

5215

93A/TW

ASSESSMENT REPORT

I.P. SURVEY AND DIAMOND DRILLING

EUREKA PEAK PROPERTY

(E.N.6, E.N.105, E.N.127 mineral claims and E.N.29 Fraction)

93A/7

52°18'N, 120°38'E

Cariboo Mining Division

by

L. Bradish and B. Fairbank

Noranda Exploration Company, Limited
(No Personal Liability)

August 28 - September 20, 1974

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5215	MAP

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
Location and Accessibility	1
Topography and Vegetation	1
Grid Preparation	2
GENERAL GEOLOGY	2
I.P. AND RESISTIVITY SURVEY	3
Method	3
Presentation of Results	5
Discussion of Results	5
DIAMOND DRILLING	5
CONCLUSIONS	6
APPENDIX A - Drill Logs	
APPENDIX B - Statement of Costs	
APPENDIX C - Statement of Qualifications	

LIST OF ILLUSTRATIONS

#1 Claim Map

#2 Drawing I.P. 1 - P.F.E.

#3 Drawing I.P. 2 - Resistivity

#4 Location map

I.P. SURVEY AND DIAMOND DRILLING REPORT
on the
EUREKA PEAK PROPERTY

INTRODUCTION

The Eureka Peak copper prospect was discovered by prospector E.Scholtz in 1958. Subsequent work on the property has been done by Helicon Explorations (1965-1966), Mr.H.Travis(1969), Amax (1970) and Rio Tinto (1972).

Noranda Exploration Company, Limited (N.P.L.) optioned the property from E.Scholtz and J.Carson of Williams Lake in February 1974 and completed an I.P. survey and two diamond drill holes on the following claims in August and September, 1974.

<u>Claim Name</u>	<u>Owner</u>	<u>Record Number</u>
E.N.6	Noranda Exploration Company,Ltd.(N.P.L.)	71429
E.N.105	Noranda Exploration Company,Ltd.(N.P.L.)	30619
E.N.127	Noranda Exploration Company,Ltd.(N.P.L.)	30609
E.N.29 Fr.	Noranda Exploration Company,Ltd.(N.P.L.)	30647

Location and Accessibility

The property is located approximately 30 miles east of Horsefly, B.C. at coordinates $52^{\circ}18'N$, $120^{\circ}38'E$ on the Quesnel Lake Map sheet (93A).

Access to the claims is by dirt road from 150 Mile House. A six-mile long, four wheel-drive road at the Eureka Peak property leaves the Horsefly River road at MacKay Creek.

Topography and Vegetation

Topography on the claim group is very rugged with elevations ranging between 5000 and 7950 feet. Steep cliffs, cirques and other inaccessible areas cover a large percentage of the claim group. The geophysical survey and diamond drill programme were severely limited due to rugged terrain and poor access roads on the property.

Most of the work was concentrated on a small meadow sloping up to 35 degrees.

Vegetation consists of open grass covered meadows, barren ground and evergreen trees in the valleys.

Grid Preparation

A control grid was developed using chain and compass methods with stations picketed and flagged every 200 feet. A base line (100E), 2700 feet long was established and seven perpendicular grid lines were developed. Grid line spacing is 400 feet with the exception of line 100N (not put in) and Line 120N which is 300 feet from Line 116N. The grid was prepared by Noranda Exploration Company, Limited crews.

GENERAL GEOLOGY

Disseminated copper mineralization at the Eureka property is mainly in granodiorite/diorite intrusive rocks which form lens shaped bodies along a contact between basic rocks (pyroxenite, chlorite schist) and volcanic augite porphyry. The main intrusive body is a north-south trending sill approximately 9000 feet long and up to 1000 feet wide. Prospecting has defined two areas of prime interest on the steep (25°-45°) sidewall of a cirque referred to as "cirque 2".

AREA 1 is low grade disseminated copper mineralization in leucocratic granodiorite and is located half way up the east facing sidewall of "cirque 2". Helicon Explorations tried to test this area with a horizontal hole drilled from below in 1966. The hole

was aborted at 630 feet, short of the target zone. Copper grades in the adit hole averaged less about 0.05% Cu with high values of 0.15% Cu. AREA 1 has limited potential due to very rugged topography, low grade, and limited extent of surface mineralization.

The purpose of Noranda's diamond drill programme was to test AREA 2 500 feet lower and 1500 feet north of AREA 1 on the same east facing slope. Percent outcrop in AREA 2 varies from 5% to 50%, the best exposures being above the drill sites to the west. Disseminated copper mineralization in granodiorite and diorite outcrops is low grade (0.05 - 0.2% Cu) and spotty.

I.P. AND RESISTIVITY SURVEY

The Induced Polarization and Resistivity Survey was carried out utilizing Variable Frequency I.P. equipment owned by Noranda Exploration Company, Limited and manufactured by Sabre Electronics Instruments Ltd., North Burnaby, B.C.

A dipole-dipole array, with a dipole length of 400 feet was employed. The frequencies used were 5.0 Hz and 0.3 Hz. Readings were taken every 400 feet with the dipoles separated by 400 feet (n=1).

Method

The transmitter will produce a current flow in the ground between the two current electrodes (C_1 and C_2). The resulting induced voltage is measured at the receiver dipole employing two porous pots (P_1 and P_2).

A four-man crew, one man at each electrode, carried out the survey moving electrodes, wires, and instruments every 400 feet along the survey line.

At each set-up, the following is recorded:

1. Station location of electrodes (C_1 , C_2 , P_1 , P_2).
2. Transmitter current in milliamps at 5.0 Hz.
3. Voltage in millivolts as measured by the receiver. The frequency of the transmitted current is then changed to 0.3 Hz, and the current is held constant.
4. The receiver measures the voltage change as a percent deviation caused only by the change in frequency of current.
5. As a check, step 2 and 3 are repeated.

