

ASSESSMENT REPORT

1980 GEOCHEMICAL SURVEY FOR SANDY 2, 3, 4,

QUEEN FRACTIONAL AND MERCURY 1A CLAIMS

LILLOOET MINING DIVISION

920/2 E & W

51°02'N; 122°00'W  
tc

For: Florence C. Westbrook

by: Western Mines Limited

Rodney Arnold

October 24, 1980

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

NO. 8354

(4)

TABLE OF CONTENT

	<u>PAGE</u>
1. TABLE OF CONTENT	1
2. INTRODUCTION	2
2.1 CLAIMS AND OWNERSHIP	2
3. GEOCHEMICAL SURVEY	6
3.1 DESCRIPTION OF WORK	6
3.2 PURPOSE OF SURVEY	6
3.3 ANALYSIS	7
4. GEOLOGY AND MINERALIZATION	7
5. INTERPRETATION	7
6. ITEMIZED COST STATEMENT	8
7. STATEMENT OF QUALIFICATIONS	9

LIST OF FIGURES

Fig. 1	LOCATION MAP	3
Fig. 2	CLAIM LOCATION MAP	4
Fig. 3	GEOCHEMICAL SURVEY DATA	(in pocket)

## INTRODUCTION

The Sandy 2, 3, 4, Queen Fractional and Mercury 1A mineral claims are located in the Chilcotin Ranges of the Coast Mountains east of Tyaughton Creek - about 2½ kms southeast of the Relay-Tyaughton Creek junction. Elevation on the property ranges between 3700 ft. to 5500 ft. The slope is moderate to steep with pine, fir and occasional poplar groves.

Access to the property is via good gravel road for 21½ kms north of Carpenter Lake. Gold Bridge lies 33 kms to the south.

The region has long been known to prospectors for mercury and antimony. However, it was 1939 before scheelite was discovered on ground owned by Mr. Edwin Phillips of Minto (Tungsten Queen). Mr Phillips mined and shipped about 9 tons of hand cobbled ore to Ottawa in 1940. During 1941-42, Consolidated Mining and Smelting Company of Canada (Cominco) leased the Tungsten Queen property from Mr. Phillips, drove two short adits high grading approximately 3 tons of ore. The agreement was terminated in July 1942.

During 1942, Mr. Gunnar Lundberg of Minto hand mined and trucked to Bralorne 7 tons of ore from the Tungsten King property, north of the Sandy et al claims.

The property lay dormant until 1965 when Canex undertook a regional exploration program east and west of the Tungsten Queen. Then in 1968, Bethlehem Copper Corporation Ltd. optioned the properties (Tungsten Queen and King) from Mr. Phillips and conducted geochemical silt and soil surveys, a magnetometer survey and geological mapping and prospecting which resulted in road building and trenching.

In 1977, Nuspar Resources Ltd. under option to Mrs. Florence C. Westbrook, carried out geological mapping and a 5 hole AX diamond drill program totalling 455 ft. on the Tungsten Queen property.

## CLAIMS AND OWNERSHIP

The property consists of 3 located claims and two fractions located in the Lillooet Mining Division on claim maps 920/2E & 2W.

