

REPORT

ON ~~THE~~ PROSPECTING  
OF THE

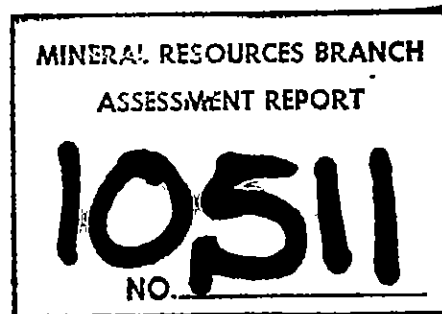
HAPPY 1 & 2 & SILGO #2 CLAIMS  
& CONTAINED REVERTED CROWN GRANTS  
TAGISH LAKE AREA

ATLIN MINING DIVISION

LATITUDE 59°31' N

LONGITUDE 134°13' W

N.T.S. 104M/9E



BY

A.S. ASHTON, P. ENG.

DELTA  
BRITISH COLUMBIA

JANUARY 31, 1982.

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CLAIMS - TAGISH LAKE AREA

ATLIN MINING DIVISION

BRITISH COLUMBIA

INTRODUCTION

On September 26, 1981, the writer, in company with Mr. Roy Carlson, visited the claims on the east side of Tagish Lake, north of the Engineer Mine, and inspected the area prospected as well as the area where the bulk sample had been acquired.

The purpose of the visit was to confirm the work had been carried out and to recommend a program for further work.

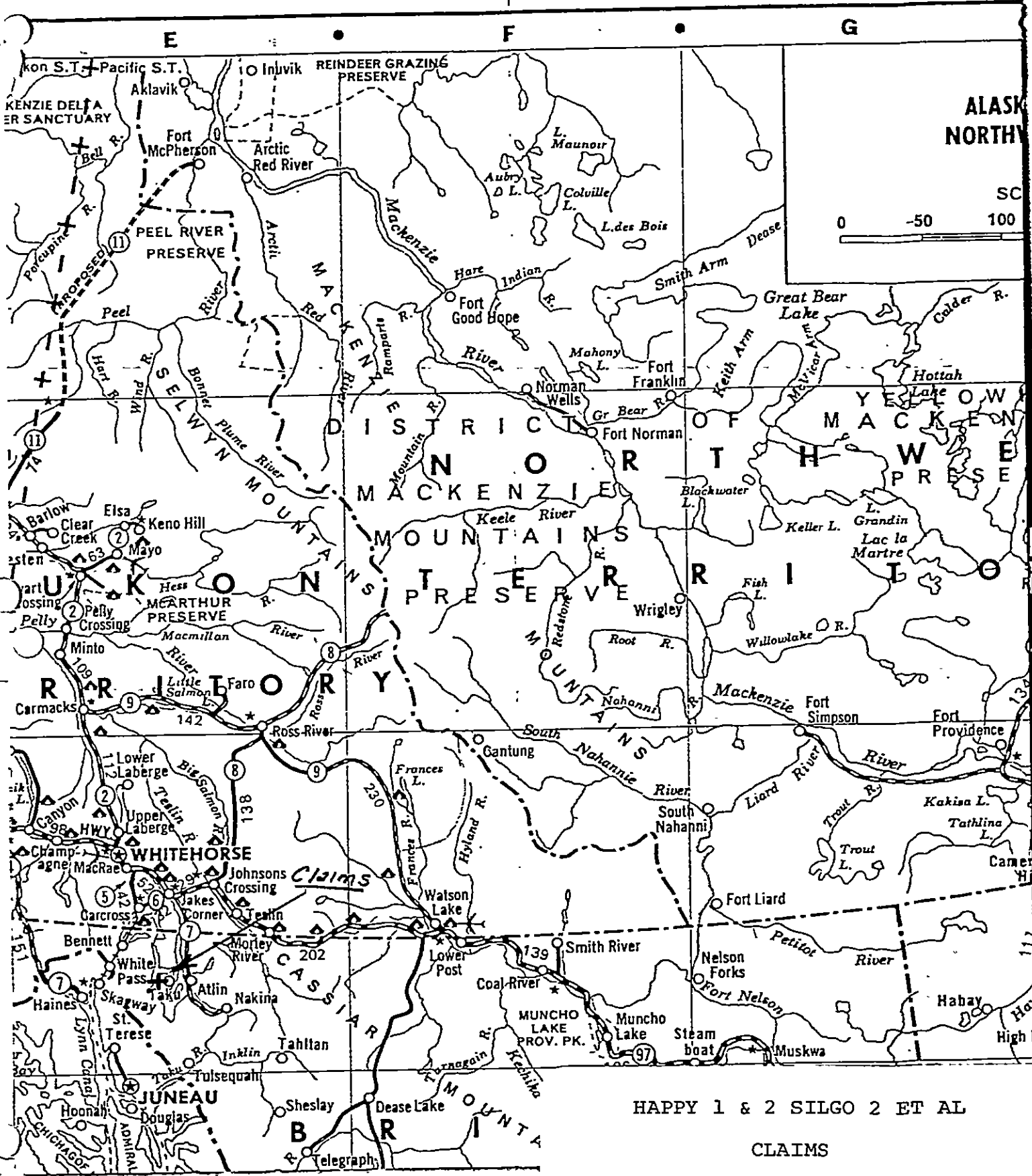
LOCATION & ACCESS

The claims which are under option to Nomad Resources Ltd. and Tagish Resources Ltd. are situated on the east side of Taku Arm of Tagish Lake. They are situated approximately 30 km. west of Atlin. The latitude is  $59^{\circ}31' N$  and longitude  $143^{\circ}13' W$ .

Access is by helicopter from Atlin, a distance of 30 km. to the east, or by boat from Carcross, some 96 km. north on Tagish Lake.

