

094135

**ASSESSMENT REPORT**

**PROSPECTING**



**BAR CLAIMS:**

#1 - 4      YC09286 - YC09289

#5 - 8      YC14612 - YC14615

**LATITUDE:**    62°19.5' N

**LONGITUDE:** 133°30' W

**REGISTERED OWNER:**      Rob Hamel

**MINING DISTRICT:**        Whitehorse

**REPORT PREPARED BY:**    B. Scott

**WORK PERFORMED:**        November 11, 1999 -  
November 30, 1999

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 4000.00.

*M. B. B.*  
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

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## **SUMMARY**

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Fieldwork in 1999 on the Bar 1 – 8 claims included cutting a 5-km access trail to the main showing, hauling out a 150-kg mini bulk sample, and some limited prospecting. A total of \$12,504.13 worth of work was performed.

Three composite samples were sent for analysis to Fireside Minerals Ltd., Highwood Resources Ltd. and Chemex Labs. Best specific gravity determination was 4.359. Sulphide and calcium content was within allowable parameters for American Petroleum Institute drill mud specifications.

# INTRODUCTION

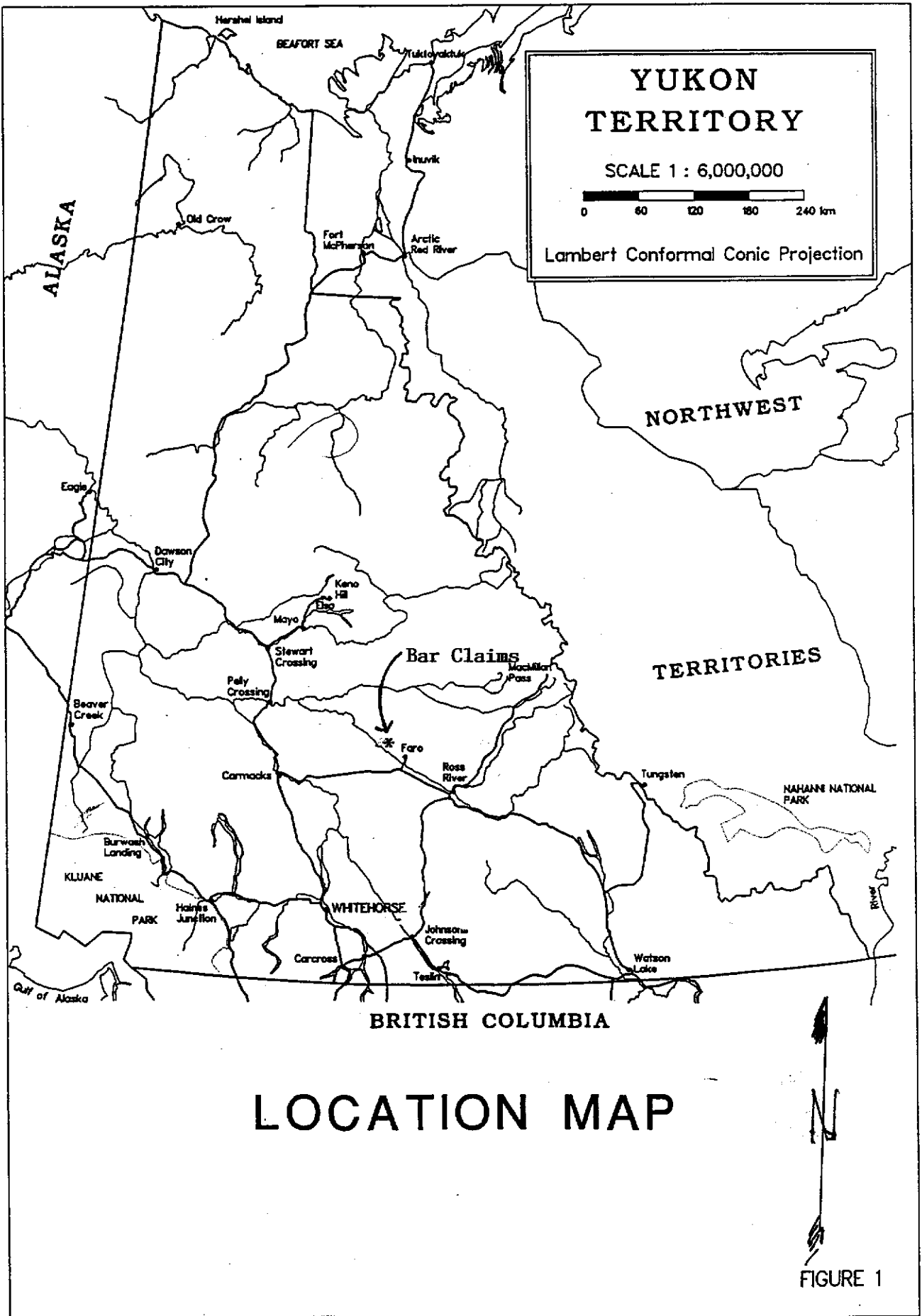
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The Bar property consists of eight claims:

