

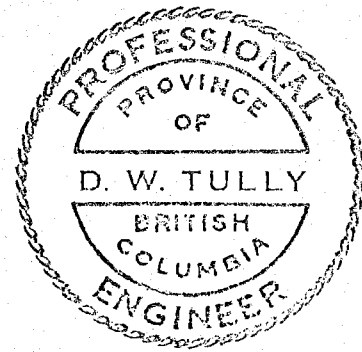
2566

DONALD W. TULLY, B.Sc., P. ENG.  
Consulting Geologist

REPORT ON THE  
DDE 1 - 100 MINERAL CLAIMS  
LOCATED AT GOOSLY LAKE  
OMENICA MINING DIVISION  
HOUSTON, B. C.

FOR  
NORTH PACIFIC MINES LIMITED  
728 West Hastings Street  
Vancouver, B. C.  
(2502-1177)

BY  
DONALD W. TULLY, P. ENG.



West Vancouver, B. C.

October 6, 1969

TABLE OF CONTENTS

	<u>Page</u>
SUMMARY.....	1
INTRODUCTION.....	1
LOCATION, ACCESS AND TOPOGRAPHY.....	2
PROPERTY.....	2 - 4
GEOLOGICAL SETTING.....	4
GEOCHEMICAL RESULTS.....	5
CONCLUSIONS - ECONOMIC POTENTIAL.....	6
RECOMMENDATIONS.....	7
COST ESTIMATES FOR THE RECOMMENDED WORK.....	8
CERTIFICATE.....	9
FIGURE 1 - LOCATION.....(Following page 1)	
FIGURE 2 - PROPERTY.....(Following page 1)	
FIGURE 3 - AREA PROPERTIES.....(Following page 1)	
Figure 4 - <i>Geochemical Sample Locations (rear)</i>	

\* \* \*

Department of Mines and Petroleum Resources ASSESSMENT REPORT
NO. <u>2566</u> MAP .....

## SUMMARY

Anomalous geochemical conditions are believed to exist on the DOE CLAIMS from preliminary geochem sample results.

Although overburden is extensive, scattered outcrops of late sediments and earlier volcanic rocks were found along field traverses.

Remote sensing infra red photography and geophoto studies, geological mapping, ground magnetometer and geochemical surveys are recommended at an estimated total cost of \$150,000.

## INTRODUCTION

North Pacific Mines Limited hold under option a contiguous group of 100 mineral claims called the " DOE GROUP " in the Goosly Lake Area, southeast of Houston, British Columbia.

No evidence of previous prospecting was found during the field examination on September 18 - 19, 1969.

This report summarizes the field and library investigation.





605  
30'  
604  
Burns Lake 16 m  
603  
602  
15'  
601  
600  
599  
54°00'

45' 65 66 30' 67 15' 68 69 126°00'

PROFESSIONAL  
OF  
D. W. TULLY  
BRITISH  
COLUMBIA  
ENGINEER

Sept 24 1940  
Henkel

FIG. 1

SCALE 1" = 4 miles

DOE GROUP  
1-100

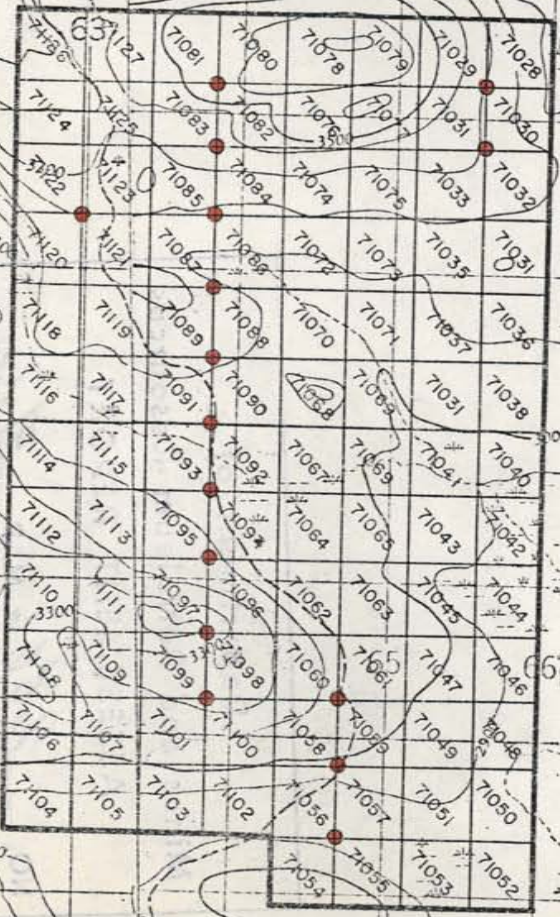


KENNECOTT

Buck Creek

Goosly Lake

DOE GROUP  
I-100



*David W. Lilly*  
 Sept 28, 1975

PROPERTY

FIGURE 2

SCALE: 1" = 50 000'