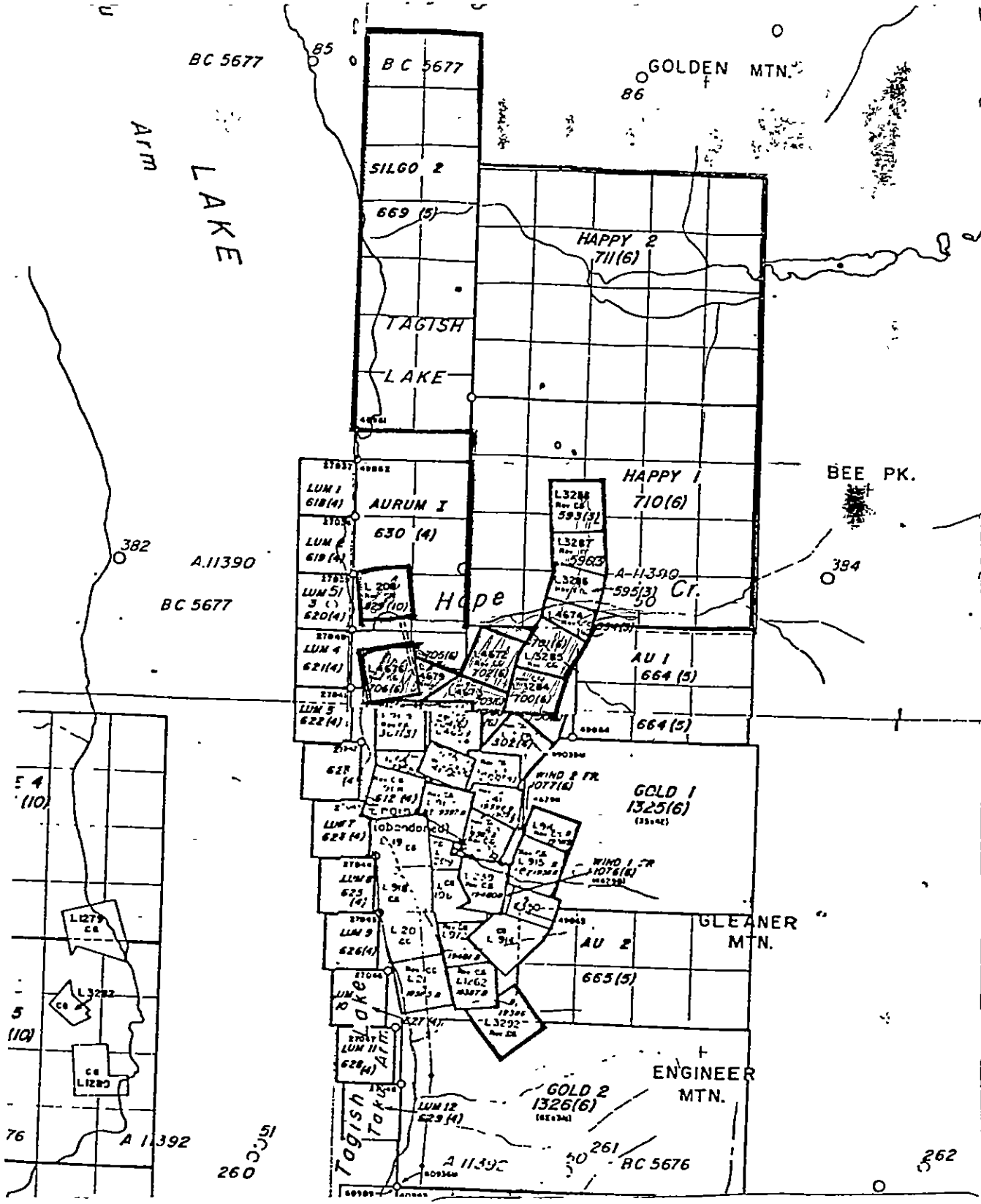
CLAIMS

The group consists of 11 mineral leases and 2 claims consisting of 40 units. Following is a list of the claims.



HAPPY 1 & 2 SILGO 2 ET AL  
CLAIMS

TAGISH LAKE AREA  
ATLIN MINING DIVISION  
LOCATION MAP  
Scale 1 - 5,512,320



HAPPY 1 & 2 SILGO 2 ET AL  
CLAIMS

TAGISH LAKE AREA  
ATLIN MINING DIVISION

CLAIM MAP

Scale 1 - 50,000

<u>Claim Name</u>	<u>Record #</u>	<u>Expiry Date</u>
Gold Bullion	593	Mar. 22, 1983
Sweepstake #6 Fr.	594	Mar. 12, 1983
Crackerjack	595	Mar. 22, 1983
Gold Hill	596	Mar. 22, 1983
Sweepstake #2	700	Jun. 21, 1982
Sweepstake #3	701	Jun. 21, 1982
Sweepstake #4	702	Jun. 21, 1982
Sweepstake #5 Fr.	703	Jun. 21, 1982
Polygon Fr.	705	Jun. 21, 1982
Iron Mask	706	Jun. 21, 1982
The Even Star	829	Oct. 17, 1982
Happy #1 (20 units)	710	Jun. 22, 1982
Happy #2 (20 units)	711	Jun. 22, 1982
Silgo #2 (14 units)	669	May. 30, 1982

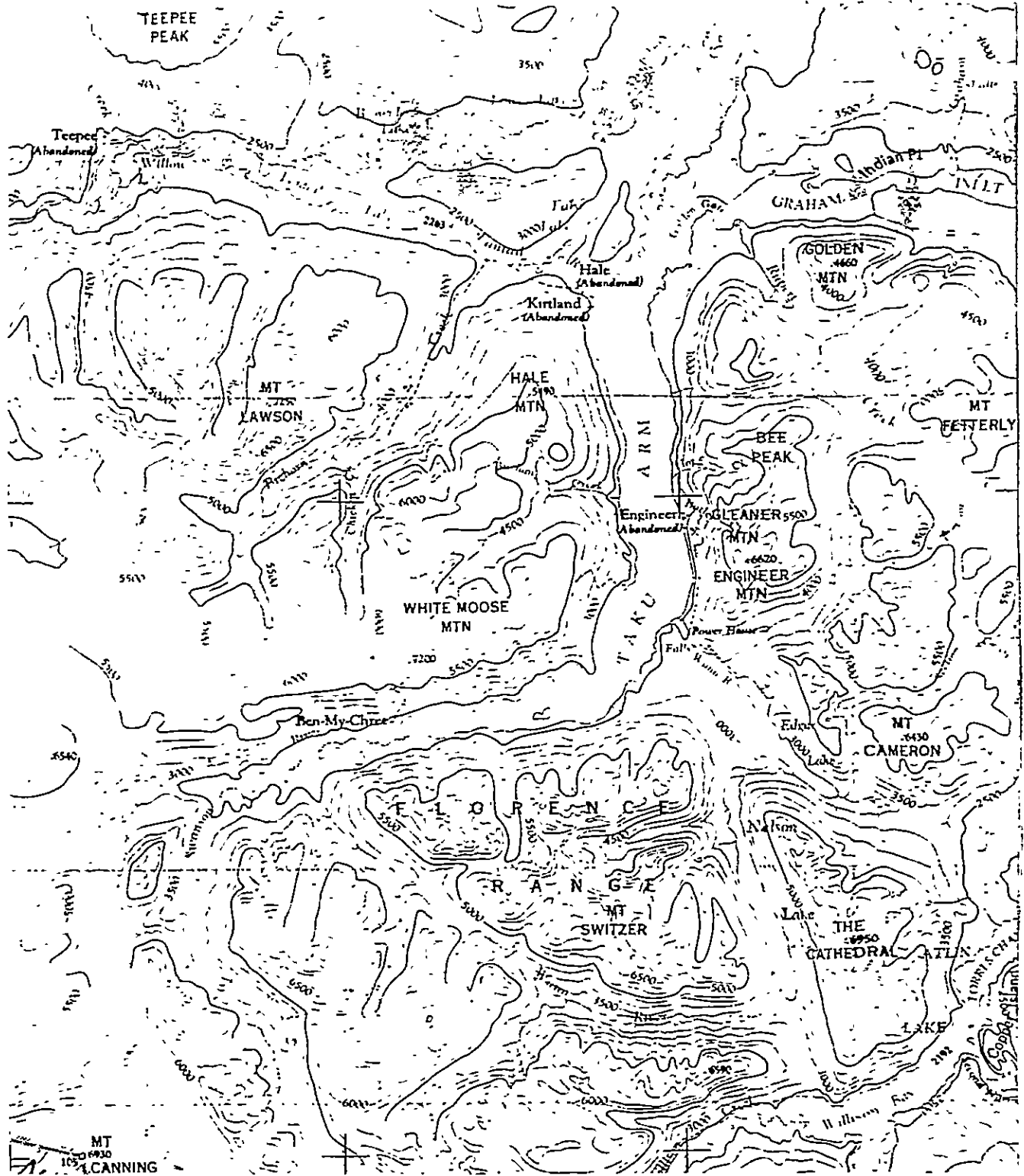
The claims are well staked in accordance with the Mining Regulations of British Columbia and are indicated on Map 104 M/9E.

