6046

6046

Geochemical Assessment
Report
on the

SPUZ A; SPUZ B and MAJ Claims

SPUZ A;B
MAJ

situated
Seven (7) Air Kilometers
Northeast of the town of
Yale
New Westminster Mining Division
Yale District
Southern B.C.

92H/11W

Townships 6 and 7, Range 25
N.T.S. 92H/11West

Latitude 49°35' North: Longitude 121°20' West

Southern British Columbia

Field Work Between June 9 and August 9, 1976
by

LONGBAR MINERALS LTD.

Report by:

D. R. Cochrane, P.Eng.,
October 22, 1976,
Delta, B.C.

Cochrane Consultants Limited
4882 Delta St., Delta, B.C. V4K 2T8 946-9221
Geotechnical Consulting / Exploration Services

geology
geophysics
geochemistry

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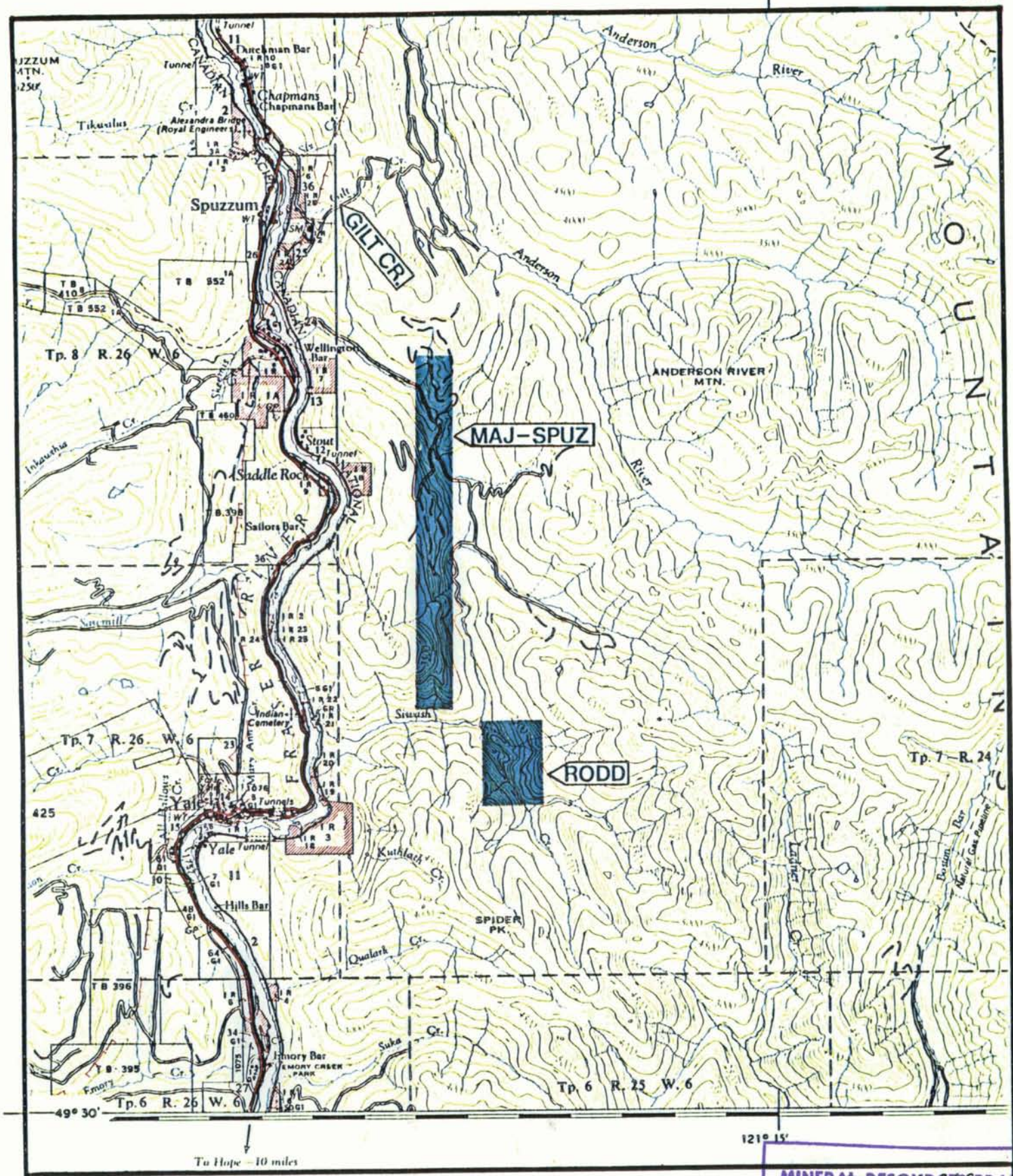
INTRODUCTION

