

REPORT ON A
MAGNETOMETER SURVEY
ON THE
JOHN X CLAIMS,
SIMILKAMEEN MINING DIVISION,
BRITISH COLUMBIA
(MAP 92H/10 W)
49° 35' N, 120° 50' W

FOR
NORTHERN LIGHTS RESOURCES LTD.
(OPTIONOR OF CLAIMS FROM J. ABROSIMO, OWNER)

OPERATOR - NORTHERN LIGHTS RESOURCES LTD.
CONSULTANT - R.W. PHENDLER, P.Eng.

BY
R.W. PHENDLER, P.Eng.

DECEMBER 18, 1978

VANCOUVER, B.C.

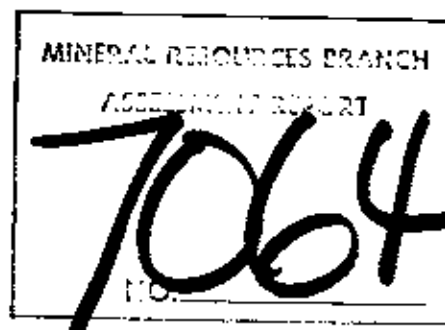
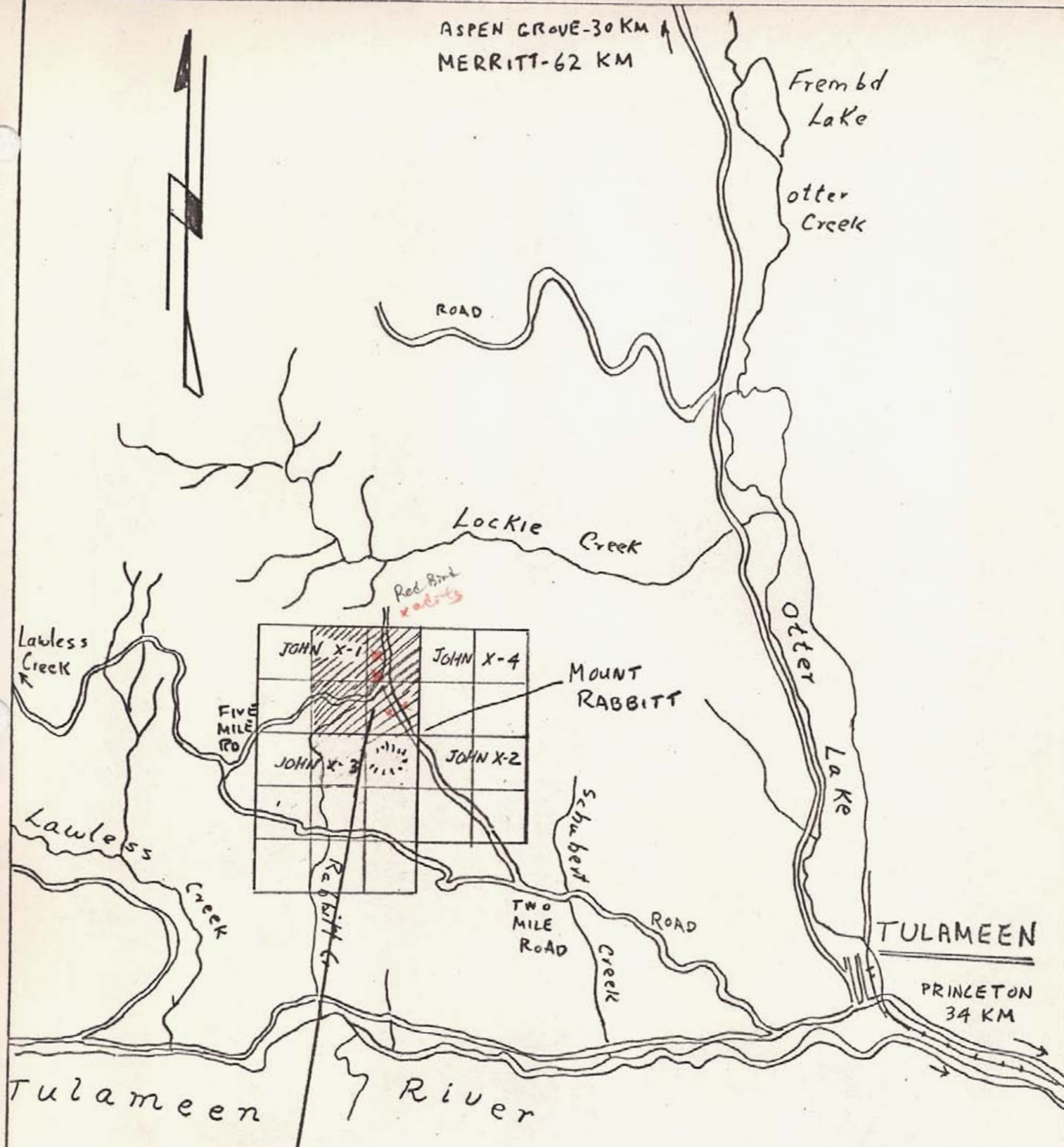


