

Geological Report

on the

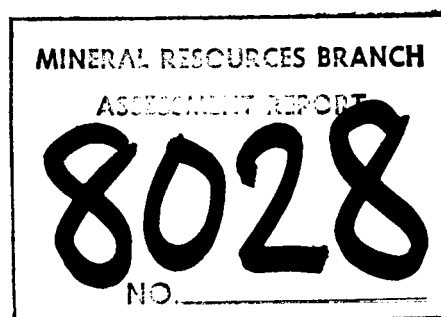
SUNNY CLAIM

for

JOCELYN RESOURCES LTD.

Kamloops M.D.

92 I 9W



November 13, 1979  
Vancouver, B.C.

L. Sookochoff, P.Eng.  
Consulting Geologist

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ILLUSTRATIONS

	<u>Scale</u>
LOCATION AND CLAIM MAP	1 : 50,000
FORMER EXPLORATION RESULTS	1 : 6,000

Geological Report

on the

SUNNY CLAIM

Part A

SUMMARY AND CONCLUSIONS

The Sunny Claim is situated along the southwestern edge of the Iron Mask - Nicola Volcanic contact, 10 km south of Kamloops B.C.

The Iron Mask Batholith is host to a number of copper-gold-silver showings which have been explored to varying degrees. Former producers include the Iron Mask Mine, 10 km to the northwest from which five million pounds of copper in addition to gold and silver were produced.

The Afton Mine located 13 km northwest at the site of old exploratory workings, is presently producing from a 30 million ton orebody containing one percent copper.

The old Fargo workings located within one km north of the Sunny claim include two shallow shafts from which "one carload of ore running about two percent copper and 0.06 ounces of gold per ton is reported to have been made".

Former exploration on a portion of the ground covered by the Sunny claim disclosed a weak I.P. anomalous zone which coincides with high copper geochem values.

The anomalous zones are located along the southern portion of the property and are open to the north.

It is concluded that the Sunny Claim covers a geologically favorable area for the containment of copper-gold-silver mineral zones. The results of previous exploration are encouraging to this effect.

An exploration program is warranted to delineate prime anomalous target areas that would be tested for sub-surface mineralization.

RECOMMENDATIONS

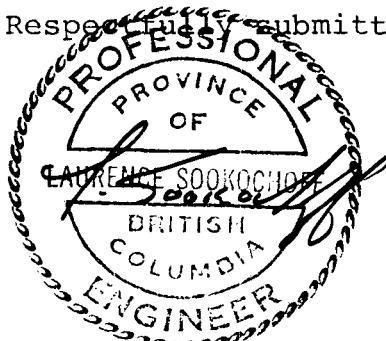
It is recommended that a three stage exploration program be carried out on the Sunny claim.

The initial stage should consist of geological mapping in conjunction with an E.M. survey and is estimated to cost \$7,500.00

Stage II would be comprised of a Geochemical survey in addition to an I.P. survey the results of which would be correlated with all previous exploration data to determine prime target areas for the Stage III program of test drilling.

It is recommended that Jocelyn Resources Ltd. allocate \$37,500.00 to initiate and execute the recommended exploration program.

Respectfully submitted



November 13, 1979  
Vancouver, B.C.

Laurence Sookochoff, P. Eng.  
Consulting Geologist

Geological Report

on the

SUNNY CLAIM

Part B

INTRODUCTION

This report was prepared for Jocelyn Resources Ltd., the purpose of which is to evaluate the geological potential of the property for the location of economic mineralization and to recommend an exploration program thereon.

Information on the property and general area was obtained from pertinent government publications, from assessment reports and from a property examination carried out on October 23, 1979.

PROPERTY

The property is comprised of one claim of nine units.  
Particulars are as follows:

<u>Claim Name</u>	<u>Record No.</u>	<u>Expiry Date</u>
Sunny	1798	April 1980

The L.C.P. of the Edith claim was checked by the writer.

Any legal aspects of the claim are beyond the scope of this report.