#### TOPOGRAPHY

The claims straddle a portion of the valley of Hope Creek, which drains westerly into Tagish Lake.

The topography is moderate to steep, rising from about 914 metres above sea level in Hope Creek to about 1524 metres above sea level to the western slopes of Bee Peak.

The lower elevations are fairly well treed with mature spruce and fir. Upper areas contain scattered conifers, willows and buckbrush.



HAPPY 1 & 2 SILGO 2 ET AL  
CLAIMS

TAGGISH LAKE AREA  
ATLIN MINING DIVISION

TOPOGRAPHIC MAP

Scale 1 - 250,000

HISTORY

In 1899, a survey party working for the White Pass & Yukon Railroad discovered free gold in quartz veins on the east side of Taku Arm of Tagish Lake. This showing ultimately became known as the Engineer Mine, and in 1902 a stamp mill was installed and a modest production of gold and silver was reported.

The Engineer Mine operated between 1913 and 1932 with the recovery of 17.418 ounces of gold.

Shortly after the discovery of the Engineer, the area surrounding the mine was prospected and staked. Part of the claims became known as the Happy Sullivan group. In 1919, a tunnel, possibly the lower one, was driven. The tunnel is reported to have been a cross-cut to a quartz vein zone some twenty-two feet wide.

In 1927, the owners optioned the group to Consolidated Mining and Smelting Company. A series of trenches cross cut an extension of the quartz zone up the hill to the north.

By 1933, the upper tunnel had been driven some 30 feet in a N 10° E direction. The Portal elevation is reported as 1143 metres above sea level. Dumps at the portal assayed very high in gold, although no free gold was visible nor any appreciable pyrite.

Little work was carried out until 1963 when the road to the Happy Sullivan was repaired and trenching attempted below the



adits. Unfortunately overburden was too deep for the tractor and trenches were only made in unaltered country rock.

Limited drilling was carried out later, but lack of funds prevented adequate logging and sampling.

The area has been relatively dormant until late 1979. Since then, minor work has been carried out.

### GEOLOGY

The area is underlain by a sequence of detrital sedimentary rocks of the Laberge Group of Lower Jurassic age. In the vicinity of the Engineer Mine, the rocks are primarily argillites and slates. To the north, in the vicinity of the Happy Sullivan group, the rocks are greywacke and it is estimated the argillites and slates are several hundred feet lower here. The whole sequence appears to strike northerly with dips of  $20^{\circ}$  -  $30^{\circ}$  to the east.

A prominent fault or shear zone, slightly arcuate in plan, curves gently to the north west from Hope Creek. The zone is estimated to be at least 80 feet wide and the shear appears to dip vertically to steeply west. The zone of quartz-carbonate veining appears to carry erratic gold values as shown by the assays.

The shear zone has not been traced south of Hope Creek and it may be possible that the Creek represents a cross-fault.



HAPPY 1 & 2 SILGO 2 ET AL  
CLAIMS

TAGISH LAKE AREA  
ATLIN MINING DIVISION

GEOLOGY MAP

Scale 1 - 250,000

LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

9 Surficial deposits; sand, silt, gravel, glacial till

CRETACEOUS OR LATER

8 Trachyte, felsite, feldspathic tuff, breccia

7 Rhyolite, trachyte, andesite flows; breccias, locally containing abundant granite fragments; probably Cretaceous or later

JURASSIC OR LATER

POST LOWER JURASSIC

COAST INTRUSIONS

6 Granodiorite, quartz diorite, granite; gabbroic and hybrid rocks of various but uncertain ages; 6a, Mid-Cretaceous; 6b, Late-Cretaceous or Tertiary

JURASSIC

LOWER JURASSIC AND LATER

LABERGE GROUP

5 Greywacke, siltstone, argillite, slate, conglomerate, limestone; 5a, may be Triassic age

PERMIAN

MIDDLE AND UPPER PERMIAN

3 Limestone, chert, andesite, basalt

PRE-PERMIAN(?)

2 Porphyritic granodiorite

PRE-PERMIAN (Mainly)

1 Metamorphic rocks of uncertain age; 1a, quartzite, gneiss, schist; limestone; 1b, chlorite schist, feldspar-chlorite gneiss, amphibole gneiss; limestone

A Volcanic rocks of uncertain age; dacite, andesite, basalt, flows, breccias, tuffs

PENNSYLVANIAN TO TRIASSIC

4 4a, undivided; andesite, basalt, tuff, breccia, volcanic conglomerate; 4b, undivided; greywacke, arkose, slate

Beds of limestone of various ages, not necessarily to scale

Geological boundary (approximate, assumed)

Bedding (horizontal, inclined, vertical, overturned)



HAPPY 1 & 2 SILGO 2 ET AL  
CLAIMS

TAGISH LAKE AREA  
ATLIN MINING DIVISION

LEGEND  
for  
GEOLOGY MAP

see P 7.

mated the argillites and slates are several hundred feet lower here. The whole sequence appears to strike northerly with dips of 20° - 30° to the east.

A prominent fault or shear zone, slightly arcuate in plan, curves gently to the north west from Hope Creek. The zone is estimated to be at least 80 feet wide and the shear appears to dip vertically to steeply west. The zone of quartz-carbonate veining appears to carry erratic gold values as shown by the assays.