XX

67

68

69

70

71

72

73

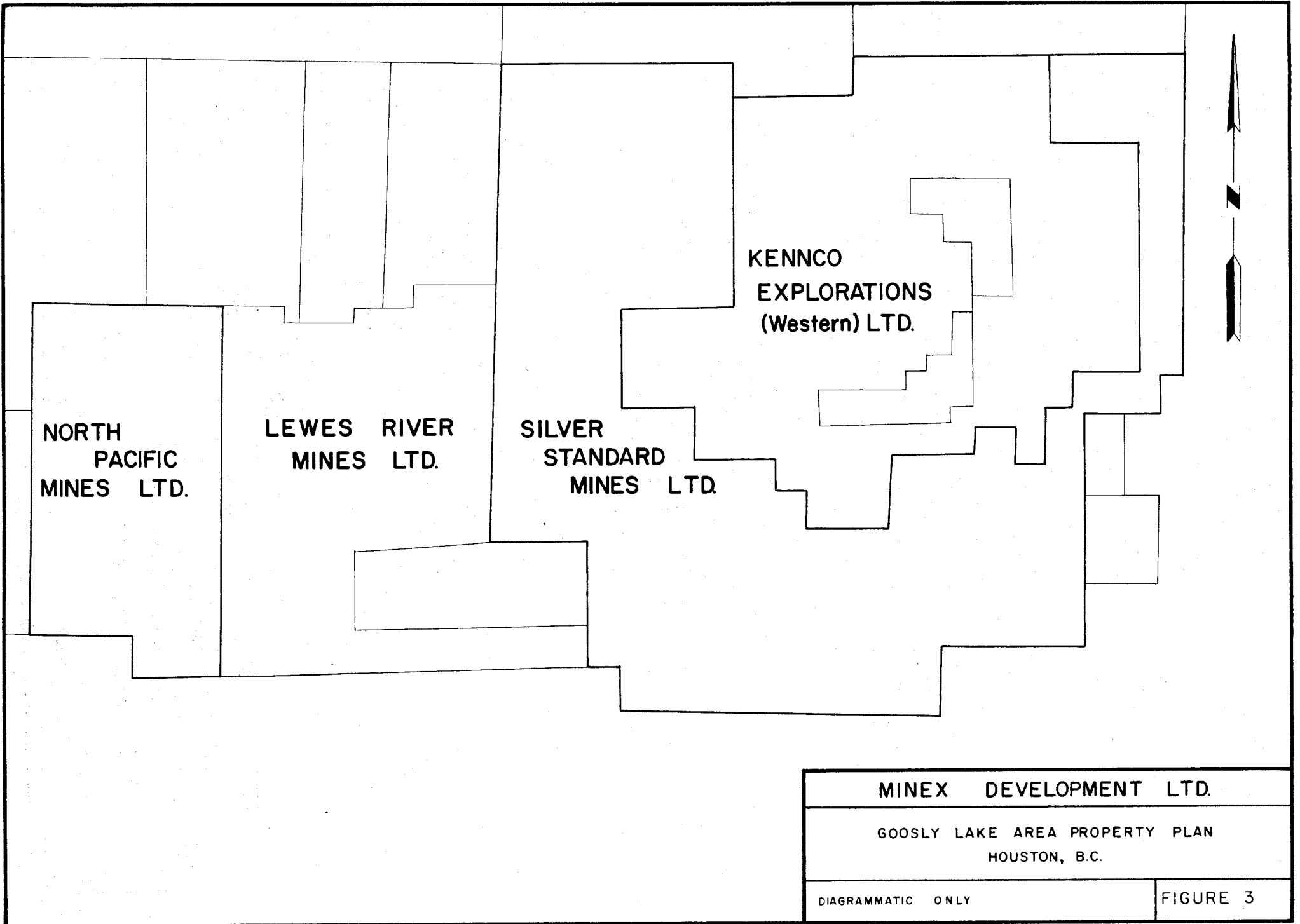
00

99

62

K E S





NORTH  
PACIFIC  
MINES LTD.