Early in June, 1976, a field crew under the supervision of Mr. Jon Stewart of Powell River, B.C. mobilized to the Spuz-Maj claims near Yale, B.C. and proceeded to establish a ground grid and collect geochemical soil samples. The claims lie at the north end of the Coquihalla Gold Belt and the soil samples were analyzed for gold by Min-En Labs in Vancouver.

This report describes the setting, procedures employed and discusses the results obtained. Much of the important data is presented in graphic form on the accompanying maps, and the details for assessment work purposes are appended.



Longbar Minerals Limited.

MAJ - SPUZ - SIWASH CREEK PROJECT

Figure 1 Location

Dept of L. F. & W.R. Sheet 92 H/NW

Cochrane Consultants Limited
4082 Delta Street Delta B.C.

1 : 125,000 or 1" = 2 mi.

PART A: BACKGROUND

A-1 Location and Access

The Spuz and Maj claims are located in the North Cascade Mountains and lie immediately east of the Fraser River between Siwash and Hidden Creeks. Normal access is by truck across the Alexander Bridge on Highway No. 1 (Fraser Canyon Highway) then southerly and easterly by a series of logging roads to the claims area. (See Figure 1 and 26) The area is actively logged and arrangements with Catermole Logging and/or a two-way radio is necessary to ensure road safety.

Alternate access is via helicopter from the airport at Hope or from the heliport at Agassiz.

The N.T.S. code for the area is 92 H/11 west, Latitude 49°35'N; Longitude 121°20' west.

A-2 Claims Information

The Spuz A, Spuz B and Maj claims are contiguous and are 2 units (east-west) wide by 17 units long. They were staked under the new staking regulations by Mr. D. Murphy of Vananda, B.C. in October of 1975.

The following lists pertinent claims information.

Claim Name	No. Units	Record No.	Expiry Date*
Spuz A	10	66	October 24, 1976
Spuz B	12	67	October 24, 1976
Maj	12	53	September 12, 1976

*Prior to this assessment work submission

A-3 Setting

The claims lie in the North Cascade Mountain Range which is a rugged upland surface noted for steepness, thick bush and rain. Elevations in the general area range from 65 meters at Yale to 1460 meters above sea level on the Anderson River Mountain east of the claims. Variation in topography within the claims boundaries is fairly modest, since the claims lie along a north trending unnamed ridge immediately east of the Fraser River.

The Spuz and Maj claims straddle the Coquihalla Serpentine band and Hozameen Fault which marks the west boundary of the Methow Grabben, a major crustal feature separating Upper Jurassic Ladner Group slates from Paleozoic Hozameen Group cherts and metavolcanic rocks.

This major feature is also the central axis of a series of gold occurrences which include five former gold producers, from south to north, namely; the Dawson (or Emancipation), Aurum, Pipestem (or Home Gold), Georgia No. 2 and Ward.

