

PROSPECTING REPORT

on the

B & B MINERAL CLAIM (20 units)

ATLIN MINING DIVISION

for

R.H. SERAPHIM, P. ENG.
#316, 470 Granville Street
Vancouver, B.C.

WORK COMPLETED - June 23, 1979

LOCATION: 104N/11E

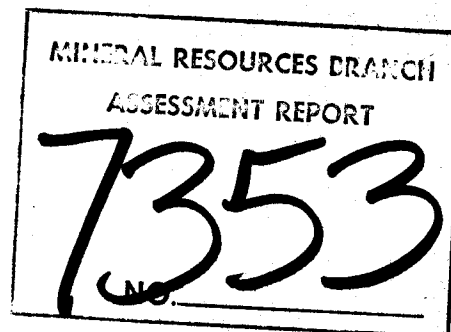
Lat. $59^{\circ} 39'$ Long. $133^{\circ} 08'$

Near Headwaters of Horse (Moose) Creek

by

T.E. LISLE, P. ENG.

July 14, 1979



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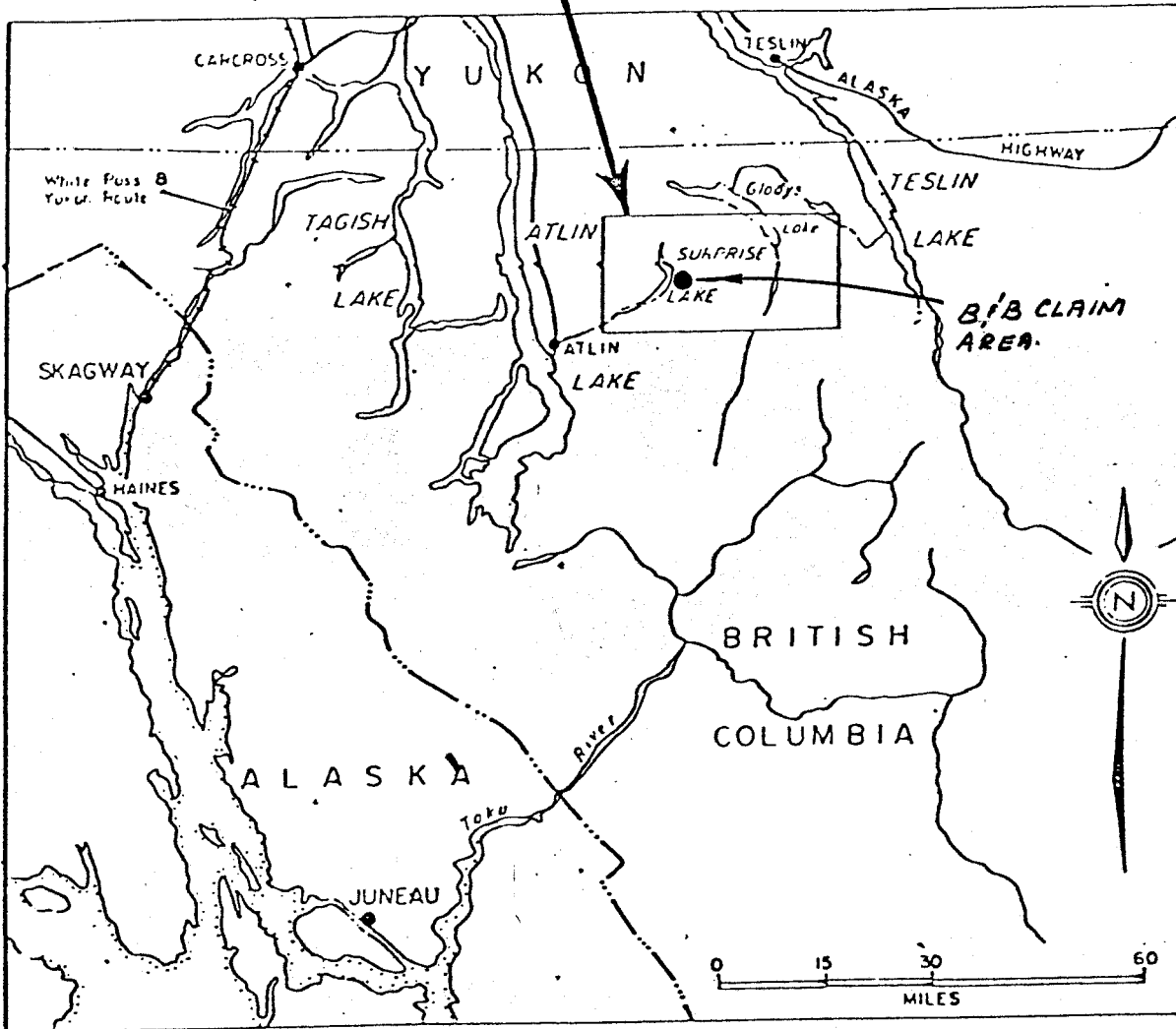
SUMMARY AND CONCLUSIONS

