95.0	97.3	2,3				<b>\$</b> ,001
		- 105.0 - 106.2 - 40 - 50% quartz stringers, each approximately 1/2" wide, with 1 - 2% pyrrhotite	6286 6287 6288 6288	1.5 1.5 1.5 1.5	97.3 101.0 105.0 106.2	101.0 105.0 106.2 107.3	3.7 4.0 1.2 1.1		ŗ		<.001 <.001 <.001 <.001
		- 107.7 - 107.3 - quartz vein, trace pyrrhotite.									

NAME OF PROPERTY\_\_\_\_\_BEN LAKE

HOLE NO \_\_\_\_\_\_\_ SHEET NO \_\_\_\_\_\_ 3 of 7 \_\_\_\_\_

FOOT	TAGE	DEFADIDEIAN	SAMPLE NO 150100 FOOTAGE (DES 1800 TO TO TA					ASSAY	;		
FROM	10	DESCRIPTION	~~	SULPH IDES		TOOTAGE	70141	,	* 02 TO=	62 104	[
107.3	134.8	<u>HAFIC FLOW</u> - typical, foliated.at 70° to core axis. - 107.3 - 110.0 - trace to 0.5% disseminated pyrrhotite	6290	0.5	107.3	111.0	3.7		(.001		
		- 117.5 - guartz-carbonate tourmaline vein	6291	-	117.0	118.1	1.1		٢.001		
		- 125.1 - 126.1 - diorite, light grey with green tinges, fine grained	6292	-	125.0	126.1	1.1		.002		
		- 125.9 - 126.0 - quartz vein									
134.8	136.2	QUARTZ-FELDSPAR PORPHYRY - medium grey; fine grained matrix, phenocrysts 1 - 2 mm 20 - 30%, foliated 70° to core axis.	6293	-	134.8	136,2	1.4		<b>(</b> ,001		
		Average Hodes									
		Quartz 50 - 60% Feldspar 30 - 40% Biotite 10 - 20%			•						
136.2	155.6	MAFIC TUFF - dark green-grey; fine grained, moderately well banded, foliated 65° to core axis.	6294	tr	139,6	141.2	1,6		<b>(</b> .001		
		Average Hodea	6295	tr	141.2	143,2	2,0		<b>&lt;</b> .001		
		Chlorite 30 - 407	6296	tr	143.9	145.1	1,2		.001		
		Biotite 30 - 407 American 20 - 207	6297	tr	145.1	147.0	1,9		<b>&lt;</b> .001		
		Quartz 15 - 207	6298	tr	152.7	154.0	1,3		(.001		
		Pyrrhotite trace	6299	tr	154.0	155.6	1.6		<.001		
		Pyrrhotite generally associated with quartz-feldspar porphyry.									i
		- 139.9 - 140.6 - quartz-feldspar porphyry			۲						
		- 140.4 - 140.5 - quartz vein									
			'								

NAME OF PROPERTY\_\_\_\_\_BEN LAKE

HOLE NO. \_\_\_\_\_\_ B1-86-9\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 4 OF 7 .....

F00*	TINGE		SAMPLE NO. SUIPH FOOTAGE				Γ		ASSAYS			
FROM	70	DESCRIPTION	NO.	IDES	FROM	TOTACE	TOTAL	、	•	01 700	61 104	
155.6	157.8	<ul> <li>- 141.7 - 142.0; 142.5 - 142.9; 144.2 - 144.5; 144.8 - 145.0; and 145.4 - 145.9 - quartz-feldspar porphyry</li> <li>- 145.5 - 145.8 - quartz vein</li> <li>- 153.1 - 153.6; and 154.6 - 155.2 - quartz-feldspar porphyry.</li> <li><u>BANDED IRON FORMATION</u> - medium grey-black; generally fine grained, foliation and banding 60° to core axis, well banded.</li> </ul>	6300	2	155.6	157.8	2.2			<.001		
		Average HodesChert40-50%Hagnetite20-30%Grunerite10-20%Chlorite10-20%Garnets5-10%Pyrite0.5-1%Pyrhotite0.5-1%Graphitetracein a single 1/4" bandGarnets 2 - 3 mm, pink, anhedral, poikiloblastic, in the chloritic bands.										
		- 157.2 - 157.8 - pyrite, pyrrhotite stringers prominent.										
157.8	159.5	QUARTZ-FELDSPAR PORPHYRY - as 134.8 - 136.2.	6301	-	157.8	159.5	1.7			<b>(</b> .001		
159.5	196.2	<u>HAFIC TUFF</u> - as 136.2 - 155.6 - 168.1 - 170.0 - pyrite costed fractures 70° to core axis	6302	tr	167.9	171.4	3.5			<b>(.</b> 001		
		<ul> <li>170.7 - 171.1 - quartz vein</li> <li>177.3 - 178.2 - quartz-feldspar porphyry, minor muscovite</li> </ul>	6303	-	, 177,3	178.2	0.9			<b>&lt;. 0</b> 01		

an irregular fracture.

NAME OF PROPERTY BE

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BEN LAKE

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			HOLE NO. <u>BL-86-9</u> SAMPLE					SHE	EET NO.	50	[ ]	<u></u>
F001	AGE				SAMP	. 2				ASSAYS		
FROM	TO	DESCRIPTION	NO.	SUL PH		7007AGE	TOTAL	•	•	02 704	62 10-	
		- 183.2 - pyrite coated fracture 30° to core axis	6304	tr	182.7	184.9	2.2			.001		
		- 183.9 - quartz vein, 3 - 5% pyrite										
196.2	236.0	GREYWACKE - dark grey-green; fine to medium grained, generally poorly banded, foliation 60° to core axis; trace pyrrhotite, erratically distributed.										
		- 199.0 - minor 1 mm pink garnets				1						
		- 200.9 - 201.1 - quartz-carbonate vein	6305	-	200.5	201.4	0.9			<b>&lt;</b> .001		
i		- 201.7 - minor brecciated zone										
		<ul> <li>202.9 - 203.2 - quartz-carbonate vein, greywacke in vicinity coarser grained, trace pyrrhotite</li> </ul>	6306	-	202.5	203.5	1.0			<b>&lt;</b> ,001		
•		- 204.8 - 206.0 - mafic tuff.										
236.0	246.1	MAFIC FLOW - typical										
		- 241.5 - 242.0 - quartz-feldspar porphyry with 1/2" quartz vein.	6307	-	241.3	242.3	1.0			<b>&lt; .0</b> 01		
246.1	247.7	QUARTZ-FELDSPAR PORPHYRY - as 134.8 - 136.2	6308	-	246.1	247.7	1.6			<b>&lt;</b> .001		
247.7	255.3	MAFIC TUFF - as 136.2 - 155.6			}							
255.3	272.2	MAFIC FLOW - typical, very blocky.										
272.2	286.7	<u>HAFIC TUFF</u> - dark grey-green; fine to medium grained, poorly banded, foliated 70° to core axis, mineralogy typical.										
		- 281.1 - 281.3 - chert band, trace pyrrhotite	6309	tr	280.7	281.7	1.0			<b>&lt;.0</b> 01		
		- 285.5 - trace pyrite and 1 - 3 mm muscovite books on	6310	tr	284.7	286.3	1.6			<.001		

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MGROGES - TORONTO - 366-1166

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BEN LAKE NAME OF PROPERTY .....

HOLE NO. BL-86-9

\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 6 of 7

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,	BDATOO	DE LO DO LO U	SAMPLE NO. LEULPH FOOTAGE						ASSAYS			
PRO	w TO	DESCRIPTION	NO.	1663	TROM	TOTARE	10141	`	``	02 Tou	02 704	
28	5.7 358.1	<u>GREYWACKE</u> - typical - 288.3 - 288.5 - quarts-carbonate- <u>tourmaline</u> vein, 40 - 50X <u>tourmaline</u> , 3 - 5X pyrrhotite, trace pyrrhotite in wall rock	6311 6312	2 tr	287.6 288.6	288.6 289.6	1.0 1.0			.024 <.001		
		- 289.0 - 289.2 - quartz- <u>tourmaline</u> vein, 10 - 20% <u>tourmaline</u> - 290.0 - pyrite costed fracture 25° to core axis	6313	tr	289.6	290.7	1.1			.003		
		<ul> <li>- 308.9 - 309.7 - quartz-carbonate-tourmaline stringers</li> <li>50 - 60% of section, tourmaline 3 - 5%, minor hematite stains</li> </ul>	6314	tr	308.5	310.5	2.0			<b>(</b> .001		
		- 310.9 - 311.1 - quartz vein, minor carbonate, trace tourmaline	6315 6316 6317	tr - 1	310.5 313.8 317.5	311,5 315,8 320,2	1.0 2.0 2.7			<.001 .002 <.001		
		- 314.0 - 315.0 - mildly contorted foliation - 317.5 - 358.8 - 0.5 - 1% pyrrhotite, finely dissemin-	6318 6319 6320		320.2	322.1 323.6 325.7	1.9 1.5 2.1			.008 .005 <.001		
		ated, occasionally in coarse stringers and blebs, notably 321.0 - 321.5 and 333.9 - 334.2,	6321 6322 6323 6324 6325 6326 6327	0.5 0.5 0.5 0.5 0.5 0.5	325.7 330.4 333.5 335.2 340.0 345.0 355.0	330.4 333.5 335.2 340.0 345.0 348.1 358.8	4.7 3.1 1.7 4.8 5.0 3.1 3.8			<pre>(.001 (.001 (.001 (.001 (.001 (.001 (.001</pre>		
358 358 9 9	.8 362.6	DIORITE - medium grey with pink hues due to hematite staining; medium grained, well carbonatized, pyrite is trace, disseminated. Average Modes	6328	tr	358.8	362.2	3.8			.012		
LANCHOCES - TOHOM		Feldspar 30 - 402 Chlorite 30 - 402 Quartz 20 - 302 Amphiboles 10 - 202		r	•							

NAME OF PROPERTY BEN LAKE

HOLE NO. \_\_\_\_\_\_\_ B1-86-9\_\_\_\_\_\_ SHEET NO \_\_\_\_\_ 7 of 7

FOOT	TAGE		SAMPLE NO. SUUPH FOOTAGE							ASSAYS	<u></u>	
FROM	10	DESCRIPTION	NO.	N SULPH	FROM	1001AGE	TOTAL	``	、	01 104	62 704	
362.6	375.3	$\frac{\text{GREYWACKR}}{\text{disseminated pyrite.}} = \text{typical, } 1 = 2\text{X fine grained magnetite, trace}$	6329 6330 6331	tr tr tr	362.6 367.0 370.8	367.0 370.8 375.3	4.4 3.8 4.5				<.001 <.001 <.001	
375.3	382.0	<u>MAFIC FLOW</u> - typical, very blocky, broken up, trace disseminated pyrite.										
382.0	392.0	<u>GREYWACKE</u> - typical	1									
		- 382.4 - 1/4" quartz-carbonate- <u>tourmaline</u> vein	6332	tr	382.0	383.1	1.1				<b>&lt;</b> .001	
		<ul> <li>- 387.2 - 1/2" quartz-carbonate-tourmaline vein with trace to 0.5% pyrrhotite associated</li> </ul>	6333	tr	386.8	387.7	0.9				<b>(</b> .001	
		- 389.0 - 392.0 - trace to 0.5% pyrite, disseminated.	6334	tr	389.0	392.0	3.0				<b>(</b> .001	
392.0	395.2	SILICIFIED INTERMEDIATE TUFF - light grey-pink; very fine grained			•				}			
		- 392.0 - 392.8 - hematite staining	6335	-	392.0	395.2	3.2				<b>(</b> .031	
		- 392.6 - 393.0 - brecciated prior to silicification, foliated $60^\circ$ to core axis.										
395.2	417.3	<u>GREYWACKE</u> - typical, foliated 60° to core axis, infrequent pink garnets, fractures perpendicular to "oliation at 50° to core axis, occasionally with pyrite blebs.	6336 6337 6338	tr tr tr	395.2 404.3 407.0	397.0 407.0 412.0	1.8 2.7 5.0				(.001 (.001 (.001	
417.3	427.9	SILICIFIED MAFIC TUFF - medium to dark grey-green; well banded. frequent quartz stringers, banding and foliation 60° to core axis.	6339 6340	-	417.3 422.7	422.7 427.8	5.4 5.1				(.001 (.001	
427.9	457.0	MAFIC FLOW - typical										
·		- 427.9 - 428.7 - 0.5 - 1% disseminated pyrite	{									
		- 428.7 - 429.5 - fracture at 15° to core axis, 1" displacement on fracture	6341		<b>427.9</b>	429.9	2.0					Im
•		- 429,1 - 429.3 - quartz vein.								71	1 mil	
457.0		End of Hole.							.	K.		

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	NAME O	F PROP	ERTYBEN LAKEFO	DTAGE	DIP A	мотн	FOOTAGE	OIP	ZIMUTH	HOLE	NO. <u>21</u>	<u>summary</u>	LOP	<u> </u>
	HOLE N	0. <u>B</u>	L-86-10LENGTH210'200''_00'''_00'''_00'''_00'''_00'''_00'''_00'''_00'''_00'''_00'''_00'''_00'''_00''''_00''''_00''''_00''''_00''''_00''''_00''''''	٥'	-52.89					H I M A	RK5	runner y		
	LATITUD	)E	DEPARTURE								C1	iaim 570	9077	
	ELEVATI	ION	AZIMUTH 335° DIP60°											
	STARTE	o <u>Octob</u>	<u>er 26, 1986</u> FINISHED October 27, 1986	1				k		LOGGE	D BY	L.lon	25	
	FOO	TAGE			- T		5 A M F	LE			A	55A'	r %	
	FROM	10	SUMMARY LOG		NO.	IN S	FROM		E TOTAL		:	02/10H	02/104	
	υ	8.5	CASING											
	8.5	15.3	AMPHIBOLITE - typical.											
	15.3	21.9	<u>GREYWACKE</u> - typical.											}
	21.9	22.8	QUARTZ-FELDSPAR PORPHYRY - typical.											
	22.8	25.6	<u>GREYWACKE</u> - typical.											
	25.6	47.8	ARGILLACEOUS SEDIMENT - fine grained, dark grey, trace pyrite	•										
	47.8	87.3	<u>GREYWACKE</u> - typical.											
			- 67.4 - 67.6 - quartz-carbonate- <u>tourmaline</u> vein.											
	87.3	100.2	HAFIC TUFF - typical.											
	100.2	148.8	<u>GREYWACKE</u> - typical.											
	148.8	159.4	HAFIC TUFF - typical.											
	159.4	163.7	BANDED IRON FORMATION - medium grey, very fine grained, well	bande	ed.									
	163.7	165.5	QUARTZ-FELDSPAR PORPHYRY - typical.											
	165.5	185.2	GRAPHITIC SEDIMENT - fine grained, dark grey-black.											
	185,2	187.5	MAFIC TUFF - typical.			.	1							
	187.5	193.7	<u>GREYWACKE</u> - typical.											
	193.7	197.9	HAPIC TUFF - typical.											
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BEN LAKE NAME OF PROPERTY\_\_\_\_\_

B1\_86\_10

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				н	OLE N	oBL:	-86-10		\$ні	EET NO.	<u>2 of</u>	2	
	F00	TAGE				SAMPL	. E				ASSAYS		
	FROM	70		ND.	SULPS	feou	1001466	TOTAL	`	`	02 104	02 104	
•	197.9	207.9	<u>GREYWACKE</u> - typical.										
	207.9	210.0	MAFIC TUFF - typical.										·
	210.0		End of Hole.										
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911-98		•											
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NAME OF PROPERTYBE	IN LAKE	FOOTAGE	DiP
BL-86-10	ENGTH 210'		
1.7E 4+095		210'	-52.89
LOCATION			
LATITUDE DE	EPARTURE		
ELEVATION AZ	DIP 335° DIP60°		
STARTED OCTODER 26. 1986 FI	NISHEDOctober 27, 1986	L.,	

FOOTAGE	Dib	AZIMUTH	FOOTAGE	OIP	AZHIUTH
210'	-52.8 <sup>4</sup>				

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HOLE NO. BL-86-10 SHEET NO. 1 OF 4

REMARKS

Claim 570077

LOGGED BY \_\_\_\_\_L.Jones

F 0 0 1	TAGE		I		SAMP	LE			٨	SSAY	5
FROM	TO		NO.	SUL PH	FROM	FOOTAGE	TOTAL		ÿ	OZ/TON C	DZ/10H
0	8,5	CASING									
8.5	15.3	AMPHIBOLITE - dark grey; medium grained, foliated at 80° to core axis.									
		Average Modes									
		Amphiboles 50 - 60% Quartz 10 - 20%	6342	-	8.5	10,6	2.1			<b>〈</b> .001	
		$\begin{array}{cccc} chlorite & 10 & - & 20% \\ \hline Roldenar & 10 & - & 20\% \\ \hline \end{array}$	6343	1	10.6	11.5	0.9			<.001	
			6344	-	11.5	15.3	3.8			<b>〈</b> .001	
		quartz stringer at 11.2.									
15.3	21.9	<u>GREYWACKE</u> - dark grey; fine to medium grained, foliated at $50^{\circ}$ to core axis, infrequent quartz-carbonate stringers.	6345	-	17.0	18.0	1.0			<,001	
	v	- 17.2 - 18.0 - 2 fractures at 20° to core axis with $1/4"$ - $1/2"$ alteration halos.									
21.9	22.8	QUARTZ-FELDSPAR PORPHYRY - medium grey; fine to medium grained, 1 - 2 mm phenocrysts $10$ - 20%, foliated at $50^\circ$ to core axis.	6346	-	21.9	22.8	0.9			<.001	
		Average Modes									
		Quartz 50 - 60% Feldspar 30 - 40% Biotite 5 - 10%									
		- 22.7 - 22.8 - quartz-carbonate vein.							•		

SHEET NO \_\_\_\_ 2 OF 4 SAMPLE ASSAVS FOOTAGE DESCRIPTION 1 ..... TOOTAGE NO FRON 10 07 104 61 100 ١. ٩. IDES 780M 10 TOTAL ( .001 22.8 25.6 GREYWACKE - typical, trace to 0.5% pyrrhotite disseminated 6347 22.8 25.6 2.8 -25.6 47.0 ARGILLACEOUS SEDIMENT - dark grey; fine grained, infrequent quartzcarbonate stringers, foliated 40° to core axis. Average Modes Biotite 30 40X 20 302 Chlorite Quartz 20 302 Feldspar 207 10 Garnets 2 37 Pyrice trace . Pyrite disseminated, and on fractures. Garnets less than 1 mm, pink, subhedral to anhedral, common 38.0 - 41.0. 6348 tr 25.6 27.0 1.4 **〈**.001 **〈**.001 - 35.5 - 36.5 - trace to 0.5% disseminated pyrite 6349 0.5 34.6 36.4 1.8 - 42.2 - 44.9 - trace to 0.5% disseminated pyrite also 6350 0.5 42.2 44.9 2.7 .001 on fractures 15° to core axis. 47.8 87.3 **GREYWACKE** - typical 6351 - 67.4 - 67.6 - quartz-carbonate-tourmaline vein 67.0 68.0 1.0 .003 87.3 100.2 MAFIC TUFF - dark green-grey; fine to medium grained, moderately well banded, banding and foliation 50° to core axis. **<**.001 6352 | tr 97.3 100.2 Average Modes 2.9 40% Biotite 30 30**X** Chlorite 20 10 207 Quartz 10 20X Amphiboles Feldspar 5 107 Pyrite trace disseminated