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ILLUSTRATIONS

FIG. 1	-	LOCATION MAP - JOHN X CLAIMS	-	1:50,000
FIG. 2	-	MAGNETOMETER RESULTS - JOHN X CLAIMS	-	1: 4,800



ASPEN GROVE-30 KM
MERRITT-62 KM

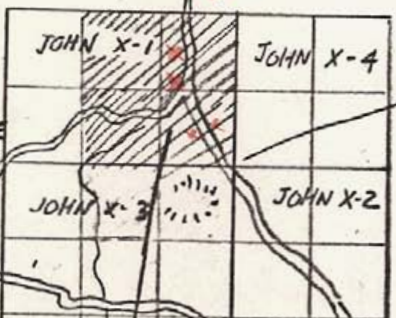
Fremont Lake

Otter Creek

ROAD

Lockie Creek

Red Bird
x marks



MOUNT RABBITT

Lawless Creek

FIVE MILE ROAD

Lawless Creek

Schubert Creek

TWO MILE ROAD

ROAD

TULAMEEN

PRINCETON
34 KM

Tulameen River

CLAIMS COVERED
BY MAGNETOMETER
SURVEY (fig 2)

NORTHERN LIGHTS RESOURCES LTD

LOCATION MAP-JOHN X CLAIMS
SIMILKAMEEN MINING DIV.
BRITISH COLUMBIA

R.W. Phendler
Dec 18



SCALE 1:50 000

DEC 1978

R.W. PHENDLER, P. ENG

Fig 1

zones, which are as much as seven meters wide but average 0.7 meters wide, is about 2%, with gold and silver values generally low (Geology and Mineral Deposits of the Princeton Map Area, British Columbia - H.M.A. Rice, Memoir 243, Geological Survey of Canada - 1960).

There is evidence of diamond drilling on the property, but no records are available.

In 1968 Copper Mountain Consolidated Ltd. held claims presently covered by the JOHN X-3 claim block. An induced polarization survey was carried out by Hunter Ltd., which detected an anomalous zone which strikes N-S for about 200 meters. Drilling was recommended but not done.

In 1973 a magnetometer, VLF-EM and geochemical survey was carried out over an area that coincides with the JOHN X-4 and JOHN X-2 claims. This work was done by Geotronics Ltd. and outlined the volcanic-granodiorite contact, but failed to outline any zones of magnetite concentrations, which are often associated with copper mineralization, i.e. Craigmont, Mattagami and Thompson, Manitoba.

The property is presently under option to Northern Lights Resources Ltd. from John Abrosimo of Princeton, B.C. Northern Lights carried out prospecting, road rehabilitation and some diamond drilling during 1978.

The Mount Rabbitt property (of which the JOHN X claims are a part) contains chalcopyrite mineralization within fracture zones and as rich pods and disseminations. The possibility exists that economic copper mineralization exists on the property and warrants further exploration. The geological setting is similar to the Similkameen copper deposit of Newmont Ltd. - i.e. fractured andesite with nearby granodiorite plugs.