The Percent Frequency Effect (P.F.E.) is defined as the percent change in the resistivity caused by a change in the frequency of current. Since the transmitted current is constant at both frequencies, and resistivity is directly proportional to voltage, it follows that percent change in resistivity (P.F.E.) is equal to the percent change in voltage (percent deviation).

The apparent resistivity value at 5.0 Hz is calculated from the recorded current and voltage, the array used and dimensions in feet.

The equation is:

$$\rho_a = 2\pi \frac{V}{I} G x$$

or more commonly used

$$\rho_a/2\pi = \frac{V}{I} G x$$

where ρ_a = apparent resistivity

V = millivolts

I = milliamps

G = geometric factor for array used

x = dipole separation in feet.

Presentation of Results

The results of the survey are presented on two plan maps at a scale of 1"=400'.

Drawing I.P. 1 shows the Percent Frequency Effect contoured at 3.0, 5.0, 7.5 and 10% intervals. Drawing I.P. 2 shows the calculated apparent resistivity values divided by 2π in ohm-feet. Contour interval is 100 ohm-feet.

Discussion of Results

The survey was severely hampered by rocky areas and steep slopes. P.F.E. values range from 0.75% to a high of 14.5%. All but two readings on the north end of line 108N are anomalous.

Resistivity readings range from less than 100 ohm-feet to over 3200 ohm-feet. Steep resistivity gradients exist partly due to variability in overburden depth.

8,400 feet were surveyed on E.N.6, E.N.127, E.N.105 M.C. and E.M. 29 fraction.

Due to the lack of data, the extent of the anomaly has not been determined. High P.F.E. values suggest a predominance of pyrite.

The I.P. data is of little value in determining drill targets as the drill locations depend largely on the suitability of the terrain.

DIAMOND DRILLING

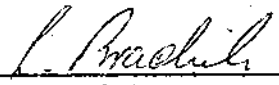
Two diamond drill holes, with a total footage of 1,204 feet, were completed on the E.N.6 mineral claim during the period extending

from September 10, 1974 to September 19, 1974. Drilling was under contract to H.Allen Diamond Drilling Limited, Box 1397, Merritt, British Columbia. A Longyear-38 Diamond Drill with BQ wireline equipment was used to bore the holes.

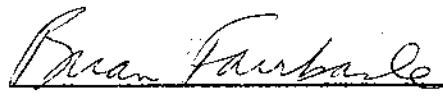
Drill core is stored in wooden boxes equipped with lids, square stacked at the campsite located on the E.N. 5 mineral claim.

CONCLUSION

Drilling results are negative. There is not enough untested space in the area of interest for a minable copper deposit. Underground grade would be required since open pit methods here would be impossible.



L. Bradish



B. Fairbank

APPENDIX A

Drill Logs

NORANDA EXPLORATION CO. LTD.

EUREKA

Sheet No. 1 of 8 Hole No. E-1

Property

Project No. 44-J N.T.S.

Core Size: BQ

Lat. 98N

Elev. 5750+

Dip -45°

Collared Sept. 12/74

Logged by: Fairbank

Dep. 96E

Depth 597

Bearing N45°W

Completed Sept. 14/74

ASSAYS

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.				
0-5		overburden									
5-10	97%	DIORITE -dark grey green -fine-grained, subhedral -weak to mod. epidotization, minor chlorite		-well fractured (1/in) pyrite and/or iron oxide (rust & black col) malachite on some fract. surfaces	4% cpy tr	M3471	5'				
10-20	100	minor local fine-gr. sericite, silicification		-local shear with stronger alt'n pyrite:pyrrhotite 70:30 -diss. and along fract.	5% tr cpy		10'				
20-30	100	minor local fine-gr. sericite, silicification		-fine-grained	3% tr cpy		10'				
30-40	100			↓ decrease in pyrite/ pyrrhotite	1% -	M3472	10'				
40-50	100			epidote and/or pyrite along local stockwork fract.	5% -		10'				
50-60	100	59.5-5" section med-gr. PYROXENITE			5% tr cpy		10'				
60-70	100	-epidote, pyrrhotite rich		malachite on fractures and some disseminated in rock	.8% tr cpy		10'				

Brian Fairbank

Brian Fairbank

Lat.	Elev.	Dip	Collared	Logged by: Fairbank
------	-------	-----	----------	---------------------

Dep.	Depth	Bearing	Completed	ASSAYS
------	-------	---------	-----------	--------

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.			
70-80	95%	DIORITE -dark green grey, fine-gr. -weak <u>epidotization</u>		-incr. competency tight fract. with pyrite and/or epidote -fine and med. gr. pyrite diss. and along fractures	2% tr cpy	M3473	10'			
80-90	100	85 DIORITE -fine-gr., grey-green -increased <u>silica</u>		pyrite:pyrrhotite 10:1 same as above -local incr. in pyrite cont. corr. with incr. silica	4% tr cpy		10'			
90-100	100	95 silicification outward from tight fract. (locally) same as above but with some very fine-gr.		89 minor malachite in fract. same as above	2.5% -		10			
100-110	100	DIORITE sect. (sharp contacts)		- less pyrite in fine-gr. sections	1% tr cpy		10			
110-120	100	110 mod. phyllitic alt'n <u>quartz, sericite, pyrite</u> original grains locally destroyed		-py, cpy diss., fine-grained -sericite, fine-gr., aligned trace MoS ₂	5% .15 cpy	M3474	10			
120-130	100	125 DIORITE - fine-grained -partially <u>silicified</u> -local <u>sericite</u> mainly on fracture planes -minor epidote		same as above 122-123.5 brecciated section	3% .05 cpy		10			
130-140	100			same as above	3% tr cpy		10			
140-150	100			-py, minor pyrrhotite diss. and along fractures	2% tr cpy		10			

Brian Fairbank

Brian Fairbank

Lat.

