

Geological Summary Report

of

Webster 1 and 2, Mineral Claims

Omineca Mining Division, NTS 93L/6E

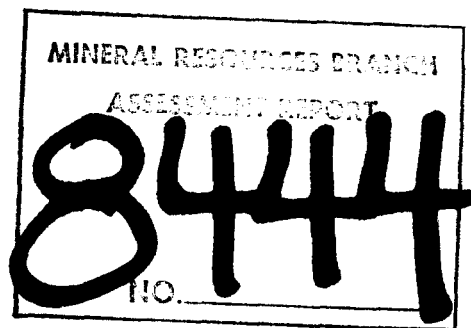
54°29' N 127°10' W

OWNER: Redfern Resources Ltd.

OPERATOR: Redfern Resources Ltd.

by

J.M. Kenyon



Richmond, B.C.

October 24, 1980

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Introduction:

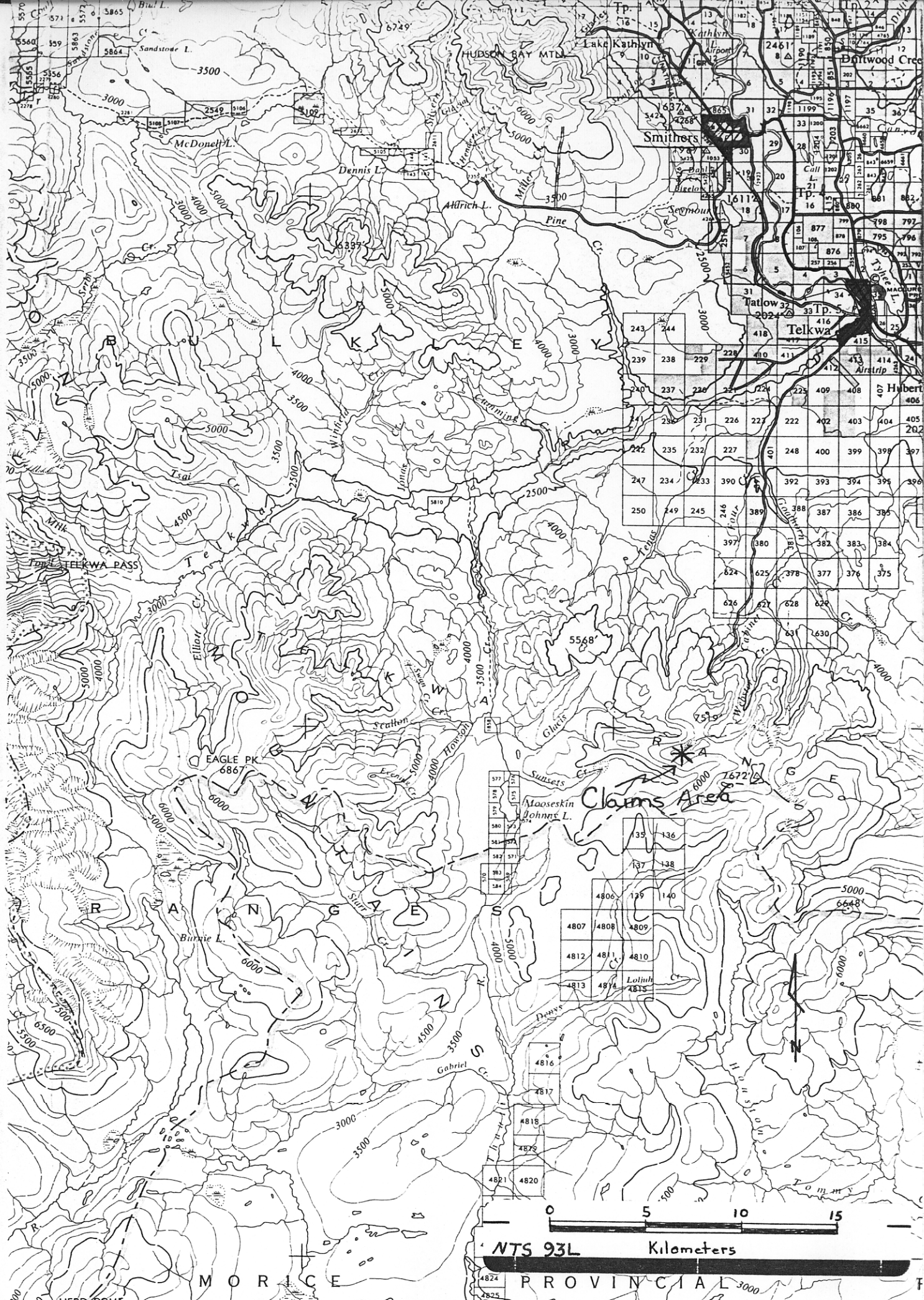
Within the Month of July, 1980 personnel of the Canadian Nickel Company Limited performed a property examination and minor check sampling of the porphyry molybdenum potential of scattered areas of the Webster 1 and 2 mineral claims. Four geologists spent one day examining the area and collecting samples with information and results forwarded to Redfern Resources Ltd.