Claim Name	Grant Number	Due Date
Bar 1	YC09286	Feb. 02, 2000
Bar 2	YC09287	Feb. 02, 2000
Bar 3	YC09288	Feb. 02, 2000
Bar 4	YC09289	Feb. 02, 2000
Bar 5	YC14612	April 04, 2000
Bar 6	YC14613	April 04, 2000
Bar 7	YC14614	April 04, 2000
Bar 8	YC14615	April 04, 2000

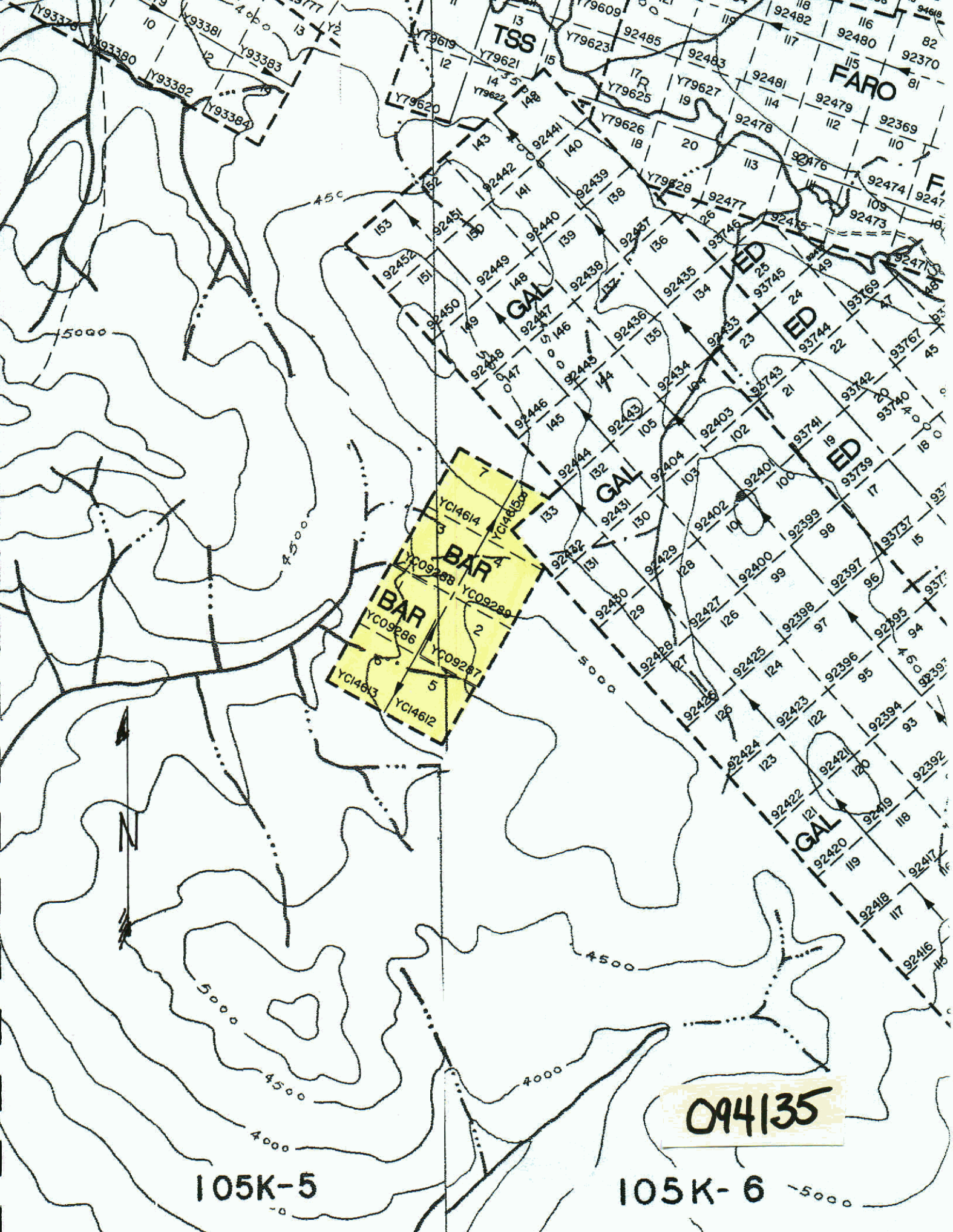
The property is located in the Central Yukon, approximately 25 km north of the Town of Faro, and 6 km west-southwest of Anvil Range Mining Corporation's mill site. The property straddles NTS map sheets 105 K/5 and 105 K/6 at lat. 62°19.5' N and long. 133°30' W.

