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**GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT**

for the  
**Weas 1-62 Claims**

YB42979 TO YB43040

**N.T.S.**  
**105 O 3**

131' 10" WEST (LONGITUDE), 63' 12" NORTH (LATITUDE)

Mayo Mining Division

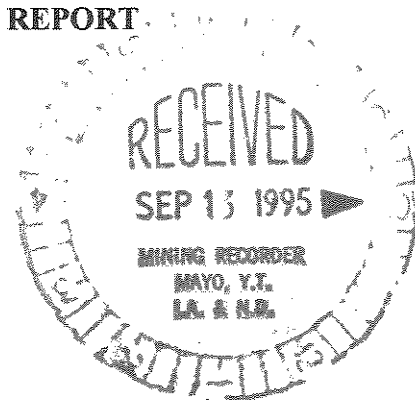
Yukon Territory

**AUTHOR: B.A.Lueck**

**WORK PERFORMED: JUNE 15 to JULY. 1 , 1994**

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## INTRODUCTION

The Weas 1-62 Claims, record numbers YB42979-YB43040 (Mayo Mining District), are located in the Mayo Mining Division, at the headwaters of the Gold River, on map sheet 105 O 3. The claims are owned by Brian Lueck (50%) and Ann Mark (50%).

The Weas claims were staked to cover a region underlain by a Cretaceous stock which intrudes Devonian sedimentary rocks of the Selwyn Basin. Current exploration in this region is focusing on bulk tonnage gold deposits associated with a suite of Cretaceous plutonic rocks known as the Tombstone Suite.

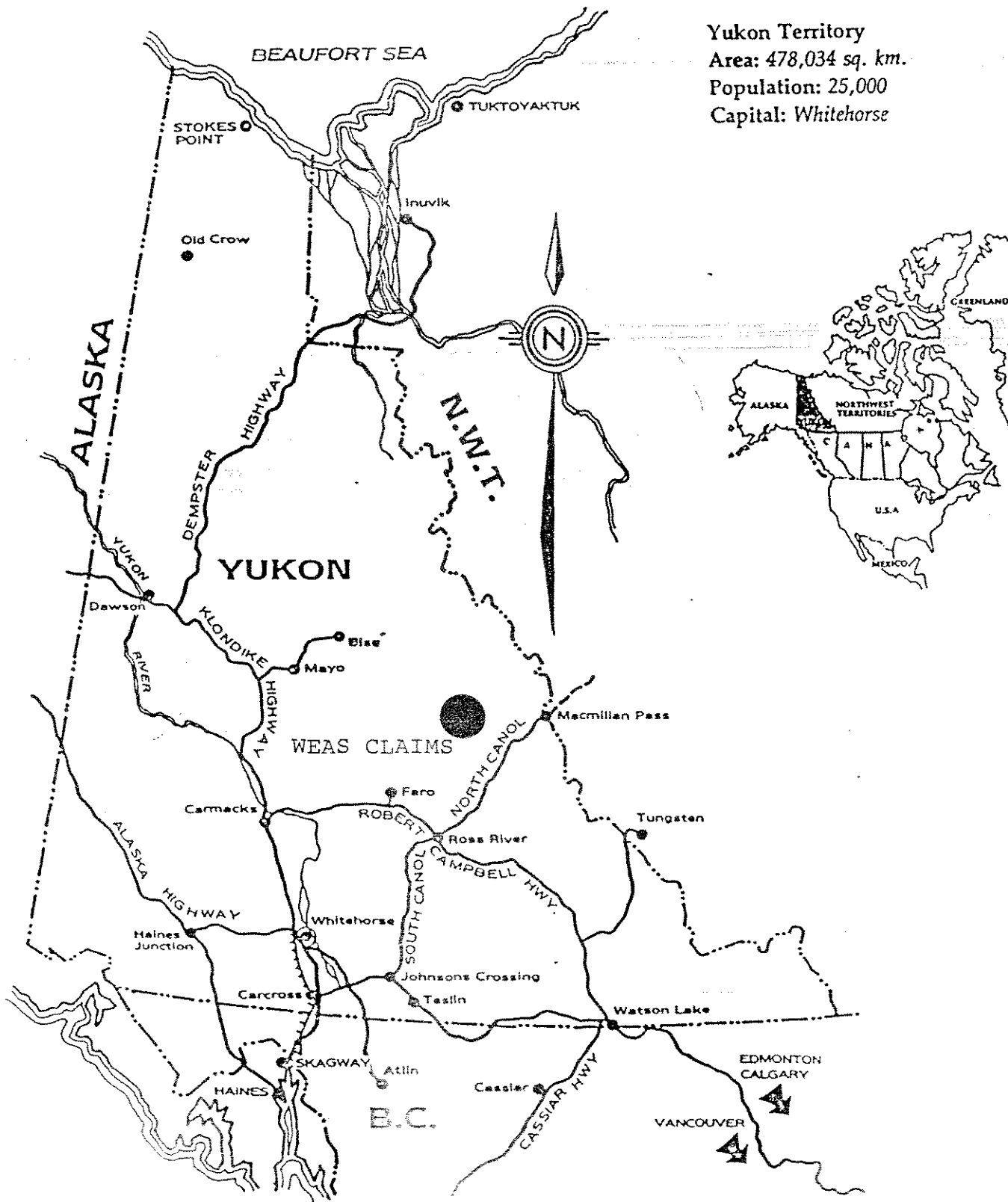
The Weas claims are surrounded by a regional stream silt anomaly which shows anomalous gold, arsenic, antimony and copper. Follow up silt, soil and rock sampling has confirmed the presence of gold mineralization on the Weas claims and further work is recommended to establish the nature and extent of the mineralization associated with this stock.

