

2726

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 2726 MAP.....

GEOCHEMICAL REPORT

On

GOOSLY LAKE CLAIMS

LAT.  $54^{\circ} 10'$  LONG.  $126^{\circ} 20'$

In

OMINECA MINING DISTRICT

For

MARK V MINES LTD. (N.P.L.)

By

STRATO GEOLOGICAL LTD.

And

C. H. DONALDSON, P. ENG.

October 19, 1970

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126° 30'



SMITHERS

HOUSTON

GOOSLEY  
LAKE  
PROPERTY

54° 00'

54° 00'

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2726 MAP #1



126° 30'

MARK V MINES LTD
PROPERTY LOCATION
GOOSLEY LAKE, B.C.
SCALE: 1" = 1,000,000

INTRODUCTION:

Mark V Mines Ltd. (N.P.L.) requested Strato Geological Ltd., Mineral Exploration contractors, and C. H. Donaldson, Professional Engineer to carry out a geochemical survey on their claims at Goosely Lake, Omineca Mining District.

The claims are completely overlain with lake water, swamp, glacial drift and recent lake and stream sediments. Consequently, geochemical or geophysical surveys are the only means of prospecting the area.

PROPERTY:

The property consists of fifty located claims. The claims were staked in February, 1969, recorded at the Mining Recorders office in Smithers, B.C., and subsequently turned over to Mark V Mines Ltd. (N.P.L.).

The claim group consists of the following:

<u>Claim</u>	<u>Record No.</u>
FKE 1 - 13	66327 - 66339
FKE 15	66341
FKE 17	66343
FKE 19	66345
NEG 1 - 34	66347 - 66380

All claims are held by location.

LOCATION & ACCESS:

The claim group is located South and South-West of Goosely Lake in

LOCATION & ACCESS (Cont'd):

the Omineca Mining District, at  $54^{\circ} 10'$  North Latitude and  $126^{\circ} 20'$  West Longitude. The area is generally referred to as the Houston - Francois Lake area of Central B.C.

Access is gained from Houston, located on Highway 16 and the northern branch of the Canadian National railway. From Houston a good gravel road runs to Sam Goosely Lake, thence a short distance north by logging road to the property.

TOPOGRAPHY:

The topography around the claim group at Goosely Lake is typical of the region known as the Nechako Plateau.

The area has swampy meadows and lodge-pole covered low hills.

Precipitation averages about 20 inches per year, mostly by snow during December and January.

GEOLOGY:

Due to the lack of outcrop, the geology can only be inferred from that of surrounding areas.

The rocks of the area are in general terms those of the Hazelton Group which have been intruded by granitic rocks of the Coast Range batholith and overlain by the Ootsa Lake Group of mainly volcanic rocks.

The Ootsa Lake Group is composed mainly of rhyolite flows and occur

GEOLOGY (Cont'd):

as widely scattered patches that lie between Ootsa and Francois Lakes and extend Northward to the vicinity of Goosely Lake.

If the rhyolite flow rocks underlie the claim group, this would account for the even tenor of the geochemical assay results.

GEOCHEMICAL SURVEY:

During the 1969 season, a geochemical survey was carried out on the Southerly and South-Westerly claims. The claims were assayed for copper and zinc. The plotted results showed only isolated anomalous grade samples.

The Mark V Mines Ltd. (N.P.L.) company decided to complete the geochemical survey for copper and zinc on the remaining accessible claims in the North-West portion of the claim group. Also, to carry out a geochemical sampling of the whole of the accessible area of the claims for silver.

From August 17th to September 14th, 1970, Strato Geological Ltd. was employed by Mark V Mines Ltd. (N.P.L.) to carry out a geochemical survey as outlined above.

An experienced crew consisting of Messrs. Ed Thorburn- chief sampler, and David Lewis, Howard Hong, and Ray Pederson - samplers, were transferred to the property from other similar jobs. All the crew has had extensive experience, on many such jobs throughout the province of B.C.

Lines were compass surveyed and cut at 400' spacing and samples taken

Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *24*  
day of *November, 1970*, A.D.

*H. Heis*

~~A Commissioner for taking Affidavits within British Columbia and  
A Notary Public in and for the Province of British Columbia.~~

*L. Giamotta*

SUB-MINING RECORDER

GEOCHEMICAL SURVEY (Cont'd):

at 100' intervals along the lines.

Of the samples taken in the N.W. area, 110 were assayed for copper and zinc; 796 silver samples were taken throughout the claim group including the N.W. area.