Elev.

Dip

Collared

Logged by: Fairbank


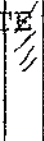

Dep.

Depth

Bearing

Completed

ASSAYS

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.				
150-160	100	DIORITE - fine-gr., grey - partially silicified, local sericite on fract.		pyrite disseminated through- out fracture density 1-3/ft	5% tr cpy	M3475	10				
160-170	100	167-178 strong silicific- ation diffuse qtz veins		same as above 167 incr.cpy content(diss.)	3% .05 cpy		10				
170-180	100			same as above	4% .01 cpy	M3391	10				
180-190	100			stockwork tight micro fract.pyrite finely disseminated	2% tr cpy		10				
190-200	100			197 4" section 20% sulphides in qtz vein	2% .15 cpy	M3380	10				
200-210	100	200 PYROXENITE -chlorite rich -foliated grades into: 206 CHLORITE SCHIST grades into;		200 contact sharp, fragments of basic rock in DIORITE. Incr.mafic content in DIORITE 6" from contact	1% tr cpy		10				
210-220	100	213 dark grey-black PHYLLITE 216 DIORITE -fine-grained -mafic content variable		diss.cubes of pyrite in phyllite 216 sharp contact diss. py, minor cpy in DIORITE	1.5% .05 cpy		10				
220-230	100	126 increased mafic content grades into PYROXENITE		227 minor leucocratic fine- gr. GRANODIORITE in thin (1"max.)dikes over 1 1/2'	3% .05 cpy		10				

Brian Fairbank

Brian Fairbank

Property
Project No. 44-J N.T.S.

Core Size: BQ

Logged by: Fairbank

Lat.	Elev.	Dip	Collared	ASSAYS			
Dep.	Depth	Bearing	Completed				
Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lr.
230-240	95	PYROXENITE BRECCIA -dark green -fine-gr. PYROXENITE contains rounded and angular frag. of coarse-gr. PYROXENITE		pyrite cubes diss. in some coarse-gr. breccia fragments Matrix sulphide poor	.8% -	M3381	10
240-250	100	-chlorite rich 247.5 GRANODIORITE		247.5 incr. in sulphides, fractures 0-1/' chlorite, epidote, py on fractures, Pyrite disseminated and in seams	2% tr MoS ₂		10
250-260	97	-grey green, fine-grained -weak epidote, chlorite alteration -qtz stringers 0-3/ft			5% .05 cpy		10
260-270	95	247-255 qtz, sericite, py rare calcite stringers 267-2' section PYROXENITE			4% .05 cpy		10
270-280	95	mod. epidotization		pyrite:pyrrhotite 60:40	4% .05 cpy	M3382	10
280-290	100				2% tr cpy		10
290-300	100	290 DIORITE/GRANODIORITE -contacts both sharp & gradational -mafic + qtz content var. -mod. epidotization -local silicification		290 contact breccia over 4" DIORITE frag. in leucocratic GRANODIORITE Tight fractures (1/in) with epidote + cpy. Py, cpy diss. and in tight fractures	5% .08 cpy	M3392	10
300-310	100				5% .08 cpy		10

Brian Fairbank

Brian Fairbank

Lat.	Elev.	Dip	Collared
Dep.	Depth	Bearing	Completed

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.	ASSAYS			
310-320	100	GRANODIORITE -grey green, fine-gr. -weak epidotization -local silicification -qtz content variable		Tight fract. with py, epidote + cpy 1/in. py, cpy also disseminated	5% .15 cpy	M3383	10'				
320-330	100			Wavellite (spherulitic masses with radiating crystal form) in some fractures (late low temp. hydrothermal mineral)	4% tr MoS ₂ .1 cpy		10'				
330-340	100	sericite on some fractures		pyrite: pyrrhotite 10:1	3% .05 cpy	M3393	10'				
340-350	100	moderate epidotization local silicification			3% .1 cpy		10'				
350-360	100				4% .1 cpy	M3384	10'				
360-270	100				3% .08 cpy		10'				
370-380	100	rock softer, open spaces		Increased fracturing (3-4') Rock softer with open spaces, calcite veining epidote on fractures	3% .08 cpy	M3394	10'				
380-390	100	sericite in fractures			.4% .1 cpy		10'				

Bru Fairbank

Bru Fairbank

NORANDA EXPLORATION CO. LTD.

EUREKA

Sheet No. 6 of 8 Hole No. E-1

Property _____

Project No. 44-J N.T.S.

Core Size: BQ

Logged by: Fairbank

Lat.	Elev.	Dip	Collared	ASSAYS			
Dep.	Depth	Bearing	Completed				
Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.
390-400	100	GRANODIORITE -fine-gr., dark grey-green -qtz content variable -weak to mod. epidotization -local silicification, rare qtz stringers		-moderately fractured (3-4'); epidote, pyrite, cpy on fract. -local shearing, py, cpy disseminated fractures	5% / .2 cpy	M3385	10
400-410	100			rare basic inclusions	4% / .1 cpy		10
410-420	100				3% / .05 cpy		10
420-430	97%				3% / .05 cpy		10
430-440	97%	mafic content variable increased chlorite			3% / .05 cpy	M3386	10
440-450	100	↓ grades into		↓	3% / .05 cpy		10
450-460	100	452 CHLORITE PHYLLITE		452 decrease in py, cpy through PHYLLITIC section	1.5% / tr. cpy		10
460-470	97%	460 GRANODIORITE -dark grey grn, fine gr. -epidote, chlorite, calc. -silicified, local ser.		sheared, foliated	2% / .1 cpy		10