Past production is modest however, and is tabulated below:

Property	Years	Tons	oz. Gold	oz. Silver
Emancipation	1916-41	638	2897	605
Aurum	1930-42	545	533	97
Pipestem	1935-37	1650	272	37
Georgia No. 2	1925	2	37	
Ward	1905	---	135	
	Total		3874	

Source: B.C. Dept. of Mines Record of Lode Metal Production Table 1, Index No. 3

Recent exploration interest in the area has been sparked by the higher price of gold on the open market, and by the discovery of a large tonnage deposit by Carolin Mines (The Idaho Zone) located some 10 kilometers south-southeast of the south boundary of the Spuz claims.

PART B: METHODS

Soil samples were collected at regular intervals along compass flag and chain lines. Normally a sample of the upper "B" soil horizon was collected and placed in a standard Kraft paper bag. Stream sediment (silt) samples were collected from "fine" silt material in streams, where such was available.

All samples were shipped to Min En Labs in Vancouver for analysis of their content in gold. Determination of gold was by Atomic adsorption method. Other field work included prospecting and hand panning for gold.

The crew worked from a trailer camp situated at the north end of the Spuz B claim.

Analytical results were sent to the office of Cochrane Consultants Ltd. and drafting was completed by Mr. B. A. Cochrane.

Mr. Jon Stewart of Powell River, B.C. supervised the field work.

PART C: DISCUSSION OF RESULTS

Min En Labs uses an atomic adsorption method for determining the amount of gold in a particular sample, and results are normally presented in parts per billion (p.p.b.). The detection limit is 5 p.p.b. and values designated <5 are below detection limit.

Note: One thousand part per billion (1,000 p.p.b.) is equivalent to one (1) part per million which in turn is equivalent to 0.029 troy ounces per short ton. Alternately 1,000 p.p.b. represents an equivalent assay of $2.90 in gold with gold valued at $100.00 per ounce.

An arbitrary threshold of 50 p.p.b., or 10 times the detection limit is herein defined, and "anomalous" results are therefore those areas characterized by a gold content in soils of in excess of 50 p.p.b.

It has been the author's experience that areas anomalous with respect to the amount of gold in soil samples are usually indicative of coincident areas of high gold content in underlying bed rock. This is due to the extremely low mobility of gold in the weathering cycle, since most transportation is probably due to mechanical action (glacial movement, soil creep and slump, water action, etc.) and is limited in areal extent except in precipitous topography. Therefore most of the areas outlined in red on the accompanying maps probably are indicative of areas of coincident bedrock which is anomalous with respect to gold.

The peak value obtained was 9900 p.p.b. gold on the Quartz anomaly (see maps). The +50 p.p.b. zone around the peak value is approximately 75 meters long and 30 meters wide.

PART D: CONCLUSIONS

1. Geochemical soil sampling of the upper B soil horizon (and analysis for gold) with coincident prospecting and panning appears to be an effective exploration technique in some areas of the Spuz and Maj claims.

2. There appears to be a sufficient contrast in gold results so that "anomalous" areas are easily defined.

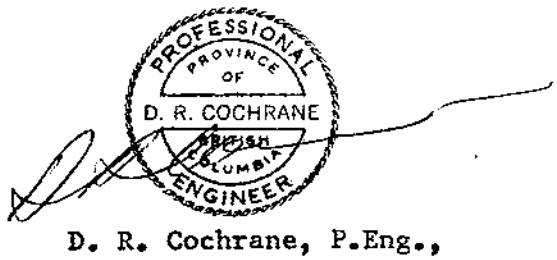
3. Anomalous areas with respect to the content of gold in the soil are probably indicative of nearby bedrock zones which are also geochemically anomalous with respect to gold.

4. The anomalous area should be further investigated by bulldozer trenching, possibly followed by diamond drilling if trenching results are favourable.

5. Fill in lines are required in several areas.

6. Low gold values in the soils do not necessarily reflect low gold values in the underlying bedrock since there may be a condition preventing the dispersion of gold (thick clay layer, excessive overburden thickness, etc.)