Access is by road from the Town of Faro, 25 km north to the Rose Creek diversion channel on the southwest side of the Anvil Range Mining Corporation's tailings impoundment. As part of the work program covered by this report, a 5-km ATV or snowmobile trail was cut southwest from this point to the main showing on the Bar 1 claim (YC09286). Topography varies from rolling hills to mountainous. The main showing is situated at an elevation of 1,340 m, just above treeline. Valley bottoms are covered with patchy timber/buckbrush.



# LOCATION MAP

FIGURE 1



TSS

FARO

GAL

ED

GAL

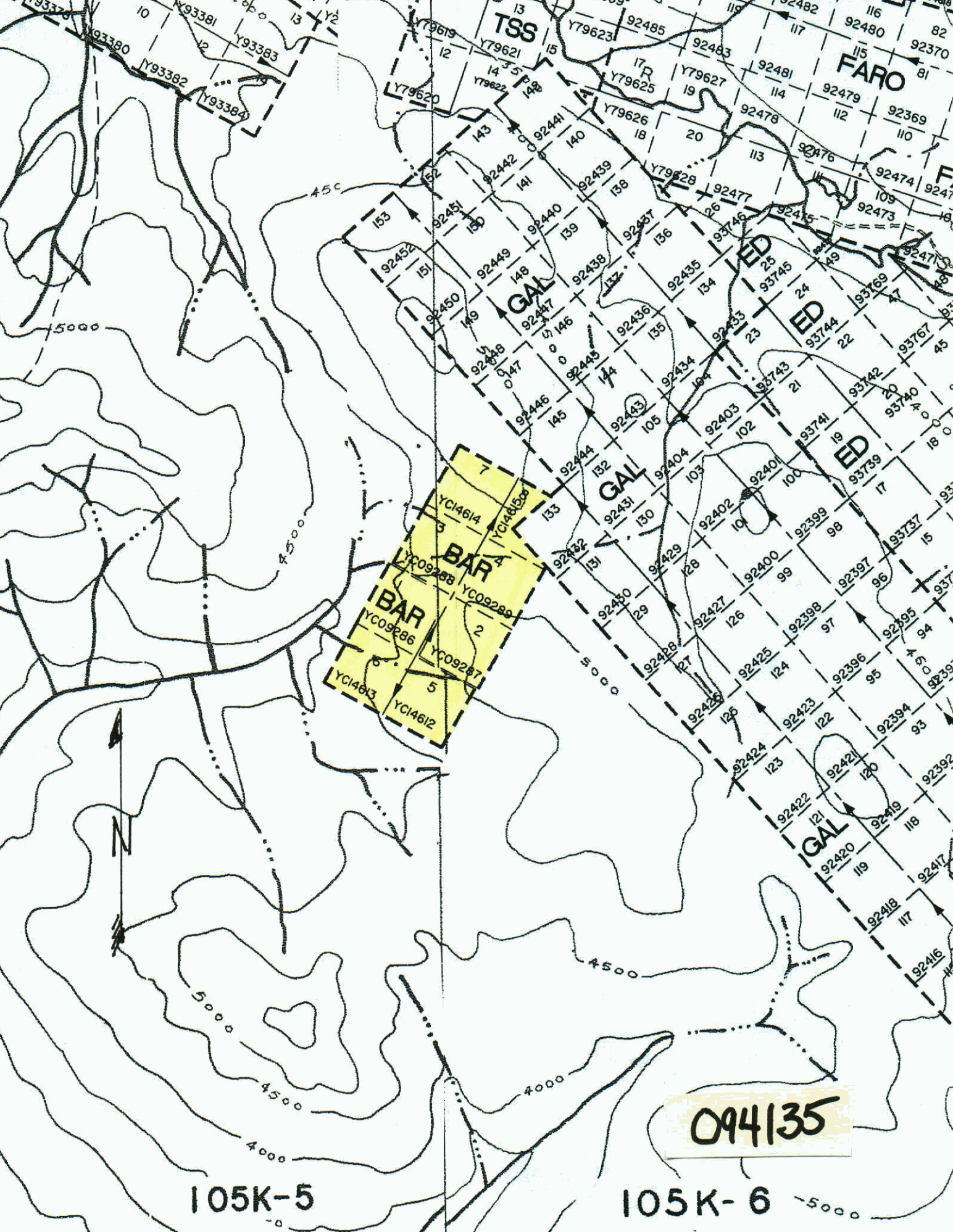
BAR

GAL

094135

105K-5

105K-6



## **1999 WORK PROGRAM**

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A regional mapping program undertaken by Cyprus