Brian Fairbank

Brian Fairbank

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.				
470-480	90%	GRANODIORITE -fine-gr., med. grey - <u>silicification</u> partially destroys original texture minor epidote		local shearing, mod. fractured py, cpy, finely diss. and on tight fractures	3% / .08 cpy	M3387	10				
480-490	97%				2% / .05 cpy		10				
490-500	100%	increase in epidote grades into		moderately fractured, py mainly on fractures well fractured	1.5% / tr cpy		10				
500-510	100%	502 DIORITE -fine-grained, grey-green -moderate <u>epidotization</u> -weak <u>chloritization</u>			1.5% / tr cpy		10				
510-520	100%	510 GRANODIORITE -light grey, fine-grained - <u>silicification</u> pervasive -epidote, chlorite on fract.		moderately fractured, py disseminated and on tight fractures. cpy mainly on fractures	3% / .05 cpy	M3388	10				
520-530	100%	silicification outward from tight fractures			3% / .08 cpy		10				
530-540	100%			local stockwork-tight fractures with py, silicification	3% / .05 cpy		10				
540-550	100%	542 and 549 short 3" sect. fine-gr. epidotized AUGITE PORPHYRY			3% / .05 cpy		10				

Brian Fairbank

Brian Fairbank

NORANDA EXPLORATION CO. LTD.

Property **EUREKA**

Sheet No. of 8 Hole No. E-1

Project No. **44-J** N.T.S.

Core Size: **BQ**

Lat. _____ Elev. _____ Dip _____ Collared _____

Logged by: **Fairbank**

Dep. _____ Depth _____ Bearing _____ Completed _____

ASSAYS

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.				
50-560	100	GRANODIORITE -medium to light grey -fine grained -pervasive <u>silicification</u> -epidote on fractures		rock competent, fractures tight, pyrite, epidote on fractures. pyrite disseminated pyrite:pyrrhotite 20:1	4% / .08 cpy	M3389	10				
560-570	100				3% / .05 cpy		10				
570-580	100	weak epidotization			3% / .08 cpy		10				
580-590	97%	weak epidotization			3% / .05 cpy		10				
590-597	100				3% / .05 cpy	M3390	10				
END OF HOLE											

Brian Fairbank

Brian Fairbank

NORANDA EXPLORATION CO. LTD.

Property EUREKA

Sheet No. 1 of 8 Hole No. E-2

Project No. 44-J N.T.S. (1:50,000)

Core Size: BQ

Lat. 94N

Elev. 5499

Dip -45°

Collared Sept. 15/74

Logged by: Fairbank

Dep. 98E

Depth 607

Bearing West

Completed Sept. 18/74

ASSAYS

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.				
0-4		overburden			X		4'				
4-10	70%	AUGITE PORPHYRY -crowded pyroxene phenocrysts. 1/16 to 1/8" in fine-gr. light green groundmass epidote chlorite fractures		casing to 15', rock fragmented weathered. Iron oxide in fractures	15%	M3395	6'				
10-20	80%	epidote chlorite fractures -density size of phenocrysts variable, locally aligned		py on fract. & disseminated trace malachite	2%		10				
20-30	95				2%		10				
30-40	95			39-chlorite rich shear zone	3%		10				
40-50	95	locally equigranular (fine-grained)		46 rock competent, py, epidote in tight fract., veins, py disseminated	3%	M3396	10				
50-60	97	58-59 siliceous GRANODIORITE dyke			2%		10				
60-70	97				3%		10				

Brian Fairbank

Brian Fairbank

Lat.	Elev.	Dip	Collared	ASSAYS			
Dep.	Depth	Bearing	Completed				
Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.
50-160	100	GRANODIORITE -dark green-grey -fine-grained -mafic content variable -weak to moderate epidotization, chloritizat- <u>ion</u>		Rock competent. Epidote, chlorite, pyrite on tight fractures. Pyrite also disseminated	1% /tr cpy		10
60-170	97				3% /tr cpy	M3400	10
70-180	97	epidotization outward from pyrite seams			2% / -		10
80-190	97			185 local shear	2% /tr cpy		10
90-200	100	192 GRANODIORITE -weak epidotization -light green-grey -qtz veins 1/2 ft. + epidote, pyrite			2% /tr cpy	P3601	10
00-210	100	locally foliated grades to: 207 GRANODIORITE		local foliation	3% /tr cpy		10
10-220	100	-medium grey -fine-grained -locally partially silicified			3% /tr cpy		10
20-230	95			pyrite, disseminated and in qtz stringers, up to 3/8". Larger pyrite crystals are well developed cubes	4% / -	P3602	10

Brian Fairbank

Brian Fairbank

Lat.	Elev.	Dip	Collared	ASSAYS			
Dep.	Depth	Bearing	Completed				
Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.
230-240	100	GRANODIORITE - medium grey - fine-grained, grain size variable <u>-locally silicified</u> -weak epidote		competent rock. pyrite diss. and on tight fractures. Increase in pyrrhotite, py, pyrrhotite 70:30	3% tr cpy		10
240-250	100			pyrite cubes to 1/4"	4% tr cpy		10
250-260	97	251 silicification destroys original texture		cpy very finely diss.	3% .05 cpy		10
260-270	95			pyrite:pyrrhotite 70:30	3% .1 cpy		10
270-280	100	↓ 272		py, pyrrhotite, cpy very finely disseminated	2.5% .15 cpy	P3603	10
280-290	97			pyrite:pyrrhotite 40:60	3% .2 cpy		10
290-300	100				3% .2 cpy	P3604	10
300-310	100				3% .1 cpy		10

Bru Fairbank

Bru Fairbank

Lat.	Elev.	Dip	Collared	Logged by: <u>Fairbank</u>
------	-------	-----	----------	----------------------------

Dep.	Depth	Bearing	Completed	ASSAYS
------	-------	---------	-----------	--------

