

2239

GEOCHEMICAL SURVEY
of

FKE 1-13, 15, 17, 19
NRG 1-34

18 Miles SSE of Houston, B.C.
54° 126° S.E.

Report By
A.S. Ashton, P. Eng.
Under Supervision of
A.R. Bullis, P. Eng.
for
MARK V MINES LTD. (N.P.L.)
October 30 - November 13, 1969

Mining Recorder's Office RECORDED
FEB 28 1970
AT..... SMITHERS, B.C.

TABLE OF CONTENTS

	<u>Page</u>
SUMMARY	1
INTRODUCTION	2
LOCATION & ACCESS	2
#1/LOCATION MAP	2-A
PROPERTY	3
TOPOGRAPHY & CLIMATE	3
GENERAL GEOLOGY	4
GEOCHEMICAL SURVEY	5
ASSESSMENT OF RESULTS	6
CONCLUSIONS	7
PROGRAMME PERIOD	8
COSTS	9
CERTIFICATE OF QUALIFICATIONS	Rear
#2 GEOCHEMICAL MAP	Rear Pocket

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 2239 MAP
--

SUMMARY

This report covers a limited geochemical survey carried out on a block of 50 Claims held by Mark V Mines Ltd. (N.P.L.), on and adjoining Goosly Lake in the Omineca Mining Division of central British Columbia. The geochemical results are inconclusive and further use of this approach is not recommended.

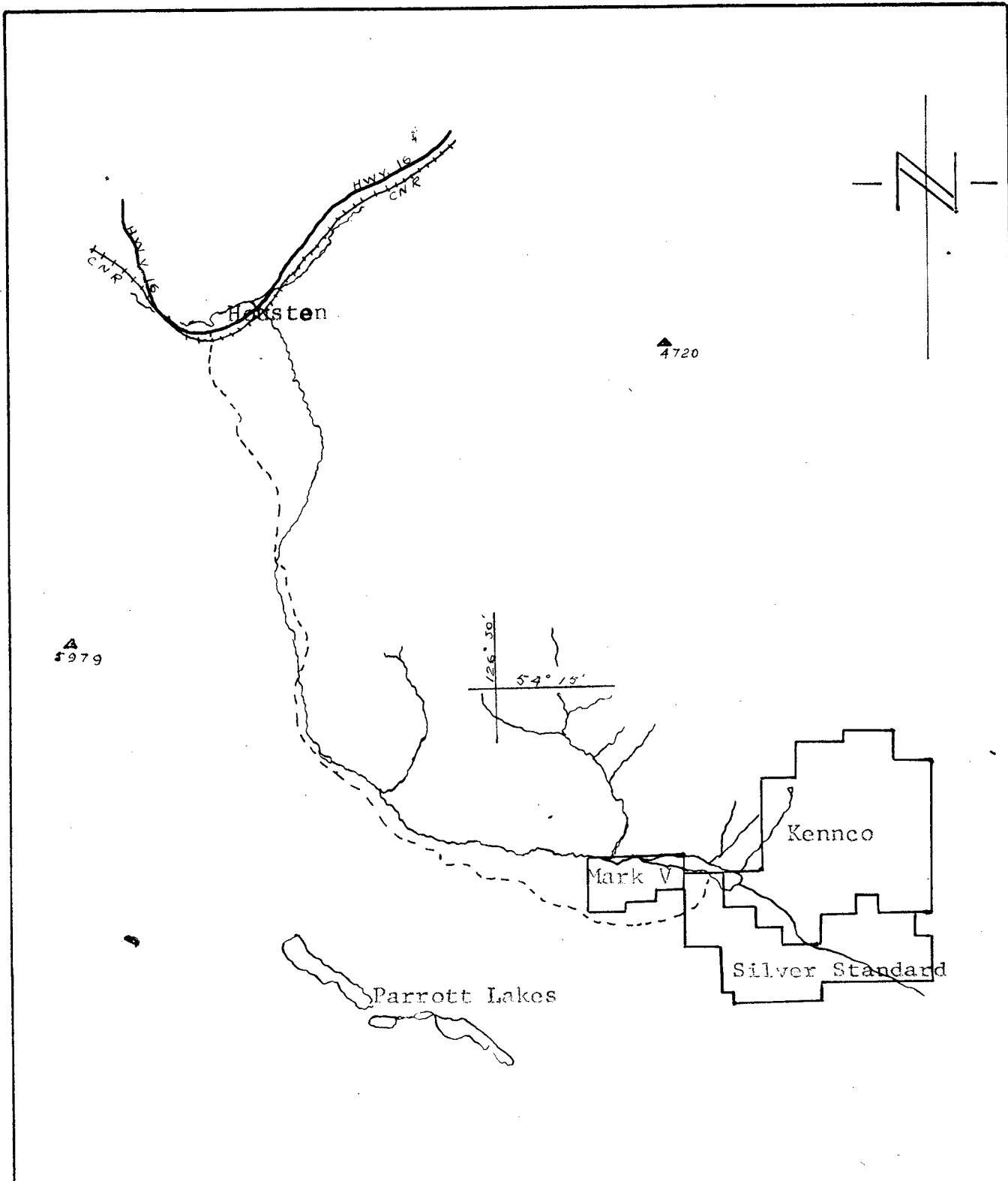
INTRODUCTION

The group of 50 mineral claims was staked for A. Gigliotti in February, 1969. These claims were in turn acquired by Mark V Mines Ltd. (N.P.L.) of Vancouver. A cursory examination failed to indicate any rock outcrop and consequently a limited geochemical programme was undertaken. This work was carried out from October 30th to November 13th, 1969, inclusive by Strato Geological Ltd. under the supervision of A.R. Bullis, P. Eng. This report indicates the results obtained.