The B & B Mineral Claim is located about 7 kilometers Southeast of Surprise Lake (104N/11E) near the headwaters of Moose and Terrahina Creeks in the Atlin Mining Division.

The claim is underlain by Alaskite of the Surprise Lake Alaskite batholith.

Preliminary exploration, including reconnaissance prospecting, radiometric and geochemical surveys has not resulted in the detection of strong radioactive zones. Silt samples, draining an area of Limonitic Alaskite, contain anomalous levels of Uranium and this area should be prospected further when snow conditions permit.

ATLIN URANIUM PROJECT AREA



R.H.SERAPHIM ENGINEERING LIMITED.

B & B CLAIM

LOCATION MAP.

ATLIN MINING DIVISION, N.T.S. 104N.

JUNE, 1979

MAP 1.

Fig. 1.

INTRODUCTION

R.H. Seraphim Engineering Limited, on behalf of Wyoming Mineral Corporation, initiated a reconnaissance uranium exploration program in the Atlin area in 1978. The program included prospecting with geiger counters and G1S4 spectrometers, and limited geological and geochemical surveys around the Surprise Lake Alaskite batholith.

The program was partly in response to the uranium reconnaissance geochemical survey carried out by the Provincial and Federal governments in 1977.

The B & B mineral claim was staked during the 1978 season and prospected at various times as shown in Appendix 3 of this report.

The results of this preliminary work are shown on the enclosed maps and described in this report.

LOCATION, ACCESS, TOPOGRAPHY

The Surprise Lake batholith is located between Latitudes $59^{\circ}34'$ and $59^{\circ}50'$, and Longitudes $132^{\circ}20'$ and $133^{\circ}30'$ in northwestern British Columbia.

The southwest corner of the batholith is about 19 kilometers (12 miles) northeast of Atlin, B.C. Access to the western sections of the batholith is by a system of dirt and gravel roads leading from Atlin. Access to the central and eastern sections of the batholith is by helicopter or fixed wing aircraft.

Elevations in the area range from about 900 to 2100 meters above sea level.