Anvil Mining Corporation in the vicinity of the Faro mine in 1977 outlined several bedded barite occurrences outcropping on Rose Mountain over a distance of 9 km. Barite is a heavy mineral with a specific gravity of 4.5 and is used as an inert weighting agent in drill mud. In 1982, Dome Petroleum sampled and mapped the Rose Mountain barite occurrences with a view to supplying drill mud to their Beaufort Sea exploration project.

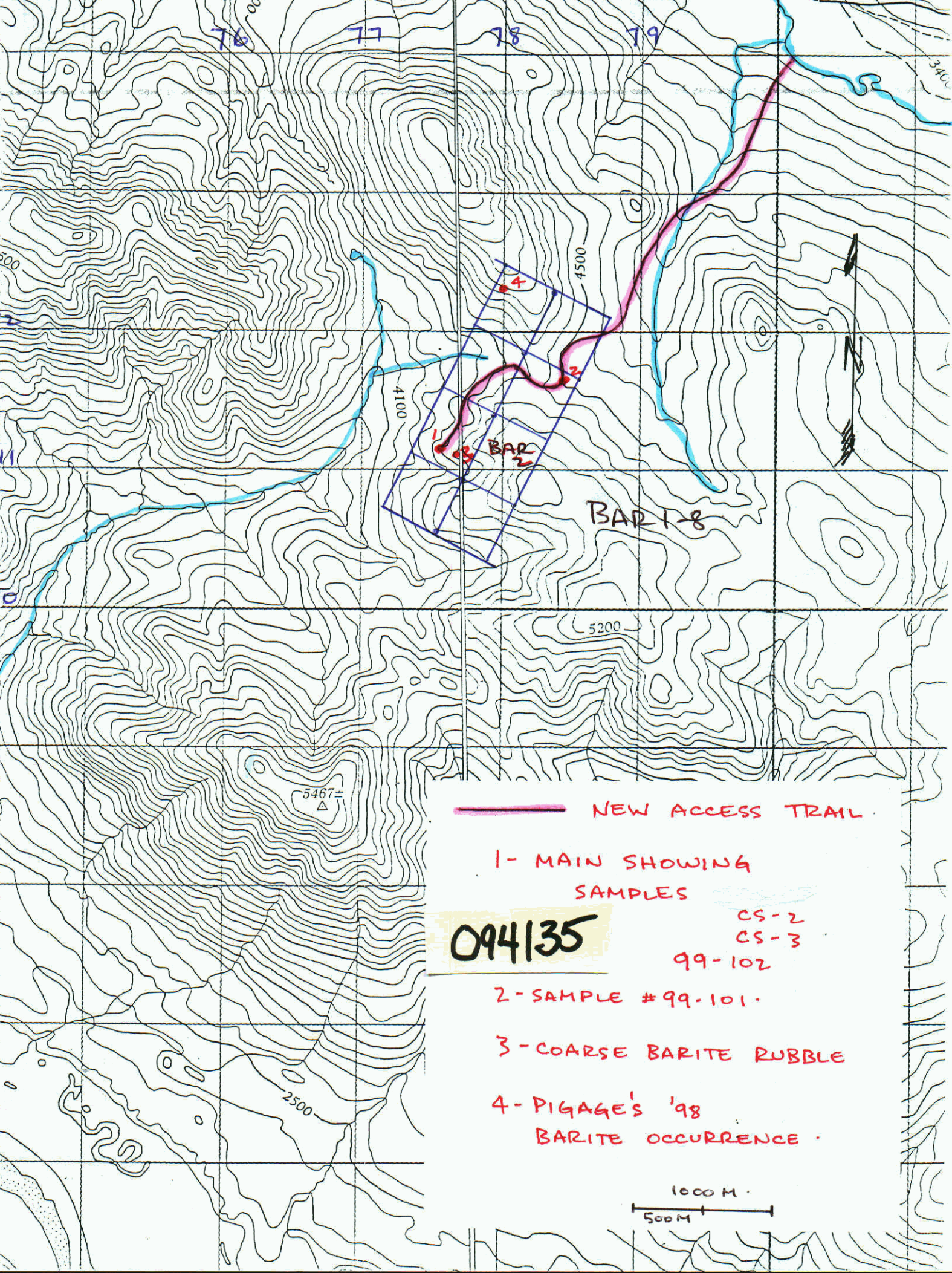
On the most promising showing, known as the 'URN 9', 180,000 tonnes of barite with a specific gravity of 3.99 was indicated, with potential for several million tonnes. Since the minimum acceptable specific gravity for drill mud is 4.2, some beneficiation would be required (Assessment Report #091369 – W. S. Read).