BEN LAKE

NANE OF PROPERTY\_\_\_\_\_

#### NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_\_ BL-86-10\_\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_\_ 3 of 4

F00	TAGE		SAMPLE NO. 15 WILM FOOTAGE 1055 FROM TO 10 TA						 ASSAYS		
FROM	10	DESCRIPTION	NO.	IDES	FROM	TO	TOTAL	•	02 100	02 TO=	
100.2	148.8	<u>GREYWACKE</u> - medium grey; fine to medium grained, well folliated, schistose, foliated 55° to core axis, indistinct banding, some sections mildly magnetic.	6353	-	117.0	122.0	5.0		<b>(</b> .001		
		Average Modes	6354	-	122.0	125.3	3.3		<b>&lt;</b> .001		
		Biotite 30 - 40% Chlorito 20 - 30%	6355	-	131.4	136.4	5.0		<b>〈</b> .001		
		Quartz 15 - 20X Feldspar 5 - 10X Amphiboles 5 - 10X	6°56		141.8	142.8	1.0		.002		
		<ul> <li>142.1 - 142.4 - quartz vein with trace pyrrhotite, possibly an altered mafic tuff.</li> </ul>									
148.8	159.4	MAFIC TUFF - fine grained, moderately well banded, foliation and banding 55° to core axis, mineralogy typical.	6357	-	156,3	159.4	3,1		<b>&lt;</b> .001		
159.4	163.7	BANDED IRON FORMATION - medium grey; very fine grained, well banded light green hue, possibly due to grunerite, chert 30 - 40%, magnetite 30 - 40%.									
		- 159.4 - 160.3 - quartz vein, 20 - 30% chloritic stringers.	6358 6359	-	159.4	160.3 163.7	0.9 3.4		<.001 .001		
163.7	165.5	QUARTZ-FELDSPAR PORPHYRY - typical, foliated $60^{\circ}$ to core axis, moderately sheared.	6360	-	163.7	165.5	1.8		<b>&lt;</b> .001		
165.5	185.2	<u>GRAPHITIC SEDIMENT</u> - dark grey-black; fine grained, foliated $50^{\circ}$ to core axis, quartz-carbonate stringers common, 0.5 - 1% disseminated pyrite, also as smears on foliation planes.	6361 6362 6363	1 1 1	165.5 170.0 175.1	170.0 175.1 180.0	4.5 5.1 4.9		<.001 <.001 <.001		
		- 182.2 - 182.4 - quartz-carbonate stringer, 2 - 3% pyrite concentrated at edges in stringers	6364	1	180,9	182.9	2.0		.001		
•		- 184.6 - 184.7 - quartz stringer, 2 - 32 pyrite as coarse blebs and stringers.	6365	1, .	182.9	185.2	2.3		<b>(</b> .001		
											{

- TOMONTO OCES

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**BEN LAKE** 

1.14

			н	AME O	0. <u>BL=</u>	86-10	<b></b>	SHI	EET NO	4 0	£ 4	
FOOTA	GE		T		SAMP	. e				ASSAYS		]
ROM	то	DESCRIPTION	NO.	SULPH	E 8 0 4 4	1001ACE	PATAI			01 100	oz 10+	
85.2 1	187.5	<u>MAFIC TUFF</u> - typical, foliated $48^{\circ}$ to core axis.	6366	-	185.2	187.5	2.3			.001		
87.5 1	193.7	<u>CREYWACKE</u> - typical.										
93.7 1	97.9	<u>MAFIC TUFF</u> - dark grey-brown; moderately well banded, banding and foliation 55° to core axis.	6367	-	193.7	197.9	4.2			< .001		
		- 196.5 - 197.9 - several .1' and .2' quartz stringers.										
97.9 2	207.9	GREYWACKE - dark grey; medium grained, foliated 55° to core axis.										
		Average Modes							ļ			
		Biotite       30       -       40%         Quartz       20       -       30%         Chlorite       10       -       20%         Amphiboles       10       -       20%         Feldspar       10       -       20%				•						
7.9 2	10.0	MAFIC TUFF - typical.										
10.0		End of Hole.										
										Q#	Pa	dan

DOES - TOMONTO - 366-11

NAME OF	PROPERTY	BEN LAKE			
HOLE NO.	B1 <u> 86 11</u>	LENGTH	250'		
LOCATION	L8W 11+505				
LATITUDE		DEPARTURE			
ELEVATION		AZIMUTH	<u></u>	DIP	<u>-60°</u>
STARTED .	October 27, 1986	FINISHED	October 28.	1986	

وخدادي وروا ومحادث المتعاد					
F DO1 AGE	DIP	AZIMUTH	FOOTAGE	DIP	AZMUTH
250'	-52.8				

HOLE NO. BL-B6-11 SHEET NO. 1 of 1

REMARKS Summary Lug

Claim 570086

LOGGED BY L.Jones

AGE				5 A M F	, E				SSA	v 5		
TO	SUPPLARY LOG	NO.	18:5	FROM	TO	TOTAL		1.	02/10H	01/104		
6.0	CASING							1				
29.4	TUFFACEOUS SEDIMENT - medium to dark grey, generally fine grained.											
33.7	ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.											
94.5	TUFFACEOUS SEDIMENT - typical.				·			-				
103.3	INTERMEDIATE INTRUSIVE ~ medium grey, coarse grained, porphyritic.				ł							
106.2	TUFFACEOUS SEDIMENT - typical.									1		
130.8	INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.											
164.4	TUFFACEOUS SEDIMENT - typical.											
199.3	MAFIC TO INTERMEDIATE TUFF - typical.											
206.0	MAFIC TUPF											
212.5	FELSIC TUPF - medium grey, moderate carbonatization.										[	
	- 208.2 - 208.5 - 70-80% pyrrhotite, trace chalcopyrite.										1	
250.0	HAFIC FLOW - typical.	6405	50	212,5	213.5	1.0			.021	- 10	,	
	- 213.8 - trace arsenopyrite.									SI	1/m	
	End of Hole.		•						$\mathcal{D}$	r m	•-	
								-	7			
	A C E TO 6.0 29.4 33.7 94.5 103.3 106.2 130.8 164.4 199.3 206.0 212.5 250.0	A G E       DESCRIPTION         10       SIMPARY LOG         6.0       CASING         29.4       TUFFACEOUS SEDIMENT - medium to dark grey, generally fine grained.         33.7       ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.         94.5       TUFFACEOUS SEDIMENT - typical.         103.3       INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.         106.2       TUFFACEOUS SEDIMENT - typical.         103.3       INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.         106.2       TUFFACEOUS SEDIMENT - typical.         103.8       INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.         1146.4       TUFFACEOUS SEDIMENT - typical.         129.3       MAFIC TO INTERMEDIATE TUFF - typical.         1206.0       MAFIC TUFF         212.5       FELSIC TUFF - medium grey, moderate carbonatization.         - 208.2 - 208.5 - 70-80% pyrrhotite, trace chalcopyrite.         250.0       MAFIC FLOM - typical.         - 213.8 - trace arsenopyrite.         End of Hole.	A G E       D E S C R I P T I O N         10       SUMMARY LOG         6.0       CASING         29.4       TUFFACEOUS SEDIMENT - medium to dark grey, generally fine grained.         33.7       ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.         94.5       TUFFACEOUS SEDIMENT - typical.         103.3       INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.         106.2       TUFFACEOUS SEDIMENT - typical.         103.3       INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.         106.2       TUFFACEOUS SEDIMENT - typical.         103.8       INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.         104.4       TUFFACEOUS SEDIMENT - typical.         109.3       MAFIC TO INTERMEDIATE TUFF - typical.         206.0       NAFIC TUFF - medium grey, moderate carbonatization.         - 208.2 - 208.5 - 70-80% pyrchotite, trace chalcopyrite.         250.0       MAFIC FLOW - typical.         - 213.8 - trace arsenopyrite.         End of Hole.       6405	A G E       D E S C M I P T I D N         10       SINGMARY LOG       NO.         6.0       CASING         29.4       TUFFACEOUS SEDIMENT - medium to dark grey, generally fine grained.         33.7       ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.         94.5       TUFFACEOUS SEDIMENT - typical.         103.3       INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.         106.2       TUFFACEOUS SEDIMENT - typical.         103.3       INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.         104.4       TUFFACEOUS SEDIMENT - typical.         109.3       MAFIC TO INTERMEDIATE TUFF - typical.         120.6.0       MAFIC TUFF - medium grey, moderate carbonatization.         - 208.2 - 208.5 - 70-80% pyrrhotite, trace chalcopyrite.         250.0       MAFIC FLOM - typical.         - 213.8 - trace argenopyrite.         End of Hole.	A G E       D E S C R I P T I D NO.       S I M T         10       SIMMARY LOG       NO.       NO. <td>A G C       D F S C R I P T I O N       S X M P L C         10       SUMMARY LOC       NO. VSC FROM 10         6.0       CASING       10         29.4       TUFFACEOUS SEDIMENT - medium to dark grey, generally fine grained.       10         33.7       ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.       10         94.5       TUFFACEOUS SEDIMENT - typical.       10         103.3       INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.       10         106.2       TUFFACEOUS SEDIMENT - typical.       10         106.2       TUFFACEOUS SEDIMENT - typical.       10         110.3.1       INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.       10         1106.2       TUFFACEOUS SEDIMENT - typical.       10         1103.8       INTERMEDIATE TUFF - typical.       10         1109.3       MAFIC TO INTERMEDIATE TUFF - typical.       10         1212.5       FELSIC TUFF - medium grey, moderate carbonatization.       10         1212.5       FELSIC TUFF - medium grey, moderate carbonatization.       10         122.5       FELSIC TUFF - typical.       10         123.8 - trace areonopyrite.       10       11         124.0       Hole.       10       12   <!--</td--><td>A G C       D C S C R I P T I O N       S I M P L E         10       SUMMARY LOG       10</td><td>A G C     D F S C H I P I I O H     S A M P L C       10     SUMPLAY LOC     HO. NACY FROM     TOO TOTAL       6.0     CASING     10     TOTAL       29.4     TUFFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     10     10       33.7     ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.     10     10       94.5     TUFFACEOUS SEDIMENT - typical.     10     10       103.3     INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.     10     10       106.2     TUFFACEOUS SEDIMENT - typical.     10     10       106.3     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     10       114.4     TUFFACEOUS SEDIMENT - typical.     10     10       109.3     MAFIC TO INTERMEDIATE TUFF - typical.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       123.8     trace argenopyrite.     10     10     10</td><td>A G E     SIMPLARY LOG       TOTACE       TOTACEOUS SEDIMENT - typical.       <th colspan<="" td=""><td>A G C     D C S C R I P F I O N SINGARY LOG     S LA P L C     A S S A       10     SINGARY LOG     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       6.0     CASING     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       29.4     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       33.7     ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine grained, very fine grained, porphyritic.     I I I I I I I I I I I I I I I I I I I</td><td>A G C     D C S C R I P T I O N     SIDDUARY LOG     A S S A V S       10     SIDDUARY LOG     NO. NOR TOTAL     V OTAGE     V OTAGE       6.0     CASINC     10     TOTAL     V OTAGE     V OTAGE       29.4     TUFFACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.     Image: Very fine grained, very fine grained.     Image: Very fine grained, very fine grained.     Image: Very fine grained.       33.7     ARCILLACEOUS SEDIMENT - typical.     Image: Very fine grained, very fine grained.     Image: Very fine grained.     Image: Very fine grained.       94.5     TUFFACEOUS SEDIMENT - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       100.1     INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       101.3     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.6     INTERMEDIATE TUFF - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.8     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.9     MAFIC TUFF     FELSIC TUFF     Image: Very fine grained.</td></th></td></td>	A G C       D F S C R I P T I O N       S X M P L C         10       SUMMARY LOC       NO. VSC FROM 10         6.0       CASING       10         29.4       TUFFACEOUS SEDIMENT - medium to dark grey, generally fine grained.       10         33.7       ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.       10         94.5       TUFFACEOUS SEDIMENT - typical.       10         103.3       INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.       10         106.2       TUFFACEOUS SEDIMENT - typical.       10         106.2       TUFFACEOUS SEDIMENT - typical.       10         110.3.1       INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.       10         1106.2       TUFFACEOUS SEDIMENT - typical.       10         1103.8       INTERMEDIATE TUFF - typical.       10         1109.3       MAFIC TO INTERMEDIATE TUFF - typical.       10         1212.5       FELSIC TUFF - medium grey, moderate carbonatization.       10         1212.5       FELSIC TUFF - medium grey, moderate carbonatization.       10         122.5       FELSIC TUFF - typical.       10         123.8 - trace areonopyrite.       10       11         124.0       Hole.       10       12 </td <td>A G C       D C S C R I P T I O N       S I M P L E         10       SUMMARY LOG       10</td> <td>A G C     D F S C H I P I I O H     S A M P L C       10     SUMPLAY LOC     HO. NACY FROM     TOO TOTAL       6.0     CASING     10     TOTAL       29.4     TUFFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     10     10       33.7     ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.     10     10       94.5     TUFFACEOUS SEDIMENT - typical.     10     10       103.3     INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.     10     10       106.2     TUFFACEOUS SEDIMENT - typical.     10     10       106.3     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     10       114.4     TUFFACEOUS SEDIMENT - typical.     10     10       109.3     MAFIC TO INTERMEDIATE TUFF - typical.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       123.8     trace argenopyrite.     10     10     10</td> <td>A G E     SIMPLARY LOG       TOTACE       TOTACEOUS SEDIMENT - typical.       <th colspan<="" td=""><td>A G C     D C S C R I P F I O N SINGARY LOG     S LA P L C     A S S A       10     SINGARY LOG     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       6.0     CASING     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       29.4     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       33.7     ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine grained, very fine grained, porphyritic.     I I I I I I I I I I I I I I I I I I I</td><td>A G C     D C S C R I P T I O N     SIDDUARY LOG     A S S A V S       10     SIDDUARY LOG     NO. NOR TOTAL     V OTAGE     V OTAGE       6.0     CASINC     10     TOTAL     V OTAGE     V OTAGE       29.4     TUFFACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.     Image: Very fine grained, very fine grained.     Image: Very fine grained, very fine grained.     Image: Very fine grained.       33.7     ARCILLACEOUS SEDIMENT - typical.     Image: Very fine grained, very fine grained.     Image: Very fine grained.     Image: Very fine grained.       94.5     TUFFACEOUS SEDIMENT - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       100.1     INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       101.3     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.6     INTERMEDIATE TUFF - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.8     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.9     MAFIC TUFF     FELSIC TUFF     Image: Very fine grained.</td></th></td>	A G C       D C S C R I P T I O N       S I M P L E         10       SUMMARY LOG       10	A G C     D F S C H I P I I O H     S A M P L C       10     SUMPLAY LOC     HO. NACY FROM     TOO TOTAL       6.0     CASING     10     TOTAL       29.4     TUFFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     10     10       33.7     ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.     10     10       94.5     TUFFACEOUS SEDIMENT - typical.     10     10       103.3     INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.     10     10       106.2     TUFFACEOUS SEDIMENT - typical.     10     10       106.3     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     10       114.4     TUFFACEOUS SEDIMENT - typical.     10     10       109.3     MAFIC TO INTERMEDIATE TUFF - typical.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       122.5     FELSIC TUFF - medium grey, moderate carbonstization.     10     10       123.8     trace argenopyrite.     10     10     10	A G E     SIMPLARY LOG       TOTACE       TOTACEOUS SEDIMENT - typical. <th colspan<="" td=""><td>A G C     D C S C R I P F I O N SINGARY LOG     S LA P L C     A S S A       10     SINGARY LOG     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       6.0     CASING     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       29.4     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       33.7     ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine grained, very fine grained, porphyritic.     I I I I I I I I I I I I I I I I I I I</td><td>A G C     D C S C R I P T I O N     SIDDUARY LOG     A S S A V S       10     SIDDUARY LOG     NO. NOR TOTAL     V OTAGE     V OTAGE       6.0     CASINC     10     TOTAL     V OTAGE     V OTAGE       29.4     TUFFACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.     Image: Very fine grained, very fine grained.     Image: Very fine grained, very fine grained.     Image: Very fine grained.       33.7     ARCILLACEOUS SEDIMENT - typical.     Image: Very fine grained, very fine grained.     Image: Very fine grained.     Image: Very fine grained.       94.5     TUFFACEOUS SEDIMENT - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       100.1     INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       101.3     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.6     INTERMEDIATE TUFF - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.8     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.9     MAFIC TUFF     FELSIC TUFF     Image: Very fine grained.</td></th>	<td>A G C     D C S C R I P F I O N SINGARY LOG     S LA P L C     A S S A       10     SINGARY LOG     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       6.0     CASING     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       29.4     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       33.7     ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine grained, very fine grained, porphyritic.     I I I I I I I I I I I I I I I I I I I</td> <td>A G C     D C S C R I P T I O N     SIDDUARY LOG     A S S A V S       10     SIDDUARY LOG     NO. NOR TOTAL     V OTAGE     V OTAGE       6.0     CASINC     10     TOTAL     V OTAGE     V OTAGE       29.4     TUFFACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.     Image: Very fine grained, very fine grained.     Image: Very fine grained, very fine grained.     Image: Very fine grained.       33.7     ARCILLACEOUS SEDIMENT - typical.     Image: Very fine grained, very fine grained.     Image: Very fine grained.     Image: Very fine grained.       94.5     TUFFACEOUS SEDIMENT - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       100.1     INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       101.3     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.6     INTERMEDIATE TUFF - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.8     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.9     MAFIC TUFF     FELSIC TUFF     Image: Very fine grained.</td>	A G C     D C S C R I P F I O N SINGARY LOG     S LA P L C     A S S A       10     SINGARY LOG     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       6.0     CASING     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       29.4     TUPFACEOUS SEDIMENT - medium to dark grey, generally fine grained.     NO. MON TRONG TOTAGE     NO. MON TRONG TOTAGE     A S S A       33.7     ARGILLACEOUS SEDIMENT - medium grey, very fine grained, very fine grained, very fine grained, porphyritic.     I I I I I I I I I I I I I I I I I I I	A G C     D C S C R I P T I O N     SIDDUARY LOG     A S S A V S       10     SIDDUARY LOG     NO. NOR TOTAL     V OTAGE     V OTAGE       6.0     CASINC     10     TOTAL     V OTAGE     V OTAGE       29.4     TUFFACEOUS SEDIMENT - medium grey, very fine grained, very fine banding.     Image: Very fine grained, very fine grained.     Image: Very fine grained, very fine grained.     Image: Very fine grained.       33.7     ARCILLACEOUS SEDIMENT - typical.     Image: Very fine grained, very fine grained.     Image: Very fine grained.     Image: Very fine grained.       94.5     TUFFACEOUS SEDIMENT - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       100.1     INTERMEDIATE INTRUSIVE - medium grey, coarse grained, porphyritic.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       101.3     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.6     INTERMEDIATE TUFF - typical.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.8     INTERMEDIATE INTRUSIVE - as 94.5 - 103.3.     Image: Very fine grained.     Image: Very fine grained.     Image: Very fine grained.       110.9     MAFIC TUFF     FELSIC TUFF     Image: Very fine grained.