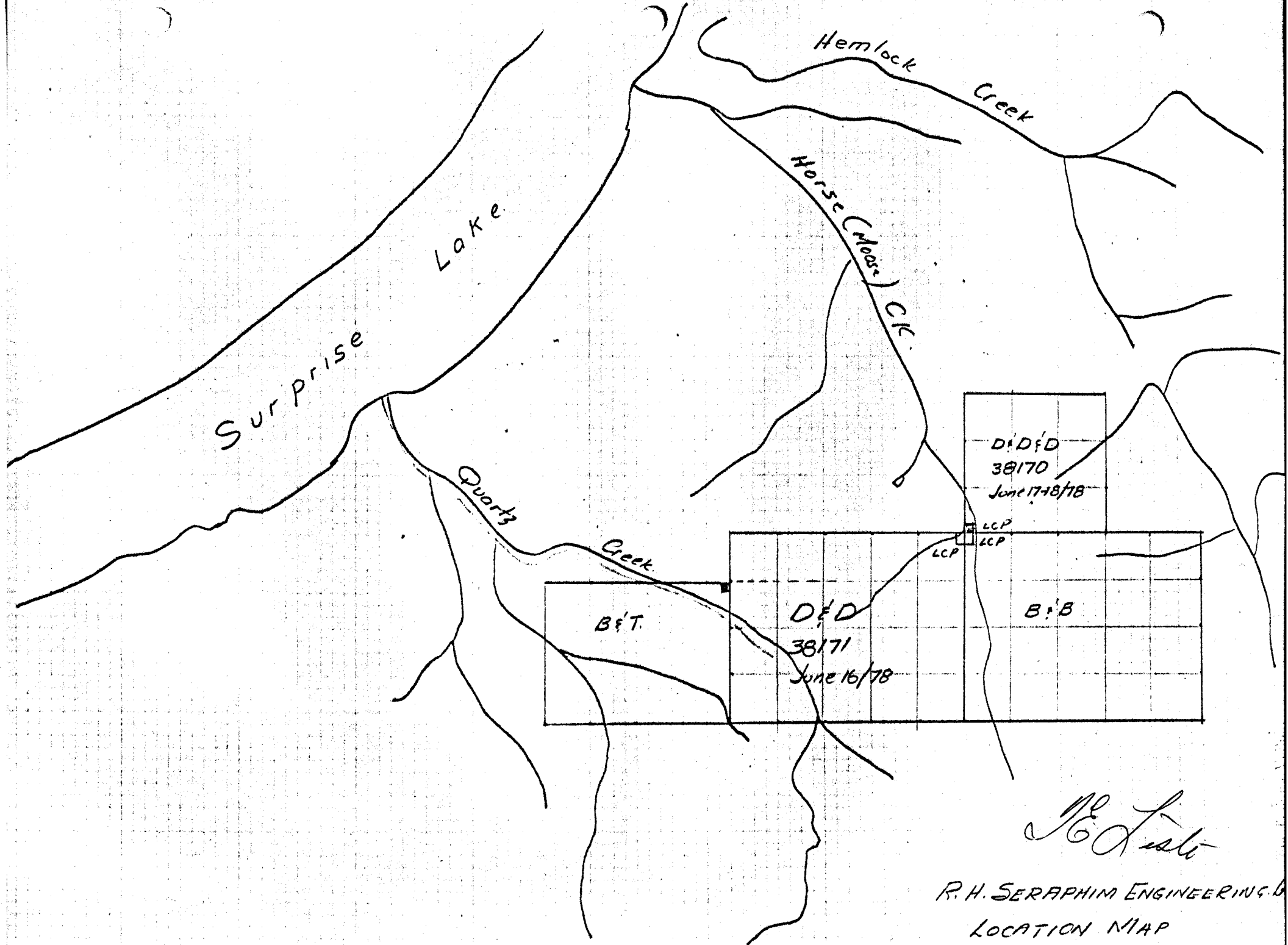
The area has been subjected to repeated glaciation. The terrain is characterized by broad valleys subdued upland surfaces and moderate to steep valley slopes. Some of the creeks headwater in precipitous cirques.

The B & B claim is east of Surprise Lake and lies mainly around the headwaters of Horse (Moose) Creek. Access to the claim is by Helicopter from Atlin.

CLAIMS

The B & B (20 units) mineral claim was staked 5 West and 4 South from the legal corner post. The Record No. is 371(6), and the anniversary date - June 26, 1979.

The claim is in the Atlin Mining Division.



R.H. Seraphim

R. H. SERAPHIM ENGINEERING, INC.
 LOCATION MAP

Scale 1:50,000

June, 1979

HISTORY

The Surprise Lake alaskite intrusion has been known for many years to contain anomalous amounts of uranium.