About 14 kilometers of line were run by compass, chained and flagged and magnetometer readings recorded every 30 meters between September 16 and 20, 1978.

MAGNETOMETER SURVEY

Fourteen kilometers of flagged grid were established in sixteen north-south lines spaced sixty meters apart. Stations were established at 30 meter intervals on the cross lines (N-S) which were set off the east-west base line.

Magnetometer readings were first taken on the base line stations to establish them as base stations relative to a magnetometer base station located at base line 6+60E near the access road. Readings were then taken at the 30 meter stations on the north-south cross lines. The operator checked back to the base station every two or three hours to minimize the effect of diurnal variations. Adjustments were made (corrections) to readings according to the differences when crossing the base line stations each time.

Magnetometer readings were taken by R.B. Newton using a Sabre Vertical Intensity Magnetometer - Mark V. Mr. Newton calculated all corrected readings and plotted the results (fig. 2).

RESULTS

Magnetic values range from 367 to 474 gammas over the area covered with a weak area of higher values in the southwest quadrant (in excess of 450 gammas). This area is the scene of bulldozer trenching where disseminated pyrite and chalcopyrite were seen by the writer across a 5 meter width (assayed 1.64% Cu). The VLF survey carried out in 1973 outlined a weak anomaly in this area, and the Induced Polarization survey conducted in 1968 disclosed the presence of an area of high chargeability with readings 3 to 4 times background of 3.0 to 4.0 milliseconds. Diamond drilling is recommended in this area.


The general narrow range of values indicates that the host rock Nicola andesite volcanics are relatively homogeneous with no iron-rich intrusive dykes of any size present. If magnetite is associated with the known

chalcopyrite bearing veins or zones in the area of previous underground development, they are of insufficient width to be detected by the magnetometer. The values recorded represent the vertical component of the magnetic field and the readings in gammas are relative.

RECOMMENDATIONS

It is recommended that a combination detailed geochemical-magnetometer survey be conducted over the more favourable areas and that follow-up magnetometer work be done where reconnaissance geochemical work discloses the presence of copper soil anomalies.

Respectfully submitted,

R. W. Phendler, P. Eng.
R. W. Phendler, P. Eng.



Dec 18, 1978

QUALIFICATIONS

I, Roy William Phendler of the City of Vancouver in the Province of British Columbia, hereby certify as follows:

1. That I am a registered Professional Engineer in the Province of British Columbia, #4421.
2. That I am a graduate of McGill University, Montreal, Quebec, with a Bachelor of Science in Geology.
3. That I have practiced my profession as mine, exploration and consultant geologist continuously for the past twenty-six years throughout Canada, the U.S.A., Mexico, Peru, Colombia and Chile.
4. I have not received nor do I expect to receive any interest directly or indirectly in the JOHN X claims, nor do I own directly or indirectly any securities in Northern Lights Resources Ltd. or any affiliated companies.
5. That the information contained in this report was compiled as a result of my examination of the said property on September 16, 1978 during the time the magnetometer survey was conducted.

December 18, 1978

R.W. Phendler P.Eng.
R.W. Phendler, P.Eng.


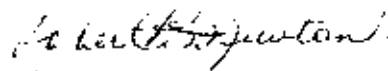
6017 Larch Street,
Vancouver, B.C.,
December 21, 1978

TO WHOM IT MAY CONCERN:

This is confirmation that I, Robert B. Newton, have, for the past six years, conducted field and exploration work for Northern Lights Resources Ltd. (N.P.L.) and Exel Explorations Ltd. (N.P.L.). Such work has consisted of scintillometer surveys, magnetometer surveys, geo-chemical surveys, sampling, trenching, claim-staking and diamond drilling. With a Bachelor of Arts in Geography to my credit, I meet many of the basic prerequisites associated with the mining industry, with studies in geology, geomorphology, mineralogy and cartography.

At all times, any work that I have done in the past has been under the supervision of a qualified mining engineer.

Dated this 21st day of December, 1978.