The 'URN 9' occurrence was restaked as the Bar 1 – 8 claims by R. Hamel in Spring, 1999. As part of an 'MDA Target Evaluation Program' undertaken in November/December, 1999, a 5-km ATV or snowmobile trail was cut from the southwest side of the Rose Creek diversion channel (see map) to access the 'URN 9' showing. A mini bulk sample weighing approximately 150 kg was taken from this showing, which is exposed on the surface for a length of 21 m. Three composite samples of approximately 5 kg each were prepared for analysis. Two samples were sent to Fireside Minerals Ltd. and Highwood Resources Ltd., both barite producers operating in Western Canada. The third sample was analysed by Chemex Labs, Vancouver. The remainder of the mini bulk sample may be used for beneficiation test work.

Several days were spent prospecting and locating key features on the claim block by GPS survey ( $\pm 30$  m).

Main showing (URN 9)	08577650E 6911200N
#1 Posts – Bar 7 & 8 #2 Posts – Bar 1 & 2	08577959E 6911429N
#2 Posts – Bar 7 & 8	08578421E 6912225N
#2 Posts – Bar 5 & 6	08577530E 6910620N
Point where new trail crosses claim line – Bar 3 & 4	08578119E 6911695N

Prospecting efforts were hampered by partial snow cover. Coarse barite rubble was found 140 m northeast and directly up-grade of the main showing. Outcrop sampled at 08578410E, 6911720N (sample #99-101) returned 2,530 ppm Ba by ICP and will be re-analysed for specific gravity and Ba by XRF. A new barite occurrence at 08578000E, 6912300N, discovered by MDA geologist Lee Pigage during a mapping program conducted in 1998, could not be examined due to snow cover.



76 77 78 79

4100

4500

5200

5467  
△

2500

— NEW ACCESS TRAIL

1- MAIN SHOWING  
SAMPLES

094135

CS-2  
CS-3

99-102

2- SAMPLE #99-101.

3- COARSE BARITE RUBBLE

4- PIGAGE'S '98  
BARITE OCCURRENCE

1000 M  
500 M

## **GEOLOGY**

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The regional geology has been described by L. Pigage<sup>3</sup> as follows:

“Rose Mountain is located on the southwest flank of the Anvil District in Central Yukon. Anvil District is part of the Cordilleran miogeocline, a prism of sedimentary rocks of Precambrian to Jurassic age deposited along the relatively stable continental margin of western North America.”