NAME OF HOLE NO	PROPE	-86-11 LENGTH 250'	007-GE	DIP	AZMUTH	FOOTAGE	DIP	AZIMUTH	REMA	NO. BL-3	<u>86-11</u> s+	IEET NO.	<u> </u>
LOCATION LATITUDE ELEVATIO	N <u>8</u> E DN									C1z	sim 5700	086	
STARTED	_Octob	er 27, 1986_ FINISHED October 28, 1986	I					J	LOGGE	D 8Y	L.Jon	28	
FOOT	AGE			Ι		5 A M	PLE		T	4	SSA	rs	
FROM	то			N	0. SU	S FROM	FOOTA	TOTAL	· ·	×	02/104	02/10N	
0	6.0 29.4	CASING TUFFACEOUS SEDIMENT - medium to dark grey, seperally fine o	rained										
29.4	33.7	TUFFACEOUS SEDIMENT - medium to dark grey, generally fine g         Weill foliated at 50° to core axis.         Average Modes         Quartz       20       -       302         Biotite       20       -       302         Chlorite       20       -       302         Feldspar       10       -       202         Amphiboles       10       -       202         Garnets       3       -       52         Carnets       3       -       52         Garnets       3       -       52         Carnets       3       -       52         Garnets       -       52       pyr	er, minate y fine tite 5 - 12 on,	63 63	68 - 69 2 70 4	26.0 28.5 29.4	28. 29. 33.	5 2.5 4 0.9 7 4.3			<.001 <.001		

NAME OF PROPERTY\_\_\_\_\_BEN LAKE

,

HOLE NO \_\_\_\_\_\_BL-86-11

164

\_\_\_\_\_ SHEET NO. \_\_\_\_ OF 7 \_\_\_\_

5007			SAMPLE NO SULPH FOOTAGE					r				7
	AUE	DESCRIPTION		1 Sut 8-	•rmFi	3004173		<b> </b>	r			
FROM	TO		NO.	IDES	FROM	1 10	TOTAL	×	•	02 TON	02 10×	
		- 33.0 - pyrite coated fractures, irregular, generally sub-parallel to core axis.										
33.7	94.5	TUPFACEOUS SEDIMENT - as 6.0 - 29.4										
		- 33.7 - 37.0 - trace to 0.5% pyrrhotite	6371	0.5	33.7	38.0	4.3			(.001		
		- 45.0; 46.0 - small, $1/4"$ - $1/2"$ quartz stringers,	6372	tr	44.5	46.3	1.8			<b>&lt;.0</b> 01		
		trace pyrthotice, stringers appear boudinaged	6373	tr	46.3	48.9	2.6	}		6.001		
		- 47.0 - 47.3 - quartz stringers, banding around stringers contorted										
		- 49.3 - quartz stringer, trace pyrrhotite, possibly boudinaged	6374	tr	49.0	51.2	2,2			٢.001		
		bouttinged	6375	-	54.1	55.4	1.3			(.001		
		- 60.2 - 60.3 - quartz stringer, trace pyrrhotite										ł
		- 60.6 - 60.8 - quartz stringer, trace pyrrhotite, banding around stringer is contorted	6376	tr	59.3	62.5	3.2			<b>{.</b> 001		
		- 61.2 - 61.3 - quartz stringer, 3 - 5% tourmaline, trace pyrrhotite										
		- 61.4 - 61.6 - quartz stringer										
		<ul> <li>- 62.0 - 62.3 - quartz stringer with trace pyrite, trace pyrrhotite</li> </ul>										
		- 62.5 - 65.0 - banding wispy, irregular, quartz stringers irregular, trace pyrite	6377	tr	62.5	65.1	2,6			<b>&lt;</b> .001		
		<ul> <li>- 75.5 - fracture 55° to core axis across foliation, pyrite coated</li> </ul>	6378	tr	74.7	76.4	1.7			<b>&lt;</b> .001		
		- 78.4 - 80.0 - 0.5 - 1% pyrrhotite on foliation planes	6379	tr	78.2	82.0	3.8			<b>&lt;.</b> 001		ľ
		- 80.0 - 80.3 - quartz vein										
	1		1	1		r 1	1			r 1	ſ	i

UNINGROCES - TOPONTO - 366-116

#### NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_ BL-86-11 \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 3 01 7

SAMPLE ASSAYS FOOTAGE DESCRIPTION FOOTAGE SULPH ND FROM 10 3 ۰. 07 104 01 108 10 TOTAL 1065 FROM - 80.3 - 80.6 - 0.5 - 1% pyrrhotite as stringers and blebs - 80.6 - 81.1 - quartz vein, 2 - 3% pyrrhotite as blobs - 81.1 - 82.3 - 0.5 - 1% pyrrhotite as stringers and blebs 82.0 86.7 4,7 - 82.3 - 83.1 - quartz vein, trace disseminated 6380 l tr .002 pyrrhotite - 83.1 - 83.8 - tuffaceous sediment, trace to 0.5% pyrrhotite as blebs, 30% quarts stringers, banding contorted - 83.8 - 85.4 - guartz vein, trace to 0.5% pyrrhotite as blebs at edges of vein - 85.4 - 85.7 - contorted banding, 2 - 3% pyrrhotite as stringers and blebs (.001 86.7 88.0 1.3 -85.7 - 86.0 - guartz vein, trace to 0.57 pyrrhotite as <math>5381 tr blebs at edges of vein - 86.0 - 86.2 - trace to 0.5% pyrrhotite stringers and blebs - 86.2 - 86.5 - guartz vein, 30 - 40% biotite, 10 - 15% chlorite, 1 - 2% pyrrhotite - 86.5 - 88.1 - trace to 0.5% pyrrhotite on foliation planes 6382 tr 88.0 **<**.001 90.0 - 88.1 - 89.3 - contorted banding, trace to 0.5% 2.0 pyrrhotite 6383 tr . 92.5 93.4 0.9 **<.001** - 93.0 - quartz vein, banding around vein contorted.

NAME OF PROPERTY ....

HOLE NO. BL-86-11

BEN LAKE

SHEET NO. 4 OF 7

F007	TAGE				\$AMPL	. E		<b>I</b>		ASSAYS		
	70	DESCRIPTION	NO.	SULPH		FOOTAGE		<u> </u>	<u> </u>		(1. 1. m.	
				1065	FROM	10	TOTAL	<u>``</u>	<u> </u>			
94.5	103.3	INTERMEDIATE INTRUSIVE - medium grey; coarse grained, porphyritic, foliation defined by biotite 55° to core axis, well carbonatized. Carbonate releases fetid odor when acid applied.	6384	tr	94.5	98.3	3.8			<b>&lt;.</b> 001		I
		Average Modes										
		Quartz 30 - 40X Feldspar 30 - 40X Biotite 10 - 20X Carbonate 3 - 5X Pyrite crace disseminated										
103.3	106.2	TUFFACEOUS SEDIMENT - as 6.0 - 29.4; trace disseminated pyrrhotite, foliation varies from 60° to core axis to parallel to core axis, moderately contorted.	6385	tr	103.3	106.2	2.9			<.001		
106.2	130.8	INTERMEDIATE INTRUSIVE - as 94.5 - 103.3										
		- 109.0 - 110.3 - foliation parallel to core axis in zone 1/2" wide-shear zone (?)	6386	5	108.3	110.8	2.5			<.001		
		- 110.3 - fracture $25^{\circ}$ to core axis with 3 - 5% pyrite.										
130.8	164.4	TUFFACEOUS SEDIMENT - 85 6.0 - 29.4										
		- 133.4 - 133.5 - quartz stringer with superimposed fracture at 38° to core axis. Pyrrhotite smears on fracture	6387	tr	132.8	134.0	1.2			<.001		
		<ul> <li>140.1 - 144.2 - quartz-feldspar porphyry, 2 - 3 mm quartz phenocrysts, trace pyrrhotite. 50% of section is quartz-feldspar porphyry, 50% is tuffaceous sediment. Contact between lithologies is irregular, runs length of section sub-parallel to core axis</li> </ul>	6388	-	140.1	144.1	4.1			<b>&lt;</b> .001		
		- 150.2 - 153.0 - trace - 1% pyrrhotite as fine stringers and blebs on foliation planes	6389	1	150.3	153.0	2.7			<b>&lt;.</b> 001		

- 150.2 - 153.0 - trace - 1% pyrrhotite as fine stringers 6389 1 150.3 153.0 2.7 and blebs on foliation planes **<**.001

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NAME OF PROPERTY\_\_\_\_\_BEN LAKE

2

194.6

6399

198.3

3.7

(.001

HOLE NO. BL-86-11 SHEET NO 5 of 7 SAMPLE ASSAYS FOOTAGE DESCRIPTION SULPHI FOOTAGE NO. FROM 10 ٦. ٩. 01 10w ...... 1065 FROM 10 TOTAL - 157.1 - 159.5 - intermediate intrusive as 94.5 - 103.3. 6390 tr 157,1 159.5 2.4 (.001 fine to medium grained, trace disseminated pyrrhotite -159.5 - 160.6 - 0.5 - 17 pyrrhotite disseminated on 6391 1 159.5 160.6 1.1 (.001 foliation planes - 160.6 - 164.4 - intermediate intrusive as 94.5 - 103.3 5392 -160.6 164.4 3.8 (.001 164.4 198.3 MAPIC TO INTERMEDIATE TUFF - me 'ium grey; fine grained, moderately well banded, schistose, banding and foliation 52° to core axis. Trace pyrrhotite on foliation planes. Irregular 1/4" quartz veins at any angle to core axis common. . Average Modes Biotite 40 50% . Ouartz 20 307 · Feldspar 10 201 10 207 Chlorite - 175.7 - 176.3 - quartz vein, 1 - 2% pyrrhotite as 6393 -172.4 175.d 2.6 6.001 coarse bleba 6394 1 175.0 177.2 2.2 (.001 - 176.5 - 176.7 - guartz vein 186.3 5395 | tr 184.2 - 184.2 - 186.3 - intermediate intrusive 2.1 (.001 Average Modes 50% Amphiholes 40 Chlorite 20 302 5 107 Quartz 5 107 Feldepar 6396 186.3 189.7 3.4 Pyrite trace disseminated -**<.001** 189.7 - 187.7 - 191.9 - intermediate intrusive as 184.2 - 186.3 \$397 2 191.9 2.2 (.001 1 - 2% disseminated pyrite in coarse blebs 6398 2 191.9 194.6 **〈.**001 2,7

- 191.9 - 198.3 - 1 - 2% disseminated pyrite.

NAME OF PROPERTY BEN LAKE

HOLE NO. \_\_\_\_BL-86-11\_\_\_ SHEET NO 6 of 7 SAMPLE ASSAYS FOOTAGE DESCRIPTION FOOTAGE TS BULPH NO. FROM 10 02 104 01 10a ٦. ٩. FROM TOTAL 1021 10 1 198.3 202.5 <.001 MAFIC TUFF - medium green-grey; fine grained, well banded, banding 6400 4.2 198.3 206.0 and foliation 45° to core axis. 1 202.5 K.001 6401 206.0 3.5 Average Modes 50% Biotite 40 Chlorite 30 40Z 5 10% Ouartz 5 107 Feldspar 2 37 Garnets 0.5 17 Pyrite Garnets 2 - 3 mm, subhedral, pink. Pyrite disseminated, as blebs on foliation planes. - 205.2 - 205.5 - guartz vein, 1 - 2% pyrite as blebs. FELSIC TUFF - medium grey; foliated 45° to core axis, phenocrysts 206.0 212.5 1 - 2 mm, 5 - 10%, quarte; moderate carbonatization on foliation planes. Average Modes 60 70% Quartz 20 307 Feldspar Biotite 5 107 **(.001** - 206.0 - 207.0 - leaching, chloritization around 6402 -206.0 207.5 1.5 fractures at 15° to core axis, zones 1/4" - 1" wide - TORONTO - 366-1168 6403 5 207.5 209.0 1.5 .001 - 208,2 - 208.5 - 70 - 80% pyrrhotite, trace chalcopyrite, 20 - 30% quartz 6404 209.0 212.5 3.5 **<.**001 - 208.5 - 208.7 - wispy quartz-carbonate stringers -30 - 40Z of section. Chloritic material, possibly · · • mafic tuff, 60 - 70. Ŵ

NAME	OF	PROPERT	VBEN LAKE	

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7 of 7 SHEET NO. FOOTAGE SAMPLE ASSAYS DESCRIPTION FOOTAGE STULPH NO. τo FRON × 07 TON 01 10e ۰. 10(1 FROM TOTAL 10 212.5 250.0 MAFIC FLOW - dark green; fine to medius grained, foliation outlined by acicular amphiboles. Average Hodes 50% Chlorite 40 30 402 Amphiboles 20% Quartz 10 201 Feldspar 10 Pyrite trace seen at 213.8 Arsenopyrite trace Infrequent quartz-carbonate stringers. - 212.5 - 213.1 - 60 - 70% pyrite, 19 - 20% quartz, 6405 50 212.5 213.5 1.0 .021 10 - 20% chlorite **<.**001 6406 tr 213.5 215.2 1.7 -214.4 - 214.7 - quartz vein(.001 6407 221.7 222.8 1.1 tr - 222.4 - pyrite smears on fracture at 50° to core axis 225.3 227.0 <.001 6408 1.7 - 225.5 - 226.7 - 2" wide breccia zone at  $15^{\circ}$  to core axis (.001 6409 227.0 228.8 1.8 . - 227.7 - 228.5 - quartz-feldspar porphyry, typical, trace pyrite 6410 2 228.8 231.0 2.2 .003 - 228.5 - 230.4 - mafic tuff, typical - 230.2 - 230.4 - 5 - 10% pyrrhotite in stringers - 240.7 - 243.5 - amphibolite, typical Waab. (.001 6411 244.4 245.5 1.1 - 244.7 - 245.0 - quartz vein, foliation disturbed • around vein. ۱. **پ** End of Hole. 250.0

NAME U HOLE NO	F PROP	ERTY <u>BEN LAKE</u> -86-12 LENGTH <u>212'</u>	FOOTAGE	DIP	AZMU	THF	FOOTAGE	DIP	AZIMUTH	REMA	NO. <u>01</u>		EET NO. TY.LOG.	
LOCATIO LATITUD ELEVATIO STARTED	N E ON Octob	DEPARTURE AZIMUTHDIP er 28, 1986 FINISHED October 29, 1986	212	- 39_0						LOGGE	D BY	Claim L.Jon	570085	
FOOT	TAGE			1		. انتقال	5 A M I	γι <b>ε</b>	ing yanga ting ang	1		A 5 5 A '	¥ 5	
FROM	10	DESCRIPTION SUPPARY LOG			10 11	E Pil	FROM	FOOTAG	DE TOTAL			01/10N	07/10H	
0	15.0	CASING												
15.0	40.3	GREYWACKE - typ' '.												
40.3	115.6	<u>TUFFACEOUS SEDIMENT</u> ~ dark grey, fine grained, moderately banded.	well											
115.6	143.4	INTERMEDIATE TO FELSIC TUFF - light to medium grey, well t	anded.							1				
		- 118.2 - 119.0 - intermediate intrusive, typical.												
143.4	150.0	INTERMEDIATE TO FELSIC TUFF - brecciated by several quarts	veins.											
150.0	173.2	FELSIC TUFF - medium grey, well banded.								1				
173.2	190.9	MAFIC FLOW - typical.				Ì				1				
190.9	212.0	MAFIC TUFF - typical.		64	40 1	15	191.3	193.	0 1.7			.013		
212.0		End of Hole.												
										{				
						• .						P	Ho	e mi

										BL-	86-12		lof
NAME O	F PROPI	ERTY BEN LAKE	DOTAGE	DIP	AZMUTH	FOOTAGE	DIP A	TUME	mille			LET NO.	
HOLE NO	5. <u>_BL-B</u>	6-12 LENGTH212						{	REMA	RKS			
LOCATIO	м <u></u>	<u>OE_15+005</u>	212'	-39-01		<del> </del>				<u></u>	1- 570		
LATITUD	£ 3	DEPARTURE								L18		690	
ELEVATI	ON	AZIMUTH335° DIP45°									1 1		
STARTEO	Octobe	r 28, 1986 FINISHED October 29, 1986		Lean Annual				المسبي	LOGGE	D BY	L.Jon		
FOOT	TAGE			T		SAMI	Ριε		ł	A.	5 5 A 1	Y S	
50011		DESCRIPTION			1.3		FOOTAGE		∦	· · · · ·			
FROM				N	· SULF	FROM	TO	TOTAL			OZ/TON	02/100	
0	15.0	CASING											
15.0	40.3	<u>GREYWACKE</u> - medium grey-green; fine to medium grained, foli 45° to core axis. Gradational contact at 40.3.	ated	at									
		Average Hodes											
		Amphiboles 30 - 407											
		Chlorite 20 - 30X Foldance 20 - 30X				1	Į	]					1
		Quartz 10 - 20%						ļ					į
		Amphiboles predominantly tremolite-actinolite.											
,		- 32.4 - fracture 48° to core axis across foliati pyrite on fracture	on,	64)	2 tr	32.0	33.1	1.1			<b>(</b> .001		
		- 36.7 - 37.0 - quartz vein		641	13 -	36.3	37.3	1.0			<b>&lt;.</b> 001		
		- 39.2 - 40.3 - trace - 0.5% pyrite on foliation	plane	. 641	14 tr	39.2	40.3	1.1			(.001		l
40.3	115.6	<u>TUPPACEOUS SEDIMENT</u> - dark grey; fine grained, moderately w banded. Banding and foliation $50^{\circ}$ to core axis. Trace pyr trace pyrrhotite on foliation planes. Occasionally spotted pink garnets less than 1 mm, subhedral to euhedral.	ell ite, vith										
		Average Hodes											ļ
		Biotite 30 - 407			· · .	1							
{ }		Amph1boles 20 - 302 Ouests 10 - 207				}							
: 1	1	Feldspar 10 - 201				1						ł	1
				1			1						