LOCATION AND ACCESS

The claim is located 10 km south of Kamloops and covers Edith Lake.

Access is provided via a secondary road branching off to the south at Knutsford. The Edith Lake cut-off is taken to the west for three and one half km to the claim.

WATER AND POWER

Sufficient water for all phases of the exploration program would be available from lakes and streams covered or in the immediate area of the property.

Commercial power sources would be available from within 10 km.

TRANSPORTATION AND SUPPLIES

Railroad facilities are available in Kamloops where all supplies would be obtainable. Kamloops is served daily by Pacific Western Airlines from Vancouver.



### AREA HISTORY

The Kamloops area has been explored for copper-gold-silver since the turn of the century. Scattered occurrences of mineralization occur within a band of Nicola rocks stretching from Kamloops to the south of Princeton. Production from ore zones within the Nicola series occur at Princeton and at Merritt. However near Kamloops, the Iron Mask Batholith is of greater geological significance as the more significant mineral occurrences found to date are located within this intrusive.

The Iron Mask Mine - a former producer is located within the Iron Mask Batholith 10 km to the northwest. The producing Afton Mine is 13 km to the northwest.

On the Sunny claim former exploration work included the following:

1. In 1970 a geochemical survey carried out by Erin Explorations Ltd. which included the southern three units of the Sunny claim, a 700 meter wide northwesterly trending anomalous copper geochem zone was delineated along the central unit. Values within this anomaly ranged up to 200 ppm Cu in a Background of 52 ppm Cu. A 1972 I.P. survey over the same area disclosed a weak chargeability anomaly (approximately three times background) which was concluded to coincide with high copper geochemical values (of the 1970 survey).

2. In 1973, Plaza Resources Ltd. completed a geochemical survey on ground adjacent to the Sunny claim on the west and north. Spotty anomalous copper values up to 324 are indicated within 20 meters north along the northern boundary from the northwest corner of the Sunny claim.

Former workings on the Fargo Group within one kilometer of the northern boundary of the Sunny claim include two shallow shafts from which "one carload of ore running about 2 percent copper and 0.06 ounces of gold a ton is reported to have been made".

GEOLOGY

The property lies along the eastern boundary of a north-south arcuate trending band of Nicola rocks extending from Princeton in the south through Merritt and beyond Kamloops Lake to the north. Peripheral rocks are predominantly intrusives in addition to cappings of younger sediments and volcanics. Stacks and plugs of intrusives occur throughout the Nicola band.

Numerous mineral occurrences - predominantly copper with gold and silver values - occur within the Nicola rocks of Upper Triassic sediments and volcanics. The Similkameen deposit in Princeton and the Craigmont deposit at Merritt occur within Nicola rocks and are associated with intrusives.

Adjacent and to the north and east of the Sunny claim is the Iron Mask Batholith with which are associated a number of significant mineralized zones.

The Iron Mask Mine which was worked to around 1930 produced some five million pounds of copper in addition to gold and silver.

Recently, Afton Mines has placed a property in production at the northwest end of the Iron Mask Batholith. The ore body reportedly contains 30 million tons of 1% Cu.

In the Jacko Lake area, five km to the northwest, Cominco has reportedly blocked out a zone of copper mineralization within the Iron Mask intrusive.

The Sunny claim according to geological map 886 A is indicated to cover a Nicola-Iron Mask northwesterly trending contact zone.

Old trenches on a mineralized zone just north of the Sunny claim indicate a mineral zone to trend southerly to the property. The trenching is on the former Fargo group where the showings reportedly consist of veins in the Iron Mask diorite.

RECOMMENDED EXPLORATION PROGRAM

A three stage exploration program is recommended. The first stage should be comprised of an E.M. survey to locate potential structures for the localization of mineralization. In conjunction with the E.M. survey, geological mapping would be carried out to determine surficial controlling structural and geological features and to aid in the interpretation of geophysical and/or geochemical field data.

The second stage would be comprised of a geochemical survey which would be correlated with previous information to establish prime exploration targets. The selected areas would be covered by an I.P. survey to determine specific drill targets.