On the Bar 1 – 8 property, a stratabound barite horizon with a minimum thickness of 25 m occurs within phyllitic-bedded chert of the Earn Group of middle Devonian to Mississippian age.

Please refer to the Geology map in the Appendices.

## ROCK DESCRIPTIONS

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Sample #99-101: Rusty, crumbly with quartz

Sample #99-102: Grey, fine-grained, heavy, soft, minor quartz

Note: Three composite samples were derived from a total of 150 kg of material from the main showing, and were identified as samples #99-102, CS-2 and CS-3.

## ROCK GEOCHEMISTRY

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Specific gravity determinations were done on composite samples from the main showing with results as follows:

Chemex Labs	<i>Sample #99-102</i>	S.G. 4.07
Highwood Resources	<i>Sample #CS-2</i>	
	Run 1	S.G. 4.05
	Run 2	S.G. 4.05
	Run 3	S.G. 4.05
Fireside Minerals Ltd.	<i>Sample #CS-3</i>	
	Run 1	S.G. 4.347
	Run 2	S.G. 4.359
	Run 3	S.G. 4.155
	Run 4	S.G. 4.192

Chemex and Highwood also did multi-element ICP analysis to confirm that sulphide and calcium content was within allowable limits to meet drill mud specifications (see Appendices).

## **CONCLUSION AND RECOMMENDATIONS**

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Re-sampling of the main barite showing (previously known as 'URN 9') on the Bar property under this program has confirmed that the average specific gravity (4.159) is slightly lower than the minimum specific gravity (4.2) required for drill mud.

Nevertheless, considerable interest in the property has been expressed by Fireside Minerals Ltd., who are currently mining barite at Fireside, B.C. and trucking it to Watson Lake, Yukon for processing.

The next logical step in developing the property would be to prove up tonnage at the main showing by diamond drilling a minimum of three relatively short holes. The new access trail partially funded by this program would be used to support the drilling program.

Additional prospecting and further evaluation of any new showings on the property should be pursued.

# **APPENDICES**

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Certificates of Analysis

Statement of Expenses

Statement of Qualifications

Geology Map and Code



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: NORWEST ENTERPRISES INC.

BOX 5269  
 WHITEHORSE, YT  
 Y1A 4Z2

Project :  
 Comments: ATTN: ROB HAMEL

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 07-DEC-1999  
 Invoice No. : I9934484  
 P.O. Number :  
 Account : PSP

## CERTIFICATE OF ANALYSIS

### A9934484

SAMPLE	PREP CODE		Au ppb	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
99-101	205	226	< 5	< 0.2	0.13	< 2	< 10	2530	< 0.5	< 2	< 0.01	< 0.5	1	161	35	0.64	< 10	< 1	0.05	< 10	0.02

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: NORWEST ENTERPRISES INC.

BOX 5269  
WHITEHORSE, YT  
Y1A 4Z2

Project :  
Comments: ATTN: ROB HAMEL

Page Number :1-B  
Total Pages :1  
Certificate Date: 07-DEC-1999  
Invoice No. :19934484  
P.O. Number :  
Account :PSP

## CERTIFICATE OF ANALYSIS

A9934484

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
99-101	205	226	170	< 1	< 0.01	9	110	< 2	0.05	< 2	< 1	9	< 0.01	< 10	< 10	5	< 10	22

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: NORWEST ENTERPRISES INC.  
 BOX 5269  
 WHITEHORSE, YT  
 Y1A 4Z2  
 Project:  
 Comments: ATTN: ROB HAMEL

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 07-DEC-1999  
 Invoice No. : 19934485  
 P.O. Number :  
 Account : PSP

## CERTIFICATE OF ANALYSIS

### A9934485

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
99-102	205 226	< 0.2	0.02	< 2	< 10	2300	< 0.5	< 2	< 0.01	< 0.5	< 1	6	3	0.03	< 10

CERTIFICATION: \_\_\_\_\_

*[Handwritten signature]*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: NORWEST ENTERPRISES INC.