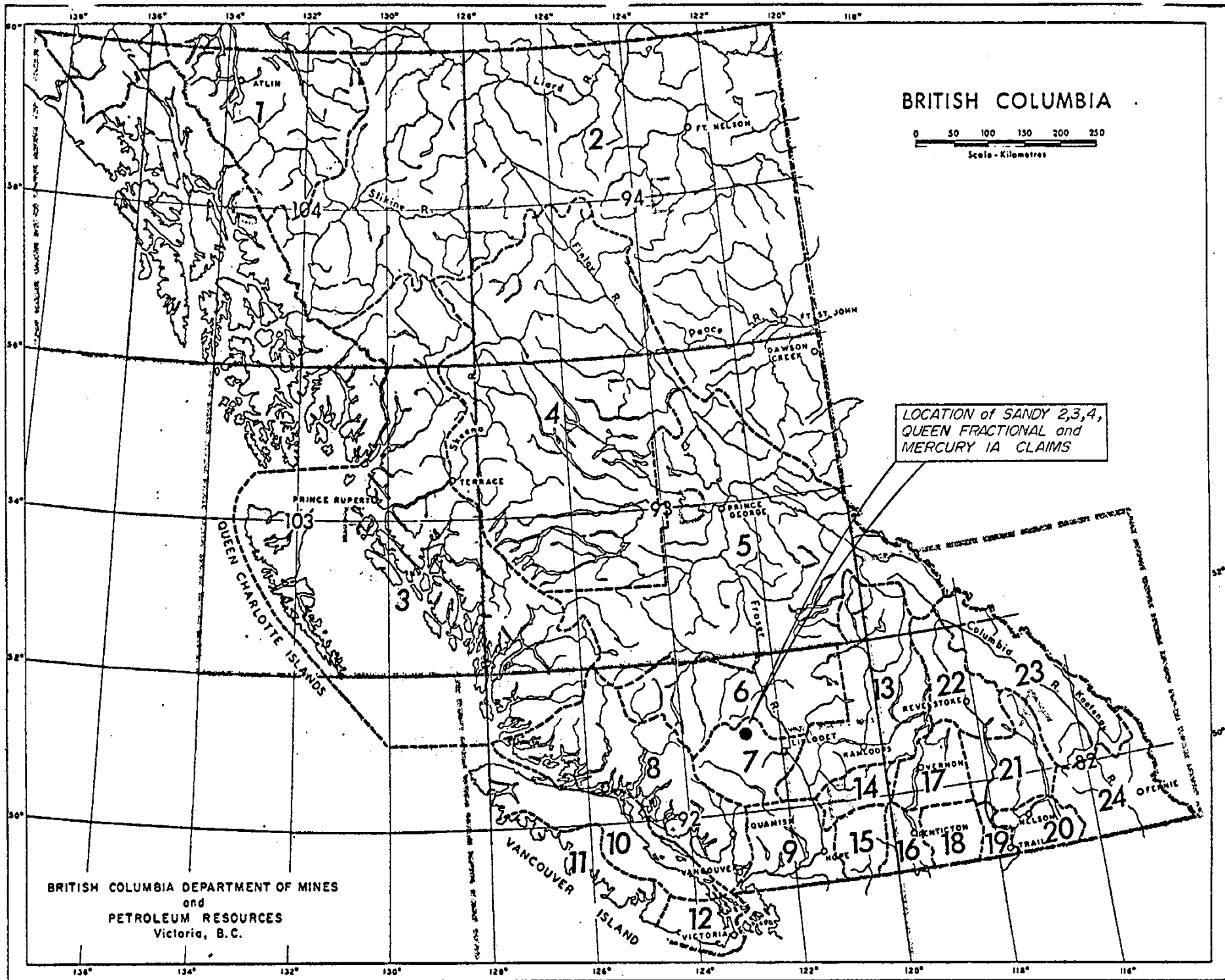
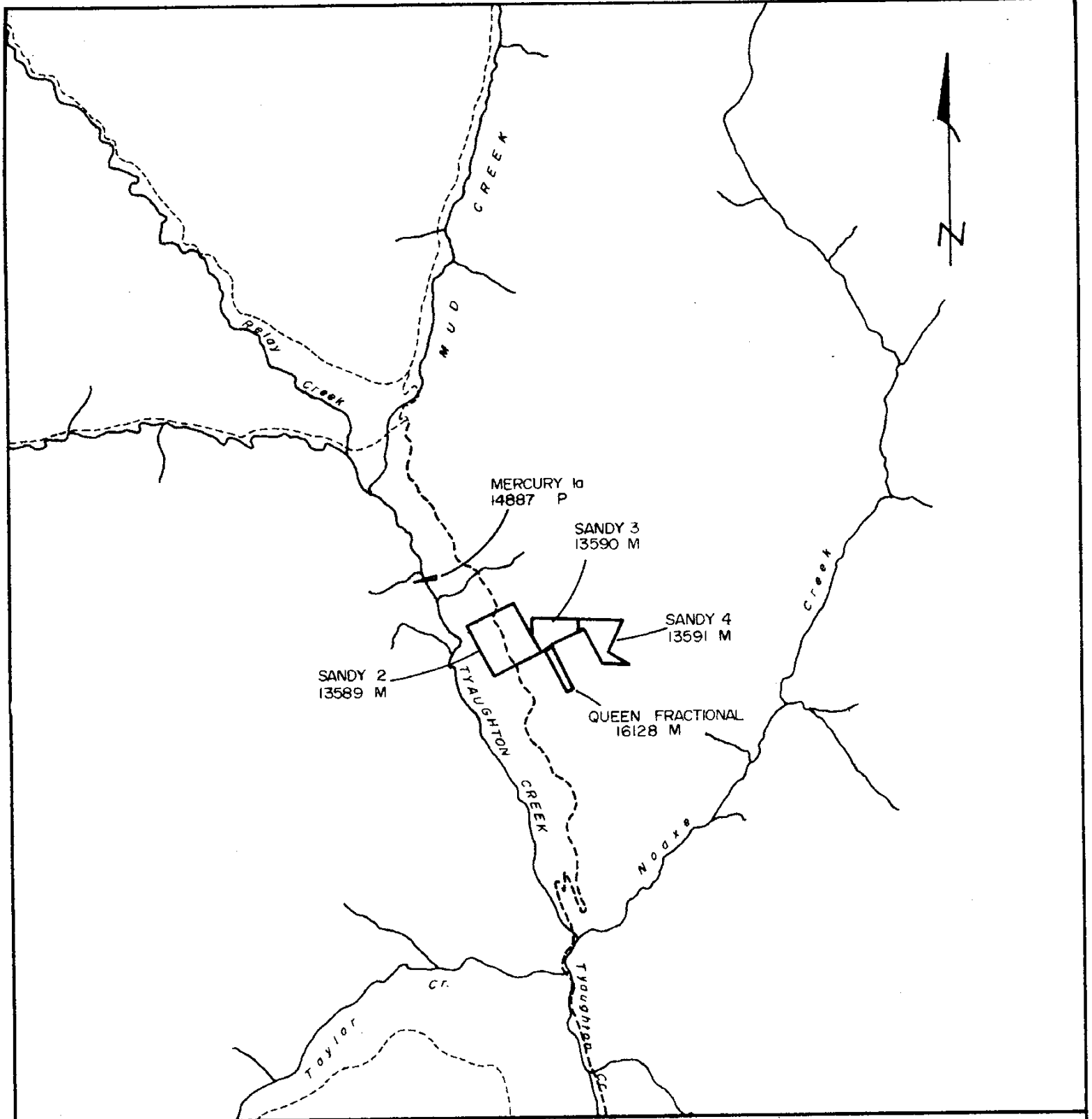