The third stage would consist of a percussion or diamond drill program.

ESTIMATED COST OF RECOMMENDED EXPLORATION PROGRAM

Stage I

E.M. Survey		\$2,500.00
Geological Mapping		2,500.00
Field Expense, assays etc.		1,000.00
Engineering and Supervision		<u>1,500.00</u>
		\$7,500.00

Stage II

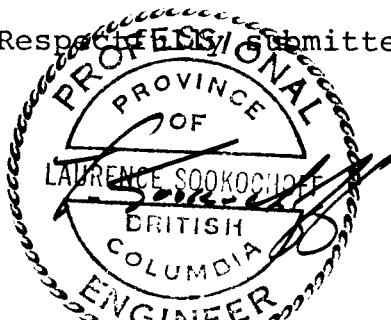
Geochemical Survey	allow	\$3,500.00
I.P. Survey	allow	3,500.00
Field expenses etc.		1,000.00
Engineering and Supervision		<u>2,000.00</u>
		\$10,000.00

Stage III

Test drilling	allow	\$20,000.00
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The first stage of the program is estimated to take one month to complete.

Respectfully submitted



November 13, 1979  
Vancouver, B.C.

Laurence Sookchoff, P.Eng.  
Consulting Geologist

REFERENCES

COCKFIELD, W.E. - Geology and Mineral Deposits of Nicola Map-Area, British Columbia Memoir 249 G.S.C.

BRUSSET, R.U. - Assessment Report Percussion Drilling, Wildrose Mineral Claim. Edith Lake Area, Kamloops M.D. September 10, 1978 Assessment Report No. 6991

STADNYK, M.P. - Report on a Geochemical Survey on ACE, MOT Mineral claims, Edith Lake, British Columbia for Erin Explorations Ltd., February 19, 1971. Assessment Report No. 2871

TULLY, D.W. - Report on a Geochemical Survey of the Rose claims for Plaza Resources Ltd., January 1973

WHITE, G.E. - Geophysical Report on an Induced Potential Survey on behalf of Erin Explorations Ltd. (N.P.L.) Mot claim group. April 27, 1972. Assessment report No. 4018

CERTIFICATE

I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify:

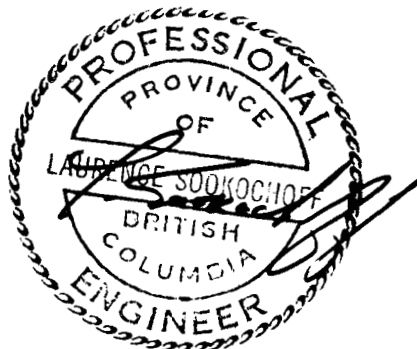
That I am a Consulting Geologist with the firm of Pan-American Consultants Ltd. of 2602-1055 West Georgia Street, Vancouver, B.C.

I further certify that:

1. I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology.
2. I have been practising my profession for the past thirteen years.
3. I am registered with the Association of Professional Engineers of British Columbia.
4. The information for the accompanying report is based on pertinent government publications, assessment reports as cited under references and from a property examination carried out on October 23, 1979
5. Neither I or Pan-American has direct or indirect interest in the property described herein, or in the securities of Jocelyn Resources Ltd.