Previous Work:

Literature searches indicate that the area was originally explored in the mid-1960's by Noranda Mines Ltd. and subsequently optioned to Whitesail Mines Ltd. in 1968. Work conducted by Whitesail Mines Ltd. as outlined in assessment report 1922 included geological mapping, geochemical surveys and geophysical surveys culminating in the drilling of two short diamond drill holes. The property claims were allowed to expire apart from two claims now held by Lacana Mines Ltd. Redfern Resources Ltd. acquired the bulk of the area by staking in November of 1979.

Location and Access:

The property is located approximately 35 kilometers due south of Smithers and approximately 10 kilometers east of Mooseskin Johnny Lake. The co-ordinates of the center of the claim group are $54^{\circ} 29'$ latitude and $127^{\circ} 10'$ longitude. Access of the area is entirely by helicopter from the town of Smithers (Map 1), although a rough road extends to within 5 kilometers of the northern end of the claim group.



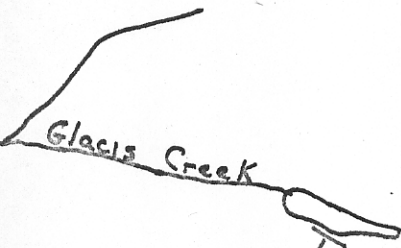
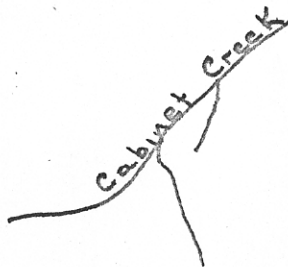
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0 5 10 15 Kilometers