The 1994 program on the Weas claims consisted of geologic mapping and reconnaissance soil, silt, and rock sampling.

## SUMMARY

Geologic mapping on the Weas claims has established the presence of a granitic intrusive stock which is well exposed in the central portions of the claim block. This geochemically anomalous region hosts significant potential for discovering mineralization associated with Tombstone Suite Intrusives, as this area of the Selwyn Basin has recently been recognized to host intrusions dated between 87 ma and 94 ma. The use of soil sampling and silt sampling has confirmed the widespread nature of the gold, arsenic and antimony geochemical anomaly. The results are considered positive and warrant further investigation to determine the nature and extent of the mineralization.

**Yukon Territory**  
 Area: 478,034 sq. km.  
 Population: 25,000  
 Capital: Whitehorse



### LOCATION , ACCESS and PHYSIOGRAPHY

The property is located at the headwaters of the Gold River, within the Selwyn Basin on map sheet 105 O 3. The claim block can be accessed by helicopter. An old tote trail passes within 3 miles of the claim block. The topography is very steep and rugged making traversing difficult and limiting access to some of the more rugged areas on the property.

The Weas claim block covers a sparsely timbered, recently glaciated and oversteepened region of the Selwyn Basin within the Hess Mountains. The availability of outcrop exposure varies from 5% to 50%. Mountain slopes are steep and outcrop well except on talus slopes. Blocky talus of unknown depth covers 90% of this slope area .