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FOOT	AGE				\$AMPL	. E		[	 ASSAYS		
FROM	70	DESCRIPTION	ND.	1 SULAN	FROM	TOOTAGE	TOTAL	、	01 TO#	62 TON	
		Chert 10 - 20X Chlorite 5 - 10X Garneta trace									
		- 40.3 - 42.0 - trace to 0.5% pyrite on foliation planes	6415	tr	40.3	42.7	2.4		<b>&lt;</b> .001		
		- 48.5 - fracture at 45° to core axis, parallel to foliation, trace pyrite, some gouge material present	6416	tr	47.7	50.7	3.0		< .001		
		- 53.5 - 56.3 - banding contorted, disturbed, trace pyrite on foliation planes	6417	-	50,7	53.5	2.8		<b>&lt;.</b> 001		
		-59.2 - 60.6 - an 53.5 - 56.3 - trace pyrrhotite on foliation	6418	tr	\$3.5	57.0	3,5	]	<b>〈</b> .001	ĺ	
		planes	6419	tr	57.0	60.6	3.6		<b>〈</b> .001		•
		- 62.0 - 66.5 - banding contorted, disturbed, trace pyrrhotite on foliation planes	6420	tr	.60.6	62,0	1.4		<b>〈</b> .001		
		68.4 - 70.8 - banding contorted, disturbed, trace pyrrhotite on foliation planes	6421 6422	tr tr	62.0 67.0	67.0 70. <b>8</b>	5.0 3.8		<.001 <.001		
		- 77.0 - 86.0 - banding contorted, disturbed	6423 6424	-	77.0 82.0	82.0 87.0	5.0 5.0		<.001 <.001		
		- 85.1 - 85.3 - quartz vein	6425 6426	tr tr	87.0 92.0	92.0 97.0	5.0 5.0		(.001 (.001		
		- 87.5 - 89.0 - trace - 0.5% pyrrhotite	6427 6428	tr tr	97.0 102.0	102.0 107.0	5.0 5.0		(.001 (.001		
		- 97.0 - 115.6 - trace - 0.5% pyrhotite, trace to 0.5% pyrite on foliation planes	6429 6230	tr tr	107.0	111.9	4.9 4.7		.001		
115.6	143.4	INTERMEDIATE TO FELSIC TUFF - light to medium grey; well banded, banding and foliation 68° to core axis.									
		Average Modes	•								
•		Quartz 40 - 50% Biotite 10 - 20% Chlorite 10 - 20% Amphibolea 5 - 10%		•••							

NAME OF PROPERTY\_\_\_\_\_BEN LAKE

HOLE NO. \_\_\_\_\_\_\_ BL-86-12\_\_\_\_\_\_ SHEET NO \_\_\_\_\_ 2 of 4

#### NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_ BL-86-12 \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 3 of 4

F00	TAGE		1		SAMPL	. E			ASSAYS		
FROM	10	DESCRIPTION	ND.	T BULPH	FROM	TOOTACE	TOTAL	1	02 104	07 104	
		Pyrite trace - 0.5% Pyrrhotite trace - 0.5% Pyrite and pyrrhotite disseminated on foliation planes.									
		- 118.2 - 119.0 - intermediate intrusive, medium grey- green, fine grained									
		Average Modes									
		Quartz 30 - 40% Biotite 20 - 30% Chlorite 10 - 20% Amphiboles 10 - 20%									•
		- 121.3 - 122.4 - intermediate intrusive as 118.2 - 119.0									
		<ul> <li>- 128.4 - 128.7 - quartz vein, trace pyrrhotite, trace pyrite, 30 - 40% chlorite</li> <li>- 134.5 - 136.0 - quartz stringer 1/4" wide, sub-parallel to core axis, trace pyrrhotite, trace pyrite</li> </ul>	6431 6432 6433 6434 6434	tr tr tr tr	128.0 129.4 133.0 136.0 137.3	129.4 133.0 136.0 137.3 138.5	1.4 3.6 3.0 1.3 1.2		<pre>&lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001 &lt;.001</pre>		
		- 130.0 - 143.4 - composition gets more felsic, less mafic closer to contact.									
143.4	150.0	INTERMEDIATE TO FELSIC TUFF - as 115.6 - 143.4; brecciated by several quartz veins, notably 143.4 - 144.5; 146.5 - 148.0. 0.5 - 1% pyrrhotite.	6436 6437	1 1	143.4 145.5	145.5 150.0	2.1 4.5		.001 .001		
150.0	173.2	FELSIC TUFF - medium grey; well banded, banding and foliation 55° to core axis.									
		Average Modes	.								
•		Feldspar 30 - 40X Quartz 20 - 30X Biotite 20 - 30X Amphiboles 5 - 10X Pyrhotite trace, disseminated on foliation planar.	6438 6439	• . 	150.0 163.0	153.2 167.0	3.2 4.0		<.001 <.001		

LANGROCES - TORONTO - 366-1169

#### NAME OF PROPERTY\_\_\_\_\_\_BEN\_LAKE\_\_\_\_\_

HOLE NO. \_\_\_\_\_\_ BL-86-12\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 4 of 4

F001	AGE				SAMPI	. 2				ASSAYS		
FROM	to	DESCRIPTION	ND.	SULPH IDES	FROM	FOOTAGE	TOTAL	``	•	01 700	02 100	
173.2	190.9	- 158.8 - 162.0 - intermediate intrusive as 118.2 - 119.0. <u>MAFIC FLOW</u> - typical										
190.0	212.0	- 185.0 - 190.9 - becomes somewhat tuffaceous. MAFIC TUFF - medium green-grey; well banded, banding and foliation										
		60° to core axis, moderately well carbonatized.         Average Modes         Feldspar       30       -       407         Chlorite       20       -       302         Biotite       20       -       302         Quartz       10       -       203         Amphiboles       10       -       203         -       191.3 - 193.0 - 5 - 10% pyrrhotite, 3 - 5% pyrite as coarse stringers and blebs       -         -       193.0 - 195.0 - mafic tuff; typical       -         -       195.0 - 196.6 - intermediate intrusive; as 118.2 - 119.0       -         -       199.0 - chloritic stringer, bleached 3" each side of stringer       -         -       202.5 - 202.8 - quartz vein, 0.5 - 1% pyrrhotite as blebs       -         -       202.8 - 204.5 - quartz vein       -       205.5 - 206.0 - quartz vein         -       205.5 - 206.0 - quartz vein       -       2% quartz veins with 1 - 2%	6440 6441 6442 6443 6444 6445 6446 6448	15 	191.3 193.0 195.0 196.6 198.8 202.1 204.5 207.0 209.0	193.0 195.0 196.6 198.8 202.1 204.5 207.0 209.0 212.0	1.7 2.0 1.6 2.2 3.3 2.4 2.5 2.0 3.0			.013 .002 <.001 <.001 <.001 <.001 <.001 <.001	) The	1 m
212.0		pyrrhotite as blebs. End of hole.							ť	/*		

NAME O HOLE N LOCATIO LATITUD ELEVATI STARTED	DF PROP 0B 0L 0 0 0 0. <u>Octob</u>	ERTY EEN LAKE FOOTAGE L=86-13 LENGTH317' 12E DEPARTURE AZIMUTH335° DIP60° ERT 29, 1986 FINISHEDOCLOBER 30, 1986	DIP	A2 IMUTH	FOOTAGE	01P		HOLE REMA LOGGE	NO. <u>BL-</u> RKS D BY	Summan Summan Claim L.Jone	еет но, 1 <u>ry 1/08</u> 570085 рв	<u></u>
FOO	TAGE	DESCRIPTION			5 A M	PLE			,	5 5 A 1	( <b>S</b>	
FROIA	то	SUNMARY LOG	N	0. VULP	FROM	F00TA	GE TOTAL		÷	07/10N	0Z/10H	
0	12.0	CASING										
12.0	44.2	<u>GREYWACKE</u> - typical.										
44.2	46.5	INTERMEDIATE INTRUSIVE - fine grained, dark grey.										
46.5	92.4	MAFIC FLOW - typical.										
92.4	112.7	MAFIC TUFF - typical.										
112.7	118.2	FELSIC LAPILLI TUFF - matrix dark grey, fine grained, trace disseminated arsenopyrite.										
118.2	120.8	MAFIC TUFF - typical.				1						
120.8	127.8	FELSIC LAPILLI TUFF - as 112.7 - 118.2.				İ						
127.8	144.3	MAFIC TUFF - typical.										
144.3	151.2	MAFIC FLOW - typical.										
151.2	153,9	MAFIC FLOW - medium green, fine grained, poorly developed banding.										
153.9	186.6	<u>GREYWACKE</u> - typical.										
186.6	248.9	INTERMEDIATE TUFF - typical.										
248.9	252.2	MAFIC FLOW - typical.										
252.2	253.0	INTERMEDIATE TUFF - typical.			1							
253.0	254.2	MAFIC FLOW - typical.										ļ
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#### NAME OF PROPERTY\_\_\_\_\_BEN LAKE

SHEET NO 2 of 2

F00'	TAGE		SAMPLE					ASSAYS				
FROM	70	DESCRIPTION	NL.	SULPH JOES	7804	1007AGE	TOTAL	``	•	07 TON	62 10N	
254.2	257.3	GREYWACKE - typical.										
257.3	260.0	MAFIC FLOW - typical.										
260.0	262.6	INTERMEDIATE INTRUSIVE - as 44.2 - 46.2.										
262.6	267.0	HAFIC TUFF - typical.										
267.0	280.7	INTERMEDIATE TUFF - typical.										
280.7	289.2	MAFIC TUFF - typical.	ļ									
289.2	296.2	INTERMEDIATE TUFF - typical.						•				
296.2	317.0	<u>GREYWACKE</u> - typicsl.										
317.0		End of Hole.			•							
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										$\lambda \parallel$		Υĵ/Ĵ
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NAME OF PRO HOLE NO LOCATION LATITUDE ELEVATION STARTED OCTOR	DEN LAKE          86-13         LENGTH         317'           2E         15+31S	F00TAGE	DIP -53.7	AZIMUTH	FOOTAGE	DIP	N2 IK1UTH	HOLE REMA LOGGE	NO. <u>BL-1</u> RKS Clai	<u>36-13</u> s. lm 5700	R5	<u> </u>													
ELEVATION ELEVATION ETARTED OCTO F 0 0 T A G E FROM TO 0 12.0 12.0 44.2	DEPARTOREAZIMUTH335°DIP $-60°$ er 29, 1986FINISHED OCTOBER 30, 1986OESCRIPTIONCASINGGREYWACKE - dark grey; poorly banded, foliated 40° to corAverage ModesQuartz20OESCRIPTIONChlorite20OIDChlorite20OID <tr <td=""><tr< td=""><td>e axis. on 5%</td><td>N 64 64 64 64</td><td>6. 10 m 6. 10 m</td><td>5 A M 0 FROM 18.2 29.6 31.0 34.5 41.9</td><td>21.5 31.0 32.2 37.0 42.8</td><td>YOTAL           3.2           1.4           1.2           2.5           0.9</td><td></td><td>D BY</td><td>L.Jone 5 5 A ( 02/10N (.001 (.001 (.001 (.001 (.001</td><td>S</td><td></td></tr<></tr> <tr><td>44.2 46.5</td><td><u>INTERMEDIATE INTRUSIVE</u> - dark grey; fine grained, weakly carbonatized. <u>Average Modes</u> Chlorite 30 - 407</td><td></td><td></td><td>1.</td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>	e axis. on 5%	N 64 64 64 64	6. 10 m 6. 10 m	5 A M 0 FROM 18.2 29.6 31.0 34.5 41.9	21.5 31.0 32.2 37.0 42.8	YOTAL           3.2           1.4           1.2           2.5           0.9		D BY	L.Jone 5 5 A ( 02/10N (.001 (.001 (.001 (.001 (.001	S		44.2 46.5	<u>INTERMEDIATE INTRUSIVE</u> - dark grey; fine grained, weakly carbonatized. <u>Average Modes</u> Chlorite 30 - 407			1.	•							
e axis. on 5%	N 64 64 64 64	6. 10 m 6. 10 m	5 A M 0 FROM 18.2 29.6 31.0 34.5 41.9	21.5 31.0 32.2 37.0 42.8	YOTAL           3.2           1.4           1.2           2.5           0.9		D BY	L.Jone 5 5 A ( 02/10N (.001 (.001 (.001 (.001 (.001	S																
44.2 46.5	<u>INTERMEDIATE INTRUSIVE</u> - dark grey; fine grained, weakly carbonatized. <u>Average Modes</u> Chlorite 30 - 407			1.	•																				

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NAME OF PROPERTY\_\_\_\_\_BEN LAKE

e State outer

HOLE NO. \_\_\_\_\_\_\_ SHEET NO \_\_\_\_\_ 2 of 8 \_\_\_\_\_

g Anna Athan anna

F001	TAGE		SAMPLE					SAMPLE				ASSAYS				
FROM	tO	DESCRIPTION	NO	SULPH IDES	FROM	FOOTAGE	TOTAL	,	•	02 10#	02 104					
		Feldspar 20 - 30X Quartz 10 - 20X Amphiboles 10 - 20X Biotite 5 - 10X														
46.5	92.4	MAFIC FLOW - dark green; finc grained, foliated 45° to core axis, quartz-carbonate stringers abundant, occasional biotite rich bands. Pyrite and pyrrhotite are trace, disseminated.														
		- 58.8 - 59.2 - chert band, blue-grey, fine grained	6454	-	58.4	59.6	1.2			<.001						
		- 67.2 - 67.7 - quartz veins, 0.5 - 1% pyrite in mafic flow 3" each side of vein	6455	1	68.3	70.2	1.9			<b>&lt;</b> .001						
		- 77.7 - 79.7 - Mafic Tuff, typical, 0.5 - 12 disseminated pyrrhotite	6456	1	77.7	79.8	2.1			.001						
		- 78.2 - 78.3 - quartz vein														
		- 79.5 - 79.6 - quartz vein														
		- 80.2 - 81.8 - intermediate intrusive as 44.2 - 46.5					ļ.		1							
		- 86.0 - 87.7 - intermediate intrusive as 44.2 - 46.5 except biotite is 10 - 20%, trace disseminated pyrrhotite	6457	tr	86.0	87.7	1.7			<.001						
		- 92.1 - 92.4 - quartz vein, trace pyrrhotite as blebs	645R	tr	91.8	93.0	1.2			<.001						
92.4	112.7	<u>HAFIC TUFF</u> - dark grey-green; fine grained, moderately well banded, weakly to moderately carbonatized.														
		Average Modes														
		Chlorite 30 - 40X Biotite 20 - 30X Quartz 10 - 20X		•	•											
		Feldspar 10 - 20X Amphiboles 10 - 20X Carbonate 2 - 37														

SAMPLE FOOTAGE ASSAYS DESCRIPTION FOOTAGE S SULPU NO. FROM 10 61 TO. ١. N 02 104 1065 7400 10 TOTAL - 102.0 - 103.1 - intermediate intrusive, as 44.2 - 46.5 **〈**.001 - 109.5 - 111.5 - trace disseminated pyrrhotite 6459 tr 109.5 112.0 2.5 <.001 112.7 118.2 6460 tr 112.7 1115.3 2.6 FELSIC LAPILLI TUFF - matrix dark grey, fine grained; clasts medium grey, 2 by 3 mm to 40 by 40 mm, 4 by 20 mm most common size. 6461 tr 115.3 118.2 2.9 <.001 Average Modes 70% 60 Quartz 10 20% Feldspar 207 Biotite 10 Grunerite 5 107 as a minor component of the clasts Pyrite disseminated trace Arsenopyrite trace, disseminated, very fine grained - 113.7; 115.1 - fractures at 45° to core axis, pyrite coated 118.2 120.8 MAFIC TUFF - dark green-brown; fine grained, worly banded, quartz-feldspar-chlorite bands alternate with biotite rich bands. Contacts between bands are wispy, irregular; pyrite trace, disseminated. 120.8 127.8 FELSIC LAPILLI TUFF - as 112.7 - 118.2; groundmass is spotted with biotite flakes. - 121.6 - 121.9 - mafic tuff, as 118.2 - 120.8 6462 tr | 123.8 | 127.8 <.001 4.0 - 124.5 - pyrite smears on fracture at  $52^{\circ}$  to core axis - 125.3 - pyrite coated fracture at  $60^{\circ}$  to core axis. 127.8 144.3 MAFIC TUFF - as 118.2 - 120.8 - 127.8 - 128.7 - 25 - 30% pyrite at stringers and blebs [6463] 30 | 127.8 | 128.7 0.9 . 103 128.7 130.7 <.001 - 130,5 - 130.7 - quartz vein with 2 - 37 disseminated 6464 2.0 3 pyrite

NAME OF PROPERTY\_\_\_\_\_BEN LAKE HOLE NO.\_\_\_\_BL-86-13\_\_\_\_\_SHEFT NO.\_\_\_\_3 OF 8

NAME OF PROPERTY\_\_\_\_\_BEN 1.AKE

HOLE NO. \_\_\_\_\_\_ BL-86-13\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 4 of 8

F001	AGE		SAMPLE					ASSAYS				
FROM	10		NO	L SULPH	FROM	7007AGE	TOTAL	''	•	02 104	62 104	
		~ 130.7 - 132.7 - 30 - 35% pyrite as stringers and blebs 2 - 3% disseminated pyrrhotite	6465	38	130.7	132.7	2.0			.003		
		- 132.7 - 141.0 - trace to 0.5% pyrrhotite	6466	0.5	132.7	136.5	3.8			.001		1
		- 136.9 - 137.1 - quartz vein	6467	tr	136.5	138.0	1.5			<b>&lt;</b> .001		
		- 138.8 - 138.9 - quartz vein	6468	tr	138.0	142.0	4.0			<b>{</b> .001		
		<ul> <li>- 140.2 - 140.7 - pyrite coated fractures at 10° to core axis.</li> </ul>										ĺ
144.3	151.2	HAFIC FLOW - medium green-grey; fine grained, foliation 45° to	6469	tr	144.3	147.0	2.7			<b>{</b> .001		
		core axis, indistinct stilling in several zones, which are also brecciated, carbonatized, in wispy contact with rest of zone. Silicification zones are approximately 50% of section. Fractures consistently 70° to core axis across foliation. Trace pyrite on fractures.	6470	tr	147.0	151.2	4.2			<.001		
151.2	153.9	MAFIC FLOW ~ medium green; fine grained, foliated 30° to core axis, poorly developed banding, thin biotite stringers associated with quartz stringers, well carbonatized.										
		Average Modes										
		Amphiboles       30       -       407         Chlorite       20       -       307         Biotite       10       -       207         Quartz       10       -       207         Feldspart       10       -       207         Carbonate       2       -       37										
153.9	186.6	GREYWACKE - medium grey-green; fine to medium grained, foliated 40° to core axis.										
		Average Modes										
		Amphiboles 30 - 40% Chlorite 20 - 30%		i i								