LEWES RIVER  
MINES LTD.

SILVER  
STANDARD  
MINES LTD.

KENNCO  
EXPLORATIONS  
(Western) LTD.

**MINEX DEVELOPMENT LTD.**

GOOSLY LAKE AREA PROPERTY PLAN  
HOUSTON, B.C.

DIAGRAMMATIC ONLY

FIGURE 3

LOCATION, ACCESS AND TOPOGRAPHY

The DOE Claim Group is located thirty miles by dirt road southeast of Houston, B.C., which is midway between Houston and Francis Lake. Access is convenient by the road to Parrott Lake which turns south seven miles west of Goosly Lake. The claims are well staked and location lines are clearly marked where the same cross the Parrott Lake road.

The topography is rolling and rises to the north with less than 800 feet of local relief. Swamp areas are more common in the southern portion of the claim group. Jackpine, spruce and poplar are common forest cover in the central and northern parts.

PROPERTY

The present DOE Group consists of 100 mineral claims as follows:

<u>Claim #</u>	<u>Tag #</u>	<u>Record #</u>	<u>Record Date</u>	<u>Staked by</u>
DOE # 1	13901M	71028M	May 20, 1969	D. Homenuke
2	2	9	"	"
3	3	71030	"	"
4	4	1	"	"
5	5	2	"	"
6	6	3	"	"
7	7	4	"	"
8	8	5	"	"
9	9	6	"	"
10	10	7	"	"

<u>Claim #</u>	<u>Tag #</u>	<u>Record #</u>	<u>Record Date</u>	<u>Staked by</u>
DOE #11	13911M	71038M	May 20, 1969	D. Homenuke
12	12	9	"	"
13	13	71040	"	"
14	14	1	"	"
15	15	2	"	"
16	16	3	"	"
17	17	4	"	"
18	18	5	"	"
19	19	6	"	"
20	20	7	"	"
21	21	8	"	"
22	22	9	"	"
23	23	71050	"	"
24	24	1	"	"
25	25	2	"	"
26	26	3	"	"
27	27	4	"	"
28	28	5	"	"
29	29	6	"	"
30	30	7	"	"
31	31	8	"	"
32	32	9	"	"
33	33	71060	"	"
34	34	1	"	"
35	35	2	"	"
36	36	3	"	"
37	37	4	"	"
38	38	5	"	"
39	39	6	"	"
40	40	7	"	"
41	41	8	"	"
42	42	9	"	"
43	43	71070	"	"
44	44	1	"	"
45	45	2	"	"
46	46	3	"	"
47	47	4	"	"
48	48	5	"	"
49	49	6	"	"
50	50	71077	"	"
51	51	8	"	"
52	52	9	"	"
53	53	71080	"	"
54	54	1	"	"
55	55	2	"	"
56	56	3	"	"
57	57	4	"	"
58	58	5	"	"
59	59	6	"	"
60	60	7	"	"
61	61	8	"	"



The regional geology of the area is described in reports and maps of the Geological Survey of Canada as follows:

GEOLOGICAL SETTING

Claim #	Tag #	Record #	Record Date	Staked by
DOE #62	13962	71089M	May 20, 1969	D. Homenuke
63	63	90		"
64	64	1		"
65	65	2		"
66	66	3		"
67	67	4		"
68	68	5		"
69	69	6		"
70	13970	7		"
71	71	8		"
72	72	9		"
73	73	1		"
74	74	2		"
75	75	3		"
76	76	4		"
77	77	5		"
78	78	6		"
80	13980	7		"
81	81	8		"
82	82	9		"
83	83	1		"
84	84	2		"
85	85	3		"
86	86	4		"
87	87	5		"
88	88	6		"
89	89	7		"
90	13990	8		"
91	91	9		"
92	92	1		"
93	93	2		"
94	94	3		"
95	95	4		"
96	96	5		"
97	97	6		"
98	98	7		"
99	99	8		"
DOE 100	14000	9		"

G.S.C. Map No. 120 - Dawson, 1876 - 77  
G.S.C. Paper 40-18 - Hanson, Phemister, Leng, 1940  
G.S.C. Map 671A - Hanson, Phemister, Leng, 1942

Much of the geology of the claim area is covered by Mesozoic volcanics of the Hazelton group outcrop on a small knoll on claims 71066 and 71092. Flat-lying Tertiary sediments occur on higher ground on claims 71080, 81, 82, and 71083 at the north end of the property.