Robert B. Newton

STATEMENT OF EXPLORATION AND DEVELOPMENT EXPENSESPhysical

Supplies	
1 box dynamite	\$ 42.00
3 packages of fuses	22.50
Power chain saw - 3 days @ \$10.50/day	31.50
2 wheel drive truck - \$33/day, less 20%	79.00
Wages	
Slashing - 2 days - 10 hrs./day @ \$8/hr.	160.00
Repair washout - 2 days - 8 hrs./day @ \$8/hr.	128.00
Road clearing - 2 days - 8 hrs./day @ \$8/hr.	128.00
Fuel - truck, chainsaw -	10.00
General wages - 5 days @ \$100/day	500.00
	<u>\$1,111.00</u>

Geological Magnetic Survey

Wages - 10 days @ \$100/day	\$1,000.00
Truck rental	1,100.00
Room and board - 10 days @ \$70/day	700.00
Gasoline	95.00
Assaying and engineering	<u>300.00</u>
	<u>\$3,195.00</u>



Province of
British Columbia
Ministry of Mines and
Petroleum Resources

MINERAL ACT

RECEIVED
SEP 14 1978
VANCOUVER, B.C.

Statement of Exploration and Development

I, ROBERT B. NEWTON Agent for NORTHERN LIGHTS RESOURCES LTD
(Name) (Name)
6017 LARCH ST. 6017 LARCH ST.
(Address) (Address)
VANCOUVER B.C. VANCOUVER B.C.
Valid subsisting F.M.C. No. 165725 Valid subsisting F.M.C. No. 167318

STATE THAT

1. I have done, or caused to be done, work on the KEY CLAIM GROUP:
JOHN-X-1-84 JOHN-X-5-8 Mineral Claim(s)
Record No.(s) 116-119 (9) 164-166(1) 178 (12)
Situate at RABBIT MOUNTAIN in the SIMILKAMEEN Mining Division,
to the value of at least \$3015.00 dollars. Work was done from the 14 day
of SEPTEMBER 1978, to the 21 day of SEPTEMBER 1978.

2. The following work was done in the 12 months in which such work is required to be done:

(COMPLETE APPROPRIATE SECTION(S) A, B, C, D, FOLLOWING)

A. PHYSICAL (Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails)

(Give details as required by section 13 of regulations.)

	COST
SUPPLIES: 1 BOX DYNAMITE	42.00
3 PACKAGES OF FUSES	22.50
POWER CHAIN SAW - 3 DAYS @ \$10.50 / DAY	31.50
2 WHEEL DRIVE TRUCK - \$33.00 / DAY - LESS 20%	79.00
WAGES: SLASHING - 2 DAYS - 10 HRS / DAY @ \$8.00 / HR.	160.00
REPAIR WASHOUT 2 DAYS 8 HRS / DAY @ \$8.00 / HR.	128.00
ROAD CLEARING - 2 DAYS 8 HRS / DAY @ \$8.00 / HR.	128.00
FUEL - TRUCK, CHAIN SAW 5 DAYS @ \$100.00 / DAY	500.00
TOTAL PHYSICAL	\$1111.00

B. PROSPECTING (Details in report submitted as per section 9 of regulations.)
(The itemized cost statement must be part of the report.)

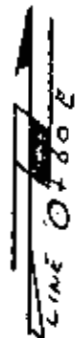
	COST
	1111.00
TOTAL PHYSICAL AND PROSPECTING	1111.00

I wish to apply \$ 1100.00 of this work to the claims listed below.

(State number of years to be applied to each claim and its month of record.)

1 YEAR APPLIED TO CLAIMS:
JOHN X-7, 1 UNIT, RECORD NO. 166(11)
JOHN X-8, 10 UNITS, RECORD NO. 178(12)

LINE 0100E



LINE 1120E

LINE 1180E

LINE 2+40E

LINE 3+00E

LINE 3+60E

LINE 4+20E

LINE 4+80E

LINE 5+40E

LINE 6+00E

LINE 6+60E

LINE 7+20E

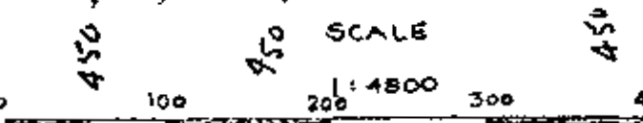
LINE 8+00E

LINE 8+60E

LINE 9+20E

TRUCK ROAD.