In 1954 and 1955, Barymin Company investigated radioactive occurrences in the Cracker, Ruby and Boulder Creek area. The main showing found in this investigation was the Purple Rose at the head of Cracker Creek. This prospect contains zeunerite and metazeunerite in an area of quartz veining and kaolinized fracture zones near the western margins of the intrusion.

In 1976 and 1977, Placer Developments Ltd. investigated uraniferous surficial deposits, containing in the order of 1.0 lb. uranium per ton, in the Trout Lake area. In the same period, a consortium of Companies including Malabar Mines, Getty Mines Ltd. and Union Oil Company of Canada Ltd. investigated a number of uranium occurrences, including the Purple Rose, and drilled one of them in the area to the west of Trout Lake in 1978.

Mattagami Lake Mines have been exploring claims in the central section of the batholith during the past two years. A large number of claims were acquired by other companies and by individuals on the release in June, 1978, of geochemical data from the government sponsored uranium reconnaissance program.

No exploration work of consequence is known to have been undertaken on the ground now covered by the B & B claim.

WORK PROGRAM

Seraphim Engineering personnel carried out prospecting traverses from fly camps on or close to the B & B claim block. This work involved geological prospecting with geiger counters or G1S4 spectrometers. Silt samples were collected on a routine basis.

Follow-up work on the B & B claim consisted of two long lines about 3200 meters along which radiometric surveys were conducted.

Snow at the higher levels precluded a continuation of this work. Survey control was by hip chain and compass.

GEOLOGY

The Surprise Lake Alaskite batholith intrudes an assemblage of volcanic, sedimentary and ultramafic rocks of paleozoic age, and granitic rocks of Mesozoic age. J.D. Aitken mapped the area from 1951 to 1955 and incorporated the results of his investigations in Memoir # 307. The following excerpts from that publication provide some insight into the geology of the batholith.

"..... The contacts of the Surprise Lake batholith also dip steeply outward everywhere except in the vicinity of Ruby Creek, where parts of the roof remain, and in detail the contact relations are exactly like those at Dawson Peaks Dykes of alaskite reach up to a quarter-mile from steep contacts, but are few Schistose rocks are found at several points along the contacts of the Surprise Lake batholith and the Dawson Peaks stock, but normally the contact-metamorphosed rocks are hornfels..... The alaskite (13a) forms light brown crumbly outcrops from which fresh specimens are not easily gained. It is recognized in the field by its inequigranular, highly variable texture (from fine to very coarse grained, and in places, porphyritic), abundant smoky quartz, low mafic-mineral content, and lack of colour-contrast between the two feldspars. Streaks and clots of simple pegmatite, a few inches long at most, are widespread and some outcrops contain small drusy cavities.

GEOLOGY cont'd

The only mafic mineral, brown biotite fringed with green, comprises 1 to 5 per cent of the rock. .. Traces of muscovite are present in most specimens. Fluorite and apatite are widespread in traces. Topaz and allanite are very rare. Arsenopyrite appears in the habit of normal accessory mineral in one specimen. ... The alaskite displays a confusing variety of textural types, here in sharp contact with one another, there in gradational contact. Finer-grained ones, but there are many exceptions. ... The simplest textures occur in the coarse-grained and nearly equigranular rocks, in which quartz forms large grains of simple outline.

The B & B claim is underlain mainly by coarse to medium grained alaskite with less amounts of fine grained alaskite and minor pegmatite. Northeasterly shear zones are present and the rocks are locally limonitic and manganiferous. Traces of pyrite and galena have been noted.