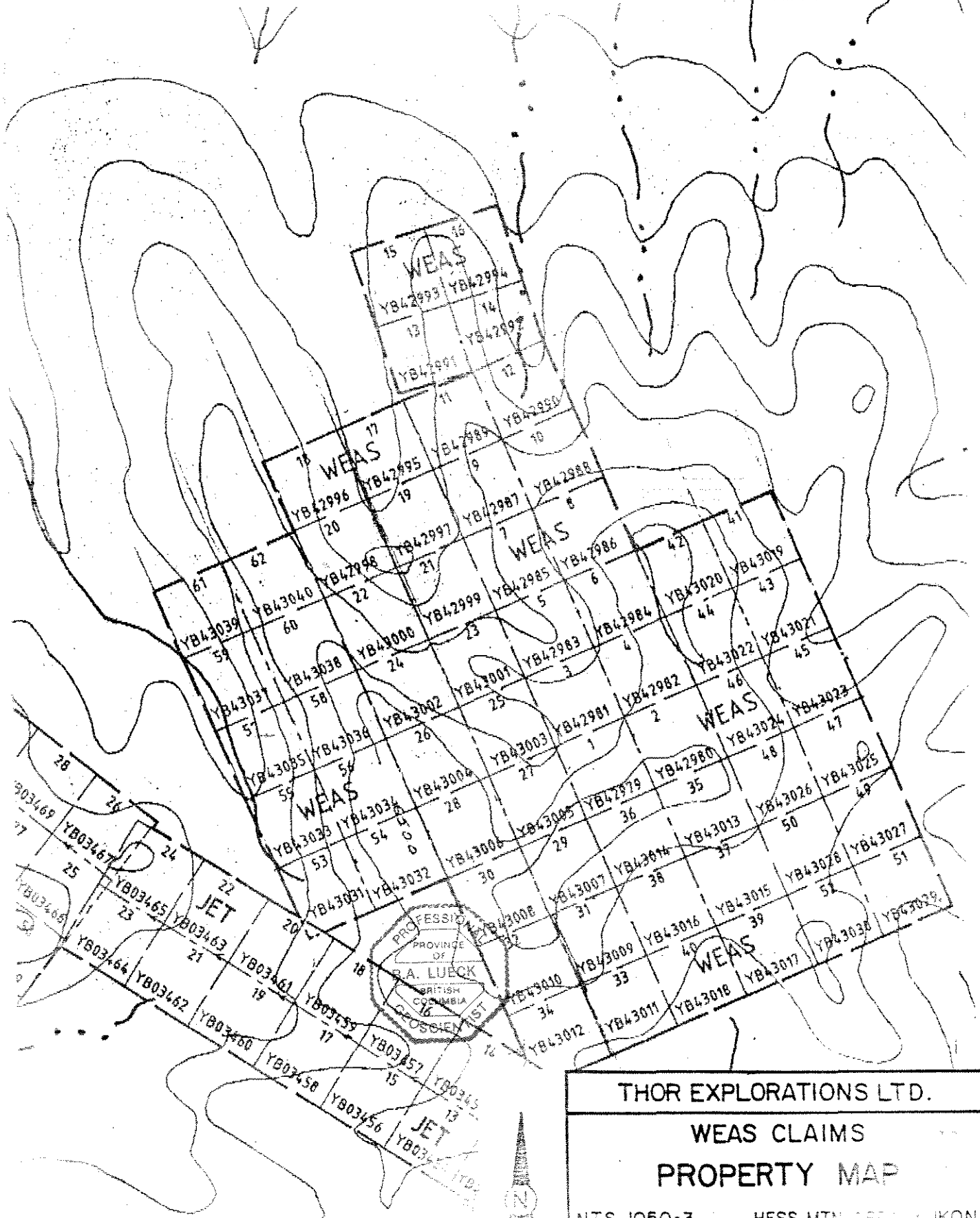
### REGIONAL GEOLOGY and MINERALIZATION

The claim block is located within the Selwyn Basin, and covers a Cretaceous stock which is intrusive into Devonian-Mississippian basinal sedimentary rocks consisting of black shales, chert, laminated quartzite and chert-pebble conglomerate. Regionally, these rocks are intruded by numerous stocks and dikes of the Tombstone Suite and later intruded to the south by large batholiths of the Selwyn Suite.

The Selwyn basin hosts the Fort Knox deposit, an intrusive hosted gold deposit of large tonnage and low grade. This deposit occurs in Alaska within a region of the Selwyn Basin that has been offset to the northwest by the Tintina Trench.