NAME OF PROPERTYBEN LAK	E		
HOLE NO	SHEET NO	<u>5 of</u>	<u>B</u>

FOOTAGE SAMPLE ASSAYS DESCRIPTION FOOTAGE S SULPH NO. FROM τO 02 TOB 62 104 ۰. ٩. 1065 FAOM 10 TOTAL 301 20 Feldspar Biotite 10 207 Quartz 10 20% Carbonate 2 37 Pyrrhotite trace disseminated - 153.9 - 172.0 - pyrrhotite, trace to 0.5% disseminated - 163.2 - 165.0 - pyrrhotite 0.5 - 1% as blebs - 163.3 - fracture  $30^{\circ}$  to core axis, pyrite coated 6471 1 163.0 165.0 <.001 2.0 - 169.5 - 169.6 - quartz-carbonate stringer 6472 -**<**.001 - 169.8 - 170.0 - quartz-carbonate stringer 168.5 170.5 2.0 - 174.5 - 175.8 - intermediate intrusive as 44.2 - 46.5 - 175.8 - fracture at  $65^{\circ}$  to core axis with coating of pyrite and pyrrhotite ,002 - 184.6 - 184.8 - intermediate intrusive as 44.2 - 46.5 6473 -184.0 1185.4 1.4 - 184.8 - 185.2 - 1/2'' quartz vein at low angle to core axis, cut at one end by intermediate intrusive. 186.6 248.9 INTERMEDIATE TUFF - medium grey; poorly to moderately well banded, foliation and banding 50° to core axis. Average Hodes 40% Quartz 30 DGES - TORONTO 20 307 Feldspar 20% Biotite 10 201 Amphiboles 10 ' łv 5 107 Chlorite 0.5% Pyrite disseminated trace disseminated Pyrthotite trace

HOLE NO. \_\_\_\_\_\_ 81-86-13 \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 6 of 8 \_\_\_\_\_

F001	AGE	DESCRIPTION			SAMPL	.8				ASSAYS		
FROM	то	DESCRIPTION	NO.	SUL PHI	FROM	1001AGE	10141	`	``	01 10#	61 10N	
		- 196.5 - 197.0 - pylite on fracture sub-parallel to core axis	6474	tr	196.0	197.0	1.0			<.001		
		- 197.5 - 199.0 - 1 - 2% pyrite disseminated on foliation planes	6475	2	197.0	199.5	2.5			€.001		
		- 199.6 - 199.7 - quartz vein, trace to 0.5% pyrite on fractures in vein										
		- 200.1 - 200.2 - quartz vein	6476	tr	199.5	200.7	1.2			.003		
		- 202.3 - 203.1 - pyrite coated fracture parallel to core axis	6477	tr	200.7	203.4	1.7			<b>&lt; .</b> 001		
		- 205.7 - 206.0 - quartz vein	6478	-	205.1	207.0	1.9			<b>&lt;</b> .001		
		- 209.4 - pyrite coated fracture 40° to core axia										
		- 210.8 - 222.0 - trace to 0.5% disseminated pyrrhotite										
		- 218.8 - 218.9 - quartz vein	6479	0.5	218.3	219.4	1.1			<b>&lt;</b> .001		
		- 223.2 - 225.4 - intermediate intrusive as 44.2 - 46.5							1			
		- 232.1 - 233.0 - intermediate intrusive as 44.2 - 46.5										
		- 233.6; 234.5 - pyrite smears on fractures at 65° to core axis	6480	tr	233.1	235.0	1.9			<b>&lt;</b> .001		
		~ 239.8 - pyrite coated fracture 55° to core axis	64 <b>C</b> 1	tr	239.4	240.3	0.9			<.001		
		- 246.5 - 248.9 - approaches mafic tuff in composition.										
248.9	252.2	MAFIC FLOW - typical, trace disseminated pyrite.			<b>v</b>							
252.2	253.0	INTERMEDIATE TUFP - typical										ŀ
253,0	254.2	MAFIC FLOW - typical										

UNICHDGES - TORONTO - 366-1168

FROM

FOOTAGE SAMPLE ASSAYS DESCRIPTION FOOTAGE TR BULPH 10 NO. 01 104 61 10× ٦. ٦. 1085 FROM 10 TOTAL 254.2 257.3 **GREYWACKE** - typical MAFIC FLOW - typical 257.3 260.0 INTERMEDIATE INTRUSIVE - as 44.2 - 46.5. Fractures 20°, 35° and 6482 tr 260.0 262.6 <.001 260.0 262.6 2.6 50° to core axis, pyrite coated. 262.6 267.0 MAFIC TUFF - typical **<**.001 6483 - 264.6 265.6 1.0 - 264.8 - 265.4 - quartz-feldspar porphyry, typical 6484 | tr | 265.6 | 267.0 **<.**001 - 266.2 - pyrite as coarse stringers 1.4 267.0 280.7 INTERMEDIATE TUFF - typical, trace to 0.5% pyrite, trace to 0.5% pyrrhotite. - 268.0 - fractured, broken, pyrite on fracture surfaces \$485 tr 267.0 268.5 1.5 <.001 6486 tr - 269.0 - 269.2 - quartz vein 268.5 269.6 1.1 **<.001** - 271.1 - 272.2 - intermediate intrusive as 44.2 - 46.5.

280.7 289.2 MAFIC TUFF - typical 296.2 289.2 INTERMEDIATE TUFF - typical 6487 tr 293.0 296.2 - 293.0 - 296.2 - disturbed foliation, trace - 0.5% 3.2 .001 pyrrhotite - 295.0 - 295.2 - quartz vein at low angle to core axis, 1 - 2% pyrrhotite in blebs - 295.5 - 295.7 - quartz vein. .

NAME OF PROPERTY\_  BEN LAKE SHEET NO. 7 OF 8

FOOTAGE

 NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

 HOLE NO. \_\_\_\_BL-86-13
 SHEET NO. \_\_\_8.01.8

 SAMPLE
 ASSAYS

 NO. \$BUPN
 FOOTAGE

 NO. \$BUPN
 FOOTAGE

 NO. \$BUPN
 FOOTAGE

 NO. \$BUPN
 FOOTAGE

		DESCRIPTION			r				<b></b>			
RON	10		NO.	IDES	FROM	TOTAGE	101/1	`	<b>`</b>	01 TON	67 TON	
96.2	317.0	GREYWACKE - typical	{									
	1	- 296.2 - 298.5 - several quartz veins, irregular	6488	tr	296.2	298.5	2.3			<.001		
		<ul> <li>- 297.5 - 298.5 - 1" wide quartz vein sub-parallel to core axis. Host rock 5 - 10% disseminated pyrrhotite</li> </ul>				·						
		- 298.5 - 302.5 - 1 - 2% disseminated pyrrhotite	6489	2	298.5	302.5	4.0			<b>&lt;</b> .001		
		- 310.4 - 313.3 - intermediate intrusive as 44.2 - 46.5		].				Ì				
		- 313.3 - 317.0 - trace - 0.5% disseminated pyrrhotite.	6490	0.5	313.3	317.0	3.7			,001		
7.0		End of Hole.										
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NAME OF	PROPERTY _	BEN LAK	E			
HOLE NO.	_BL		GTH	260.8'		
LOCATION	170E 8+0	05				
LATITUDE			ARTURE			
ELEVATION			итн	<u>335°</u>	_ DIP	-45°
STARTED	October 31.	1986	5HED	November 1.	1986	

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZIMUTH
259'	-38.0				

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#### HOLE NO BL-86-14 SHEET NO. 1 of 1

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REMARKS Summary Log

Claim 570072

LOGGED BY L.Jones

FOOTAGE			SAMPLE					A 5 5 A Y 5				
FROM	70	SIDDIARY LOG	NO.	SUESI	FROM	TO	TOTAL	<.		02/10N	NOT/10H	
0	17.0	CASING										
17.0	52.0	MAFIC FLOW - typical.										
52.0	59.3	MAFIC TUFF - typical.										
59.3	240.9	MAFIC FLOW - typical.										
		- 236.7 - 236.8 - quartz-carbonate vein with 3~57 tourmaline.										
240.9	250.7	AMPHIBOLITE - typical.										
250.7	260.8	MAFIC FLOW - typical.										
260.8		End of Hole.										
											17/	Mum
				' .						$\mathcal{A}$	M/M	
							,			P		
}							1		Ì	1		ļ
NAME O	F PROPI	FRTY BEN LAKE FOOTAGE	DIP A	ZIMUTH	FOOTAGE	DIP A	ZIMUTH	HOLE	NO. <u>BL-8</u> RKS	36-14 54	EET NO.	1 01 4
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LOCATIO	N	0E	-38.09									
LATITUD	ε	DEPARTURE	<b>├</b>  -						Clai	lm 57001	72	
ELEVATI	ON	AZIMUTHDIP	╏───┼╴						n ny	L.Jone	25	
STARTED	o Octobe	<u>r 31, 1986</u> FINISHED <u>November 1, 1986</u>	l		[],			LOCOF				
FOO	TAGE				SAMF	° L <b>E</b>			٨	5 5 A 1	5	
FROM	то	DESCRIPTION	NO	. SULP	FROM	FOOTAGE	TOTAL	V,	5	07/10N	02/10H	
0	17.0	CASING										
17.0	52.0	MAFIC FLOW - typical, quartz-carbonate stringers common.										
		- 39.7 - 40.1 - silicified, carbonatized	649	1 -	39.3	40.3	1.0			001. ٢	1	
		- 47.0 - 47.2 - quartz-carbonate stringer	649	2 -	46.5	47.7	1.2			(.001		
52.0	59.3	MAFIC TUFF - dark green; fine grained, moderately well banded, foliation and banding 60° to core axis.				•						
		Average Hodes										
		Chlorite 30 - 40%							•			
		Biotite 20 - 30X Amphiboles 20 - 30Z										
		Quartz 10 - 20%				į –						1
		Feldspar 10 - 20%										
		Banding generally fine, 2 - 3 mm biotite-rich bands alternating with chloritic bands.										
		<ul> <li>- 52.9 - 53.0 - quartz-carbonate vein 60° to core axia boudinaged, banding disturbed at boudin contact, clear quartz at boudin contact</li> </ul>	, 649	3 -	52.4	53.3	0.9			<.001		
		- 56.3 - small boudinaged quartz vein, banding disturb at boudin contact.	ed 649	· -	55.9	57.0	1.1			.001		
59.3	240.9	MAFIC FLOW - typical.	1		<u>ן</u>							
		- 62.7 - trace pyrite and pyrrhotite associated with 1/2" quartz-carbonate vein.	649	5 tr	62.1	63.1	1.0			(.001		

NAME OF PROPERTY\_

BEN LAKE

SHEET NO. \_\_\_\_ 2 OF 4 SAMPLE ASSAYS FOOTAGE DESCRIPTION FOOTAGE 2 BULPH NO. FROM 10 02 TO4 02 10m TOTAL ۰. ۰. 1005 FROM 10 - 75.5 - 76.3 - trace disseminated pyrrhotite - 81.6 - 81.9 - quartz-carbonate vein, sub-parallel to 6496 core axis -81.2 82.5 1.3 6.001 - 86.3 - 86.5 - quartz-carbonate etringer 6497 85.9 87.0 1.1 (.001 -- 87.5 - 87.6 - quartz-carbonate vein 6498 87.0 87.9 0,9 **<.001** -- 94.2 - 94.4 - quartz-carbonate vein 6499 93.8 94.8 **(.001** 1.0 . - 105.1 - 105.6 - brecciated by guartz-carbonate stringers - 105.6 - 106.1 - biotite bands, trace - 0.5% disseminated pyrrhotite - 106.1 - 106.6 - hrecciated by guartz-carbonate 6500 tr 104.7 107.0 2.3 (.001 stringers - 107.6 - 108.2 - 50% guartz-carbonate stringers 16101 107.0 108.9 1.9 (.001 -- 108.2 - 108.6 - guartz-carbonate vein - 126.2 - 126.3 - quartz-carbonate stringer with epidote 16102 -126.1 128.5 2.4 (.001 -127.4 - 127.6; 128.0 - 128.2 - as 126.2 - 126.3- 130.6 - 130.8 - quartz-carbonate stringers with trace to 0.5% disseminated pyrite in mafic flow h6103 tr 130.3 131.6 - 131.1 - 131.3 - quartz-carbonate vein with epidote 1.3 **<.001** 

. - 134.0 - 134.5 - 50% quartz-carbonate stringers - 134.5 - 135.1 - 0.5 - 1% disseminated coarse pyrite 6104 tr 133.8 135.3 1.5 .007 as blebs - 137.3 - 137.4 - guartz-carbonate vein 136.7 137.7 <.001 1.0 16105

- TORONTO 50

UNISADOES - TORONTO - 366-1168

FOOT	AGE				SAMPL	.t			-	ASSAYS		
FROM	TO	DESCRIPTION	ND.	SULPH		FOOTAGE	10141	,	•	01 104	07 10*	
		- 140.2 - 140.5 - quartz-carbonate vein	16106	-	139.8	141.0	1.2			<b>〈</b> .001		
		- 141.0 - 142.3 - 6 quartz-carbonate veins, 1/4" - 1" wide	n 6107	-	141.0	142.6	1.6			001 >		
		- 155.6 - 155.8 ~ 8 quartz-carbonate veins	16108	-	155.0	156.3	1.3			<b>〈</b> .001		
		- 156.8 - 157.1 - quartz-carbonate vein	16109	-	156.3	157.6	1.3			<b>&lt;</b> .001		
		- 158.3 - 158.5 - quartz-carbonate vein	16110	-	157.6	159.2	1.6			<b>&lt;</b> .001		
		- 158.6 - 158.8 - quartz-carbonate vein	16111	-	168.6	169.9	1.3			<.001		
		- 169.2 - 169.4 - quartz-carbonate vein	16112	-	176.4	177.4	1,0	·		.001		j
		<ul> <li>176.7 - 177.0 - quartz-carbonate vein with <u>epidote</u>, minor hematite staining</li> </ul>	6113	-	179.4	180.5	1.1			<b>&lt;.</b> 001		
		- 179.8 - 180.0 - quartz-carbonate vein										
[		- 195.3 - 195.5 - quartz-carbonate stringers with <u>epidote</u>									1	
		- 195.8 - fracture $35^\circ$ to core axis with pyrite smears	16114	-	194.7	196.2	1.5			<b>&lt;</b> .001		
		- 200.5 - 200.8 - quartz-carbonate stringers with <u>epidote</u>	6115	÷	200.1	201.9	1.8			<b>&lt;</b> .001		
		- 201.3 - 201.5 - quartz-carbonate vein										
		- 205.7 - pyrite coated fracture 45° to core axia	16117	-	205.2	206.2	1.0			(.001		
	•	- 210,0 - 210,4 - quartz vein	6116	-	209.2	210.9	1.7			<.001		
		- 221.4 - 221.7 - quartz-carbonate stringers with <u>epidote</u>	16118	-	220.7	222.9	2.2			<.001		
		- 221.9 - 222.1 - quartz-carbonate stringer	•									
		- 230.2 - 230.4 - quartz-carbonate vein	16119	- ' '	229.8	230.8	1.0			<b>&lt;</b> .001		ł
•		- 236.7 - 236.8 - quartz-carbonate vein with 3 - 57 Lourmaline.	6120	-	236.3	237.3	1.0			<b>&lt;.</b> 001		

### NAME OF PROPERTY\_\_\_\_\_

BEN LAKE

SHEET NO. 4 of 4 HOLE NO. \_\_\_\_\_ BL-86-14 FOOTAGE SAMPLE ASSAYS DESCRIPTION 2 BULPH FOOTAGE NO. FROM 10 01 10w 02-TO# ٩. • FROM TOTAL IPCS 70 240.9 250.7 AMPHIBOLITE - dark green; coarse grained, poorly banded, banding and foliation 45° to core axis. Banding outlined by infrequent biotite-rich bands, and by frequent quartz-carbonate stringers; infrequent chloritic bands with well developed 2 - 3 mm euhedral amphiboles, pyrrhotite trace-0.5% in the chloritic bands. Average Hodes Amphiboles 70% 60 Chlorite 20 30X Biotite 10 15% 5 107 Quartz Feldspar 3 5% Carbonate 21 1 0.5% Pyrrhotite trace disseminated - 248.3 - 248.5 - guartz-carbonate vein. - 249.1 - 249.5 - quartz-carbonate vein. - 250.2 - 250.3 - guartz-carbonate vein. h6121 0.5 247.0 250.7 .001 3.7 250.7 260.8 MAFIC FLOW - typical. - 255.8 - disseminated pyrite on fracture 30° to core axis - 256.0 - pyrite smears on fracture 35° to core axis. h6122 tr. 255.2 257.6 .001 2.4 - 257.0 - pyrite costed fracture 45° to core axis. 260.8 End of Hole. - William

NAME O HOLE NO LOCATIO LATITUD ELEVATI STARTED	F PROP D. <u>BI</u> N <u>L</u> E E <u></u> ON <u></u> <u>Novemb</u>	BEN LAKE         FOOTAGE           -86-15         LENGTH         255'           6E         12+00S         255'	DIP A.	E MUTH	FOOTAGE		ZIMUTH	HOLE REMA LOGGE	NO. <u>B18</u> RKS D BY	<u>Summary</u> Claim : L.Joner	исет но. 1 <u>y Log</u> 570072 в	_of_2
FOOT	TAGE				5 A M P	LE				5 5 A 1	¥ 5	
FROM	то	SUDMARY LOG	NO	SUL PH	FROM	TO	TOTAL	<u>\</u>		02/10N	07/104	
0 47.0 54.2 97.0 101.0	47.0 54.2 97.0 101.0 101.9	<u>CASING</u> <u>MAFIC TO INTERMEDIATE TUFF</u> - typical. <u>GREYWACKE</u> - typical. <u>BANDED IRON FORMATION</u> - medium grained, fine grained, bands tend to be wispy, poorly defined. 2-3% pyrite. <u>GREYWACKE</u> - typical.										
101.9	103.4	BANDED IRON FORMATION - as 97.0 - 101.0.		1		-						
103.4 122.1	122.1 158.2	<u>GREYWACKE</u> - typical. <u>GREYWACKE</u> - medium to dark grey, fine grained, 1-27 disseminated very fine grained magnetite	1613	tr	127.0	129.5	2.5			.026		
158.2	159.1	HAFIC TUFF - typical.		1								
159.1	175.6	QUARTZ-FELDSPAR PORPHYRY - typical.										
175.6	178.3	MAFIC TUFF - typical.										
178.3	179.4	BANDED IRON FORMATION - dark grey, very fine grained, well bande	a.	1								
179.4	1.83,3	MAFIC TUFF - typical.										
183.3	200.0	MAFIC FLOW - typical.		•								
			N N	1		1				1 1	}	