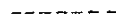



FIGURE 1.



LEGEND

-  Creek
-  Trail
-  Road
- SANDY 4**  
13591 M      Claim Name  
Record Number, Month

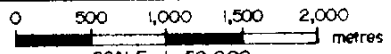
<b>WESTERN MINES LIMITED</b>			
<b>TYAUGHTON CREEK PROJECT</b>			
<b>LOCATION MAP</b>			
 SCALE 1 : 50,000			
Date: Oct. '80	Drawn by: L. Connor	Revised:	W.T.S. No. 92-0-2

FIGURE 2.

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>DATE RECORDED</u>
Sandy 2	13589	September 25, 1936
Sandy 3	13590	September 25, 1936
Sandy 4	13591	September 25, 1936
Mercury 1A	14887	November 4, 1938
Queen Fractional	16128	September 26, 1941

A Bill of Sale, dated September 12, 1980, transfers the above mentioned claims from Mrs. Cora Phillips to Mrs. Florence Westbrook. Western Mines Limited has an option agreement with Mrs. Westbrook and has undertaken a work commitment on these claims.

DESCRIPTION OF WORK

A geochemical soil grid was established using a well blazed baseline (at approximately 155°) as a reference line. Soil lines are spaced 100 meters apart with stations every 25m, up to 200 meters on either side of the baseline, then every 50 meters beyond the 200 meter limit. A total of 175 soil samples were collected and include:

Sandy 2	R.A. 400-406, 443-456, 459-487 P.M. 1400-1406, 1443-1467, 1511-1520
Sandy 3	R.A. 409-413, 432-441, 457, 458 P.M. 1440, 1468-1478
Sandy 4	R.A. 514-516, 524-529 R.B. 116-118, 144, 145 P.M. 1479-1482, 1486-1493
Queen Fractional	R.A. 506, 507, 536, 537 R.B. 108, 109, 133, 134 P.M. 1500, 1501

A mattock was used to sample the "B" soil horizon to depths from 15 to 45 cm. Rock fragments, roots and wood chips were removed to prevent contamination.