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.				
310-320	97	GRANODIORITE -light to medium grey -fine-grained -locally silicified orig. texture locally destroyed		Competent rock. Py dissem. and in tight fractures + epidote, chlorite	3% / .05 cpy		10				
320-330	100				3% / .1 cpy		10				
330-340	97			py, cpy, very finely disseminated	3% / .15 cpy		10				
340-350	97	locally foliated			3% / .15 cpy		10				
350-360	97	some very fine-gr. sections locally foliated			3% / .1 cpy		10				
360-370	95	↓			3% / .1 cpy		10				
370-380	95			Accessory fluorite ↓	3% / .1 cpy		10				
380-390	100	↓		↓	3% / .15 cpy		10				

Brian Fairbank

Brian Fairbank

Lat.	Elev.	Dip	Collared	Logged by: <u>Fairbank</u>
Dep.	Depth	Bearing	Completed	

ASSAYS

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.			
390-400	100	GRANODIORITE -light to med. grey -fine-grained -locally silicified with orig. texture partially destroyed		Rock competent. Py diss. and on tight fracture planes cpy finely disseminated	3% / .08 cpy		10			
400-410					3% / .08 cpy		10			
410-420	100	415 qtz-carbonate veins			3% / .08 cpy		10			
420-430	100	424-427 sericite schist 429			3% / .08 cpy	P3607	10			
430-440	97				3% / .05 cpy		10			
440-450	97	GRANODIORITE as above with local weak silicification			3% / .08 cpy		10			
450-460	95				3% / .05 cpy		10			
460-470	100				3% / .05 cpy		10			

Brian Fairbank

Brian Fairbank

Lat.	Elev.	Dip	Collared
Dep.	Depth	Bearing	Completed

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.	ASSAYS			
70-480	100	GRANODIORITE -light to med. grey -fine-grained, grain size variable -local weak silicification -chlorite on some fractures		- competent rock - py disseminated and on tight fractures	3% tr cpy	P3608	10'				
30-490	100				3% .05 cpy		10'				
00-500	100				2% tr cpy		10'				
00-510	100	minor epidote		py mainly disseminated	2% tr cpy		10'				
00-520	97				3% tr cpy		10'				
20-530	100			pyrite:pyrrhotite 50:50	3% tr cpy		10'				
30-540	97				3% tr cpy		10'				
40-550	100				3% .05 cpy		10'				

Brian Fairbank

Brian Fairbank

NORANDA EXPLORATION CO. LTD.

EUREKA

Sheet No. 8 of 8 Hole No. E-2

Property

Project No. 44-J N.T.S.

Core Size: BQ

Lat.

Elev.

Dip

Collared

Logged by: Fairbank

Dep.

Depth

Bearing

Completed

ASSAYS

Footage	Rec'y	Rock Type/Alteration	Graphic Log	Mineralization/Structure	% Sulfides	Sample No.	Lt.				
550-560	100	GRANODIORITE -medium grey -fine-grained, grain size variable -local weak silicification -chlorite on some fract.		Rock competent. Pyrite mainly disseminated	3% tr cpy		10				
560-570	97	568 weak epidotization			3% tr cpy		10				
570-580	97				3% tr cpy	P3610	10				
580-590	85				3% .05 cpy		10				
590-600	97				3% tr cpy		10				
600-607	97				3% tr cpy		10				
END OF HOLE											

Brian Fairbank

Brian Fairbank

APPENDIX B

Statement of Costs

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT: EUREKA PEAK OPTION

TYPE OF REPORT: I.P. SURVEY

(a) Employees: L. Bradish, G. Fenton, R. Gourlay, D. White
Number of days: 16
Dates worked: Between Aug 27 and Aug 30, 1974

(b) Average cost per day \$ 30.91
Total cost \$ 30.91 X 16 \$ 494.56

(c) Cost of food & accomodation \$ 157.09

(d) Cost of transportation

 i. During work period
 type: truck
 cost: 114.23

 ii. To and from Claims from
 within B.C.
 cost: 57.12 171.35

(e) Cost of aircraft

 i. Fixed wing:

 ii. Helicopter:

(f) Cost of instruments

 i. Rental: IP 2 days 30.00

 ii. Supplies 30.00

(g) Cost of geochem analysis
 (details attached):

(h) Cost of report preparation: 75.00

(i) Other:

TOTAL

\$928.00

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT: EUREKA PEAK

TYPE OF REPORT: DIAMOND DRILLING

(a) Employees: I. Saunders, D. White, B. Fairbank
Number of days: 45
Dates worked: Between Sept 1 and Sept 20, 1974

(b) Average cost per day \$ 36.61
Total cost \$36.61 X 45 \$ 1,647.45

(c) Cost of food & accomodation \$ 554.58

(d) Cost of transportation
i. During work period
type: truck
cost: 258.30

ii. To and from Claims from
within B.C.
cost: 220.93 479.23

(e) Cost of aircraft
i. Fixed wing:
ii. Helicopter:

(f) Cost of instruments.
i. Rental:
ii. Supplies

(g) Cost of geochem analysis
(details attached):

(h) Cost of report preparation: 150.00

(i) Other: H. Allen DD-Contract 15,851.33
Drill Supplies 432.73
Drill site setups etc
Jacobson Bros. 917.50
Radio Communications 38.40 17,239.96

\$ 20,071.22

TOTAL

H. ALLEN DIAMOND DRILLING LTD.

TELEPHONE 378-4494

P.O. BOX 1397
MERRITT, B.C.

CONTRACT (Eureka Job)

BETWEEN: NORANDA EXPLORATIONS CO. LTD.,
1050 Davie Street - P.O. Box 2380,
Vancouver, B.C. V6B 3W7.

(Hereinafter referred to as the
"COMPANY" of the First Part.)

AND: H. ALLEN DIAMOND DRILLING LTD.,
Box 1397,
Merritt, B.C. V0K 2B0.

(Hereinafter referred to as the
"CONTRACTOR" of the Second Part.)