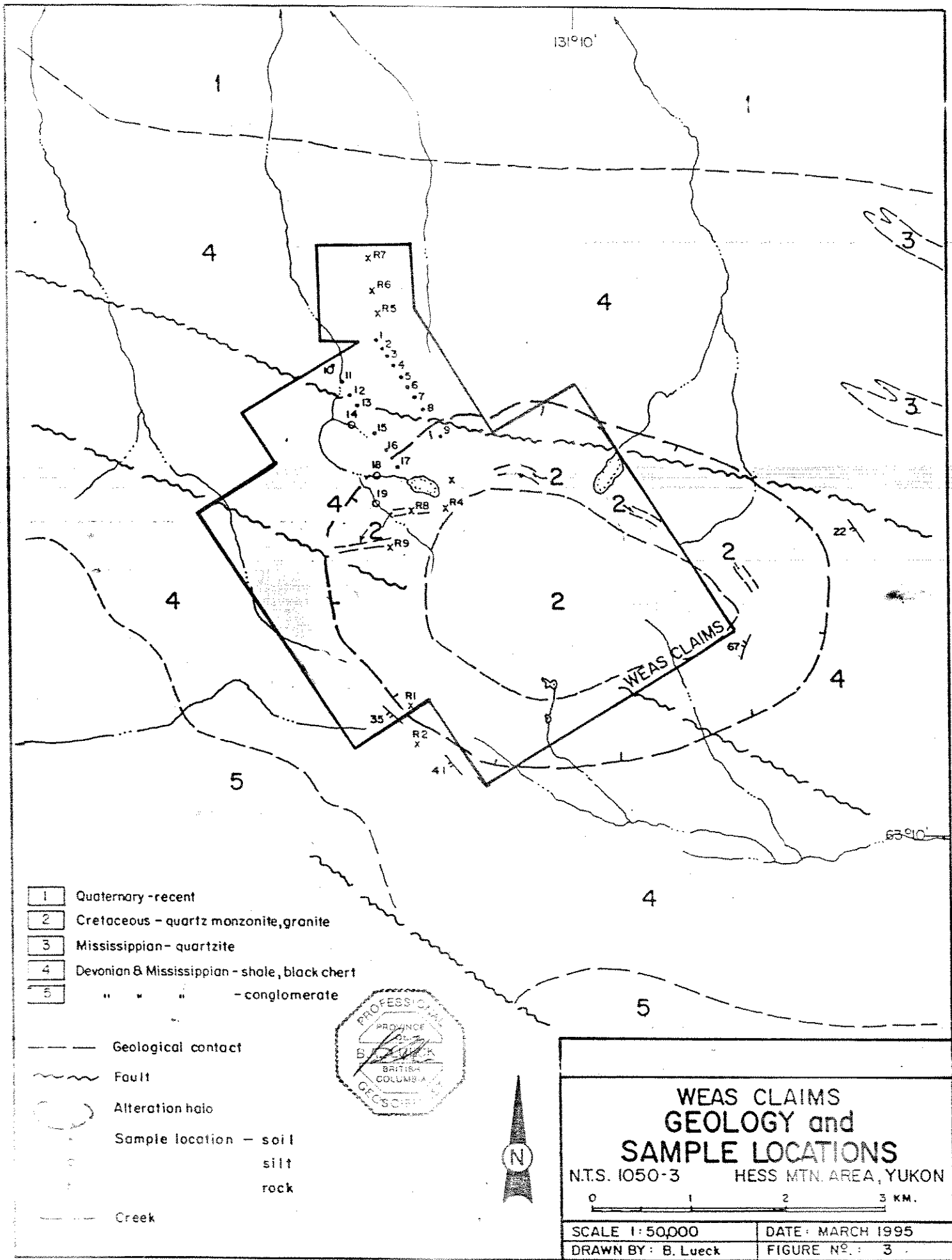
Intrusive bodies occur throughout the Selwyn Basin in the Yukon, and stocks are often associated with gold mineralization. The Brewery Creek deposit, 25 miles to the northwest, is largely intrusive hosted and hosts in excess of 17 million tons of .056 opt Au. This deposit is currently being expanded and is slated for production in 1996. Another significant intrusive hosted deposit occurs at Dublin Gulch, some 25 miles to the

131°10



63°10

<b>THOR EXPLORATIONS LTD.</b>	
<b>WEAS CLAIMS</b>	
<b>PROPERTY MAP</b>	
N.T.S. 1050-3	HESS MTN. AREA YUKON
SCALE 1:50,000	DATE: MARCH 1995
DRAWN BY: B. Lueck	FIGURE NO.: 2



northeast, where a geological reserve of 100,000,000 tonnes of >.032 OPT Au has been delineated (>3 million ounces gold).

A major exploration program, including extensive drill pad preparation, is occurring on the First Dynasty claimblock at Clear Creek a number of intrusive hosted gold deposits are being evaluated. This program is currently being operated by First Dynasty Mines Ltd. under the direction of promoter Robert Friedland, and the management of an experienced team from Amax and Cypress Gold.

### **PREVIOUS WORK**

This property has had little work in the past and was staked as an area of potential gold mineralization, based on the mapping of a monzonitic stock underlying the claims; the presence of a large multi-element geochemical anomaly surrounding the stock, and the similarity of the geochemical halo to that of known intrusive hosted deposits.

Previous work in the vicinity (Emerald Lake) has exposed gold mineralization in a number of stockwork zones described in reports by Agip, which are intrusive hosted disseminated gold showings.