PURPOSE OF SURVEY

The intent of this geochemical survey is to sample the "B" soil horizon to determine if mineralized rock lies beneath the overburden.

### ANALYSIS

All samples reported on in this report are soils and were analysed for tungsten by Chemex Laboratories Ltd., North Vancouver, B. C. The samples were sieved to a -80 mesh standard. The analytical method is fusion using pyrosulphate. The sample is then leached with hydrochloric acid and aliquots are reduced in stannous chloride. The next step is slow extraction, requiring a minimum of six hours, using amyl-acetate and toluene 3-4 dithiol (complexing agent) and heated to 84 degrees C. A colorimetric detection procedure with limits of 2 ppm is then used to determine tungsten values. Analytical results are given in terms of parts per million.

### GEOLOGY AND MINERALIZATION

The property lies in rocks assigned by H.W. Tipper (O.F. 534) to the Middle Triassic or older Bridge River group consisting of interbedded siliceous, argillite and shale, ankeritic (?) stained locally siliceous dolomite with an unidentified green mineral, dolomitized grey brown limestone, amygdaloidal basalt, andesite tuff, immature hornblende-rich greywacke or tuffwacke, minor ribbon chert, and ultramafic (possibly peridotite). Though outcrop is scarce wackes with minor basalt flows (?) appear to be the predominate rock unit in the eastern half of the property. A feldspar-biotite porphyry intrusion appears to cut these rocks approximately parallel to the road. Bedding is variable but generally strikes ESE to SE and dips 45E to vertical.

Scheelite and stibnite were noted in quartz and calcite veins and stringers to the south of Sandy 2 in the old Tungsten Queen workings.

### INTERPRETATION

From the data several anomalies stand out. The most anomalous sample value attained on the property is 85 ppm W; background for this region is 1 ppm. All three anomalies on the Sandy 2 claim are open to the southeast or northwest with the most southerly anomaly possibly aligning with the old Tungsten Queen workings. These anomalies appear to be related to the ankeritic dolomite rock unit.



ITEMIZED COST STATEMENT

This statement covers costs incurred sampling this property. The period covered consists of 2 days - August 25 and 26, 1980. A 4-man crew was involved in sampling.

a) wages - 8 man days at \$55.67 /man/day	\$ 445.36
b) camp cost - 8 man days at \$25.00 /man/day	200.00
c) transportation cost - 2 vehicles at \$20.00 /vehicle/day	80.00
- 20 miles at 25¢/mile	5.00
d) analysis cost - 175 samples at \$3.75/sample	656.25
e) report preparation cost (includes drafting & typing) - 2 man days at \$56.20/man/day	<u>112.39</u>
TOTAL	<u><u>\$1,499.00</u></u>