The shear zone has not been traced south of Hope Creek and it may be possible that the Creek represents a cross-fault.

WORK CARRIED OUT

In June 1981, a prospecting party of two men covered the area of the claims. Outcrop is rather sparse, except for the cliff area just to the west of the shear zone. The area was criss-crossed and samples taken from several areas.

From sample sheet 8107-0958 dated July 21, 81, numbers 1-3 were from the east side of Silgo #2 (669) while 4-6 were taken on and near the main shear on Happy #2 (711). The remaining samples were taken from the Shear zone on the Crackerjack (595) and Gold Hill (596).

WORK CARRIED OUT (Contd.)

In July, a two man party spent several days drilling and blasting the roof of the upper adit. From this area and from the trench just to the north of the adit, a total of about 2200 lb. of hand cobbled rock were taken to Whitehorse for mill testing. A total of about six cubic metres was removed, of this five came from the adit area and one cubic metre from the upper trench.

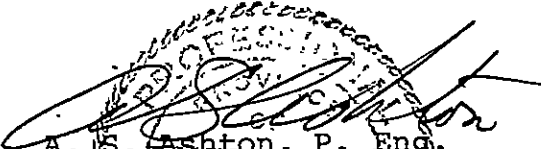
On September 26, the writer, in company with R. Carlson, examined the shear zone from Happy #2 down through Gold Bullion, Gold Hill and Crackerjack mining claims.

The samples were taken across one-metre widths from the trench above the adit. The samples were composed of silicified shear with only traces of visible sulphide.

CONCLUSION

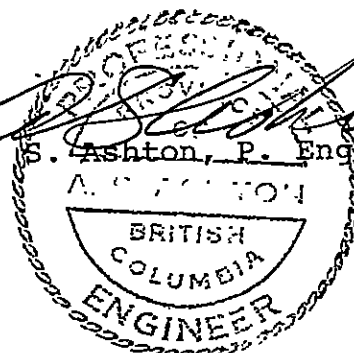
The old trenches on the shear zone should be re-opened and bulk samples from these trenches run to ascertain an average grade. Subject to these results, a further program would be proposed.

Respectfully, submitted,

  
A. S. Ashton, P. Eng.

Delta,  
British Columbia.

January 31, 1982.



REFERENCES

The following is a partial compilation of the publications having reference to the former Engineer Gold Mine and the adjoining areas:

B.C. Minister of Mines Reports for the years -

- 1900 - p. 760, 778;
- 1901 - p. 98;
- 1902 - p. 39, 296;
- 1903 - p. 44;
- 1904 - p. 80, 81, 91;
- 1908 - p. 50;
- 1910 - p. 55;
- 1911 - p. 60;
- 1911 - p. 60, 286, 287;
- 1912 - p. 60;
- 1913 - p. 72, 73, 419;
- 1914 - p. 79, 89, 93, 509, 512;
- 1915 - p. 64, 444;
- 1916 - p. 46, 438, 515;
- 1917 - p. 75, 80, 447;
- 1918 - p. 92;
- 1919 - p. 86;
- 1920 - p. 70;
- 1922 - p. 91;
- 1923 - p. 90;
- 1924 - p. 77;
- 1925 - p. 113, 355;
- 1926 - p. 64, 106;
- 1927 - p. 110, 112, 391, 480;
- 1929 - p. 505;
- 1930 - p. 122;
- 1932 - p. 65;
- 1933 - p. 36, 73, 74, 96;
- 1934 - p. A24, B34;
- 1944 - p. 40;
- 1945 - p. 43, 60;
- 1948 - p. 60;
- 1952 - p. 39

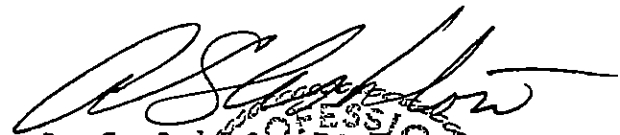

- Geological Survey of Canada Maps 218A and 19-1957
- Geological Survey of Canada Memoir 37 - p. 11, 74-89
- Geological Survey of Canada Memoir 74 - p. 107
- Geological Survey of Canada Summary Report 1930, Part A, p.11,15
- Geological Survey of Canada Economic Geology Series #1, p. 268
- Geological Survey of Canada Economic Geology Series #10, p.33-38
- Geological Survey of Canada Economic Geology Series #15, p.11
- Geological Survey of Canada Geology Bulletin #5, p.15-16, 21-22

CERTIFICATE OF QUALIFICATIONS

I, Arthur Sydney Ashton, do hereby certify that:

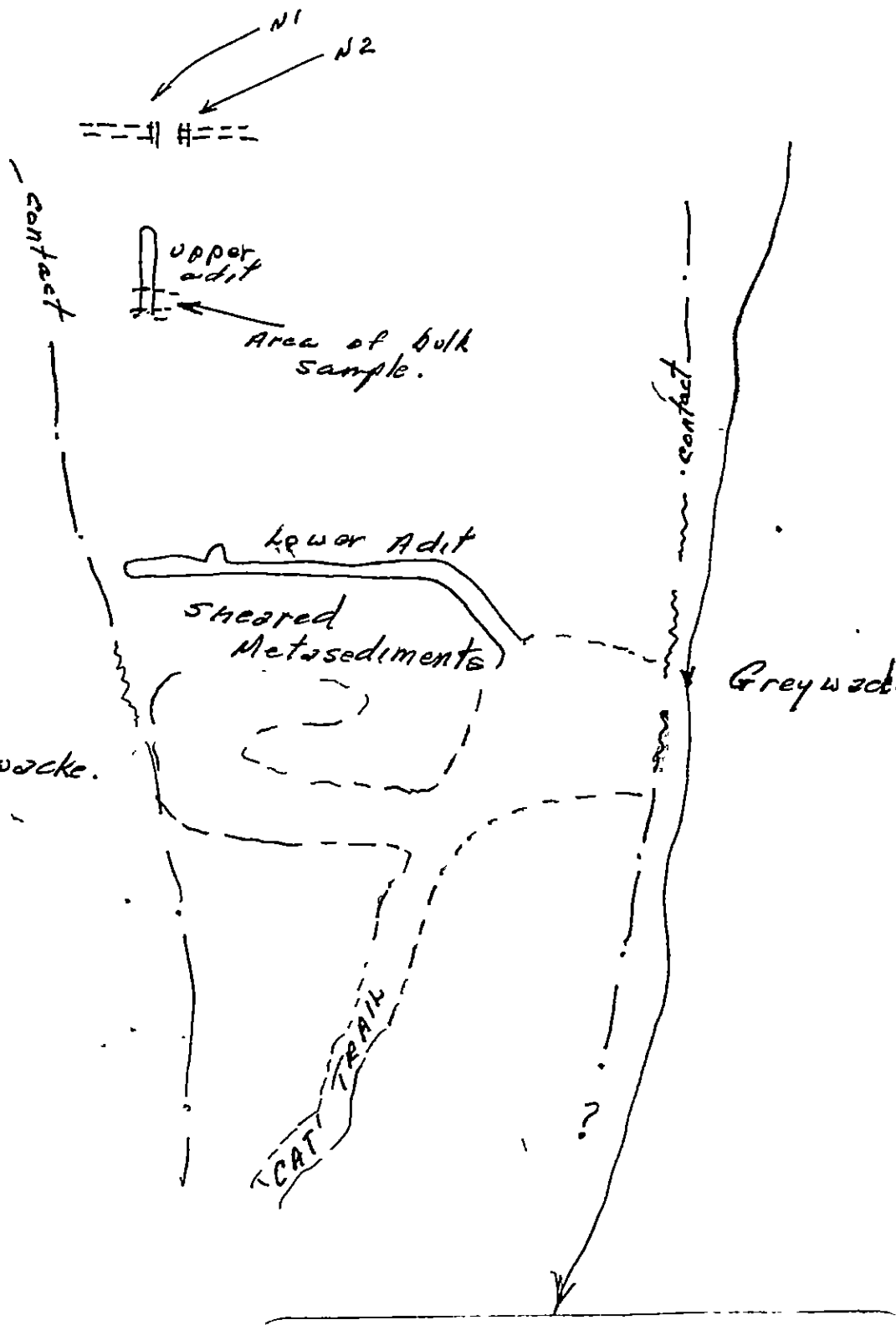
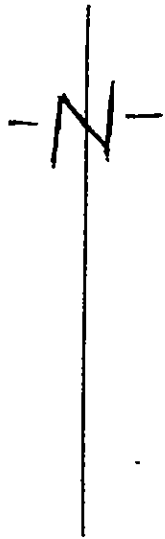
1. I am a practising geological engineer with a residence at 5441 - 7B Avenue, Delta, British Columbia.
2. I am a graduate of the University of Toronto and have been granted the degree of Bachelor of Applied Science.
3. I have been practising my profession as a geological engineer for thirty-two years.
4. I am a member of the Association of Professional Engineers of British Columbia, and a member of the Association of Professional Engineers of Ontario.
5. This report is based on visits to the property in 1980 and on September 26, 1981, and examination of Government reports.
6. I have no interest in part of the property. However, I am a Director of Nomad Resources Ltd., who have an option on the Happy 1 and reverted Crown Grants.

Delta,  
British Columbia.  
January 31, 1982.

  
A. S. Ashton  
  
The seal is circular with a double-line border. The text inside the seal reads: 'PROFESSIONAL ENGINEER' around the top and bottom edges, 'PROVINCE OF BRITISH COLUMBIA' in the center, and 'A. S. ASHTON' in the middle.

APPENDIX I





HAPPY 1 & 2 SILGO 2 ET AL  
CLAIMS

TAGGISH LAKE AREA  
ATLIN MINING DIVISION

0 — 6 m

DETAIL AREA  
OF BULK SAMPLE  
Scale 1 - 600

# General Testing Laboratories

A Division of SGS Supervision Services Inc.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2  
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE



TO:  
 MR. A.S. ASHTON  
 5441 - 7B Ave.,  
 Delta, B.C.

## CERTIFICATE OF ASSAY

No.: 8110-0657      DATE: Oct. 22/81

We hereby certify that the following are the results of assays on:      ore

MARKED	GOLD	SILVER	XXX	XXX	XXX	XXX	XXX	XXX
	oz/st	oz/st						
E-132244								
N 1	0.034	0.03	2 m chip.					
N 2	0.100	3.27	2 m chip					

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.

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**P. Buschlen, Chemist**

PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association  
 REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products • The American Oil Chemists' Society  
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

# General Testing Laborator

A Division of SGS Supervision Services

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V  
 PHONE (604) 254-1647 TELEX 04-507514 CABLE: SUP



TO:  
**NOMAD MINES LTD.**  
 101 - 535 Thurlow Street  
 Vancouver, B.C.  
 V6E 3L3

## CERTIFICATE OF AS

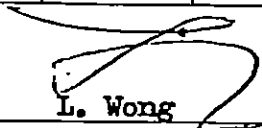
No.: 8107-0958      DATE: July 21/8

We hereby certify that the following are the results of assays on: Ore

MARKED	GOLD	SILVER	XXX	XX	XXX	XXX	XXX	XXX
	oz/st	oz/st						
1	0.002	trace						
2	0.026	0.56						
3	0.008	0.02						
4	1.231	0.45						
5	0.082	trace						
6	0.152	trace						
A-1	0.024	0.10						
A-2	0.002	1.00						
A-3	0.156	trace						
B-1	0.038	0.75						
B-2	0.002	0.07						
B-3	0.012	0.14						
B-4	0.008	5.83						
C-1	0.002	0.20						
C-2	0.002	0.12						
C-3	0.028	trace						
C-4	0.004	0.20						
T-1-R	0.032	0.39						
T-2-R	0.018	0.24						
T-3-R	2.581	1.82						
T-4-L	0.002	0.27						
T-5-L	0.079	4.27						
T-6-L	0.056	0.44						

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.

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**L. Wong**  
 PROVINCIAL ASSAYER

*Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weigh*

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Assoc  
 REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products • The American Oil Chemists' Soc  
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Tr

APPENDIX II

COSTS

May 22 - June 6, 1981

Two Prospectors wages	\$ 2,400.00
Transportation	\$ 749.00
Helicopter	\$ 686.00
Hotels & Meals & Groceries	\$ 1,055.62
Camp equipment etc.	
Fuel etc.	\$ 2,835.80
	<hr/>
	\$ 7,726.42

June 18 - July 3, 1981

Two Prospectors wages	\$ 4,800.00
Transportation	\$ 731.00
Helicopter	\$ 2,098.00
Hotel & Meals & Groceries	\$ 1,809.03
Supplies & gas	\$ 561.98
	<hr/>
	\$10,000.01

September 26, 1981

Engineer	\$ 800.00
Prospector	\$ 150.00
Hotel & Meals & Food	\$ 97.15
Transportation	\$ 731.00
Helicopter	\$ 700.00
	<hr/>
	\$ 2,478.15

January 31, 1982

Report	
Fee	\$ 400.00
Expenses	\$ 110.75
	<hr/>
	\$ 510.75

TOTAL \$20,715.33

APPENDIX II

APPENDIX III



TECHNATIONAL RESEARCH CORPORATION

3202 St. Johns Street  
Port Moody, B.C. V3H 2C9  
(604) 461-3724

29 MacDonald Road, Porter Creek  
Whitehorse, Y.T. Y1A 4L1  
(403) 633-4384

April 22, 1982

Nomad Mining Ltd.  
535 Thurlow St.  
Vancouver, B.C.  
V6E 3L3

Attn: John Bell

Dear Sir

Enclosed herewith is our report on preliminary test work conducted on the Nomad hardrock samples collected by yourselves to determine the feasibility of concentration and refining.