A. THE CONTRACTOR COVENANTS AND AGREES:

1. That all holes shall be drilled with BQ wireline equipment providing a core approximately 1 7/16" in diameter.
2. That the Contractor shall use his best endeavour to complete all holes according to the wishes of the Company, but should rock conditions prevent successful completion of the hole, the Contractor is not obliged to complete the same, but shall be paid for such incomplete holes at contract rates for the completed footage.
3. Contractor will supply all necessary equipment, board and transportation for his crew.
4. Contractor will supply a cat for preparing drill sites and moving the drill. Cost of this cat will be \$400.00 per month plus \$10.00 per hr. when it's in use.

B. THE COMPANY COVENANTS AND AGREES:

1. That payment for the herein described work shall be \$12.00 per foot for overburden and \$10.00 per foot for core drilling.
2. Cementing drill holes will be charged to the Company at cost plus 10%. Cost of labour being union rates. Cost of equipment rental during cementing will be \$20.00 per day.

H. ALLEN DIAMOND DRILLING LTD.

TELEPHONE 373-4494

P.O. BOX 1247
MERRITT, B.C.

----- 2 -----

Contract - Eureka continued.....

- B. 3. Casing which is non-recoverable will be charged to the Company.
4. Cost of moving man and equipment from Smithers and back again will be -
1. Trucking cost.
 2. One - 8 hr. shift for drill crew each way.
 3. \$200.00 moving expenses.

IN WITNESS WHEREOF these presents have been executed by the parties hereto this _____ day of _____ A.D. 1974.

NORANDA EXPLORATIONS CO. LTD.

[Signature]

H. ALLEN DIAMOND DRILLING LTD.

[Signature]

STATEMENT OF QUALIFICATION

I, Lyndon C. Bradish of the City of Vancouver, Province of British Columbia, do certify that:

1. I have been an employee of Noranda Exploration Company, Limited since May, 1973.
2. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geophysics.
3. I am a member of the Canadian Institute of Mining and Metallurgy.
4. I have held the position of Geophysicist for Noranda Exploration Company, Limited since May, 1973.



L. Bradish
L. Bradish
Geophysicist
Noranda Exploration Company,
Limited
(No Personal Liability)

STATEMENT OF QUALIFICATIONS

I, Brian Fairbank of the City of Vancouver, Province of British Columbia do certify that:

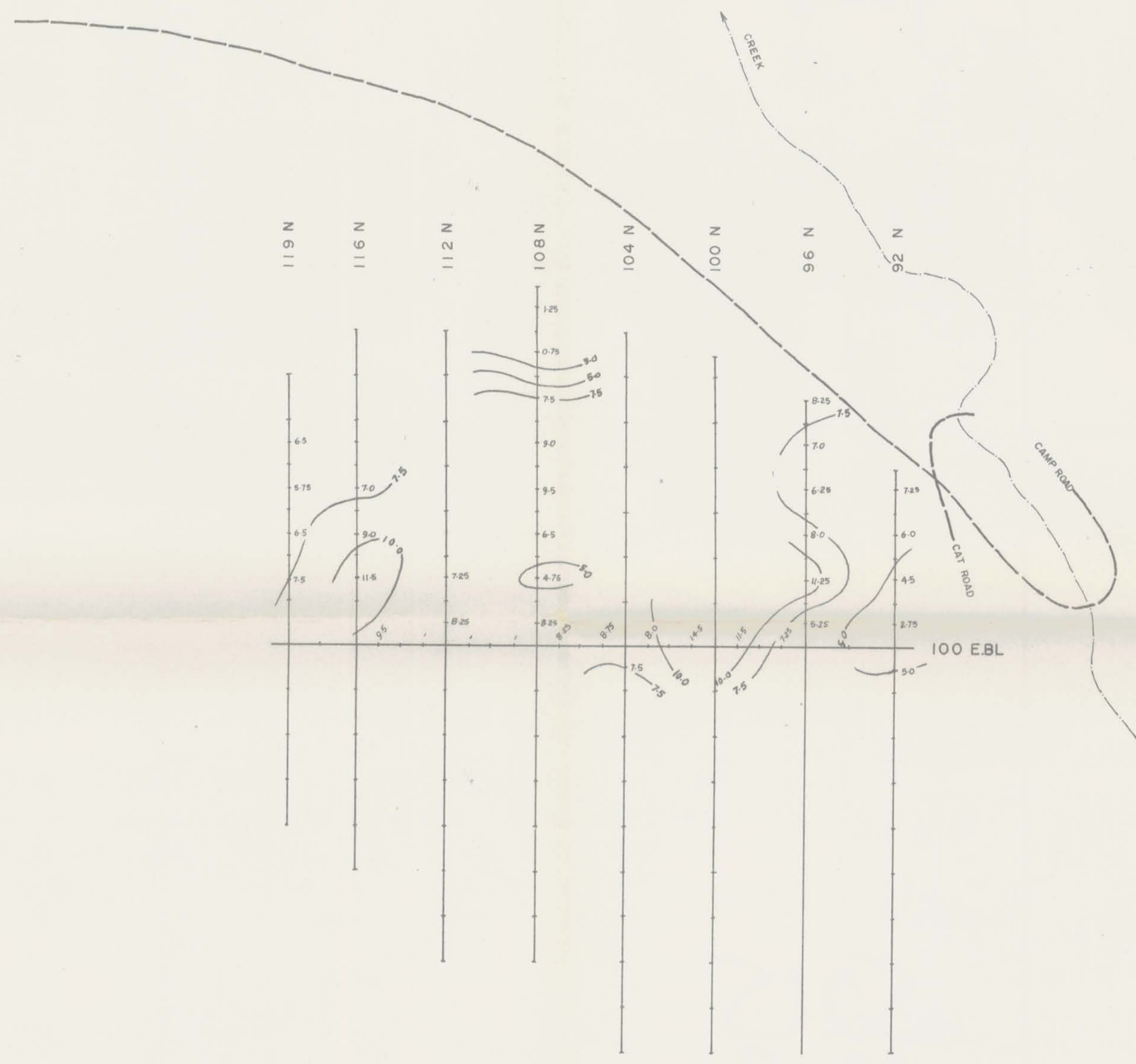
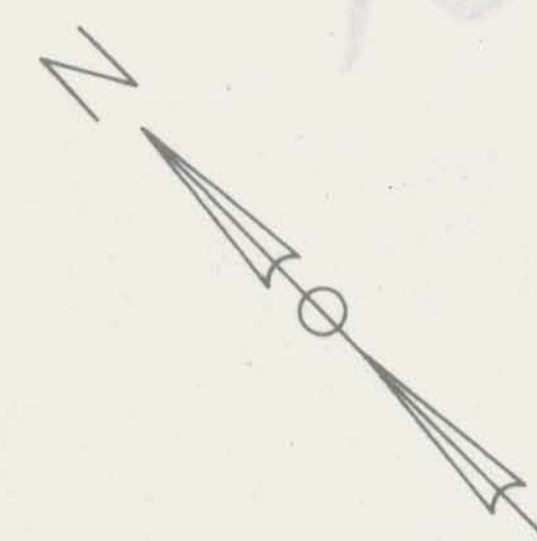
1. I have been employed as a geologist by Noranda Exploration Company, Limited since May, 1973.
2. I am a graduate of the University of British Columbia with a Bachelor of Applied Science in Geology (1973).
3. I am a member of the Canadian Institute of Mining and Metallurgy.