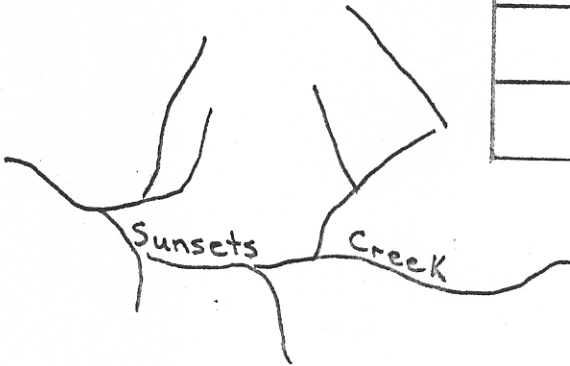
NTS 93L

PROVINCIAL

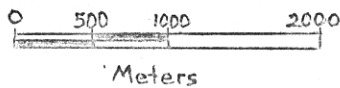
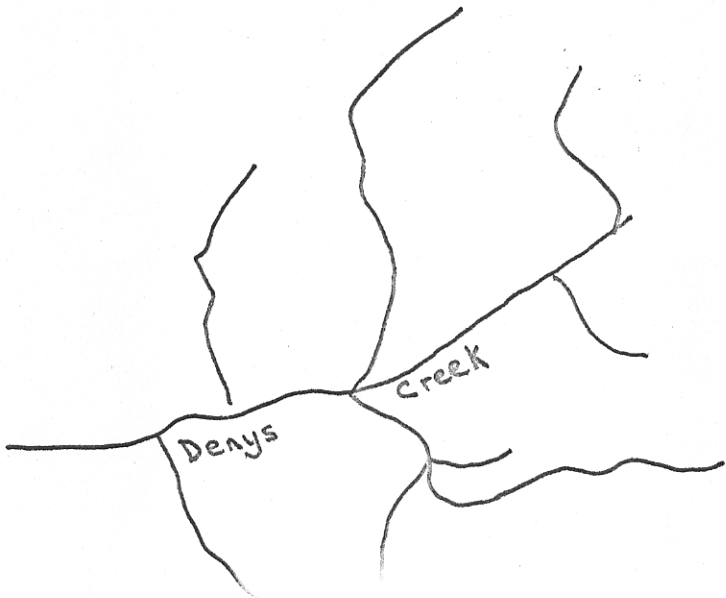


TELKWA

Webster 2 2308(11)		Webster 1 2307(11)	
SL 15			SL-6



RANGE



GEOLOGY

General:

The Webster claims cover a granitic stock of the Telkwa Range intrusions which in this region intrude principally volcanic pyroclastic rocks of the upper Hazelton Group (G.S.C. open file 351). In this area it is probable that the Hazelton volcanic tuffs and flow rocks were deposited under shallow water to subaerial conditions as evidenced by their generally purple color. Regional faulting is generally in complimentary north-east and northwest directions and locally, normal faults are often tangential to pluton margins.

Local:

The granitic stock covered by the Webster claims has been reported on previously in assessment report 1922 and was well-mapped and described by A. Sutherland Brown in 1967 (BCDM Ann. Report 1967 pp. 97-100). The following geological description incorporates much of the information contained in those reports supplemented by additional detailed observations.

It is apparent that the granitic stock, host to molybdenite mineralization, is an epizonal quartz monzonite body whose intrusion has produced a domal effect in the surrounding Hazelton volcanics. The volcanics consist of various fragmental tuffs with minor intercalated flow rocks which have been moderately to intensely hornfelsed as the intrusive margin is approached. In restricted locales, volcanic rocks have been skarnified at the pluton contact with formation of calc-silicate minerals and garnet with or without addition of metallic components.

The pluton itself is predominantly a quartz monzonite granitoid although some areas show a moderate porphyritic character with scattered 15 mm feldspar phenocrysts. Quartz averages 20% of the rock and the mafic component constitutes both biotite and hornblende of nearly equal proportions totalling approximately 15%. Pyrite accounts for 1% or less of the quartz monzonite, although oxidation producing discolouration of the stock would tend to suggest a larger original pyrite content.

Mineralization and Alteration:

Porphyry-type Mo(Cu) mineralization is the chief source of interest on the claim group although chalcopyrite and magnetite mineralization within skarn areas has not been explored. The stock shows a slight rusty brown color due to oxidation of pyrite which increases in intensity toward the contact with the volcanic rocks. Hydrothermal alteration patterns produced within the central area of the stock include pervasive argillic alteration from breakdown of feldspar and widely-spaced sub parallel quartz veins. Veins are approximately 2-5 cm wide and contain pyrite, chalcopyrite and molybdenite. Two quartz-sericite alteration zones, each about 200 meters in diameter, contain abundant pyrite in joints and fracture zones. Visible molybdenite appears minor although it is probable that weathering and oxidation may have removed much of this component, as suggested by total Mo assays. Potassic alteration occurs at a lower vertical level beneath the quartz-sericite zones as suggested by pink feldspar alteration envelopes along fractures and quartz veins. Some internal faulting within the stock has taken place where shear zones contain molybdenite.