We are very encouraged by the results obtained thus far from the initial tests. The report contains a section of recommendations which we feel would greatly enhance the recovery, as well as increase the efficiency of producing a concentrate suitable for refining.

It has been a pleasure to serve you in this endeavor and we look forward to working closely with you on the remainder of your project.

Please feel free to contact the writer if you have any questions regarding any aspect of the report.

Respectfully

Dean Garries  
Chief Assayer

DG:gb







TECHNATIONAL RESEARCH CORPORATION  
 29 MacDonald Road 3202 St. Johns Street  
 Porter Creek Port Moody, B.C.  
 Whitehorse, Y.T., Y1A 4L1 V3H 2C9  
 (403) 633-4384 (604) 461-3724

PM 1284

(Photocopy advance to Refinery)

Client (Name) Nomac Sample No. \_\_\_\_\_

Address: 523 Rogers Building 525 Gamelle St

Telephone: { } 689-4010 John Bell 689-1481

Submitted by: Al Sweeney John Bell Weight  GROSS/NET

Results to: \_\_\_\_\_  DRY/NET

Advanced Requested: \_\_\_\_\_  B.A.R. WEIGHT (after drilling)

DESCRIPTION (Number of Containers, etc.)	ANALYSIS		
	AU	AG	PT
1 Sample #1			
"4"			

Analysis for: Gold  Silver  Platinum

Method: Chemical Assay  Fire Assay  30 Spec.  60 Spec.

Analysis Fees (Prepaid) \_\_\_\_\_ Total Amount Paid \_\_\_\_\_

Work Program: Assay Only  Extraction Assay   
 Assay and Concentrate  Research   
 Refine

Origin of Material \_\_\_\_\_

Remarks: Analysis as per CUS method

Disposition: Return Metal  Hold on Deposit  Sell

Client Authorization \_\_\_\_\_ Date \_\_\_\_\_

Received by: B. Papp Date 4/23/82

Advance Approved: \_\_\_\_\_ Date \_\_\_\_\_

Transferred to: Concentrating Dept.  Refining Dept.  Sales & Inventory Control  Signed Received \_\_\_\_\_

THIS CONTRACT IS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE OF THIS AGREEMENT.

RECEIVING & ASSAY DEPARTMENT



REPORT  
ON  
GOLD & SILVER BEARING HARDROCK ORE  
FOR  
NOMAD MINING LTD.

Summary

The bulk of the gold and silver is associated with sulfides and iron which are occluded in the host rock.

Primary and secondary crushing of the ore was followed by tertiary milling (then concentrating). Middlings from the table were remilled, concentrated and combined with the primary table concentrate to provide a final material suitable for assaying and refining to 999.9 fine gold.

Ore Preparation and Concentration

The feed material was weighed, primary and secondary crushed to 81% minus 1/4 mesh by jaw crushing. Tertiary milling to 80% minus 80 mesh was accomplished using a ballmill.

The ballmill discharge was concentrated using a shaker table. All middling products were remilled and concentrated.

A grab sample of the tailings from the shaker table was taken.

Sampling

A ballmill feed sample was taken at fifteen (15) minute intervals from the feed belt to the ballmill: three (3) cross cuts were taken for each sample. All sample cuts were combined, riffle mixed and split using a Jones Riffle. This procedure was used for both "Upper Vein" and "Addit" feed samples.

The concentrate from the shaker table was dried and weighed.



The middlings from the shaker table were mixed, and split with the reject being returned for remilling and concentrating. This concentrate was added to the first concentrate; the sample was again riffle mixed and split to obtain an assay sample. The concentrate reject was saved in order to refine to 999.9 fine gold.

The grab sample of the tailings from the shaker table was screened to determine particle size, and for visual inspection. This sample was also used to obtain the assay results.

#### Sample Preparation and Assaying

All samples were pulverized and screened to minus 100 mesh and plus 100 mesh. Conventional fire assay techniques for metallic assays were followed.

The "Upper Vein ballmill discharge", "Upper Vein concentrate tailings", "Addit ballmill discharge", and "Addit tailings" were screened in order to perform a visual inspection and to determine the proper particle size for recovery of precious metals. (Table 1).

In every sample screened the plus sixty (+60) mesh and plus eighty (+80) mesh contained visible sulfide and iron particles. The minus eighty (-80) mesh contained very little sulfide or iron particles.

The assay results obtained and metallurgical balance are summarized for the Upper Vein (Table 11) and Addit (Table 111).

The feed and tailings sample had a tendency to yield erratic assay results most probably due to the unhomogeneity of the initial sample and particle size. Average results for feed sample and tailings sample were used for calculations.

#### Extraction of Table Concentrates

Gold from the Upper Vein table concentrate, and Addit table concentrate were extracted and refined to 999.9 fine gold. Table IV indicates recovery and calculated recoveries.



### Conclusions and Recommendations

The majority of the gold and silver contained in the host hardrock ore is occluded in sulfides and iron material. In order to achieve the highest percent recovery it will be necessary to mill the ore to minus eighty (-80) mesh or finer. With this mesh size we feel a higrade concentrate can be produced, which will be amenable for our concentrating and refining process.