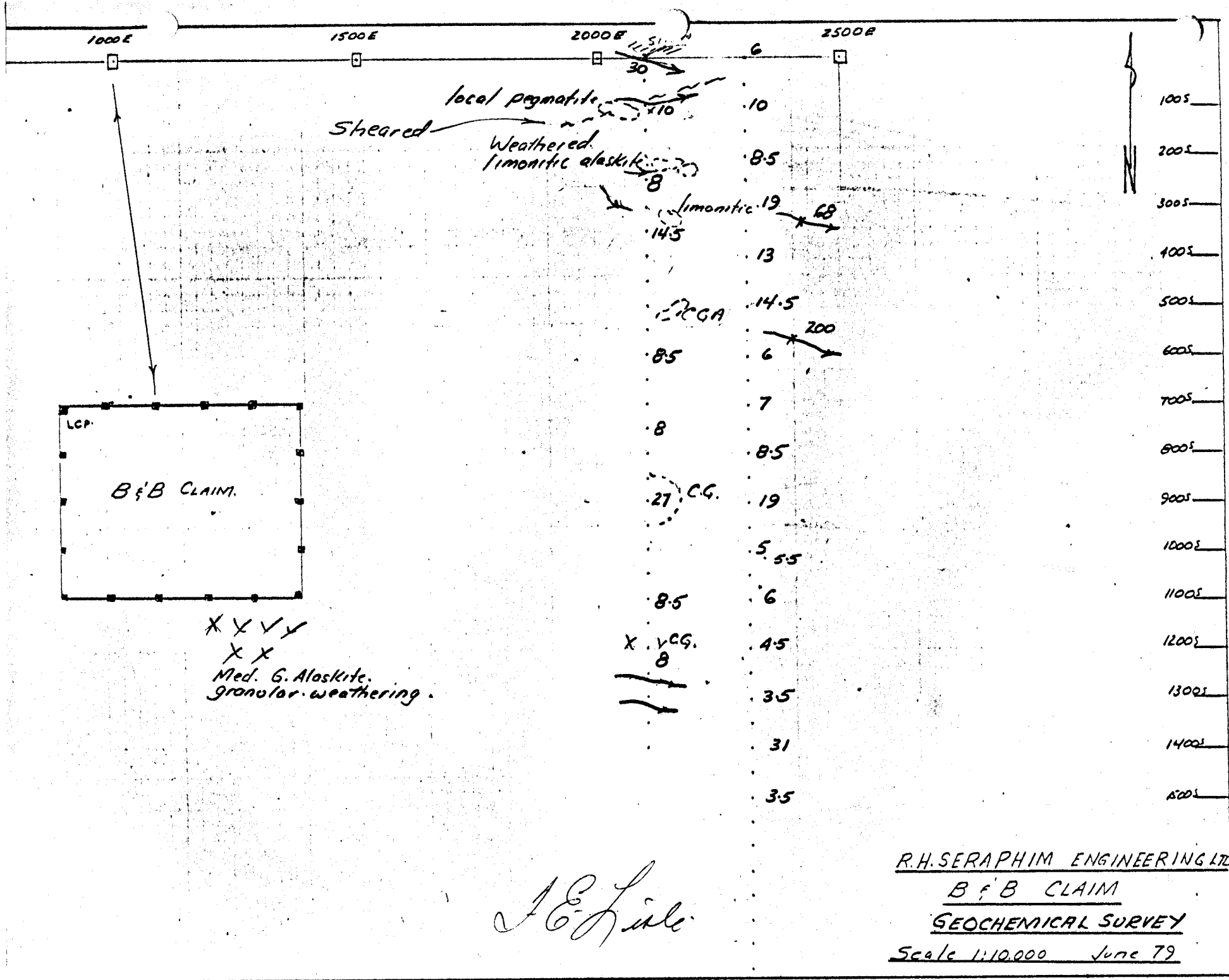
DISCUSSION

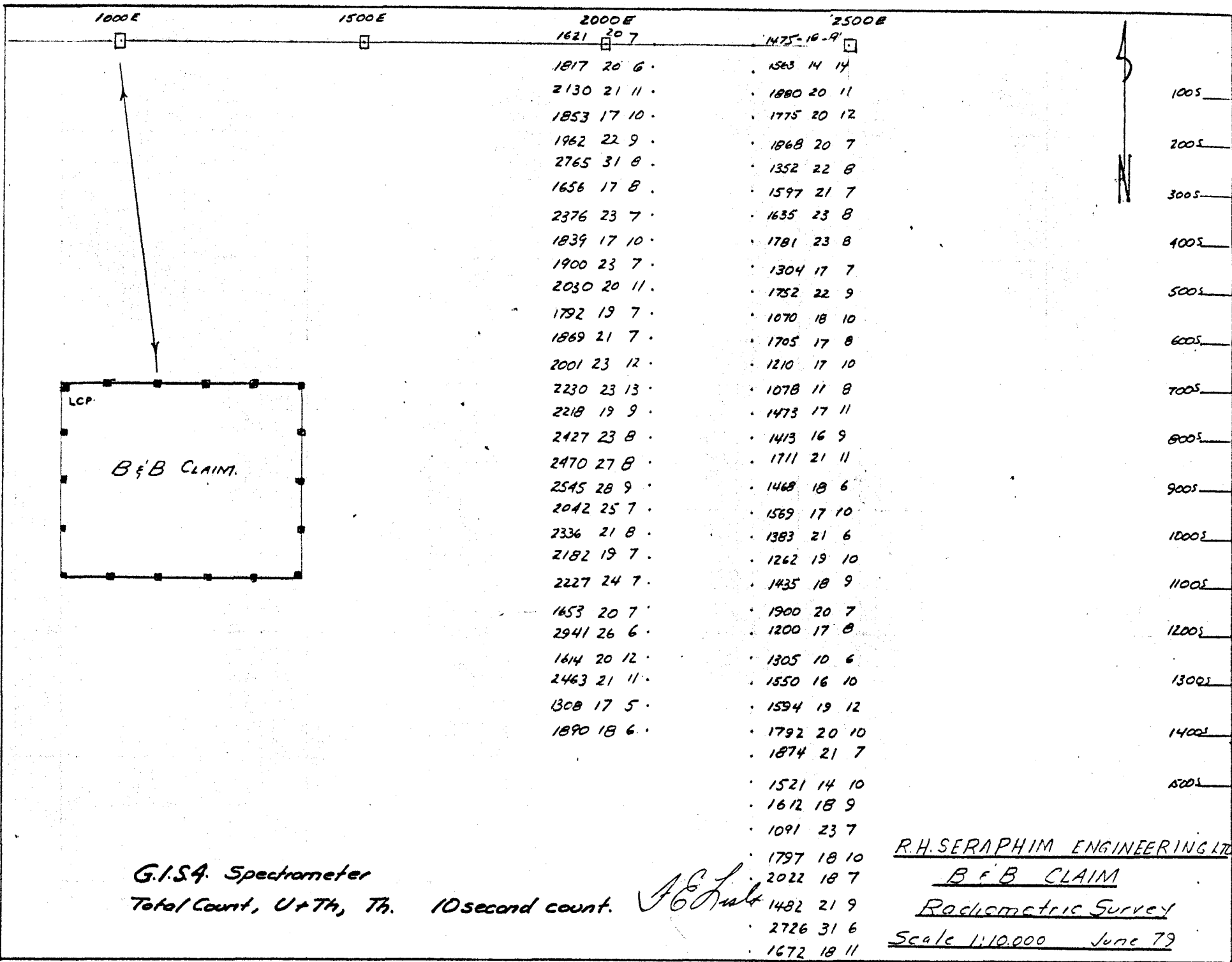
The radiometric survey showed marginally higher total counts on line 21E, probably reflecting a source closer to bedrock upslope. Readings at 21E - 250 S and 23E 1800 South were slightly higher for uranium and thorium and these areas should be rechecked.

Geochemical samples showed a wide range of values, slightly higher than found on grid surveys elsewhere. Silt samples draining an area of limonitic alaskite showed elevated levels of Uranium, and these areas, particularly if they are associated with lineaments, should be searched in detail.

T.E. LISLE - P. ENG.