.420	.414	.431	.442	.436	.404	.419	.481	.411	.411	.449	.396	.416	.428
.433	.428	.439	.436	.436	.412	.431	.388	.406	.425	.432	.413	.407	.417
.427	.429	.436	.439	.434	.423	.437	.399	.398	.424	.420	.412	.387	.421
.407	.440	.448	.433	.433	.430	.427	.424	.418	.406	.395	.398	.418	.418
.411	.438	.454	.436	.441	.424	.440	.432	.410	.387	.378	.385	.390	.423
.412	.427	.457	.443	.444	.417	.438	.432	.423	.372	.404	.380	.407	.428
.428	.432	.467	.441	.438	.418	.431	.419	PORTAL #2 405+2.417		.426	.415	.415	.430
.429	.442	.462	.441	.432	.426	.422	.425	.402	.408	.440	.414	.423	.426
.427	.425	.462	.438	.439	.425	.425	.426	.413	.428	.428	.408	.414	.426
.444	.421	.450	.447	.430	.408	.407	.421	.413	.430	.418	.390	.396	.427
.416	.401	.457	.452	.418	.410	.396	.426	.418	.419	.422	.386	.400	.416
.450	.398	.415	.448	.424	.397	.387	.426	.418	.450	.430	.407	.380	.440
.441	.417	.442	.437	.430	.416	.418	.431	.408	.445	.417	.411	.413	.367
.437	.409	.446	.440	.427	.407	.412	.428	.410	.419	.398	.420	.403	.407
.442	.415	.438	.437	.422	.413	.426	.432	.401	.421	.392	.423	.377	.407
E LINE 446	.427	.448	.437	.436	.417	.422	.434	PORTAL #1 432+1.412		.399	.418	.392	.407
460	.438	.432	.450	.449	.452	.433	.439	.420	.412	.432	.398	.403	
458	.443	.446	.458	.452	.458	.445	.442	.429	.397	.401	.402	.407	
462	.447	.443	.459	.446	.443	.440	.420	.428	.397	.410	.406	.416	
471	.433	.456	.464	.441	.448	.457	.425	.416	.436	.403	.415	.411	
463	.449	.462	.462	.453	.437	.449	.422	.420	.406	.418	.407	.400	
457	.436	.452	.454	.455	.419	.454	.432	.426	.406	.410	.389	.403	
459	.451	.448	.433	.438	.437	.457	.406	.428	.405	.412	.404	.419	
443	.450	.454	.464	.451	.437	.453	.390	.421	.420	.417	.410	.430	
445	.444	.460	.458	.454	.438	.440	.397	.415	.414	.402	.408	.412	PORTAL #3
439	.453	.457	.454	.452	.446	.447	.389	.418	.424	.405	.420	.414	
447	.457	.443	.440	.448	.458	.446	.407	.427	.429	PORTAL #4 423+4.418	.413	.413	
444	.462	.451	.454	.457	.430	.438	.401	.422	.428	.418	.412	.408	TWO-MILE ROAD
442	.461	.451	.442	.450	.449	.451	.398	.413	.433	.410	.388	.400	
433	.458	.448	.460	.452	.450	.440	.421	.419	.428	.398	.421	.401	TULAMEEN 4 KM
437	.464	.460	.461	.459	.474	.452	.414	.436	.425	.410	.420	.401	PRINCE 40 KM
4	.454	.462	.459	.458	.459	.420	.402	.425	.422	.412	.420	.406	



NORTHERN LIGHTS RESOURCES LTD

MAGNETOMETER SURVEY, JOHN X CLAIMS
SIMILKAMEEN MINING DIV.
BRITISH COLUMBIA



R. W. PHENDLER, P. ENG
UNITS in gammas
SURVEY BY R. NEWTON.

Fig 2