The Hazelton rocks are largely andesitic in composition but a few thin intercalated bands of detrital sediments were observed striking in a northeasterly direction and dipping steeply south. Outside the claim area to the south and east at Parrott Lake similar rocks were seen.

Tertiary sediments appear variegated and vary widely in composition. An outcrop of conglomerate on claim 71082 contained minor disseminated pyrite. Bedding structures are near flat to slight north-dipping.

No mineralization of importance was observed while traversing the property.

#### GEOCHEMICAL RESULTS

Geochem soil samples were taken at the following locations. The results are tabulated below:

<u>At Initial Claim Posts for</u>		<u>Copper (ppm)</u>	<u>Silver (ppm)</u>
Doe Claims	71030 - 31	14	1.2
"	" 71032 - 33	10	1.9
"	" 71120 - 21	14	1.0
"	" 71094 - 95	38	1.7
"	" 71092 - 93	13	0.7
"	" 71090 - 91	22	1.0
"	" 71088 - 89	12	0.5
"	" 71086 - 87	14	0.5
"	" 71084 - 85	16	0.5
"	" 71082 - 83	15	0.8
"	" 71080 - 81	18	0.7
"	" 71096 - 97	26	1.0
"	" 71056 - 57	8	0.5
"	" 71058 - 59	11	0.5
"	" 71060 - 61	11	0.5
"	" 71098 - 99	17	0.8

Although taken over a wide area on the property these preliminary geochemical soil sample results are insufficient to establish a background in copper and silver. Geochemical assaying for copper, silver, molybdenum, lead and zinc are recommended in future exploration work.

The results do suggest possible increase in copper values in the central part of the claim group and for silver in the northeast portion.

#### CONCLUSIONS - ECONOMIC POTENTIAL

The writer's observations concerning the potential of the Goosly Lake area are favourable to finding silver and copper mineralization. Kennecott (Kenenco Explorations (Western) Limited) are reported to have a major sized orebody of silver and copper values about two miles northeast of Goosly



Lake. It is believed geophoto studies of fracture patterns and more particularly geochemical work were important factors in this recent discovery. Sulphide mineralization appears to be associated with an intermediate-type intrusive in fractured Hazelton volcanic host rocks.

Lack of evidence of previous staking in the claim area suggests this ground may have received very little prospecting attention and is logically a prime target for geochemical and geophysical investigation.

Road access to the property should assist maintaining reasonable exploration costs.

#### RECOMMENDATIONS

1. Infra-red airborne photography and a combined aerial magnetometer-electromagnetic survey is recommended to search for mineral indications.
2. Geophoto and fracture density pattern studies should be done.
3. Ground control picket-lines are recommended at 200-foot intervals over the entire claim group.
4. Map the geology on a scale of one inch equals 200-feet.
5. Do a geochemical and ground magnetometer survey over the entire property grid.

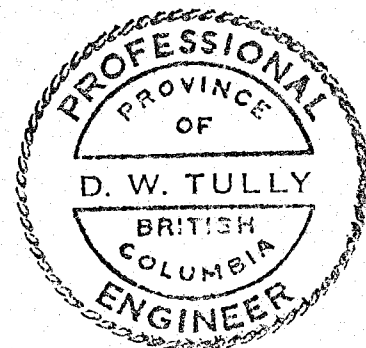
COST ESTIMATE FOR THE PROPOSED PROGRAMME

1. Combined Airborne infra-red photography and aerial magnetometer-electromagnetic survey (200 line-miles x \$50)	\$ 10,000
2. Geophoto studies	2,500
3. Line cutting (250 line-miles x \$125)	31,250
4. Geological Mapping (250 line-miles x \$100)	25,000
5. Geochemical survey (250 line-miles x \$100)	25,000
6. Ground Magnetometer survey (250 line-miles x \$125)	31,250
7. Administration, Assays, reports, transportation	10,000
Contingencies @ 10%	15,000
TOTAL	<u>\$150,000</u>

Respectfully submitted,

*Donald W. Tully*

Donald W. Tully, P. Eng.