Respectfully submitted,



D. R. Cochrane, P.Eng.,
Oct. 22, 1976,
Delta, B.C.

APPENDIX I

Assessment Work Details

Claim: Spuz A - 10 units - Geochemical Survey

1. Dates work completed:

   June 10, 11, 14, 15, July 7, 8, 9, 16, 26, Aug., 6, 9

2. Ground Transportation

11 days @ $25.00 per day per truck - 2 trucks	$ 275.00

3. Labour Costs

Field Superintendent	
Jon A. Stewart, 11 days @ $80.00/day	880.00
Field Men	
G. Beyko, 50 hours @ $6.88 (6½ days)	344.00
L. Ouellette, 40 hours @ $6.88 (5 days)	275.20
M. Lee, 22½ hours @ $8.50 (3 days)	191.25
G. White, 24 hours @ $6.07 (3 days)	145.68

4. Food and Accommodation Costs

Food - 17½ Man Days @ $15.00/day	262.50
Camp Costs - 11 days @ $25.00 (camper, trailer, hand tools, geochem bags, flagging, etc.)	275.00

5. Min-En Assay Fees

360 samples @ $3.85 each	1386.00

6. Consulting Fees — 814.14

7. Total — $ 4848.77

APPENDIX I

Assessment Work Details

Claim: Spuz B - 12 units - Geochemical Survey

1. Dates Work Completed

   June 10, 11, 14, 16, July 14, 26, Aug. 6, 9

2. Ground Transportation

8 days @ $25.00/day per truck (2 trucks)	$ 400.00

3. Labour Costs

Field Superintendent	
Jon A. Stewart - 8 days @ $80.00/day	640.00
Field Men/Geophysical Crews	
G. Beyko, 27 hours @ $6.88 (2½ days)	185.76
L. Ouellette, 25 hours @ $6.88 (3 days)	172.00
M. Lee, 12½ hours @ $8.50 (1½ days)	106.25
G. White, 5 hours @ $6.07 (1 day)	30.35

4. Food and Accommodation Costs

Food - 8 man days @ $15.00/day	120.00
Camp Costs - 8 days @ $25.00	200.00

5. Min-En Assay Fees, 81 samples @ $3.85 each	311.85
6. Consulting Fees	678.45
7. Total	$ 2844.66

APPENDIX I

Assessment Work Details

Claim: Maj Group - 12 units

1. Dates Work completed

   June 9, 15, July 14, 16

2. Ground Transportation
   4 days @ $25.00/day per truck (2 trucks) $ 100.00

3. Labour Costs

   Field Superintendent
   Jon A. Stewart, 4 days @ $80.00/day 320.00

   Field Men/Geophysical Crews
   G. Beyko, 24½ hours @ $6.88 (3 days) 168.56
   L. Ouellette, 24½ hours @ $6.88 (3 days) 168.56
   M. Lee, 4½ hours @ $8.50 (½ day) 38.25
   G. White, 12½ hours @ $6.07 (1½ days) 75.88

4. Food and Accommodation Costs

   Food - 4 Man Days @ $15.00/day 60.00

   Camp Costs, 4 days @ $25.00 100.00

5. Geochemical Assays - 104 samples @ $3.85 400.40

6. Consulting Fees 814.14

7. Total $ 2245.79

APPENDIX II

Certificate

I, Donald Robert Cochrane, of the Municipality of Delta, British Columbia, do hereby certify that:

1. I am a consulting geological engineer with an office at 4882 Delta Street, Delta, B.C.

2. I am a graduate of the University of Toronto (1962) with a degree in Applied Geology (B.A.Sc.) and a graduate of Queen's University (1964) with a degree in Economic Geology (M.Sc., Eng.)

3. I have practiced my profession continuously since graduation while being employed by such companies as Noranda Exploration Co. Ltd., Quebec Cartier Mines, and Meridian Explorations Syndicate. I have been in private independant practice since 1969.