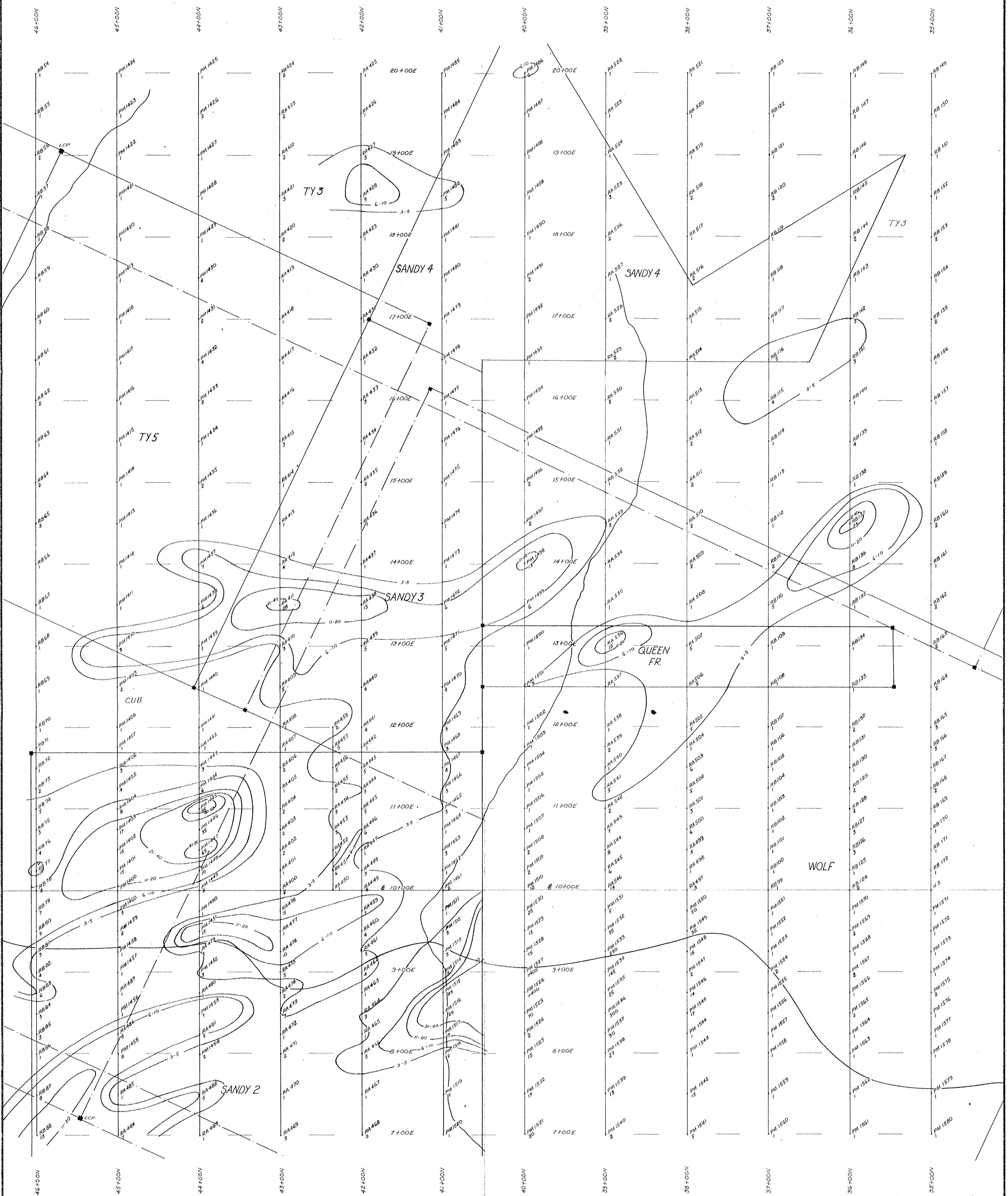
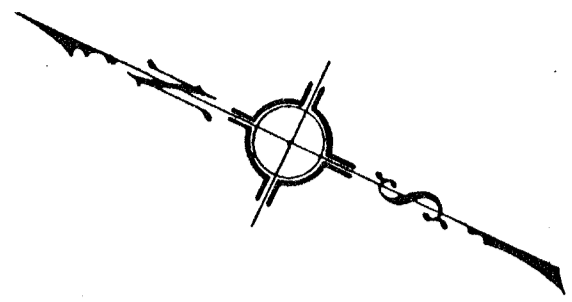
STATEMENT OF QUALIFICATIONS

I, Rodney Arnold, of 41751 Yarrow Central Road, Yarrow, B. C. do hereby certify that:

- a) I am a geologist with office address at #1103-595 Burrard Street, Vancouver, B. C. V7X 1C4.
- b) I am a graduate from the University of Calgary with a Bachelor of Science degree in Geology (1974).
- c) I have had five years geological experience in various phases of exploration in B.C., the Yukon and Northwest Territories.
- d) I have supervised the soil sample collection and have assessed and interpreted the data results of said program on the Sandy 2, 3, 4, Mercury 1 and Queen Fractional mineral claims.

Respectfully submitted

  
Rodney Arnold



LEGEND			
Rob Bulger	-RB 25		Road
Rob Arthur	-RA 26		Creek
Pat Meade	-PM 40		Claim line & Corner post
Rod Arnold	-RW 12		Legal Corner Post
Rob Woodward	-RW 15		Geochemical Depression
N.S.	No Sample		
	Grid Line & Stations		
	Geochemical Contour Interval		

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
NO. 18344

WESTERN MINES LIMITED			
TYAUGHTON PROJECT			
SOIL GEOCHEMISTRY GRID			
FIGURE NO. 3			
SCALE			
0 25 50 75 100 metres			
Scale 1:2500			
DATE: SEPT. 1980	REVISED:	DRAWN BY: L. CONNOR	NTS. NO. 92-0-2