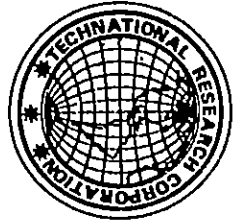
Table I  
Screen Analysis

Sample Description	Weight Percent		
	+60 mesh	+80 mesh	-80 mesh
Upper Vein Ballmill Discharge	11.54%	5.43%	83.03%
Upper Vein Tailings	22.01%	10.70%	67.29%
Addit Ballmill Discharge	11.46%	14.78%	81.52%
Addit Tailings	15.90%	15.10%	69.00%



Table II  
Upper Vein Assay Results and Metallurgical Balance

Sample Description	Weight (Kg)	Assay Troy Oz/Ton		Grams Per Sample		Troy Oz Per Sample		Calculated Troy Oz/Ton	
		Au	Ag	Au	Ag	Au	Ag	Au	Ag
Feed	512.8	4.70	1.99	82.63	34.63	2.66	1.12	3.87	1.63
Table Concentrate	2.7552	453.4	277.3	42.83	26.19	1.38	0.84	2.01	1.22
Tailings	510.1	2.13	0.51	37.25	8.92	1.20	0.29	1.74	0.42
Metallurgical Balance	—	—	—	80.08	35.11	2.58	1.13	3.75	1.64



~~Table III~~  
Addit Assay Results and Metallurgical Balance

Sample Description	Weight (kg)	Assay Troy Oz/Ton		Grams Per Sample		Troy Oz. Per Sample		Calculated Troy Oz/Ton	
		Au	Ag	Au	Ag	Au	Ag	Au	Ag
Feed	422.5	0.51	0.37	7.39	5.36	0.24	0.17	0.42	0.30
Table Concentrate	1.2777	120.5	92.92	5.29	4.07	0.17	0.13	0.30	0.23
Tailings	421.3	0.10	0.08	1.44	1.16	0.05	0.04	0.24	0.07
Metallurgical Balance	—	—	—	6.73	5.23	0.22	0.17	0.54	0.30





Table IV  
Gold Extraction from Concentrates  
Sample Weights

Sample Description	Weight in Grams Initial Concentrate Sample	Weight in Grams of Assay Sample	Weight in Grams of Concentrate Sample Extracted
Upper Vein Concentrate	2,755.2	1,284.9	1,470.4
Addit Concentrate	1,277.7	268.31	1,016.6

Table IV  
Gold Extracted from Concentrates

Sample Description	Weight in Grams of 999.9 fine Gold from Extraction	Weight in Troy Oz of 999.9 fine Gold from Extraction	(Calculated) Troy Oz of 999.9 fine Gold in Initial Concentrate	(Calculated) Troy Oz of 999.9 fine Gold Per Ton of Concentrate
Upper Vein Concentrate	21.42	0.69	1.29	425.64
Addit Concentrate	5.82	0.19	0.24	170.76



**TECHNATIONAL RESEARCH CORPORATION**

3202 St. Johns Street  
Port Moody, B.C. V3H 2C9

Tel: (604) 461-3724

29 MacDonald Road  
Porter Creek  
Whitehorse, Y.T. Y1A 4L1  
Tel: (403) 633-4384

**(CERTIFICATE OF ANALYSIS)**

TO: **Nomad Mining**  
**535 Thurlow Street**  
**Vancouver, B. C.**  
**V6E 3I3**

DATE: April 22, 1982

Sample Number W1377	Gold	Silver	Platinum			
	oz/ton	oz/ton	oz/ton			
ADDIT HEAD	0.51	0.37				
ADDIT TABLE CONC	120.5	92.92				
ADDIT TAILS	0.10	0.08				

  
Gov't. Certified Assayer

**FIRE ASSAY**

Samples or parts thereof retained 30 days unless otherwise arranged.

All reports are the confidential property of clients. Publication of statements, conclusions or extracts from or regarding our reports is not permitted without our written approval. Any liability attached thereto is limited to the fee charged.



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Tel: (403) 633-4384

## (CERTIFICATE OF ANALYSIS)

TO: Nomad Mining  
535 Thurlow Street  
Vancouver, B.C.  
V6E 3I3

DATE: April 22, 1982

Sample Number	Gold	Silver	Platinum			
W1377	oz/ton	oz/ton	oz/ton			
UPPER VEIN HEAD	4.70	1.99				
UPPER VEIN TABLE CONC	453.4	277.3				
UPPER VEIN TAILS	2.13	0.51				

  
Don Parrie  
Gov. Certified Assayer

FIRE ASSAY

Samples or parts thereof retained 30 days unless otherwise arranged.

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29 MacDonald Road, Porter Creek  
 Whitehorse, Y.T. Y1A 4L1  
 (403) 633-4384

DATE APRIL 22/82

INVOICE NO. Nº \$ 1604

SOLD TO: NOMAD  
 302 HAWKINS STREET  
 WHITEHORSE, YUKON

Nomad Mining  
 535 Thurlow Street  
 Vancouver, B.C.  
 V6E 3L3

PARTICULARS	Troy Ounces	Amount
Charge for W1377		
<u>Upper Vein</u>		
Crushing and milling	33 hrs	\$100.00
Tabling	5 hrs	\$100.00
Assaying 1 metallic	(1 x \$50.00)	\$ 50.00
" 2 nonmetallic	(2 x \$25.00)	\$ 50.00
Refining (extraction)		\$ 100.00
<u>Addit</u>		
Crushing and milling	17 hrs	\$100.00
Tabling	2 hrs	\$100.00
Assaying 1 metallic	(1 x \$50.00)	\$ 50.00
" 2 nonmetallic	(2 x \$25.00)	\$ 50.00
Refining (extraction)		\$ 100.00
Consulting fee 1 day		\$ 400.00
		<hr/>
		\$6,500.00
Less Invoice S1587 - Deposit		\$1,000.00
		<hr/>
TOTAL AMOUNT DUE		\$5,500.00
		<hr/> <hr/>

PROSPECTING REPORT

ON THE

TAGISH CLAIMS

ATLIN MINING DIVISION  
BRITISH COLUMBIA

During the period May 22 to June 6, 1981, a series of traverses was made over the claims. Initially, several days were spent constructing the camp. Tent frames were made from plywood and two by fours for a cookery, warehouse and sleep camp.

The 'A' traverse was carried out over three days. The traversing was carried out up a steep overburdened hill on the approximate strike of the shear zone. Up the hill are a series of old caved trenches, which do not indicate whether bed rock was exposed. The west end of the traverses terminated on a light grey to whitish, thin-bedded greywacke.

The only outcrop within the shear was sampled with the results as follow:

Portal of lower adit			Au/oz.	Ag/oz.
B-1	pyritized greywacke and slates	0.2 M	0.038	0.75
B-2	" " " "	0.2 M	0.002	0.07
B-3	" " " "	0.1 M	0.012	0.14
Trench above camp				
A-1	pyritized greywacke	1.0 M	0.024	0.10
A-2	" "	1.0 M	0.002	1.00
A-3	" "	0.2 M	0.156	tr.

Samples from either side of the upper adit				Au/oz.	Ag/oz.
C-1	West side	greywacke	0.5 M	0.002	0.20
C-2	"	"	0.5 M	0.002	0.12
C-3	East	"		0.028	tr
C-4	"	"		0.004	0.20

Upper trench

T3R	quartz vein		0.2 M	2.581	1.82
T2R	adjoins east	greywacke	1.0 M	0.018	0.24
T1R	furthest east	greywacke	1.0 M	0.032	0.39
T4L	adjoins quartz vein	greywacke	1.0 M	0.002	0.27
T5L		greywacke	0.5 M	0.079	4.27
T6L		greywacke	0.5 M	0.056	0.44

At the north end of the traverse, a mineralized silicified greywacke was found near a greywacke outcrop which was not as well mineralized or silicified.