LOCATION & ACCESS

The claim block extends from the central portion of Goosly Lake in a south and west direction. It is in the Omineca Mining Division in the Houston-Francois Lake area of central B.C. The co-ordinates of the property are $54^{\circ} 10'$ north latitude and $126^{\circ} 20'$ west longitude.

Access to the property is gained from the village of Houston, located on highway 16 and the northern branch of the C.N.R. An excellent gravelled road leads from Houston to Goosly Lake. The claim block is just north of this road but is readily accessible by numerous logging road and trails in the area.



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **2239** MAP **#1**

BULLTS ENGINEERING LTD.
 LOCATION MAP
 GOOSLY LAKE CLAIMS
 OMINECA MINING DIVISION
 BRITISH COLUMBIA
 Scale 1" = 4 MI.
AS Co Nov 24/70

PROPERTY

The property consists of 50 mineral claims staked in February, 1969, and recorded at the Mining Recorder's office in Smithers, B.C. These claims all lie within the Omineca Mining Division and their names and recorded numbers are as follows:

<u>Claim</u>	<u>Recorded Number</u>
FKE 1 - 13 inclusive	B66327-39 inclusive
FKE 15	B66341
FKE 17	B66343
FKE 19	B66345
NRG 1 - 34 inclusive	B66347 - 80 inclusive

These claims are now owned by Mark V Mines Ltd. (N.P.L.) of Vancouver, B.C.

TOPOGRAPHY & CLIMATE

The Goosly Lake area is part of the Nechako Plateau, which is part of the larger Interior Plateau. The general level of the plateau varies between 3000 and 4000 feet with occasional hills rising to 5000 feet. Valleys are not deeply incised; the Goosly Lake valley is approximately 3000 feet; the streams are generally shallow and meandering with numerous small lakes and swampy meadows in the valleys.

Forest cover is extensive from valleys to mountain tops with some open grassy areas. Trees consist of lodge-pole pine, aspen and poplars. The climate is typical continental with warm summers and cold winters. Precipitation averages about 20 inches per year, generally as snow in December and January.

GENERAL GEOLOGY

Generally the area around Goosly Lake is underlain by the Hazelton group which has in turn been intruded by granitic rocks of the Coast Range Batholith. This sequence has in turn been overlain by the Ootsa Lake series of volcanic rocks.

The Hazelton Group consists of a series of interbedded sedimentary and volcanic flows. The series can be divided into three sections. The lower consisting of massive green to purple volcanic flows with minor marine sediments. Above this lies a more extensive series of marine sediments including tuffaceous greywacke, grey green tuff, limestone, argillite with thin-bedded chert and some andesitic flows. The upper section is primarily a thick series of volcanic flows with the accompanying tuffs and breccias.

The Coast Range intrusives vary in composition from granite to diorite and are generally light in colour. Contacts with the Hazelton Group may be gradational or sharp indicating both injection and assimilation.

The Ootsa Lake group which overlies the previous complex series is widely scattered and consists of primarily rhyolitic flows with minor basalt and andesite flows near the base of the formation.

Glaciation has been widespread and generally the valleys are drift-covered with silt, sand and gravel and small swamp areas.

GEOCHEMICAL SURVEY

The physical work was carried out on the claims by Strato Geological Ltd. under the supervision of A.R. Bullis, P. Eng. and the samples were assayed by T.S.L. Laboratories of Vancouver.

A programme of line cutting was carried out with two base line A-A1 and B-B1 with lines cut north and south at approximately 400' intervals for a distance of 800' on each side of the base line.

Base line A-A1 started at #1 posts of NRG 27 and NRG 28 and posts #2 FKE 11 and 12. The line runs east 9000 feet to the #1 corner posts of FKE 1 and 2. Picket lines were cut 800 feet long both north and south of the base line at approximately 400' intervals. Base line B-B1 commenced at #1 corner posts of NRG 29 and 30 and ran west 4100' and east 4800 feet with the west section having picket lines cut north and south, 800' each direction at 400' spacing and the east section having 800' lines cut to the north every 400 feet.

A total of 15.36 miles of line was cut and picketed at 100 foot intervals. Soil samples were gathered at each picket where possible and a total of 772 samples were taken for analysis.

As indicated on the map, in the areas of swamp there was a considerable quantity of humus in the samples. These samples were taken at a depth of 2' to 3' intervals depending on the conditions. The remainder were gathered from the "B" horizon and consisted of generally a sandy soil grading at times into a sandy clay composition. The samples when collected, were placed in a 'soil-sampling' envelope appropriately marked with its number and location.