T.E. Lisle





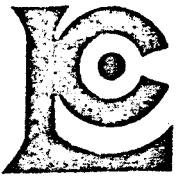
2000E	2500E
1621 20 7	1475-16-9
1817 20 6	1563 14 14
2130 21 11	1880 20 11
1853 17 10	1775 20 12
1962 22 9	1868 20 7
2765 31 8	1352 22 8
1656 17 8	1597 21 7
2376 23 7	1635 23 8
1839 17 10	1781 23 8
1900 23 7	1304 17 7
2030 20 11	1752 22 9
1792 19 7	1070 18 10
1869 21 7	1705 17 8
2001 23 12	1210 17 10
2230 23 13	1078 11 8
2218 19 9	1473 17 11
2427 23 8	1413 16 9
2470 27 8	1711 21 11
2545 28 9	1468 18 6
2042 25 7	1569 17 10
2336 21 8	1383 21 6
2182 19 7	1262 19 10
2227 24 7	1435 18 9
1653 20 7	1900 20 7
2941 26 6	1200 17 8
1614 20 12	1305 10 6
2463 21 11	1550 16 10
1308 17 5	1594 19 12
1890 18 6	1792 20 10
	1874 21 7
	1521 14 10
	1612 18 9
	1091 23 7
	1797 18 10
	2022 18 7
	1482 21 9
	2726 31 6
	1672 18 11

100S
200S
300S
400S
500S
600S
700S
800S
900S
1000S
1100S
1200S
1300S
1400S
1500S

G.I.S.A. Spectrometer
Total Count, U+Th, Th. 10second count.

J. E. L. Hult

R.H. SERAPHIM ENGINEERING LTD
B & B CLAIM
Radiometric Survey
Scale 1:10,000 June 79



Appendix 1.

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 043-52597

ANALYTICAL CHEMISTS. GEOCHEMISTS REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 48002

TO: R.H. Seraphim Engineering Ltd.
316 - 470 Granville St.
Vancouver, B.C.

INVOICE NO. 30930

ATTN: V6C 1V5
B&B Samples

RECEIVED June 28/79

CC: T. Lisle

ANALYSED July 9/79

Table with columns: SAMPLE NO., PPM U, DEPTH, HORIZON, and description. Contains multiple rows of soil analysis data with handwritten notes.



MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: [Signature]

APPENDIX 2

B & B CLAIM - EXPENDITURESLABOUR

E. Scholtes	Aug. 21-25/78 - 4½ days @ 90.00	\$ 405.00
D. Fennings	Jun. 20-23/78 - 4 days @ 60.00	240.00
J. Taylor	Jun. 20-23/78 - 4 days @ 55.00	220.00

CAMP COSTS	12½ x 15.00	187.50
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HELICOPTER

Aug 21/78	1 hr. Bell 47G-3B1 @ 207.00	207.00
Aug 25/78	½ hr. " " "	103.50
Jun 20/79	Hughes 500	307.40
Jun 23/79		184.50

GEOCHEMICAL SAMPLES	28 @ 3.00	84.00
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EQUIPMENT RENTAL

G1S4 - Geiger		
Radio-Telephone	- 8½ x 17.00	144.50

TRUCK RENTAL	3 x 35.00	105.00
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REPORT PREPARATION - T. LISLE		150.00
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OFFICE OVERHEAD		50.00
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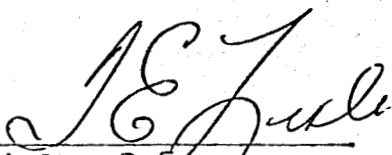
\$ 2388.40

J. E. Smith

CERTIFICATE OF QUALIFICATION

I, T.E. Lisle of 145 West Rockland Road,
North Vancouver, B.C. declare that:

1. The work described in this report was carried out by me and by the personnel listed in Appendix under my supervision between August 21, 1978 and June 26, 1979.
2. I am a graduate of the University of British Columbia with a B.Sc. 1964.
3. I have worked intermittently in exploration geology for several years prior to 1964, and have worked continuously in the same field since that date.
4. I am a member of the following organizations:
 - [a] Canadian Institute of mining & Metallurgy
 - [b] Geological Association of Canada
 - [c] Association of Professional Engineers of B.C.



T.E. Lisle, P.Eng.