The soils were collected from the "B" horizon below the humus which reached a depth of 15" to 18" in some areas.

Upon delivery of the samples to the T.S.L. Laboratory, they were arranged in sequence and then dried in an oven at 200°F. The dried sample is then screened through a nylon mesh to - 18. From the sieved portion, a gram is measured out and is then digested in hot aqua regia. After complete digestion the solution is brought up to volume and the sample is then "read" by means of a Jarrell - Ash Adsorption unit. This measures the parts per million of metals in the contained sample.

The samples are measured against standard solutions and frequently checked by use of samples which have been assayed by other methods and/or other type of atomic adsorption equipment.

The samples were tested for copper and zinc.

Vancouver Geochemical Laboratories did the assays on silver. Method of Analysis - Instrumental - Atomic Adsorption Spec. Extraction -  $\text{HNO}_3$  -  $\text{HClO}_4$ , detection Techtron AA4 and AA5.



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day of *November, 1970*, A.D.

*A. Hein*

*S. Jeannotte*  
.....  
~~A Commissioner for taking Affidavits within British Columbia or~~  
~~A Notary Public in and for the Province of British Columbia.~~

**SUB-MINING RECORDER**

COSTS ON GOOSELY LAKE:

Line cutting and soil sampling survey. August 17 - September 14, 1970

Labour Costs	\$ 2,305.00
Assays	1,303.25
Equipment Rental	85.00
Engineer's report, mapping and misc. costs	1,914.34
Transportation of equipment and crew	483.20
Room and Board	<u>290.73</u>
TOTAL COSTS	\$ 6,381.52

RESULTS OF SURVEY:

The geochemical assay results were plotted on a scale of 1" = 400' and copies of the plans are enclosed.

The results show a low even distribution of silver, with no apparent anomalous area.

The copper-zinc results show only a few erratic and isolated anomalous results but no anomalous areas can be outlined.

The results of the survey are disappointing.

RECOMMENDATIONS:

There is the possibility that beneath the glacial and aluvial deposits there is an impervious layer of the Ootsa Lake Group of flow rock which

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H. Lewis

- 5 -

L. Jeannotte  
A Commissioner of the Province of British Columbia or  
A Notary Public in and for the Province of British Columbia.

RECOMMENDATIONS (Cont'd):

prohibits the rise of mineralized water into the alluvial mantle. Small fractures in this flow rock could account for the erratic and isolated samples carrying anomalous values.

As considerable money has already been spent on the property, I recommend that a trench or trenches be bulldozed to bed rock to permit examination of the rock type existing below the alluvial mantle.

In the event that the underlying rock is found to be an impervious layer of rock such as rhyolite, I recommend that a few trial lines be run by electrical geophysical means such as electro-magnetic or Induced Polarization to test the rock formation beneath the impervious layer.

If this proves successful, then a full geophysical survey is recommended.

COMMENT:

Several major Mining Companies are carrying out extensive exploration programmes in the vicinity of the Mark V Mines Ltd. (N.P.L.) Geosely Lake group of claims.

Therefore, I recommend that further reasonable work be done on the group as outlined above before discarding the claims.

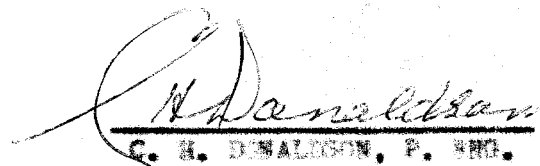
  
C. H. DONALDSON, P. ENG.

VANCOUVER, B.C.  
October 19, 1970

CERTIFICATION:

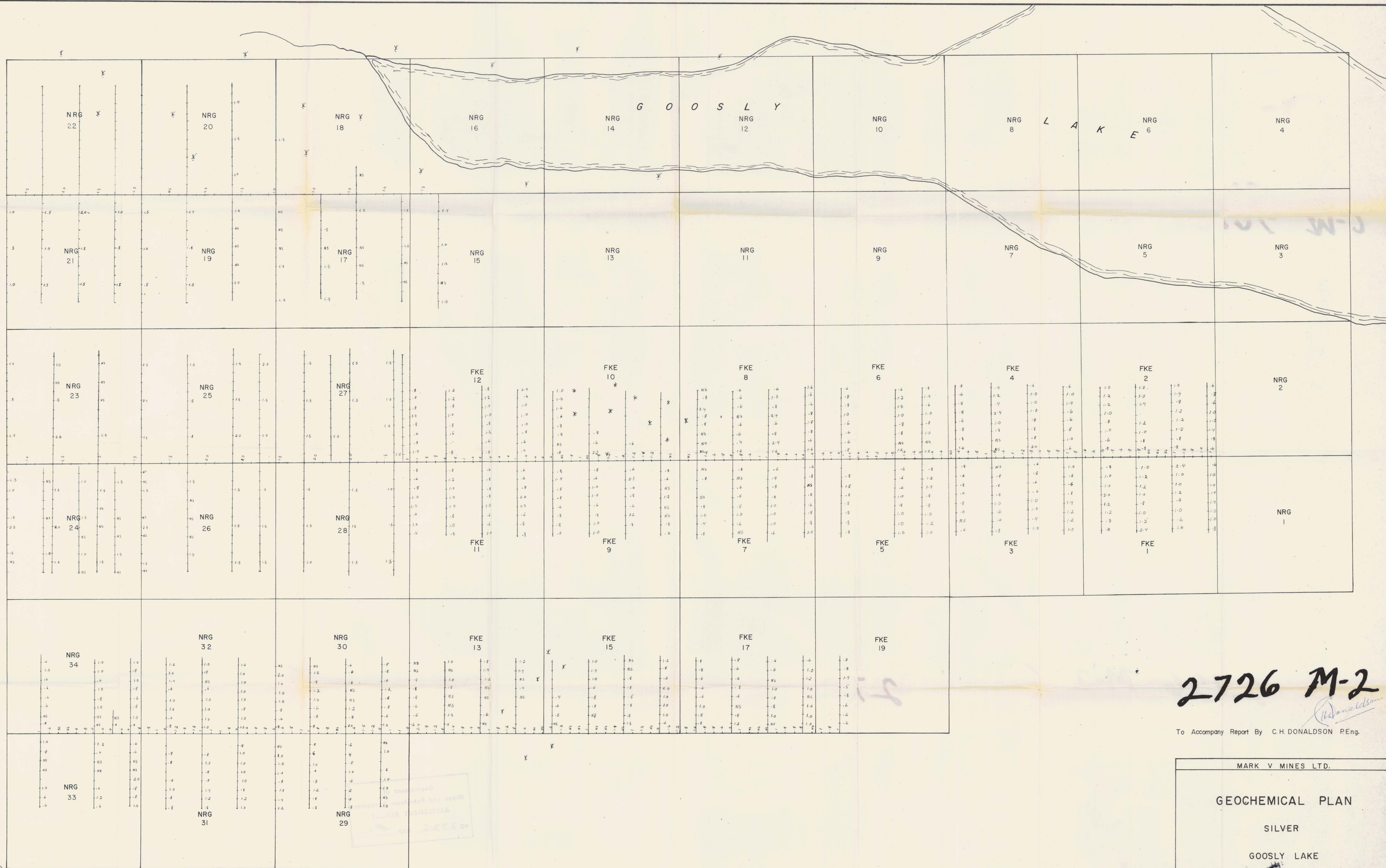
I, Clarence H. Donaldson of the City of Vancouver in the Province of British Columbia, hereby certify as follows:

1. That I am a Registered Professional Engineer of the Province of British Columbia and reside at Suite 101 Brentwood Apts., 2050 Barclay Street, Vancouver 5, British Columbia.
2. That my mining experience embraces all phases of the mining industry and I have worked throughout Canada, Australia, South Seas and parts of U.S.A. and Mexico.
3. That I have no interest directly or indirectly in the claims or securities of Mark V Mines Ltd. (N.P.L.) nor do I expect to receive any.
4. That the information contained herein was obtained through examination of the plans and assays supplied by Strato Geological Ltd. as well as my previous knowledge of the area.

  
C. H. DONALDSON, P. ENG.

VANCOUVER, B.C.  
October 19, 1970





**2726 M-2**

*C.H. Donaldson*

To Accompany Report By C.H. DONALDSON P.Eng.

MARK V MINES LTD.	
<b>GEOCHEMICAL PLAN</b>	
SILVER	
GOOSLY LAKE	
OMIACA M.D.	
SCALE — 1" = 400'	DATE — 26 JAN, 1970







**2726 M-3**  
*C. Donaldson*

To Accompany Report By C.H. DONALDSON P.Eng.

MARK V MINES LTD.

**GEOCHEMICAL PLAN**

COPPER & ZINC

GOOSLY LAKE

OMINICA M.D.

SCALE — 1" = 400'

DATE — 26 JAN., 1970

5/85 Cu/Zn in p.p.m.

STRATON GEOLOGICAL