### **LOCAL GEOLOGY**

The claim block is underlain by Proterozoic Hyland Group sediments of the Selwyn Basin, consisting of graphitic shale, carbonaceous shale, chert and quartzite. Sometime during the Mesozoic, these sediments were intruded by porphyritic stocks and dikes of granodiorite and quartz-monzonite. The zone surrounding the pluton is extensively hornfelsed and pyritized for up to 1 km from the pluton border. This intrusive zone was later cut by fracture veinlets and sheeted veins to form stockwork style mineralization. Alteration, brecciation and veining are widespread. Vein and breccia infilling are dominated by sulfide (pyrite, arsenopyrite, molybdenite), quartz and tourmaline. Sulfide mineralization consists of pyrite, arsenopyrite, molybdenite and minor



galena, chalcopyrite and stibnite. Veining and brecciation can occur in all the various rock types.

## **THE 1994 WORK PROGRAM**

### **Geochemistry**

The 1994 work program consisted of soil sampling, silt sampling, geological mapping and prospecting of the Weas claims. Soil sampling was done in zones of oxidation to determine the nature of the geochemical signature and to confirm the presence of mineralization on the claimblock, associated with the stock. Soil samples were dug to the 'B' horizon.

The soil samples were dried, screened and pulverized, and fire assayed for gold to a detection unit of 5 ppb. Sample locations are shown on the geology map and sample values are reported in the appendix. Sampling confirmed a widespread multi-element soil anomaly, even though geochemical response may be significantly hampered by extensive frozen talus. Silt sampling also confirmed the presence of gold mineralization within the claimblock with values ranging from 116 ppb Au to 217 ppb Au; 2740 ppm As to 3440 ppm As; 44 ppm Sb to 106 ppm Sb; 1.3 ppm Ag to 2.4 ppm Ag; and 328 ppm Zn to 492 ppm Zn.

## **DISCUSSION**

The Weas claims host poorly explored gold mineralization, which has been partially delineated by soil geochemistry. The target is a large, low grade, disseminated or stockwork gold deposit hosted by both the intrusive rocks, and the altered and veined sedimentary rocks adjacent to the intrusives.

Growth fractures, fracture coatings and sheeted veins are indications of the potential for the discovery of bulk tonnage gold mineralization on the Weas claims. The property hosts good potential for the discovery of significant reserves of gold.

## **CONCLUSIONS and RECOMMENDATIONS**

The 1994 exploration program on the Weas claims has delineated a strong gold and arsenic in soil anomaly associated with the margin of the pluton.

It is recommended that future programs use the techniques of multi-element soil sampling programs to further delineate the soil anomaly. Careful prospecting and sampling within and surrounding the pluton margin is also an effective technique for deliniating mineralized zones. Careful mapping of the distribution of intrusive rock, in outcrop and in talus, will help define the best sub-surface target area.

### Statement of Costs - Weas Claims

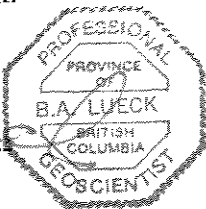

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Ammended to reflect costs subsequent to claim issuance on June 29, 1994:

Geologist (Brian Lueck-P. Geo.)	2 days	\$600.00
Foreman (Dave Sufady)	1 day	\$250.00
Assistant (sorting samples)	1 day	\$200.00
Truck and Fuel	1 day	\$100.00
Camp Costs	2 mandays @ \$75/day	\$150.00
Assays		\$700.00
Report and Drafting		\$1000.00
<b>Total</b>		<b>\$3000.00</b>

I believe this to be an accurate reflection of costs incurred on the Weas Claims applicable for assessment work.

Sincerely,



The seal is an octagonal stamp with a double border. The outer border contains the text 'PROFESSIONAL' at the top, 'PROVINCE OF' at the top center, 'B.A. LUECK' in the center, 'BRITISH COLUMBIA' at the bottom center, and 'GEOSCIENTIST' at the bottom.

Brian. A. Lueck, P. Geo.

**EXPENDITURES (STATEMENT OF COSTS)**

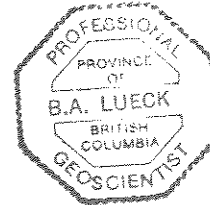
<b>Geologist</b>	<b>- 2 days at \$300.00/day</b>	<b>\$600.00</b>
<b>Crew Foreman</b>	<b>- 5 days at \$250.00/day</b>	<b>\$1250.00</b>
<b>Soil sampler</b>	<b>- 5 days at \$200.00/day</b>	<b>\$1000.00</b>
<b>Truck and Fuel</b>	<b>- 2 days at \$100.00/day</b>	<b>\$200.00</b>
<b>Helicopter</b>	<b>Two trips; Ross River-Gold River</b>	<b>\$2751.90</b>
<b>Camp costs</b>	<b>- flagging- tents- food- etc. - 12 mandays at \$75.00/manday</b>	<b>\$900.00</b>
<b>Report and Drafting</b>		<b>\$1000.00</b>
<b>Assays</b>	<b>- as per invoice</b>	<b>\$700.00</b>
<b>Total</b>		<b>\$8401.90</b>