Sampling:

Nine spot check grab samples of various alteration zones and quartz stockwork zones were taken in an attempt to define the upper and lower limits of molybdenum content. The rock samples were submitted to Acme Analytical Laboratories of Vancouver and analyzed for copper and total molybdenum content by atomic absorption spectrometry after hydrochloric and nitric acids digestion of the pulverized sample. The sample locations are illustrated on the geology map (in pocket) and the assay results are listed in Table 1 appended.

The assay results indicate widespread molybdenum values within the more favourable alteration zones, and low values within areas solely characterized by argillic alteration. Copper assays are uneconomic in themselves. From the limited data collected, it would appear that there is a reasonable expectation of finding areas of higher grade mineralization.

Conclusions and Recommendations

A well developed porphyry-type alteration sequence is imposed upon a quartz monzonite plug covered by the Webster claims. Molybdenum mineralization is associated with quartz-sericite alteration zones and to a lesser extent with sub parallel quartz veins.

Some previous geochemical sampling indicates a wide area of anomalous molybdenum in soils. It is apparent that the soils correlate at least in part with mineralized zones as reported in the assay table. It is recommended that the previous soil grids be extended to cover the intrusive and an I.P. survey should be completed to outline targets for subsequent drill consideration.

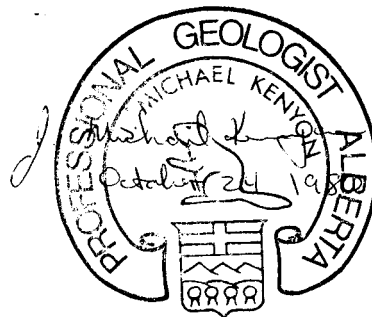


Table 1Rock Sample Assay Results

<u>Sample No.</u>	<u>%Mo</u>	<u>%Cu</u>	<u>Remarks</u>
1	.645	.08	qtz-sericite alt.
2	.025	.04	
3	.015	.03	qtz-sericite alt.
4	.009	.02	
5	.102	.01	grab from pit area
6	.002	.02	
7	.003	.11	shear zone
8	.003	.01	good argillic alt.
9	.252	.01	.5 m channel

Examination Costs

<u>Personnel</u>	<u>Date</u>	<u>Cost</u>
P. Peto, D. Dillon, D. Arndt P. Magnussen	July 3, 1980 at \$125/man/day	\$ 500.00
Meals and Accommodation at \$40/man/day		\$ 160.00
Helicopter at 1 hour at \$405/hr.		\$ 405.00
Assays - 9 samples at \$11.75/sample		\$ 105.75
Report Preparation		<u>\$ 150.00</u>
		<u><u>\$1,320.75</u></u>