GEOCHEMICAL SURVEY - cont'd.

The samples were packed and shipped to T.S.L. Laboratories in Vancouver for analysis.

Upon receipt of the samples, they are sorted and arranged as to number and then dried in an oven at 200° F. After having been dried, each sample is sieved separately in an aluminum framed, nylon screened sieve to -18 mesh. From the sieved portion a gram of sample is measured out and then this is digested by hot hydrochloric acid. The solution is brought up to volume and then read in a Jarrel-Ash Atomic Adsorption unit. The samples are measured against standard solutions and frequently checked by use of samples analysed on other machines and other laboratories.

The results are recorded in parts per million of the contained metal found in the samples. The samples from this property were checked for both copper and zinc.

ASSESSMENT OF RESULTS

A study of the copper values indicated on both grids indicate readings between 1 part per million and 66 parts per million. The high readings appear to be erratic and no pattern appears to be formed which would indicate any concentration or pattern which would indicate any possible area for follow-up work.

ASSESSMENT OF RESULTS - cont'd.

Zinc being a more soluble metal and consequently more mobile creates a higher background. No discernable pattern is apparent although more high readings are seen. It is felt that the highs of both copper and zinc could be due to erratics in the soil, as a result of glacial transportation.

CONCLUSIONS

The geochemical results have not indicated any structural pattern possibly because of the depth of overburden and/or the extensive spread of glacial till in the area surveyed.

In consequence, it is suggested that this approach has not yielded the results hoped for and the further use of geochemistry is not appropriate for further use at the present time.

Respectfully submitted,



A.S. Ashton, P. Eng.

BULLIS ENGINEERING LTD.

January 27, 1970

DELTA, B.C.



PROGRAMME PERIOD

Strato Geological - October 30th - November 13th, 1969

Personnel

Uno Leis (Supervision)	Oct. 30 - Nov. 4, Nov. 9-13, 1969
Edward Thorburn	Oct. 30 - Nov. 13, 1969
James Russel	Oct. 30 - Nov. 13, 1969
Alan MacLean	Oct. 30 - Nov. 13, 1969
Anniello Difleuri	Oct. 30 - Nov. 13, 1969

Cut and picketed lines - 15.36 miles.

Number of samples taken on grid - 772.

Supervision

A.R. Bullis, P. Eng. July 9 & Oct. 14 - 15, 1969

Report

A.S. Ashton, P. Eng. Jan. 21 - 23 & Jan. 26 & 28, 1970

R. Bullis - Drafting Jan. 29 & 30 & Feb. 2 & 3, 1970

M. Mitchell - Typing Jan. 27 & Feb. 2 & 3, 1970

COSTS

Mobilization	\$ 300.00
Wages	2,540.00
Equipment Rental (Tent, Stoves, Chain saws etc.)	75.00
Food	351.16
Transportation	561.76
Miscellaneous (Phone calls, plans, etc.)	65.60
T.S.L. Assay samples	776.00
Bullis Engineering Ltd.	
A.R. Bullis (Fee)	450.00
Report	1,130.00
Typing	72.00
Drafting	180.00
	<hr/>
TOTAL	<u>\$6,501.52</u>

To be apportioned to each of 50 contiguous Claims:

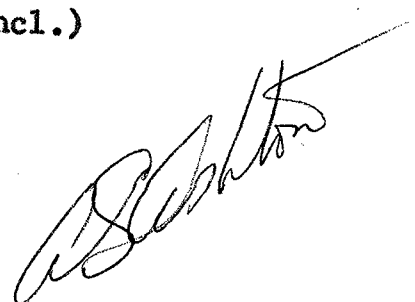
NRG 1 - 34 (B 66347 - 80 incl.)

FKE 1 - 13 (B 66227 - 39 incl.)

FKE 15 (B 66241)

FKE 17 (B 66243)

FKE 19 (B 66245)



CERTIFICATE OF QUALIFICATIONS

I, Arthur Sydney Ashton, do hereby certify that:

1. I am a practising geological engineer with residence at 5441 7B Avenue, Delta, B.C.
2. I am a graduate of the University of Toronto and have been granted a degree of Bachelor of Applied Science.
3. I have been practising my profession as a geological engineer for twenty years.
4. I am a member of the Association of Professional Engineers of Ontario and have an application pending with the Association of Professional Engineers of British Columbia.
5. This report is based on a study of the geochemical assays and known geology of the area.
6. I have no interest, directly or indirectly, in the properties or securities of Mark V Mines Ltd. (N.P.L.).


A.S. Ashton, P. Eng.

February 3, 1970

DELTA, B.C.



2239

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2239 MAP #2

BULLIS ENGINEERING LTD.
GEOCHEMICAL SURVEY
for
MARK V MINES LTD.
on
GOOSLY LAKE CLAIMS
OMINECA MINING DIVISION B.C.
Scale 1 in. = 400 ft.
Jan 26, 1970

C.R.B.

To Accompany Geochemical Report by
A.S. Ashton P.Eng. Ont. on Goosly Lake Group,
Omineca Mining Division, Dated Jan. 27, 1970.