C E R T I F I C A T E

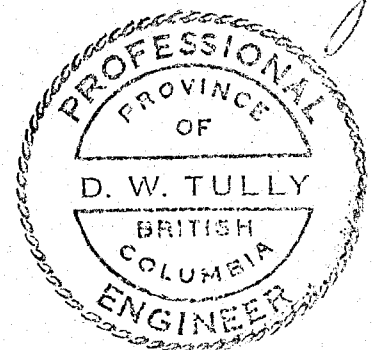
I, Donald W. Tully, do hereby certify:

1. That I am a consulting geologist with offices at Suite 102 - 222 Bellevue Avenue, West Vancouver, B. C.
2. That I am a graduate of McGill University, 1943 with a Bachelor of Science Degree.
3. That I am a registered professional engineer in the Provinces of British Columbia and Ontario.
4. That I have practised my profession for twenty-four years.
5. That I have no direct, indirect, or contingent interest in the claims or securities of North Pacific Mines Ltd. nor do I intend to receive any interest.
6. That this report dated October 6, 1969, is based on an examination I made of the ground on September 18 - 19, 1969.

DATED at Vancouver, British Columbia, this sixth day of October, 1969.

DONALD W. TULLY, P. ENG.

SIGNED: Donald W. Tully





**CREST LABORATORIES (B.C.) LTD.**B.C. REGISTERED ASSAYERS  
INDUSTRIAL and RESEARCH CHEMISTS1068 HOMER STREET  
VANCOUVER 3, B.C.  
October 2, 1969Mr. D.W. Tully  
Bowser Resources Ltd.  
Ste. 102 - 2222 - Bellevue Avenue  
WEST VANCOUVER, B.C.Lot No. 77 G:Geochemical Analyses for Copper & Silver:

Mesh Size:	-80	Received:	October 1, 1969
Analytical Method:	Atomic Absorption	Analyzed:	October 2, 1969
Digestion Method:	HClO <sub>4</sub> - HNO <sub>3</sub>		

<u>Sample Number:</u>	<u>Copper, ppm</u>	<u>Silver, ppm</u>	<u>Sample Number:</u>	<u>Copper, ppm</u>	<u>Silver, ppm</u>
1.	14	1.2	9.	16	0.5
2.	10	1.9	10.	15	0.8
3.	14	1.0	11.	18	0.7
4.	38	1.7	12.	26	1.0
5.	13	0.7	13.	8	0.5
6.	22	1.0	14.	11	0.5
7.	12	0.5	15.	11	0.5
8.	14	0.5	16.	17	0.8

Yours truly,

CREST LABORATORIES (B.C.) LTD.

Alfred A. Burgoyne  
Geologist-Geochemist

AAB/seb

D. I. T. HOLDINGS LTD.

SUITE 102,  
2222 BELLEVUE AVENUE,  
WEST VANCOUVER, B. C.

TELEPHONE (604) 926-3715

APPENDIX

Geochemical soil samples 1-16 inclusive referred to on Figure A and Crest Laboratories (B.C.) Ltd certificate Lot No. 77G were taken from the "B" soil horizon by the writer on September 18-19, 1969.

Sample locations are plotted on Figure A accompanying this appendix.

The soil samples were screened to minus 80 mesh, digested with  $\text{HClO}_4$  -  $\text{HNO}_3$  acid and analyzed by the Atomic Absorption method.

A copy of B.C. Department of Mines claim map No. 80 on file at the Mining Recorder, Vancouver, British Columbia, on September 24, 1970, showing the status of the DOE Claims 1-100, Record Numbers 71028M - 71127M accompanies this appendix.