Statement of Qualifications

Name: J. M. Kenyon

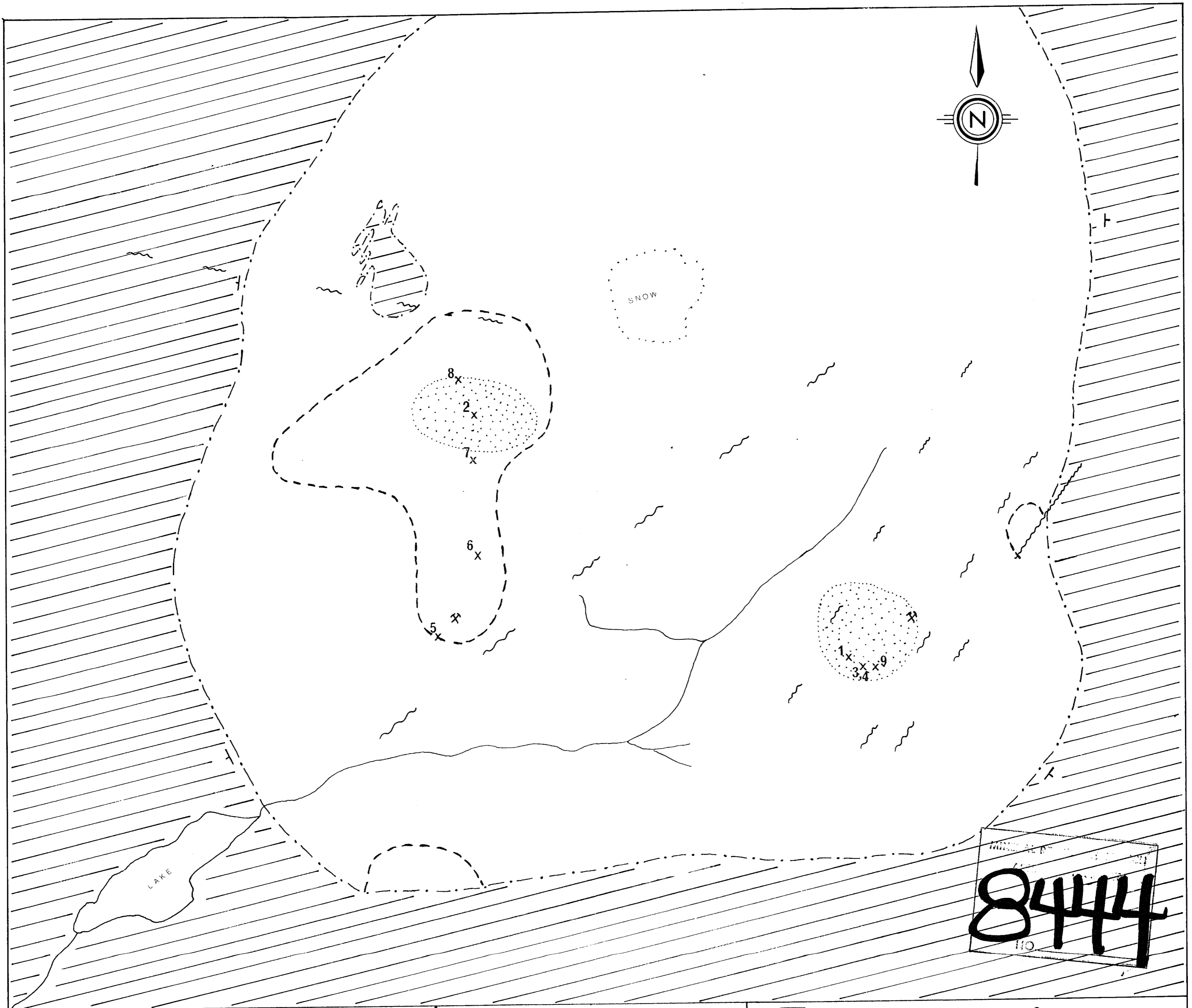
Profession: Geologist






Education: University of Alberta - B.Sc. 1974 - Geology
- M.Sc. 1978 - Geology

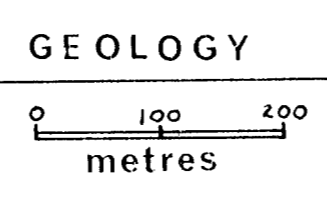
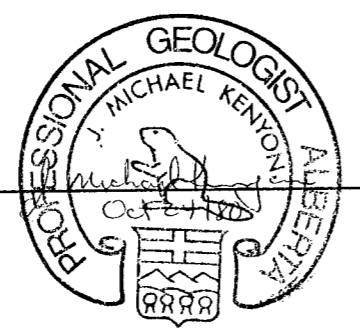
Professional Affiliation: Member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.





Experience: 1969 to 1978 - Seasonal exploration employment for various mining companies throughout Western Canada.

Interest: I am a Director of and a geologist for Redfern Resources Ltd. and therefore have a direct interest in the properties owned by Redfern Resources Ltd.



-  shear
-  fault
-  trench
-  sample location
-  geologic contact



-  Quartz Monzonite
-  Hazelton Volcanics
-  quartz-sericite alteration
-  pyritic zone