*Personnel:*

Brian Lueck; 842 Poirier St., Coquitlam, B. C., V3J 6C2

Dave Sufady, General Delivery, Whitehorse, Yukon

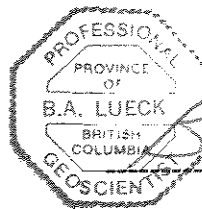
Dan Trudeau, General Delivery, Dawson City, Yukon



*Statement of Qualifications:*

I, Brian A. Lueck, of the City of Whitehorse, Yukon Territory do hereby certify that:

1. I am a graduate of the University of British Columbia and possess a B. Sc. (honours) in Geology.
2. I have been employed as a consulting geologist or a government geologist since June of 1985.
3. I am currently enrolled in a M. Sc. program in geology at U. B. C.
4. I am a member in good standing of *The Association of Professional Engineers and Geoscientists of the Province of British Columbia*, and am currently registered as a *P. Geo.*
5. I have reviewed the data and inspected the field work and I believe this report to be an accurate reflection of the work performed on the property during 1994.



Brian A. Lueck

P. Geo.

Geologist

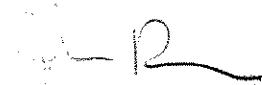
Thor Resources

W O#25426

Sample #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
L1-12 S0+00 1	19	0.4	38	30	112	225	16
L1-12 S1+00S 2	39	0.3	56	77	135	360	381
L1-12 2+00S 3	40	0.6	58	79	85	424	42
L1-12 3+00S 4	55	0.3	60	284	72	362	124
L1-12 4+00S 5	24	0.3	42	185	62	284	47
L1-12 5+00S 6	54	0.7	90	58	84	213	30
L1-12 6+00S 7	22	0.4	56	89	115	303	41
L1-12 6+75S 8							
180 S 360N End 9	19	0.3	61	73	129	332	30
TPS-1	<5	1.0	12	12	59	24	<1
TPS-2	<5	0.3	12	12	73	18	<1
TPS-3	<5	0.4	31	35	86	36	<1
TPS-4	<5	0.3	10	16	76	23	<1
TPS-5	<5	0.1	8	13	41	20	1
TPS-6	<5	0.3	14	14	58	22	<1
TPS-7	28	0.2	11	21	83	17	<1
10 L-17-30SE@0+00SE	<5	0.2	5	3	11	<10	1
11 L-17-30SE@1+50SE	<5	1.0	48	22	131	58	6
12 L-17-30SE@3+00SE	10	1.6	52	28	180	95	11
13 L-17-30SE@4+50SE	23	1.4	48	53	108	137	29
14 L-17-30SE@4+50SE Creek	202	1.3	82	67	492	2880	65
15 L-17-30SE@7+50SE	10	2.0	24	33	86	123	32
16 L-17-30SE@9+00SE	8	0.6	55	40	140	169	20
17 L-17-30SE@10+5SE	18	1.0	71	65	202	364	18
18 L-17-30SE@12+00 R. Fork	116	2.4	206	268	328	3440	106
19 L-17-30SE@12+00SE 90N L. Fork	217	1.5	90	63	493	2740	44

*Handwritten notes:*  
 L1-12 3-8  
 TPS-1-7  
 L-17-30SE 10-19  
 Creek  
 R. Fork  
 L. Fork

Certified by




29/09/94

Assay Certificate

Page 1

Thor Resources

WO#25441

Sample #	Au ppb	Ag ppm	Cu ppm	Zn ppm	Er ppm	As ppm	Sb ppm
R1	19	0.4	34	1	132	<10	10
R2	19	0.1	3	1	77	10	2
R3	21	0.4	28	5	83	55	8
R4	11	0.1	16	11	24	28	3
R5	34	0.3	49	8	67	<10	5
R7	21	0.3	60	13	52	12	3
Flat Rock * R8	798	10.1	101	498	30	747	279
Round Rock * R9	38	1.0	64	112	13	527	91

Note: \* Two rocks were unlabelled.

Certified