:  
Laurence Sookochoff, P.Eng.  
Consulting Geologist

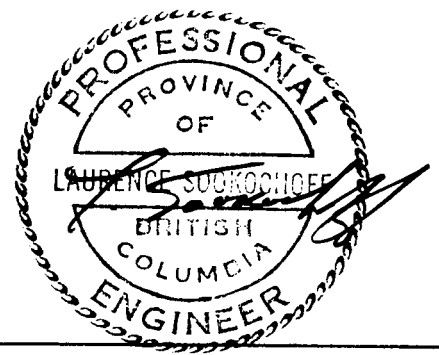
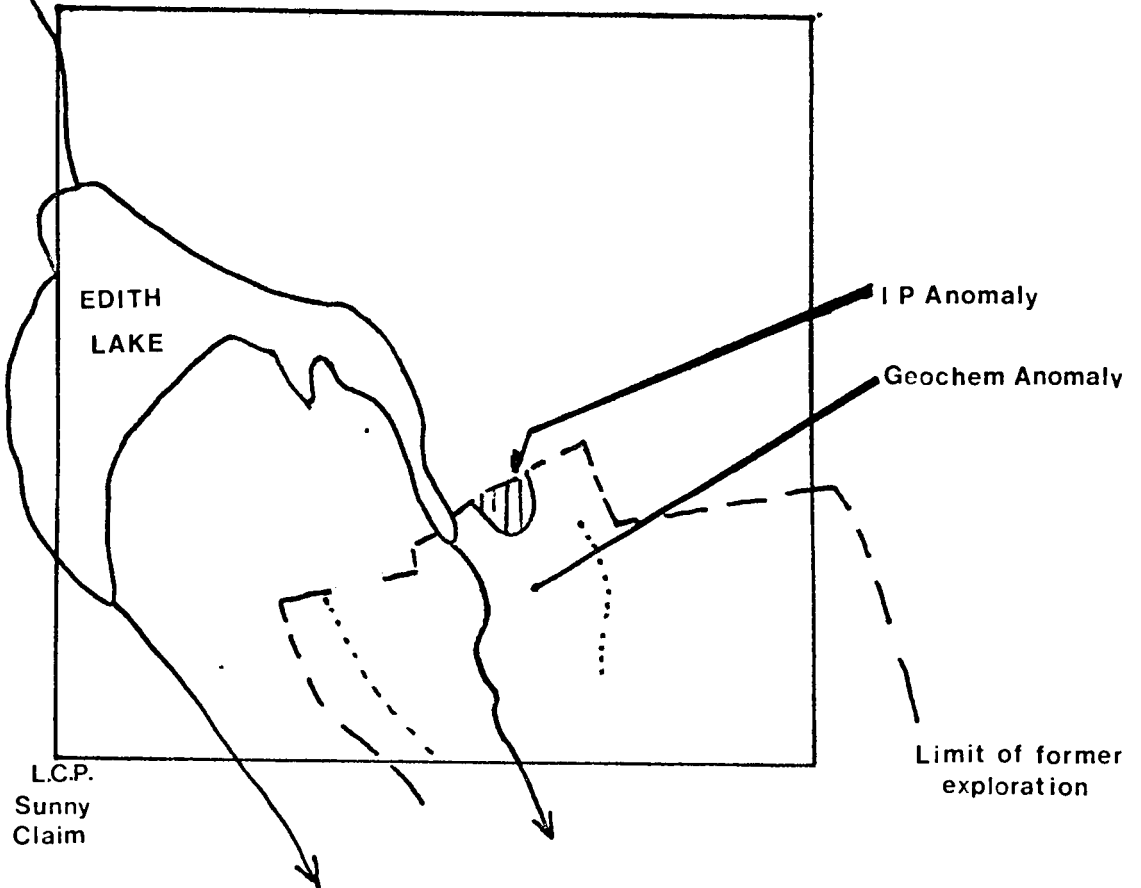
November 13, 1979  
Vancouver, B.C.







**X** FARGO  
Showings



**JOCELYN RESOURCES LTD.**

Edith Lake Property

Kamloops M.D.

FORMER EXPLORATION  
RESULTS

Scale 1:6000

November 1979

APPENDIX I

STATEMENT OF COST

Expenses incurred on the Sunny mineral claims between October 22, 1979 and October 23, 1979.

Personnel and Salaries.

L. Sookochoff P.Eng., 2602-1055 West Georgia St., Vancouver B.C.

2 man days @ \$200.00 per day .....	\$400.00
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Room and Board

2 man days @ \$40.00	80.00
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Transportation

4x4 rental, 2 days @ \$40.00	80.00
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Report Preparation and Drafting

750.00

1310.00

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This work is to be applied for one years assesment on the Sunny mineral claims.