Brian Fairbank
Geologist

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

325
4



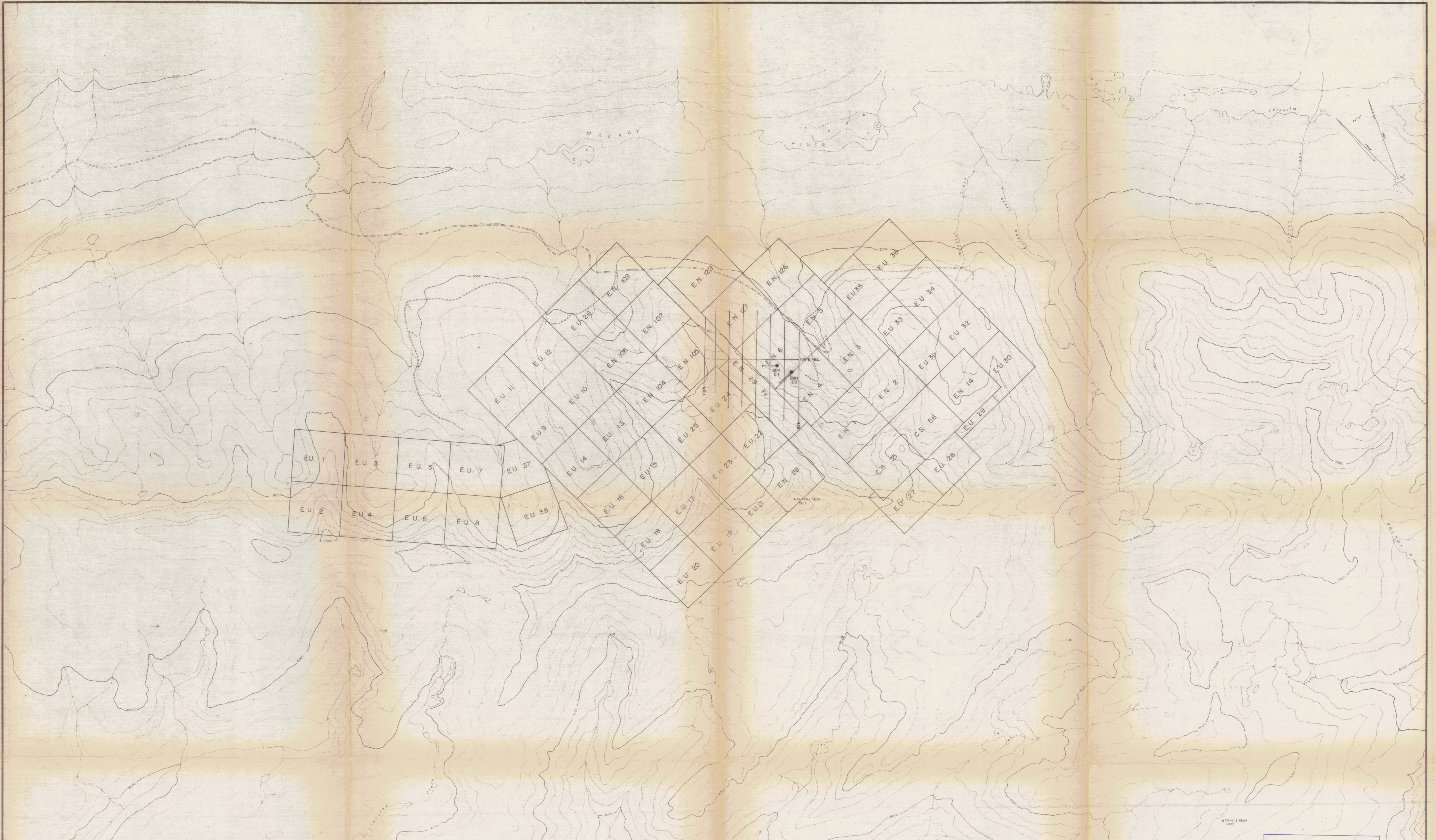
5215
M.2

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5215 MAP #2

TO ACCOMPANY ASSESSMENT REPORT BY L. BRADISH, GEOPHYSICIST, AND
B. FAIRBANK, GEOLOGIST, ON THE E.N. M.C.'S, CARIBOO MINING DIVISION, B.C.