WENDLES - TORONTO - 366-1168

			H	OLE N	s. <u>BL-</u>	86-15		SHI	EET NO.	2_0	2
FOOT	TAGE	DECONDUCU	SAMPLE NO. 154154 FOOTAGE 1055 FROM TO TO							ASSAYS	
FROM	10		NO.	1055	FROM	FOOTAGE TU	TOTAL	•	•	01 100	02 104
200.0	219.1	GREYWACKE - typical.									
219.1	221.3	ARGILLACEOUS SEDIMENT very fine grained, medium to dark grey- brown.									
221.3	255.0	MAFIC TUFF - typical.									
255.0		End of Hole.						Į	ł		
								ŀ			
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			<b>j</b> .								MANON
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	<b> </b>		ļ			1			ł		

BEN LAKE NAME OF PROPERTY .... BL-86-15 

SHEET NO

F PROPE	RTY BEN LAKE	FOOTAGE	DIP	AZIMUTI	FOOTAG	E DIP	AZIMUTH	HOLE	NO. <u>21</u>	<u>00-13</u> S	IEET NO	
0. <u></u>	86-15 LENGTH255'	255'	43.2		1							
N _100	<u>E 12+005</u>				1	1			Cla	im 5700	72	
E					I							
Novembe	T 1 1986 Ruleuro November 2 1986					1		LOGGE	D BY	L.Jo	nes	
TAGE	DESCRIPTION				5 A M	PLE		_		A 5 5 A '	r 5	
70	*****		N	0	FROM	1001	GE TOTAL		<u> </u>	02/104	07/10N	
47.0	CASING											
54.2	MAFIC TO INTERMEDIATE TUFF - medium to dark grey; fine to fine grained, well banded. Banding and foliation 45° to c Very fine grained biotite bands 2 - 10 mm wide alternate w cherty bands.         Average Modes         Biotite       20       -       30%         Quartz       20       -       30%         Amphiboles       15       -       20%         Feldspar       10       -       20%         Chlorite       5       -       10%	very ore axi ith	.6.									
97.0	- 51.0 - 52.0 - trace to 0.52 pyrrhotite. <u>GREYWACKE</u> - medium to dark grey; fine grained, poorly bande Banding and foliation 55° to core axis. Trace disseminated pyrrhotite on foliation planes. <u>Average Modes</u> Chlorite 20 - 302 Quartz 20 - 302 Biotite 10 - 202 Amphiboles 10 - 202 Feldspar 10 202 - 92.0 - 92.3 - broken, fractured, pyrite on frace	ed. j	16]	.24 tr	91.	5 92	.0 1.4			<.001		
	F PROPE DBL= NL66 E Novembe T A G E TO 47.0 54.2 97.0	F PROPERTY	F PROPERTY	F PROPERTY	r PROPERTY	F PROPERTY       BEN LAKE       FORTACE       DEP AZABUTH         0.       BLESG-15       LENGTH       255'       43.22         N       L65E       DEPARTURE       255'       43.22         ON       ATMUTH       315°       DIP       -45°         NOVEMBET 1.       1986       FINISHED       November 2.       1986         A G E       OESCRIPTION       NO.       5 4 4         10       OESCRIPTION       NO.       S 4 4         10       OESCRIPTION       NO.       NO.         47.0       CASING       NO.       NO.         47.0       CASING       NO.       NO.       NO.         47.0       CASING       NO.       NO.       NO.       NO.         47.0       CASING       NO.       NO.       NO.       NO.         47.0       CASING       NO.       NO.       NO.       NO.       NO.         47.0       CASING       NO.       NO.       NO.       NO.       NO.         54.2       MAFIC TO INTERNEDIATE TUFF - medium to dark grey; fine to very fine grained, vell banded.       NO.       NO.       NO.       NO.         Very fine grained, boltite bands 2 - 10 mm wide alternate w	r PROPERTY	PROPERTY       BEN LAKE         . BL-B6-L5       LENGTH       255'         . L65E       L2400S         c       OPARTURE	r PROPERTY	r PROPERTY       BER LAKE       remora 235'       inc. 100 min.       inc. 100 min.	DEPIENT         DEPIENT         Depient <t< td=""><td>BON LAKE       BON LAKE       DESCRIPTION       Conset or Remain footage or Rema</td></t<>	BON LAKE       BON LAKE       DESCRIPTION       Conset or Remain footage or Rema

DLE NO. BL-86-15 SHEET NO. 1 of 5

NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

FO	DTAGE				SAMP	LE			ASSAYS		
FROM	1 10	ULACTIC TION	NO.	2 SULPH		FOOTAGE			02-700	02 104	
				1063			TOTAL	 			
97.0	0 101.0	BANDED IRON FORMATION - medium grey; fine grained, moderately well banded at 50° to core axis. Bands tend to be wispy, poorly defined. Magnetite bands less than 1/2" wide, well carbonatized. Quartz includes chert as well as quartz stringers.	16125	3	97.0	101.0	4.0		.006		
		Average Nodes									
		Quartz       30       -       40%         Amphiboles       20       -       30%         Feldspar       10       -       20%         Magnetite       10       -       15%         Carbonate       3       -       5%         Biotite       3       -       5%         Pyrite       2       -       3%									
		- 99.0 - 100.3 - 2 - 3% pyrite in fine stringers									
		- 99.7 - 100.4 - fracture sub-parallel to core axis.									
101.0	101.9	<u>GREYWACKE</u> - AB 54.2 - 97.0.	1 <b>612</b> 6	tr	101.0	101.9	0.9		001 >		
101.9	103.4	BANDED IRON FORMATION - as 97.0 - 101.0; 1 - 2% pink, anhedral, poikiloblastic garnets.	16127	3	101.9	103.4	1.5		.008		
103.4	122.1	<u>GREYWACKE</u> - as 54.2 - 97.0									
		- 106.8 - 3 - 5% disseminated pyrrhotite in small band	16128	1	106.2	107.2	1.0		<b>&lt;.</b> 001		
		- 110.8 - 1/2" wide band with 2 - 3% disseminated pyrrhotite.	16129	1	110.3	111.3	1,0		<.001		
122.1	158.2	<u>CREYWACKE</u> - as $54.2 - 97.0$ ; except for mild magnetism due to $1 - 2Z$ disseminated, very fine grained, magnetite.	16130 16131	-	122,1	123,5	2.4		<.001		
		- 130.0 - 130.3 - pyrite coat on fracture at 10° to core axis	6132	' tr	127.0	129,5	2.5		.026		
		- 149.2 - 151.0 - mafic intrusive, dark grey, fine grained, moderately well carbonatized	6133 6134 6135	-	129.5 142.1 149.2	130.7 147.0 151.0	1.2 4.9 1.8		.008 .009 (.001		

NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE\_\_\_

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HOLE NO. \_\_\_\_\_\_\_ BL-B6-15\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 3 of 5\_\_\_\_\_

1997 (B

F00	TAGE		SAMPLE ND. SULPH FOOTAGE							ASSAYS		
FRON	TO	DESCRIPTION	NO.	S BULPH		FOOTAGE		· ·		01-104	01 104	
	<u> </u>			101.3	FADM		IDTAL					
		Augus Nadag				}						
		Average Hodes							1			
		Amphiboles 40 - 50%				]	1	]				
		Feldspar 10 - 20%	1						1	1		
	1	Chlorite 5 - 107	1			1		{	{			
	1 1	Biotite 5 - 10%							1			
		Quartz 5 - 10X	1						ł	ł		
		- 156.5 - 158.2 - 1 - 27 disseminated pyrrhotite h'ebs	16136	tr	156.5	158.2	1.7			<.001		
1			1				}	1	}			
158.2	1	<u>HAFIC TUFF</u> - dark grey-green; moderately well banded, banding and Soliation 58° to core axis, moderately well carbonatized.	16137	-	158,2	159.2	1.0		l	.001		
		Average Modes										
		Biotite 20 - 30%	1			}		1				
		Quartz 20 - 30%		ł	•							
	1	Chlorite 10 - 202	1			1			1			
		Amphiboles 10 - 202				1			ĺ			
1		Feldspar 10 - 20X				}			l			
159.1	175.6	OUARTZ-FELDSPAR PORPHYRY - medium grev: foliated 40° to core axis.	16138	tr	159.1	163.8	4.7			<b>د</b> .001		
		phenocrysts 1 - 2 mm 15 - 20% of section, predominantly quartz.	16139	tr	163.8	165.8	2.0			<.001		
		. ,	16140	tr	165.8	167.0	1.2			<.001		
	[ [	Average Modes	26141	tr	167.0	170.3	3.3			<b>&lt;.001</b>		
			µ6142	tr	170.3	173.5	3.2			<.001		
		Quartz 70 - BOZ	<b>E</b> 6143	tr	173.5	174.7	1.2			<.001		
		Peldspar 20 - 302	p 6144	tr	174.7	175.3	0.6			<.001		
8		Blotite 5 - 101	1			) i						
		ryrite trace										1
5		Pyrite disseminated as smears on foliation planes. Moderately										
		carbonatized.	.									
		- 159,1 - 164.0 - phenocryste 3 - 5%		۰ ،	•							
•		- 166.5 - 166.6 - quartz-carbonate vein, trace disseminated pyrite, 1 - 2% <u>epidote</u>					- - -					

NAME OF PROPERTYBEN LAK	E		_
HOLE NO	SHEET NO	4 of 5	<u> </u>

FOOT	TAGE		SAMPLE NO. SUIDA FOOTAGE IDES FROM TO TOTAL				[		ASSAYS			
FROM	10	DESCRIPTION	NO.	SUL PH	FROM	1001ACE	TOTAL	`	۲	02 704	62 TO=	
175 6	178 3	-173.6 - 174.2 - mafic tuff, typical.	6145		175 6	178 3	17			6 001		
	170.5	- 177.9 - 178.3 - quartz-carbonate vein with 0.5 - 1X disseminated pyrrhotite.		•	1,2,0	1,013	•.,					
178.3	179.4	BANDED IRON FORMATION - dark grey; very fine grained, well banded.	6146	tr	178.3	179.4	1.1			<b>&lt;</b> .001		
179.4	183.3	Average Modes         Magnetite       50       -       60%         Chert       20       -       30%         Chlorite       10       -       20%         Amphiboles       5       -       10%         Pyrrhotite       trace       disseminated         MAFIC TUFF       -       dark green-brown; poorly banded, abundant quartz-carbonate stringers, foliated 58° to core axis.         Average Modes       -       40%         Biotite       30       -       40%         Quartz       10       -       20%         Feldspar       10       -       20%         Amphibolés       10       -       15%	16147	tr	179,4	183.3	3.9			<.001	•	
		Pyrite trace disseminated										
183.3	200.0	<u>HAFIC FLOW</u> - typical. Contact at 200.0 gradational from 197.7 - 200.3. Contact zone brecciated, with 1 - 2 cm angular chloritic clasts, separated by quartz-carbonate.									• /	
200.0	219.1	<u>GREYWACKE</u> - typical	·									
•		- 206.5 - 208.5 - 0.5 - 1% pyrrhotite blebs.	6148	-	206.4	208.6	2,0			<b>(.00</b> 1		

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### NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE HOLE NO. \_\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_\_ 5.01 5

FOO	TAGE		SAMPLE NO. SUIPH FOOTAGE							ASSAYS		
FROM	10	DESCRIPTION	NO.	E SUL PH	FROM	FOOTAGE	TOTAL	``	1	07-10#	02 104	
219.1	221.3	ARGILLACEOUS SEDIMENT - gradational contact at 219.1, very fine grained, medium to dark grey-brown, cherty horizons common.	16149	-	219.1	221,3	2,2			<.001		
221.3	255.0	Average Modes         Chert       20       -       30%         Biotite       20       -       30%         Chlorite       20       -       30%         Quartz       10       -       20%         MAFIC TUFF       -       dark green-brown; fine grained, moderately well										
		banded, foliation and banding 60° to core axis.         Average Modes         Biotite       30       -       40%         Chlorite       20       -       30%         Amphiboles       10       -       20%         Quartz       10       -       20%         Feldapar       10       -       20%         -       241.4 - 241.9 - 1/2" wide zone of foliation parallel to core axis. Possible shear.	16150	-	241.0	242.2	1.2			¢.001		
255.0		End of Hole.										7,
				•.						J	Ц¢	aan

NAME OF	PROPERT	· v _	В	EN LAKE			
HOLE NO.	BL-86	-16		LENGTH	296'		
LOCATION	1.60E	8+	005				
LATITUDE				DEPARTURE	<b></b>		
ELEVATION	۱ <u></u>			AZIMUTH	<u>335°</u>	DIP	-45°
STARTEN	November	2	1986	EINIENED	November 3	1086	

	FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
	296'	-40.7°				
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I						

HOLE NO. BL-86-16 SHEET NO. 1 OF 1

REMARKS SUMMARY LOS

Claim 570073

LOGGED BY \_\_\_\_\_ L.Jones

FOOT	TAGE		I		SAMP	L E	****	A 5 5 A Y 5				
FROM	то	SUMMARY LOG	NO.	SUL PH	FROM	FOOTAGE	TOTAL	•	:	02/TON	OZ/TON	
0	77.0	CASING										
77.0	113.8	GREYWACKE - typical.										
113.8	116.4	CHERTY SEDIMENT - light grey, very fine grained.										
116.4	117.8	MAFIC TUFF - typical.										
117.8	121.0	GRAPHITIC SEDIMENT - grey-black, very fine grained, well banded.				·						
121.0	124.4	BANDED IRON FORMATION - medium to dark grey, very fine grained, well banded, trace to 0.5% pyrite.										
124.4	129.5	INTERMEDIATE TUFF - typical.							2			
129.5	145.1	FELSIC TUFF - typical.										
145.1	212.7	<u>GREYWACKE</u> - typical.										
212.7	217.4	INTERMEDIATE INTRUSIVE - dark grey, fine to medium grained.										
217.4	225.4	GREYWACKE - typical.										
225.4	254.6	INTERMEDIATE TUFF - typical.										
254.6	296.0	<u>GRiWiACKE</u> - typical.									, 1 N	Anno
296.0	Ì	End c: Hole,								$\bigcap_{i}$	NA	<i>LA''</i>
	Ì						1			11	1	
i I										/		

NAME OF PROPERTY BEN LAKE	FOOTAGE	DIP	AZIMUTH	FOOTAGE	OIP	AZ IMUTH	но
HOLE NO. <u>BL-86-16</u> LENGTH							RE
LOCATIONLOUE 8+005	296'	-40.7					
LATITUDE DEPARTURE							
ELEVATION AZIMUTH 335° DIP45°							
STARTED November 2, 1986 FINISHED November 3, 1986						·····	
FOOTAGE		T		5 A M	PLE		

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HOLE NO. BL-86-16 SHEET NO. 1 OF 7

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REMARKS \_\_\_\_\_

Claim 570073

OGGED BY \_\_\_\_L.Jones

00	TAGE		SAMPLE				SAMPLE						ASSA	Y S
ROM	10	DESCRIPTION	NO.	SULPH	FROM	FOOTAGE	TOTAL	×	0Z/TON	02/101				
0	77.0 113.8	CASING <u>GREYWACKE</u> - medium to dark green; moderately well banded, quartz- carbonate stringers abundant. <u>Average Modes</u>												
		Chlorite 30 - 402 Amphiboles 20 - 307 Bio.ite 10 - 207 Quartz 10 - 207 Feldspar .0 - 207 Carbonate 1 - 27 Pyrrhotite trace Pyrrhotite concentrated in infrequent bands with chlorite and coarse amphiboles.												
	Ì	- 87.2 - 87.3 - chlorite-amphibole-pyrrhotite band	16151	tr	86.6	87.9	1.3		٢.001					
		~ 90.0 - chlorite-amphibole-pyrrhotite band	16152	tr	89.8	92.5	2.7		٢.001					
		- 91,4 - 91.5 - chlorite-amphibole-pyrrhotite band	16153	tr	94.0	95.2	1.2		<b>&lt;</b> .001					
		- 91.7 - 91.8 - chlorite-amphibole-pyrrhotite band	16154	1	105.0	107.0	2.0		<b>&lt;.001</b>					
		- 92.0 - 92.1 - chlorite-amphibole-pyrrhotite band												
		- 94.4 - 94.5 - chlorite-amphibole-pyrrhotite band		· · •										
		- 105.5 - 106.5 - 0.5 - 1% disseminated pyrrhotite.												

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34 1

NAME OF PROPERTY	BEN LAKE	 	

HOLE NO. \_\_\_\_\_\_\_\_ BL-86-16\_\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 2 of 7

F001	TAGE		SAMPLE			SAMPLE ASS							ASSAYS	ISSAYS		
FRON	70	DESCRIPTION	NO.	E BULPH	FROM	1001468	TOTAL	``	· ·	03 104	01 10m	Γ				
113.8	116.4	CHERTY SEDIMENT - light grey; very fine grained, minor banding at 55° to core axis, broken, fractured.	16155	5	113.8	116.4	2.6			.001						
		Average Modes														
		Chert 70 - 80%									•					
		uniorite 10 - 154	1	l I					1							
		Purite 3 - 57							[							
		Pyrrhotite trace on fractures														
116.4	117.	MAFIC TUFF - dark green-brown; fine grained, well banded, banding, foliation 50° to core axis, fractured, broken. Fractures at 20° to 50° to core axis. Bands 1 - 5 mm wide.	a <b>6 1 5</b> 6	-	116.4	117.8	1.4			.003						
		Average Modes		2.	.											
		· Chlorite 20 - 30X				-										
		Biotite 30 - 402				[										
		Amphiboles 10 - 202	1						1							
		Quartz 10 - 20%				ĺ										
117.8	121.0	<u>GRAPHITIC SEDIMENT</u> - grey-black; very fine grained, well banded, foliation and banding vary from 55° to 35° to core axis, with 55° to core axis at 118.0, and 35° to core axis at 121.0. Bands 1 - 2 mma, graphite, quartz-carbonate, biotite and chlorite.														
		Average Modes														
		Graphite 30 - 40%														
		$\begin{array}{cccc} \text{Biotite} & 10 & - & 207 \\ \text{Oblandta} & 10 & & 207 \\ \end{array}$								ļ						
		UNIOFITE IV - 204 Quarte 15 - 201	.			1										
		Foldenar 5 - 10X				4				1						
		Carbonate 2 - 3X		F ''	<b>7</b> ·											
		Pyrite trace - 0.5% disseminated	p 61 57	0.5	117.8	121.0	3.2			.002						
		- 118.6 - 118.7 - quartz stringer, 1 - 2% pyrite on fractures														

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NAME OF PROPERTY\_\_\_\_\_BEN LAKE

HOLE NO. \_\_\_\_\_\_\_ BL-86-16\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 3 of 7

FOOT	AGE	DESCRIPTION			SAMPL	. E				ASSAYS		
FROM	10	DESCRIPTION	NÖ	3 SULPH IDES	FROM	100 162	TOTAL	``	٦	01 10#	62 10×	
121.0	124.4	BANDED IRON FORMATION - medium to dark grey; very fine grained, well banded, bands very fine $1 - 2 \text{ mm}$ . Banding and foliation $60^{\circ}$ to core axis. Grunerite forms very fine rims on magnetite bands.	16158	0,5	121.0	124.4	3.4			.003		
		Average HodesChert40-507Magnetite20-307Grunerite5-107Chlorite5-107Pyritetrace-0.57										
124.4	129.5	INTERMEDIATE TUFF - medium to dark grey; fine to very fine grained, finely banded at 55° to core axis. Banda 1 - 2 mm wide. <u>Average Modes</u>	16159	-	. 124	129.5	5.1			<.001		
		Quartz 30 - 407 Feldspar 30 - 407 Biotite 5 - 107 Chlorite 5 - 107										
		unit.										
129.5	145.1	FELSIC TUFF - medium to light grey; very fine grained, very finely banded.	16160	tr	129.5	132.9	3.4			<b>(</b> .001		
		Average Hodes	16161	tr	132.9	137.0	4.1			<.001		[
	•	Quartz 40 - 507	16162	tr	137.0	141.0	4.0			<b>く</b> .001		
		reidapar 40 - 50% Biotite 3 - 5% Pyrite trace disseminated Pyrrhotite trace disseminated Amphiboles 3 - 5%		tr ,	141.0 *	145.1	4.1			€,001		
•		Percentages and composition uncertain, due to very fine grained nature of unit.										