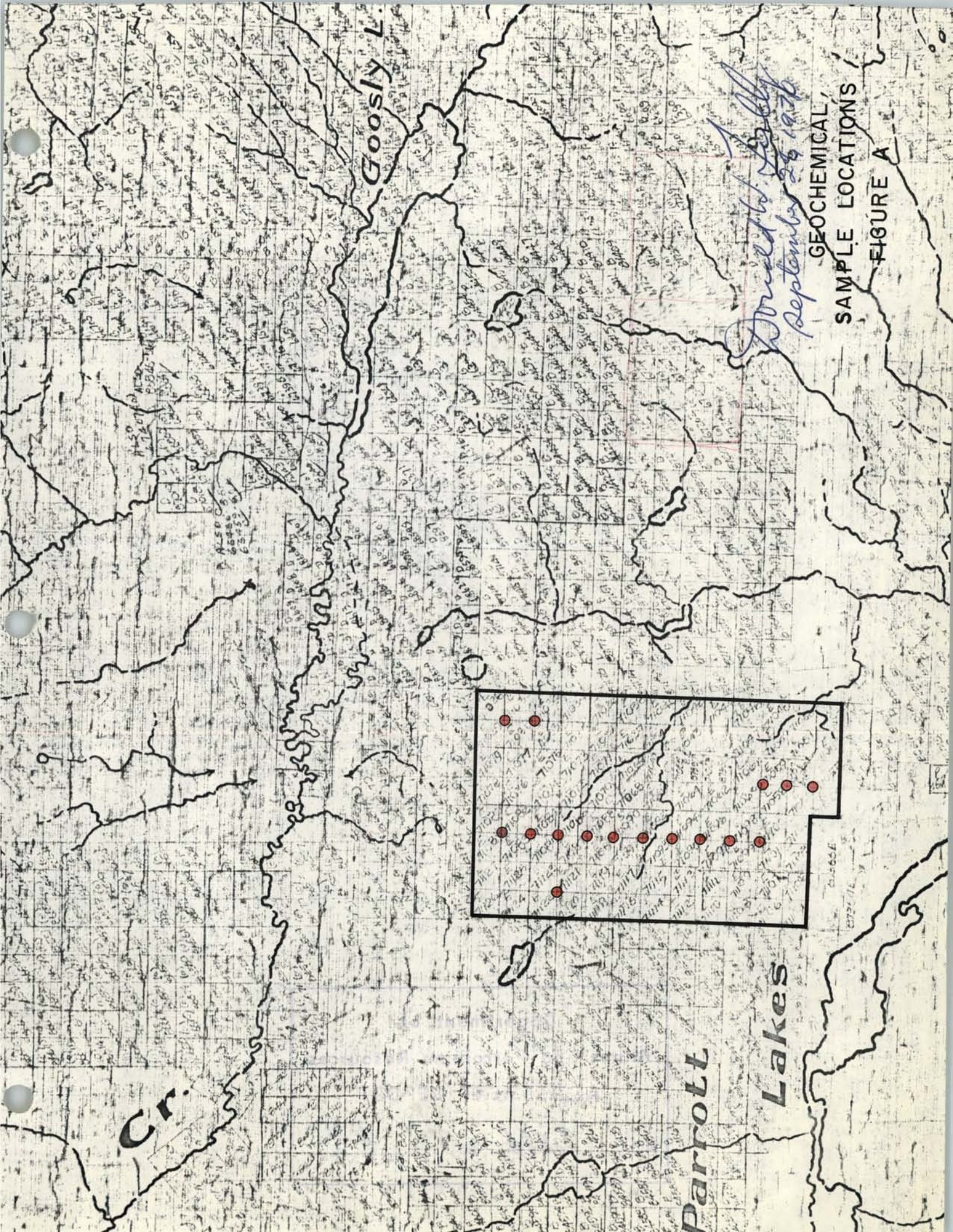
Respectfully submitted,

*Donald W. Tully*

D. W. TULLY  
P. Eng.  
102-2222 Bellevue Avenue  
West Vancouver, B.C.  
BRITISH COLUMBIA  
PROFESSIONAL ENGINEER

September 28, 1970

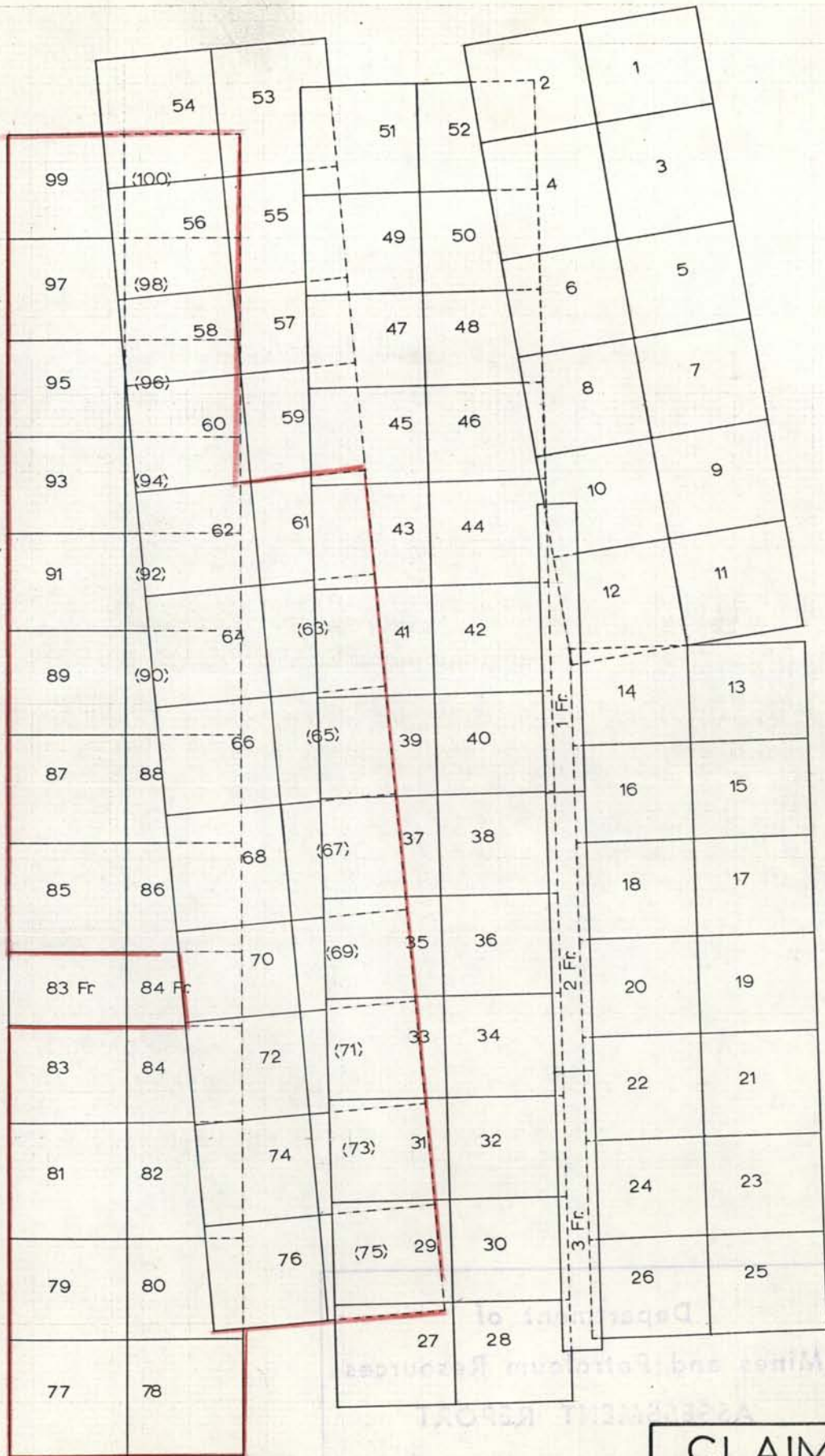




*Donald W. Kelly*  
*September 26, 1976*

GEOCHEMICAL  
SAMPLE LOCATIONS  
FIGURE A





CHARLEY GROUP

June 1977  
DOM

2566

Figure 6

CLAIM MAP

NORTH PACIFIC MINES  
DRAWN BY: W.H.P DATE: 5-16-70 SCALE 1"=1,000'

DOE CLAIM GROUP  
GOOSLY LAKE HOUSTON, B.C.



Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2566 MAP #5  
 2566

June 1977  
 G.



NORTH PACIFIC MINES LTD.			
PARROTT LAKES AREA			
SCALE 1" = 1000'	EDITION	25'	MAP REFERENCE
DATE OF PHOTOGRAPHY	TBL/100		
DATUM G.S.C. (APPROX)	SHEET 1 OF 1		
RECONNAISSANCE MAP	PENCIL MANUSCRIPT		
North Pacific Mines Corporation Limited P.O. Box 1000 Vancouver, B.C.			70-51

2566