L. Bradish B. Fairbank OCTOBER 22, 1974

REVISED	EUREKA
	I.P. SURVEY
	PERCENT FREQUENCY EFFECT
	Dipole - Dipole Array
	X = 400' N = 1
	F = 0.3 & 5.0 Hz
PROJ. No.	SURVEY BY: L. BRADISH & G. FENTON DATE: AUG. 1974
N.T.S. 93A/7E	DRAWN BY: L. BRADISH SCALE: 1" = 400'
DWG. No.	NORANDA EXPLORATION
I.P. 1	OFFICE VANCOUVER



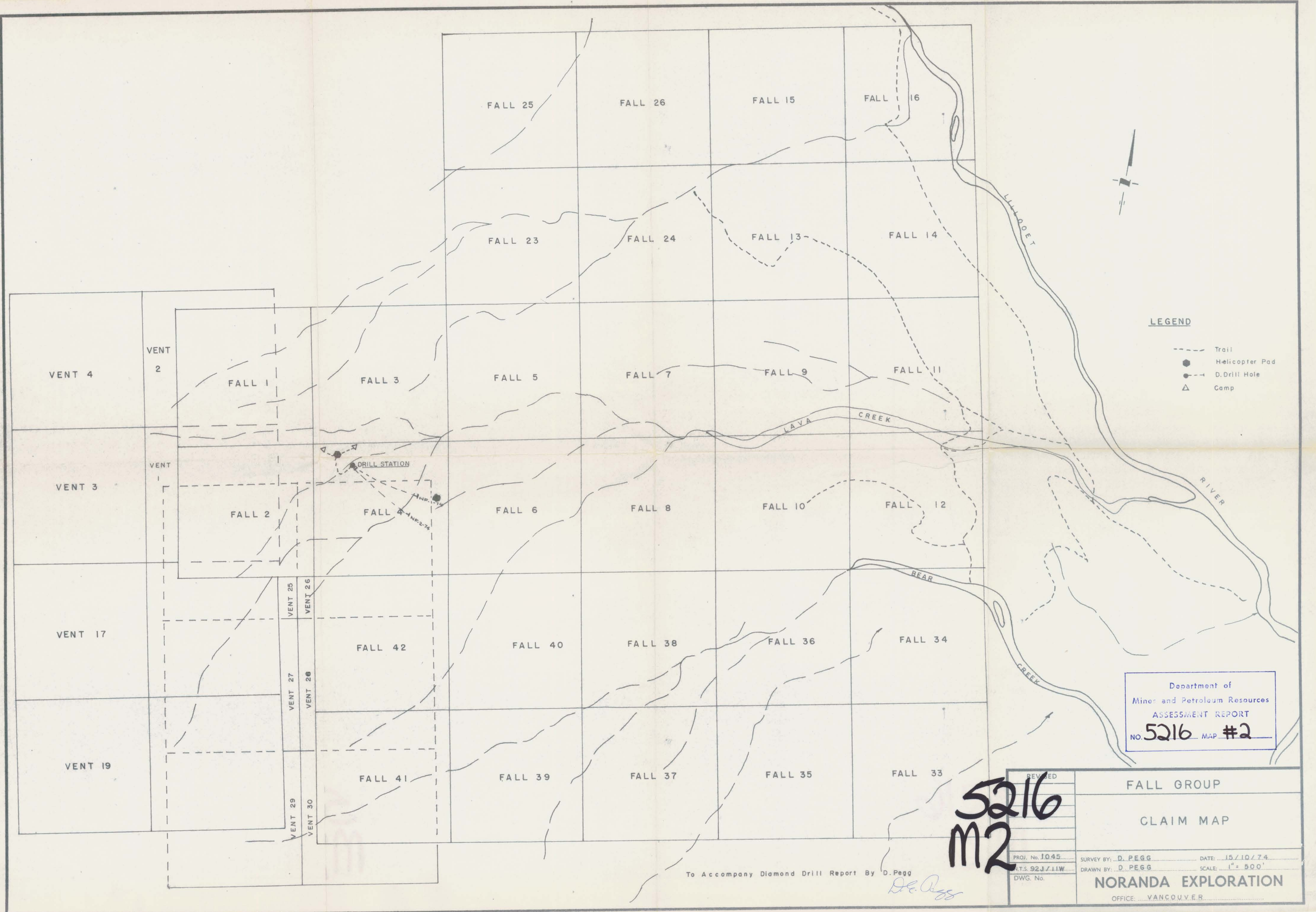
Department of
Mines and Technical Resources
ASSESSMENT REPORT
NO. 5215 MAP #1

5215
m 1

EUREKA PEAK COPPER PROSPECT
CARIBOO MINING DIVISION - BRITISH COLUMBIA
CLAIM MAP

PROJECT:	DATE: SEPT 5, 1974
SURVEYED BY:	SCALE: 1" = 1000'
DRAWN BY: J. van Vleet	
DWG. NO.	
NORANDA EXPLORATION CO. LTD.	
OFFICE: VANCOUVER	

TO ACCOMPANY ASSESSMENT REPORT BY L. BRADSHAW, GEOPHYSICIST, AND
B. FAIRBANK, GEOLOGIST, ON THE E.N.M.C.S., CARIBOO MINING DIVISION, B.C.
OCTOBER 22, 1974
L. Bradshaw
B. Fairbank



- LEGEND**
- Trail
 - Helicopter Pad
 - D. Drill Hole
 - △ Camp

Department of
 Miner and Petroleum Resources
 ASSESSMENT REPORT
 NO. **5216** MAP **#2**

5216
M2

REVISED	FALL GROUP	
	CLAIM MAP	
PROJ. No. 1045	SURVEY BY: D. PEGG	DATE: 15/10/74
PTS. 92J/11W	DRAWN BY: D. PEGG	SCALE: 1" = 500'
DWG. No.	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	

To Accompany Diamond Drill Report By D. Pegg
D. Pegg