NAME OF PROPERTY\_\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_ BL-86-16\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 4 of 7

FOOT	AGE		SAMPLE		ASSAYS							
FROM	to		NO.	S BULPH IDES	FROM	TOTACE	TOTAL	``	`	02 10#	01 10×	
145.1	212.7	<u>GREYWACKE</u> - medium grey; fine grained, banding and foliation $50^{\circ}$ to core axis.	16164	tr	149.0	151.0	2.0			(.001		
		Average Modes	n 6165	tr	151.0	153.0	2.0			<.001		
		Quartz30-40%Biotite20-30%Feldspar20-30%Amphiboles10-20%Chlorite10-20%Pyritetrace-0.5%Dyrrhotitetrace-0.5%	10100	tr	130.0	100.0	1.0			0.001		
		- 168.8 - 168.9 - quartz stringer	16167	tr	168.1	169.2	1.1			<b>&lt;</b> .001		
		- 171.2 - 172.2 - 5 quartz stringers 1/4" - 1 1/2" wide	6168	tr	170.9	172.4	1.5			<b>&lt;</b> .001		
		- 173.5 - 173.8 - 3 quartz stringers 1/2" wide	16169	tr	172.4	175.8	3.4			(.001		
		- 174.4 - 174.5 - quartz stringer, 40 - 50% fine chlorite	16170	tr	177.5	179.0	1.5		:	<.001		
		- 178.1 - 178.2 - quartz stringer	6171	tr	179.0	181.4	2.4			<.001		
		- 179.4 - 180.3 - 5 quartz stringers 1/2" - 1" wide	6172	tr	181.4	183.7	2.3			<.001		
		- 180.6 - 180.8 - quartz stringer	6173	tr	189.4	191.5	2.1			<b>&lt;</b> .001		
		- 182.2 - 182.5 - discontinuous quartz atringers	6174	tr	209.1	210.4	1.3			<.001		
		- 189.7 - 189.8 - quartz stringer	6175	tr	210.4	232.1	1.7			(.001		
		- 190.1 - 190.7 - discontinuous quartz stringers										
		– 209.7 – 209.8 – quartz stringers										
		- 210.8 - 211.8 - foliation parallel to core axis.		•••	<b>∀</b> '							ł
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NAME OF PROPERTY\_\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_\_\_ B1.-86-16 \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_ 5 of 7

F001	TAGE		SAMPLE					ASSAYS				
FROM	70	DESCRIPTION	NO.	SULPH IDES	FROM	FOOTAGE 10	TOTAL	1	``	01 100	61 TON	
212.7	217.4	INTERMEDIATE INTRUSIVE - dark grey; fine to medium grained, disseminated carbonate, moderately well carbonatized, no foliation.	16176	tr	212.7	217.4	4.7			<b>&lt;</b> .001		
217.4	225.4	Average Modes         Feldspar       20       -       30%         Amphiboles       20       -       30%         Quartz       10       -       20%         Biotite       10       -       20%         Chlorite       10       -       20%         Pyrite       trace       -       0.5%         GREYWACKE       -       as       145.1       -         -       219.3       -       quartz       vein         -       222.0       -       222.1       -       quartz       vein, trace disseminated	16177	- tr	218.9 221.5	220.2 222.5	1.3			<.001 <.001		
	254.6	INTERMEDIATE TUFF - dark grey-brown; fine to medium grained, well banded, bands fine, 1 - 2 mm; foliation, banding at 35° to core axis. 3 - 5% 1 - 2 mm quartz phenocrysts. Average Modes Biotite 30 - 40% Quartz 20 - 30% Feldspar 20 - 30% Chlorite 10 - 20% Amphiboles 10 - 20% Pyrite trace finely disseminated - 231.3 - 232.1 - quartz vein, 30 - 40% chlorite - 232.6 - 232.8 - quartz vein, 20 - 30% chlorite - 233.3 - 233.6 - quartz vein - 240.0 - 240.2 - guartz vein	16179		230.9	233.9	3.0			<b>₹.001</b>		

NAME OF PROPERTY\_\_\_\_\_\_BEN\_LAKE

HOLE NO. \_\_\_\_BL-86-16\_\_\_\_\_ SHEET NO.

6 of 7

SAMPLE ASSAYS FOOTAGE DESCRIPTION FOOTAGE & SULPH NO. FRON 10 01 100 01 10. N ٩. 10 IDES FROM TOTAL - 240.5 - foliation  $25^{\circ}$  to core axis 16181 -241.9 243.0 1.1 -242.4 - 242.5 - guartz vein(.001 244.4 16182 -246.0 1.6 -244.8 - 245.0 - quartz vein**(**.001 - 246.3 - 247.7 - 40% quartz stringers, 1/4" - 1" wide 6183 -246.0 248.0 2.0 **(**.001 stringers - 253.7 - 253.8 - quartz vein with trace pyrite as blebs. \$6184 tr [253.2] 254.2 1.0 6.001 GREYWACKE - dark grey-brown; fine grained, foliated 40° to core axis 254.6 296.0 Average Modes Biotite 30 40% 20% Amphiboles 10 Quartz 10 20% 10 20% Feldspar Chlorite 5 107 Garnets trace disseminated Pyrite trace 6185 -258.U 259.0 1.0 ζ.001 - 258.5 - 258.6 - quartz vein 6186 -259.0 261.4 2.4 - 261.4 - 254.4 - partially leached zone, medium grey-**C.001** green, leucocratic areas 2 - 3 mm, wiapy, against 6187 -261.4 262.7 1.3 (.001 melanocratic background: well carbonatized h6188 -262.7 **〈**.001 - 263.1 - 263.2 - shear zone, well foliated, friable, 263.8 1.1 strongly carbonatized 16189 -263.8 267.0 3.2 <.001 - 262,5 - 263.8 - strongly fractured . - 265.3 - 265.4 - quartz vein . - 266,4 - 266,6 - quartz vein

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NAME OF PROPERTY\_\_\_\_\_BEN\_LAKE

SHEET NO 7 of 7

		н	OLE N	o. <u>B</u> L=	86-16		Sн	EET NO	<u></u>	£
AGE	DESCRIPTION			SAMP	LE				ASSAYS	
<b>TO</b>		NO. 1011	SULPH IDES	FROM	TO	TOTAL	<u>`</u>	`	01 104	01 100
	- 266.6 - 278.5 - intermediate tuff as 225.4 - 254.6									
	- 272.4 - 273.0 - quartz vein, trace disseminated pyrite	16190	tr	271.4	273.7	2.3			٥.001	
	- 286.8 - 287.0 - chloritic zone with wispy quartz- carbonate stringers	16191	-	286.3	287.5	1.2			<.001	
	- 292.3 - 292.6 - foliation disturbed, fine quartz- carbonate stringers in disturbed rone.	16192	-	291.7	293.0	1.3			<.001	
	End of Hole.									
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										7111
										AMA
			۰.	e la la la la la la la la la la la la la					K-17	M
							l		1	
	AGE TO	AGE DESCRIPTION TO - 266.6 - 278.5 - intermediate tuff as 225.4 - 254.6 - 272.4 - 273.0 - quartz vein, trace disseminated pyrite - 286.8 - 287.0 - chloritic zone with vispy quartz- carbonate stringers - 292.3 - 292.6 - foliation disturbed, fine quartz- carbonate stringers in disturbed rone. End of Hole.	AOE DESCRIPTION AS TO DESCRIPTION AS - 266.6 - 278.5 - intermediate tuff as 225.4 - 254.6 - 272.4 - 273.0 - quartz vein, trace disacminated pyrite 16197 - 286.8 - 287.0 - chloritic zone with vispy quartz- carbonate stringers - 292.3 - 292.6 - foliation disturbed, fine quartz- carbonate stringers in disturbed rone. End of Hole.	AGE DESCRIPTION TO - 266.6 - 278.5 - intermediate tuff as 225.4 - 254.6 - 272.4 - 273.0 - quartz vein, trace disseminated pyrite 16197 tr - 286.8 - 287.0 - chloritic zone with vispy quartz- carbonate stringers - 292.3 - 292.6 - foliation disturbed, fine quartz- carbonate stringers in disturbed rone. End of Hole.	AGE         DESCRIPTION         SAMPI           70         - 266.6 - 278.5 - intermediate tuff as 225.4 - 254.6         - 212.4 - 273.0 - quartz vein, trace disseminated pyrite         16190         tr         271.4           - 286.8 - 287.0 - chloritic zone with wispy quartz- carbonate stringers         - 292.3 - 292.6 - foliation disturbed, fine quartz- carbonate stringers in disturbed rone.         16192         - 291.7           End of Hole.         - End of Hole.         - 291.7         - 291.7         - 291.7	HOLE NO	AGE DESCRIPTION TO DESCRIPTION - 266.6 - 278.5 - intermediate tuff as 225.4 - 234.6 - 272.4 - 273.0 - quartz vein, trace disseminated pyrite 16190 tr 271.4 273.7 2.3 - 286.8 - 287.0 - chloritic zone with wispy quartz- carbonate stringers - 292.3 - 292.6 - foliation disturbed, fine quartz- carbonate stringers in disturbed rone. End of Hole. Note the stringers in disturbed rone is a stringer in disturbed rone is a stringer in disturbed rone. Description is a stringer in disturbed rone is a stringer in disturbed rone. End of Hole.	AGE         JAMPLE         SAMPLE         SampLe <td>NOLE NO.         DESCRIPTION         SAMPLE           TO         TO         SAMPLE           TO         TO         TO         TO           - 266.6 - 278.5 - intermediate tuff as 225.4 - 254.6         -         TO         201.7         2.3         -           - 286.8 - 287.0 - chloritic sone with vispy quarter-         -         16192         -         291.7         293.0         1.3           -         292.3 - 292.6 - foliation disturbed rone.           End of Hole.         -         291.7         293.0         1.3</td> <td>AGE         DESCRIPTION         SAMPLE         SAMPLE         ASSAVS           70         10</td>	NOLE NO.         DESCRIPTION         SAMPLE           TO         TO         SAMPLE           TO         TO         TO         TO           - 266.6 - 278.5 - intermediate tuff as 225.4 - 254.6         -         TO         201.7         2.3         -           - 286.8 - 287.0 - chloritic sone with vispy quarter-         -         16192         -         291.7         293.0         1.3           -         292.3 - 292.6 - foliation disturbed rone.           End of Hole.         -         291.7         293.0         1.3	AGE         DESCRIPTION         SAMPLE         SAMPLE         ASSAVS           70         10

### APPENDIX D

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### DRILL SECTIONS AND LEGEND

APPENDIX D

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### DRILL SECTIONS AND LEGEND



### SYMBOLS Overburden. Geological contact. Bedding. . ..... .... .. ... Foliation... Fault, shear zone..... Sample interval (feet) with gold assay in ounces per ton Lost core 12 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 gt - Graphite Fig. 4



### SYMBOLS Overburden Geological contact Bedding Foliation. Fault, shear zone. Sample interval (feet) with gold assay in 3-01 3-0 ounces per ton Lost core LC Alteration si - silicification se - sericitization ch - chloritization ca - carbonatization Mineralization s - sulphides po - pyrrhotite py - pyrite cp - chalcopyrite As - arsenopyrite sp - sphalerite Ga - galena Mo - Molybdenite gf - Graphite Fig. 4



SYMBOLS	
Overburden	
Geological contact	
Bedding	
Foliation	·
Fault, shear zone	
Sample interval (feet) with gold assay in ounces per ton	
Lost core	
Alteration	·
si - silicification	
se - sericitization	
ch - chloritization	
ca - carbonatization	i
Mineralization	
s - sulphides	
po - pyrrhotite	
py – pyrite	
cp – chalcopyrite	
As - arsenopyrite	
sp - sphalerite	
Ga - galena .	
Mo - Molybdenite	
gt - Graphite	
Fig. 4	



SYMBOLS	
Dverburden	0/0
Geological contact	6
Bedding	
Ediation	-
-auit, snear zone~	~~
Sample interval (feet) with gold assay in punces per ton	
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	
Mn - Molybdenite gl - Graphite	11119
<i></i>	Fig.



SYMBOLS	
Overburden	0/5
Geological contact	5
Bedding	_
Foliation.	
Fault, shear zone~	~~
Sample interval (feet) with gold assay in ounces per ton	
Lost core	LC
Alteration si - silicification se - sericitization ch - chloritization ca - carbonatization Mineralization s - sulphides po - pyrrhotite py - pyrite cp - chalcopyrite	•
As - arsencpyrite	
Ga - galena	
Mo - Molybdenite gf - Graphite	ant?
	Fig. 4



SYMBOLS	
Overburden o/b	
Geological contact	
Bedding.	
Foliation	
Fault, shear zone	
Sample interval (feet) with gold assay in ounces per ton	
Lost core	
Alteration	
si - silicification	
se - sericitization	
ci chloritization	
ca - carbonatization	
Mineralization	
s – sulphides	
po – pyrrhotite	
py - pyrite	
cp – chalcopyrite	
As - arsenopyrite	
sp - sphalerite	
Ga - galena 🥠	1
Mo - Molybdenite	
gt - Graphite	
Alle	
Fig. 4	
	1



SYMBOLS	
Overburden	0/5
Geological contact	5
	4
Beaaing	<u> </u>
Foliation	
Fault, shear zone ~	
Sample interval (feet) with gold assay in ounces per ton	1.6
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	Level 9
gi - Graphite	[A <sup>///</sup>
	Fig.



Overburden
Geological contact
Bedding
Foliation
Fault, shear zone
Sample interval (feet) with gold assay in ounces per ton
Lost core
Alteration si - silicification se - sericitization ch - chloritization ca - carbonatization
Mineralization s - sulphides po - pyrrhotite py - pyrite cp - chalcopyrite As - arsenopyrite sp - sphalerite Ga - galena Mo - Molybdapite
gf - Graphite
Fig. 4



SYMBOLS	
Dverburden	0/b
Geological contact	<u>5</u>
Bedding	~
-oliation	
-ault, shear zone ~~	~~
Sample interva! (feet) with gold assay in punces per ton 3.0 Lost core	LC
Alteration	
si - silicification	
se - sericitization	
ch - chloritization	
ca - carbonatization	
Mineralization	
s - sulphideu	
po - pyrrhotite	
py - pyrite	
cp – chalcopyrite	
As - arsenopyrite	
sp - sphalerite	
Ga - galena	
Mo - Molybdenite	Int?
gt - Graphite	<i>A</i> ′′′
	<b>r</b> *: -
·	rig.



### SYMBOLS Overburden..... 0/b Geological contact.... Bedding. Foliation..... Fault, shear zone..... Sample interval (feet) with gold assay in ounces per ton Lost core 2 LC Alteration si - silicification se - sericitization ch - chloritization ca - carbonatization Mineralization s - sulphides po - pyrrhotite py - pyrite cp - chalcopyrite As - arsenopyrite sp - sphalerite Ga - galena Mo - Molybdenite gf - Graphite Fig. 4



LE	SECTIONS

SYMBOLS Overburden Geological contact Bedding Foliation Fault, shear zone Sample interval (feet) with gold assay in 184 ounces per ton Lost core Alteration dilettication SI remetization 30 a theater atom ch - Carbonates at 03 Mineralization Sugnation e, pyriteria **;** · · C٧ gyrite chalcopyrite 111 As - arsenopville sphalerite 30 galena ()a Molybdanita Mo Graphite цf



### SYMBOLS Overburden..... Geological contact Bedding. Foliation Fault, shear zone.....~ Sample interval (feet) with gold assay in ounces per ton Lost core ØiC Alteration si - silicification se - sericitization ch - chlorilization na - naibonatization Mineralization s - sulphides po - pyrrhotite py - pyrite cp - chalcopyrite As - arsenopyrite sp - sphalerite Ga - galena Mo - Molybdenite gf - Graphite Fig. 4



## SYMBOLS Overburden..... Geological contact. Bedding Foliation..... Fault, shear zone..... Sample interval (feet) with gold assay in ounces per ton 12 LC Lost core Alteration si - silicification se - sericitization ch - chloritization ca - carbonatization Mineralization s - sulphides po - pyrrhotite py - pyrite cp - chalcopyrite As - arsenopyrite sp - sphalerite Ga - galena Mo - Molybdenite gf - Graphite Fig. 4



SYMBOLS
Overburden
Geological contact
Bedding
Foliation.
Fault, shear zone
Sample interval (feet) with gold assay in ounces per ton
Lost core
Alteration
si - silicification
se - sericitization
ch - chloritization
ca - carbonatization
Mineralization
s - sulphides
po - pyrrhotite
py – pyrite
cp – chalcopyrite
As - arsenopyrite
sp - sphalerite
Ga - galena
Mo - Molybdenite
gt - Graphite
CH U.
Fig.