4. I have no interest, either direct or indirect in the properties or securities of Longbar Minerals Limited, nor do I expect to acquire any such interest.

5. I am a member in good standing of the Association of Professional Engineers (A.P.E.) of the Province of British Columbia, and also a member of the A.P.E. in the Province of Ontario, Saskatchewan, and the Yukon Territories.

Oct. 22, 1976
Delta, B.C.

D. R. Cochrane, P.Eng.

Longbar Minerals Ltd.
Gold Belt Project
Fraser R. (Siwash to Gilt Cr.) Area
New Westminster Mining Division
B. C. N.T.S. 92H/11W.
0 1000 2000 4000ft.
1" = 1/4 mile
0 1/4 1/2 3/4 mile
1:15840
0 500 1000 metres
Base map from Forestry 20 chain planimetric, 92 H/11 c, d, e, and f.
August, 1976 B. A. C.
FIGURE 26
GEOCHEMICAL SAMPLING
(RECONNAISSANCE)
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
Cochrane Consultants Limited
Legend:
LINE (cut & flagged)
SOIL SAMPLE Au - parts per billion.
SILT SAMPLE Au - parts per billion.
ROCK GEOCHEM Au - parts per billion. Ag - parts per million.
PAN SAMPLE
L LESS THAN 5 ppb.
MINERAL RESOURCES BRANCH ASSESSMENT REPORT
NO. 6046
MAP NO. #1
6046
DATE OF OWNERSHIP STATUS
DATE OF PHOTOGRAPHY 1973
121° 22' 30"
49° 37' 30"
FRASER RIVER
FRASER
ANDERSON
EAST
Chapmans
Spuzzum
Stout
Saddle Rock
Six
Gilt Cr.
Gilt Cr. Silting
Gilt Cr. "B" Silting
NPL Grid
Goss 2 Line
Goss 1 Line
North Fork Siwash Cr.
Hidden Cr.
Siwash
Siwash Cr.
Roddick Cr.
Rodd Grid
L.C.P. "MAJ"
L.C.P. "SPUZ A"
L.C.P. "SPUZ B"
NO COLOURS
SEE DETAIL MAP 1" = 500'
Kuthlath
Kuthlath Cr.
Qualark
Qualark Cr.
Qualark Creek
Suka
Suka Cr.
Suka Creek
SPIDER PK.
I.R. 4
I.R. 4A
I.R. 7
I.R. 8
I.R. 9
I.R. 1
I.R. 1A
I.R. 3
B.C. 7477
B.C. 7476
B.C. 7475
B.C. 7474
B.C. 7468
TO SCU

Longbar Minerals Ltd.

Spuz 'A' & Spuz 'B' Claims
North Fork Siwash Creek Area
New Westminster Mining Division
B. C. N.T.S. 92H/11W.

0 500 1000 1500 ft.
1" = 500' 1:6,000
0 100 200 300 400 metres

Traced from air photo flown September, 1974. B.A.C., August, 1976.

FIGURE 27
GEOCHEMICAL SOIL SAMPLING
VALUES Au - ppb.

PROFESSIONAL ENGINEER OF B. R. OCHIPINTI

Cochrane Consultants Limited

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6046
MAP NO. #2

6046

L.C.P. Spuz 'A'
50N
40N
30N
L.C.P. Spuz 'B'
10N
1N
Line 'Spuz A'
camp
30N
20N
10N
1N
Line 'Spuz B'
40N
30N
20N
10N
Line N.F.
30N
20N
10N
1N
Line N. Fork
Quartz Vein Grid see detail 1.
North Fork Siwash Creek
POWER LINE CLEARING
Siwash Creek
2000'
3000'

DETAIL 1.
0 50 100 200 ft.
1" = 100' 1:1200
L 7+50W
L 7+00W
L 6+50W
11N
10N
9N
8N
7N
6N
5N
4N
3N
2N
1N
0
1S
2S