4	Mineralized greywacke float			1.231	0.45
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Traverse 'B' carried along the flank of Bee Mountain and then up along a westward trending spur. The whole upper area was thin-bedded argillites and slates. No mineralization was found nor any alteration.

Traverse 'C' covered up to the small lake on Happy 2 claim along the south shore to the west end of the lake. About 1 unit length west of the lake is a low, erratic greywacke outcrop. Two greywacke samples were taken from the outcrop with results as follow:

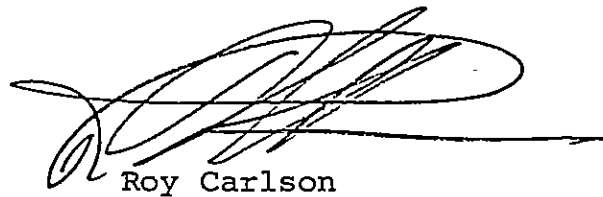
5	greywacke (loose) minor pyrite			0.082	tr.
6	greywacke silicified pyritized (loose)			0.152	tr.

Traverse 'D' covered part of the Silgo 2 claim. The area slopes to Taku Arm and is heavily covered with second growth spruce, aspen and undergrowth.

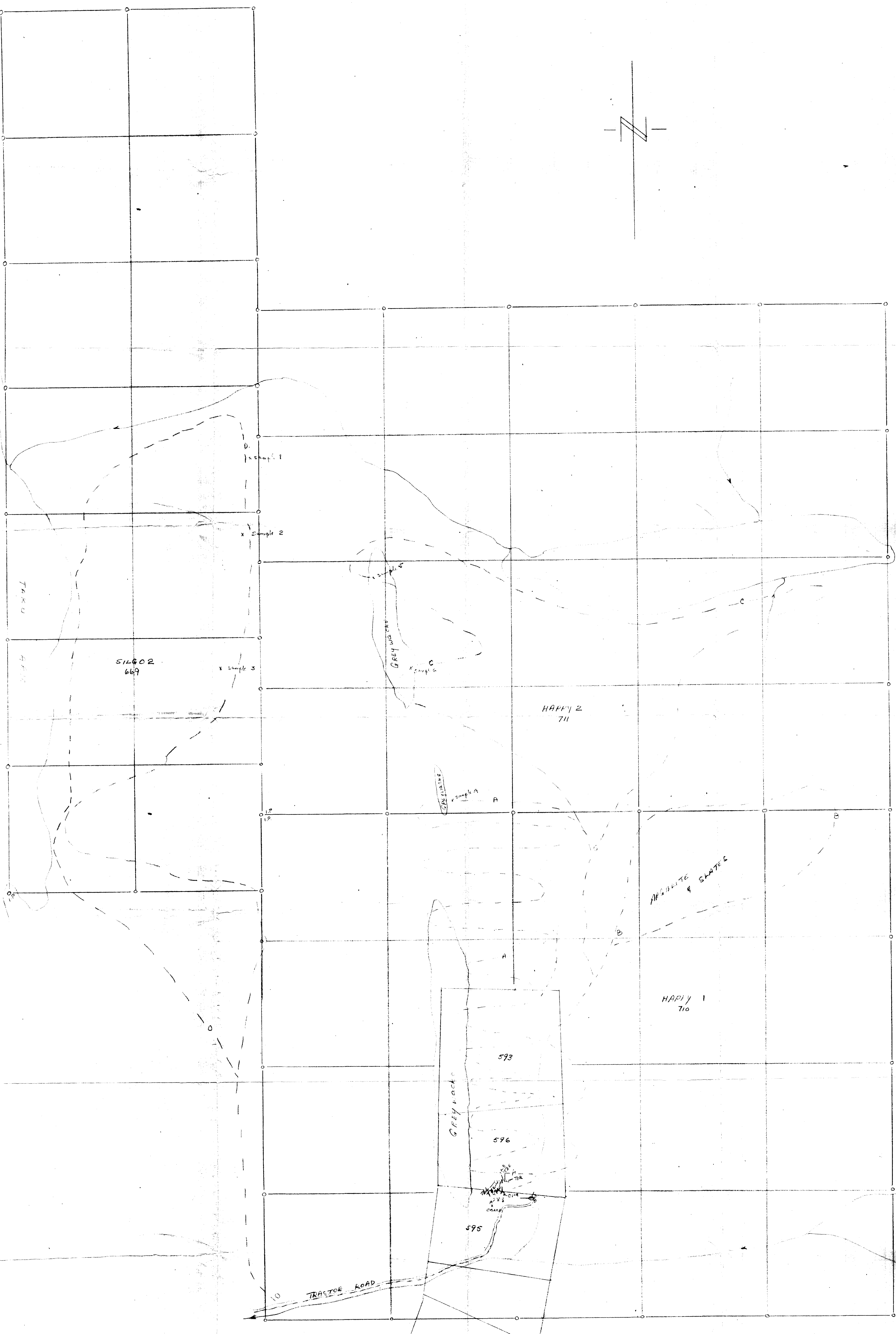
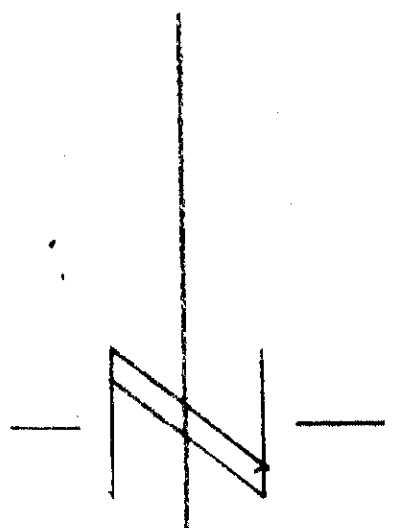
Outcrop is scarce, although overburden does not appear to be deep. Three grab samples were picked up from greywacke outcrop.

1	greywacke	0.002	trace
2	"	0.026	0.56
3	"	0.008	0.02

The best zone appears to be restricted to the shear zone on claims 593, 595 and 596.



Roy Carlson



SILGO 2  
669

HAPPY 2  
711

AFRICA  
& SLATES

HAPPY 1  
710

GREY SLATES

593

596

595

TRACTOR ROAD

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**10511**  
NO.

HAPPY 1 & 2 SILGO 2 ET AL  
TAGISH LAKE AREA  
ATLANTIC DIVISION  
PROSPECTING MAP

To Assessment Report dated Jan 31/82  
by H. BENTON & K. CARSON

Scale 1:5000  
0 100 m