SYMBOLS	
Overburden	
Geological contact	
Bedding	
Foliation	
Fault, shear zone	
Sample interval (feet) with gold assay in ounces per ton	
Lost core	
Alteration	
si - silicification	
se - sericitization	
ch - chloritization	
ca - carbonatization	
Mineralization	
s - sulphides	
po - pyrrhotite	
oy - pyrite	
cp - chalcopyrite	
As - arsenopyrite	
so - sphalerite	
Ga - galena	
Mo - Molybdenite ) )/ of	$\eta$
of - Graphite	1
A W	
F	ïg


### SYMBOLS Ove purden Geological contact Bedding. Foliation Fault, shear zone..... Sample interval (feet) with gold assay in 3.01 ounces per ton..... Lost core Ø 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 gt - Graphite

Fig. 4

#### APPENDIX E

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#### ASSAY CERTIFICATES

11/21/26

Bendur-Chag & Company Lid. 5420 Canonit Rd. Otaros, Ontaria. Canada K1J 8X5 Phone: (613) 745-2220 Tolas: 653-3233

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#### Certificate of Analysis

	REPORT: 416	-4799	]	PROJECT: BEN LAKE	PAGE 1	
	SAAPLE HUABER	ELEMENT AU UNITS 0/T	SAAPLE XUABER	ELEBENT AU UNITS O/T		<b></b>
	6001	<0.001	6041	<0.001		
	5002	0.002	6U42 (A/7	(0.001		
	5003 5003		67V8 1011	(V.VVI ZA AA1		
	5005	0.024	6045	(0.001		
	5006	<0.001		0.002		
<b>_</b>	5007	<0.001	6047	(0.901		
	600B	<0.001	5048	<0.001		
T	5009	<0.001	6049	(0.001		
	6010	(0.001	6059	<0.001		
4	6011	<0.001	6051	<0.001		
	6012		6VJZ 1857	(Ø.9VL ZA AA1		
	0VIJ 1811		5457 5433	× ×••••		
-	6015	<0.001	6055	<0.001		
	6016	<0.001	6056	<0.001		
	5017	<0.001	6057	<0.001		
	6018	<0.001	6058	(0.001		
	6019	<0.001	4059	0.004		
	5020	<0.001	6060	<0.001		
	6021	0.001	6061	<0.001		
	6022	0.001	6062	0.001		
-	6023	<0.001	6063	<0.001		
	6024		496 <b>4</b> 4845	9.992 A A15		
	0722	0.001		4.412		
T	6026	<0.001	6066	<0.001		
	6027	(0.001	5057	9.991		
	0V28	<0.001 // 001	0000 18(0	(0.00)		
Ţ	5030	<0.001	. 6070	<0.001		
	6031	(0.001	6071	(0,001		
-	6032	(0.001	4072	(0.001		
1	6033	<0.001	6073	<0.001		
	6034	<0.001	6074	(0.001.		
	6035	<0.001	6075	<0.001		
	6036	(0.001	6078	<0.001		
	÷037	<0.001	. 6077	(0.001		
	6038	0.001	6078	<0.001		
	6039	<0.001	6079	0.001		
	6049	(0.001	608 <b>0</b>	0.001	/2	
					J	

Chief Chearst

11/21/11

Booder-Coug & Company Ltd. 5420 Canotek Rd. Ottows, Unitario, Canada K1J 83X5 Phone (613) 749-2220 Teles: 053-3233



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Certificate of Analysis

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REPORT: 414-4			PRUJELI · DER LANE	7 806 6
SAMPLE	ELENERT Au	SAAPLE	ELENENT A	u
NUNBER	UNITS O/T	NUNBER	UNIIS U/	
5081	0.002	6121	<0.00	1
5082	(0.001	6122	<0.00	
6983	<0.001	6123	(0.00	
5084	0.001	61Z4	(0.00	•
5883	(0.001	01/3	(0.00	<b>.</b>
6086	<0.001	6126	<0.00	1
6087	<0.001	6127	<0.00	1
6088	<0.001	5128	<0.00	1
5089	<0.001	6129	(0.00	
6090	(0.001	<u> </u>	<0.0	11
6091	<0.001	6131	<0.00	)]
6092	<0.001	6132	<0.0(	)1
6093	<0.001	6133	<0.0	)1
6094	<0.001	6136	<0.0	)1
6095	<0.001		<0.0	)]
5098	<0.001	6136	<0.0	)]
5097	<0.001	6137	<0.00	)1
5099	<0.001	6138	<0.0	21
5099	<0.001	6139	(0.0)	)1
6100	<0.001	6140	<0.0	)[
5101	0.001	5141	<0.0	)]
5102	<0.001	6142	<0.0	D1
5103	<0.001	6143	<0.0	)1
6104	<0.001	6144	<0.0	01
6105	<0.001		(0.0	01
6106	<0.001	6146	(0.0	01
5107	(0.00E	6147	<0.0	91
5108	<0.001	6148	(0.0	01
5109	<0.001	6149	(0.0	01
5110	(0.001	. 0130	<9.9 <sup>-</sup>	01
6111	<0.001	6152	<0.0	01
\$112	(0.001	6153	(0.0	01
6113	<0.001	6154	<0.0	01
6114	<0.001	6155	(0.0	01
6115	<0.001	6156	(0.0	01
6116	<0.001	6157	<0.0	01
6117	<0.001	6158	<0.0	01
6118	<0.001	6159	<0.0	01
<u> </u>	(0.001	6160	0.0	02
5120	(0.001	6161	<0.0	01
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#### Certificate of Analysis

11/21/17/6

REPORT: 416	-4799					PROJECT: BEN L	AKE	PAGE	3
SARPLE NURBER	ELENENT UNITS	Au 0/T			SAAPLE WUABER	ELEAENT UPITS	Au 0/T		
6162 5163 5164 5165		<0.001 <0.001 <0.001 <0.001 <0.001							
					.'				
						· · · · · · · · · · · · · · · · · · ·			
		:							
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any Lid. r-Chang & Con 5420 Cancesk Rd., Onaves, Ontario, Canada K1J 8355 Phone (613) 749-2220 Teles: 053-3233



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Certificate of Analysis

	REPORT: 415	-4967		]	PROJECT: BEN	LAKE	PAGE 1	
	SARPLE XUREER	ELENENT UNITS	Au 0/t	SAAPLE XUBBER	ELEMENT	Au 0/T		
	5155		<0.001	6206		<0.001		
	6167		(0.001	6207		(0.001	·	
	5016 5116		(V.VVI (0.001	62V8 4209		(V.VVI (8.881		
	6170		<0.001	6210	******	(0.001		
<b>H</b>	6171		<0.001	6211		(0.001		
	6172		<0.001	6212		<0.001		
	61/3		<0.001	6213		(0.00I		
	6174		<0.001	6214		0.001		
	6176		<0.001	6216		0.001	·	
	6177		<0.001	6217		0.008		
	6178		<0.001	6218		<0.001		
Ş.	5179		<0.001 (0.001	6219		0.004 0.004		
	0104			0224				
	6181			6221 (222		0.092		
T	510		\V.VVI (0.001	0222 1993		(0.001		
	5184		<0.001	6225		<0.001		
	5185		<0.001	6225	14	0.001		
	6186		<0.001	\$225		0.016		
	6187		<0.001	6227		0.021		
T	6188		<0.001	6228		0.003		
-	6187 /100		(0,001 70 001	6227 4220		(0.001 20 001		
	0114		(0.001	VLJQ		~~~~~	ی این این این این این این این این این ای	
	6191		<0.001 /0.001	6231		(0.001		
É.	6172 2107		(V.VV) 20.001	0232 2733		(V.UVI (0.001		
	6175 74194		(0.881	6233		0.083		
Ţ	6195		<0.001	6235		0.001		
	5196		(0.001	6236		<0.001		
T	6197		<0.001	6237		<0.001		
de la constante de la constant	6198		<0.001	6238		(0.001		
	6199		<0.001	6239		(0.001		
τ	5200		<0.001	6249		<0.001		
	5201		<0.001	6241		(0.001		
P	6202		<0.001	6242		<0.001		
	5203		<0.001 /A AA1	6243		(0.001 /A AA1		
	5205		<0.001	6245 6245		<0.001		
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#### Certificate of Analysis

REPORT: 4	15-4967				PROJECT: BEN I	AKE	PASE 2	
SANPLE XUNBER	ELEMENT	Au D/T		SAAPLE NUABER	ELERENT UNITS	Au D/T		
6246		<0.001						
6247		<0.001						
5248 1719		<0.001 <0.001						
6250		(0.001	· · · · · · · · · · · · · · · · · · ·					
6251		<0.001						<u></u>
6252		(0.001						
6254		(0.001						
6255		<0.001						
6256		<0.001					· · · · · · · · · · · · · · · · · · ·	
0207 6258		V.VV0 (0.001						
6259		<0.001						
6260		<0.001						
6261		<0.001						
6262		(0.001						
6265		<0.001						
6265		0.005						
6266		0.005						
6267		<0.001						
6269		(0.001						
6270		(0.001						
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Bender-Chag & Company Ltd. 5420 Canosh K.L. Oranes, Onterno, Canada K13 8X5 Phones (613) 748-2220 Teles: 053-3233

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#### Certificate of Analysis

Sample Number	ELEHENT	Au 0/t	SAMPLE NUMBER	ELEMENT	AU 0/1	
6271		(0.001	6311		0.024	
6272		(0.001	6312		(0.001	
6273		(0.001	5313		V.VV.3	
6274 6275		<0.001 <0.001 ~	6314		<0.001 <0.001	
1492		78.001	5215		0.002	
04/0 1977		(0.00)	6312		(0.001	
04//		(0.00)	6318		0.008	
64/0		(0,00)	6319		0.005	
6280		<0.001	6320		<0.001	· .
6281		<0.001	6321		(0.00)	
6282		<0.001	6322		<0.001	
6283		0.002	6323		(0.001	
5284		<0.001	6324.		<0.001	
5285		<0.001	6325		<0.001	•
6286		<0.001	6326		<0.001	
6287		<0.001	6327	. '	(0.001	
6288		<0.001	6328		0.012	
6289		<0.001	6329	•	<0.001	
6290		<0.001	6330		<0.001	
6291		<0.001	6331		(0.001-	
6292		0.002	6332		(0.001	
6293		<0.001	6333		(0.001	
6294		(0.00)	6334		(V.OVI	
6295		<0.001	b339.		<0.001	
6296		0.001	6336			
6297	5	(0.00)	6337- 1000-		· (0.008 /··	
6298		(0.00I	5338	·* ·	(0.001	
6299 6300		<0.001	0337		(0.001	
<b>27</b> 01		(0.00)				
£303		(0.001				
6203		(0.001		•		
6304		0.001				
6305		<0.001				
6306		<0.001				
6307		<0.001				
6308		(0.00)	,			
6309		<0.001				•
6310		<0.001				
		<u></u>		·····		P

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Certificate of Analysis

SAAPLF         ELEMENT         Au           NUMBER         UNITS         0/T           6340         <0.001           6341         <0.001           6342         <0.001           6343         <0.001           6344         <0.001	SAAPLE NUABER 6380 6381 6382 6382 6383 6384 6385	ELERENT Au UNITS D/T 0.002 (0.001 (0.001 (0.001 (0.001	
6340       <0.001         6341       <0.001         6342       <0.001         6343       <0.001         6344       <0.001	6380 6381 6382 6383 6384 6385	0.002 <0.001 <0.001 <0.001 <0.001	
6341 <0.001 6342 <0.001 6343 <0.001 6344 <0.001	6381 6382 6383 6384 6385	<0.001 <0.001 <0.001 <0.001	
6342 <0.001 6343 <0.001 6344 <0.001	4382 4383 6384 4385	<0.001 <0.001 <0.001	
6343 <0.001 6344 <0.001	6383 6384 6385	<0.001 <0.001	
6344 <0.001	6384	<0.001	
	6385		
6345 <0.001		<0.001	
6346 (0.001	6386	<0.001	
\$347 <0.001	6387	<0.001	
6348 <0.001	6388	<0.001	
6349 <0.001	4389	<0.001	
6350 0.001	6398	<0.001	
4351 0.003	6371	(0.001	
6352 (0.001	6372	(0.001	
6353 (0.001	6373	(0,001	•
6354 (9.001	5374	(0,091	
6355 <0.001	6395	<0.001	
6356 0.002	6396	<0.001	
6357 (0.001	6397	(0.001	
6358 <0.001	6378	<0.001	
1 6359 0.001	6377	(0.00)	
6360 <0.001	6400	<0.001	
6361 <0.001	6401	<0.001	
6362 (0.001	6492	<9.001	
6363 <0.001	6403	9.091	
6364 0.001	<u></u>	(8.001	······································
6365 <b>(0.001</b> ) (1.000)	6405	0.021	
6366 (0.001	6406	<0.001	
6367 (0.001	6497	<0.001	
6368 (0.001	5498	(0.001	
6369 (0.001	6407	(0.001	
6370 <0.001	6410	0.003	
6371 <0.001	- 6411	<0.001	
6372 (0.001	6412	<0.001	
6373 (0.001	6413	(0.001	
6374 (0.001	6414	(8,001	
6375 <0.001 .	6415	<9.001	
6376 <0.001	6416	<0.001	
6377 (0.001	6417	<0.091	
6378 (0.001	<b>418</b>	< <b>0.001</b>	
5379 <0.001	6417	(0.001	

Chief Chemist

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Certificate of Analysis

REPORT: 41/	5-5138		PROJECT: BEN LAKE	PAGE 2
		÷		
SAMPLE NUMBER	ELEMENT AU UNITS O/T	SAMPLE NUABER	UNITS D/T	
<u> </u>	<0.001		(0.001	
6421	<0.001	5451	(0.001	
6422	(0.001	6462	<0.001	
6423	<0.001	6463	0.003	
6424	<0.001		<0.601	
6425	<0.001	6465	0.003	, y y Marataya, yan ya sana kanaya ku mana kana ku ku ku ku kana kanya kanya kanya kanya kanya kanya kanya kany
6426	<0.001	6466	0.001	
6427	<0.001	6467	<0.001	
6428	<0.001	6468	(9.04)	
6429	0.001		<0.001	
6430	<0.001	6470	<0.001	
6431	<0.001	6471	<0.001	
6432	<0.081	6472	<p.901< td=""><td></td></p.901<>	
4433	<0.001	4473	0.002	
6434	(0.001	<u> </u>	<0.001	
6435	<0.001	4475	<9.001	
6436	0.001	4474	1.113	
6437	0.001	6477	<0.001	
6438	<0.001	4478	<0.001	
6439	<0.001	6479	<0.001	
5440	0.013	6488	<0.001	
6441	0.042	6481	<0.001	
6442	<0.001	5482	<9.0 <del>2</del> 1	
6443	<0.001	6483	<0.001	
6444	<0.001	. <b>6484</b> ·	<0. <b>#</b> 1	
6445	<0.001	1485	<0.001	ويرونون مريسي مريسي ومستري من من مريس مريسي مريس ورونونو المريس
5446	<b>(0.001</b>	1486 .	(0.001	
5447	<9.991	6487	9.991	
6448	<0.001	6488	<0.001	
6449	<0.001	. 6487	<0.001	
6450	(0.001	6490	0.001	
6451	<0.001	6491	<0.001	
6452	<0.001	6472	<0.001	
6453	<0.001	6493	<9.001	,
6454	<0.001	6494	0.001	
6455	<0.001	6495	<0.001	
6456	0.041	6496	<0.001	
6457	<0.001	6497	<0.001	
645B	<0.001	6498	<0.001	
6459	<0.001	6499	<0.001	11:

Chief Chemist

12/11/20. -Cape & Con n Lui. 5420 Canoush Rd. Ottown, Ontario, Canada K1J 8X5 Phone: (613) 749-2220 Tolas: 053-3233 Certificate of Analysis PROJECT: BEN LAKE PAGE 3 REPORT: 416-5138 ELEMENT SARPLE NUABER ELEBERT Åu 0/T SABPLE Au UNITS NUABER UNITS 0/T 6200 <0.001 1.4 ...... **Chief Chemist** 

13/01/26

Bender-Cieg & Company Ltd. 5420 Canouk Rd.. Otsava, Oistana, Canada K13 5X5 Phone: (613) 148-2220 Teler: 053-3233



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Certificate of Analysis

BEPORT: 416-	5139		PROJECT: BEN LAKE	PAGE 1
SARPLE NUABER	ELEMENT AU UNITS O/T	SANPLE NUBBER	ELEBENT A UNITS D/	V T
16101	<0.001	16141	<0.00	1
16102	<0.001	16142	<0.03	1
16103	<0.001	16143	<0.00	1
16104	0.007	16144	<0.00	1
16105	<0.001	16145	<0.00	]
16106	(0.001	16146	<0.00	1
16107	(0,001	16147	(0.00	1
16108	<0.001	16148	(0.00	1
16107	(9,991 (A AA1	10197	(V.V) /8 A4	4
16119	(9,991	10130	\V.V0	
16111	<0.001	16151	<0.00	1
16112	0,001	16152	<0.09	1
16113	<0.001	16133	(Q.V) /a A4	-1 -
	(9,V01 /A AA1	72111 72111	\V.V\ A Af	1
10113	(0.40)		V.V.	
16116	<0.001	1,156	0.00	3
16117	<0.001	16157	0.0	2
16118	<0.001	16158	0.00	3
16117	(0.001	16137	(0.V( // //	
16120	(0.001	19164	(V.V	·
16121	<0.001	16161	<0.0	2
14122	(0.001	16162	<9.0(	
16123	(0,001 (0,001	10103 12122	(V.V) (A A)	
16124	(0.VV] 0.001	10101 11111	(V.V) (0.6)	
10123	V, 9V8	(910J	\V.V	/ .
16126	<0.901	16166	<0.0(	)]
1012/	V. <b>V7</b> 5 (8 881	10107 1111	(V.V) (D.A)	
14120	(0 001	14149	(0.0	
16130	<0.001	. 16170	(0.0	
	/// ///	1/171	/A A	······································
10131	100.07	101/4	(V.V) 20 A	91 N1
16132	V.VZU A AAB	10172	(0.0)	51 B1
14174	0.049 0.049	16175	( <b>6</b> 6)	N1
14135	(0.001	14175	(0.6	01
L		5 <b>2 6</b> 7 7		
16136	(0.001	. 16176	<0.0	D1
1613/	<0.001 /A AA4	. 161//	(0.0) /* 1	U]
16135	<q.qqi /A AA1</q.qqi 	161/8	<₩5¥ /A A	91 A1
10137	<pre>\v.vvl </pre>	101/7 1410A	19.9 28 A	
10114	/4*443	191GA	\V.V	······ ///
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Chief Chemist

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Certificate of Analysis

REPORT: 416-5139				PRBJECT: BEN	LAKE P	PAGE 2	
SAAPLE NUABER	ELE <del>R</del> ENT Au UNITS 0/T		SAAPLE KUABER	ELEAENT JUNITS	Au 0/T		
16181	(0.001	······································					
16182	<0.001						
16184 16185	<0.001 <0.001	<u> </u>					
16186	<0.001						
16187	<0.001 <0.001						
14187 16190	<0.001 <0.001						
16191	<0.091						
16192	{9 <b>.</b> 90}						
			· · · · · · · · · · · · · · · · · · ·				
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# FOR ADDITIONAL

# INFORMATION

## **SEE MAPS:**

520/07SE-0021 # /