BOX 5269  
WHITEHORSE, YT  
Y1A 4Z2

Project :  
Comments: ATTN: ROB HAMEL

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 07-DEC-1999  
Invoice No. : 19934485  
P.O. Number :  
Account : PSP

## CERTIFICATE OF ANALYSIS A9934485

SAMPLE	PREP CODE	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
99-102	205 226	< 1	0.01	< 10	< 0.01	< 5	1	< 0.01	< 1	10	< 2	0.06	< 2	< 1	21

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: NORWEST ENTERPRISES INC.

BOX 5269  
WHITEHORSE, YT  
Y1A 4Z2

Project :  
Comments: ATTN: ROB HAMEL

Page Number : 1-C  
Total Pages : 1  
Certificate Date: 07-DEC-1999  
Invoice No. : I9934485  
P.O. Number :  
Account : PSP

## CERTIFICATE OF ANALYSIS

A9934485

SAMPLE	PREP CODE		Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Spec Gr S.G.	S % Sulfate	C % inorg	Ba XRF %	C %			
99-102	205	226	< 0.01	< 10	< 10	1	< 10	< 2	4.07	11.53	< 0.05	43.9	0.02			

CERTIFICATION: \_\_\_\_\_

Attn: Rob Hamill

403-936-0007

**HIGHWOOD RESOURCES LTD.**

Canada Talc, Mountain Minerals, Limeco

12/21/99

QUALITY ASSURANCE DEPARTMENT Ph: (613) 472-2434, Fax: (613) 472-5467  
E-mail: gpohn@telusplanet.net

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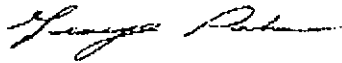
Attention: Heather

Bar Berite  
-near Faro, Yk

Sample # 30398

<u>Specific gravity.</u>	<u>% Reflectance</u>
Run 1 4.05	67.5
Run 2 4.05	
Run 3 4.05	

Regards



George Pohn  
Manager, Quality Assurance

SAMPLE CS-2



# • Fireside Minerals Ltd.

202 -4406 50th Ave

Red Deer, Ab. Canada T4N 3Z

Date: Dec.28/99

Att: Brian Scott

FARO Barite Samples.

## Select samples:

July19/99            Specific Gravity      4.347

                         Specific Gravity      4.359

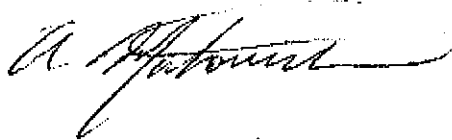
Nov.27/99            FARO Barite outcrop

                         Specific Gravity      4.155

                         Specific Gravity      4.192

SAMPLE CS-3 :

Operations manager: Al Matovich



## Statement of Expenses

The 1999 work program was conducted November 11 – 21, 1999. A total of 30 man-days was spent travelling, laying out and cutting a five-kilometre access trail, bulk sampling the main showing, and prospecting. Field personnel were Rob Hamel, Brian Scott, Ron Berdahl and Geoff Barrington.

<i>Item</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Total/Item</i>
Labour	Rob Hamel: – Cutting – Prospecting – Bulk Sampling	\$250/day x 10	\$2,500.00
	Brian Scott: – Cutting – Bulk Sampling – Prospecting	\$250/day x 10	2,500.00
	Ron Berdahl: – Line Cutting	\$250/day x 4	1,000.00
	Geoff Barrington: – Line Cutting – Bulk Sampling	\$250/day x 6	1,500.00
Equipment Rental	4x4 Truck #1	\$390/wk. x 1	390.00
	4x4 Truck #2	\$97.50/wk. x 2	195.00
	Snowmobile	\$100/wk. x 2	200.00
	Chainsaws (4)	\$180/wk. x 4	720.00
	Trailer	\$40/wk. x 2	80.00
	Skimmer	\$20/wk. x 2	40.00
	Brushcutter	\$180/wk. x 1	180.00
Miscellaneous	Workers' Compensation coverage for 4 persons for 1 month	\$213.88/month	213.88
	Assays	N/A	100.79
	Report Preparation	N/A	400.00
	Skidoo & chainsaw gas and oil	N/A	113.98
	Travel costs	3,144 km @ \$0.42/km	1,320.48
	Camp costs	30 m/days @ \$35/day	1,050.00
<b>Grand Total</b>			<b>\$12,504.13</b>

## Statement of Qualifications

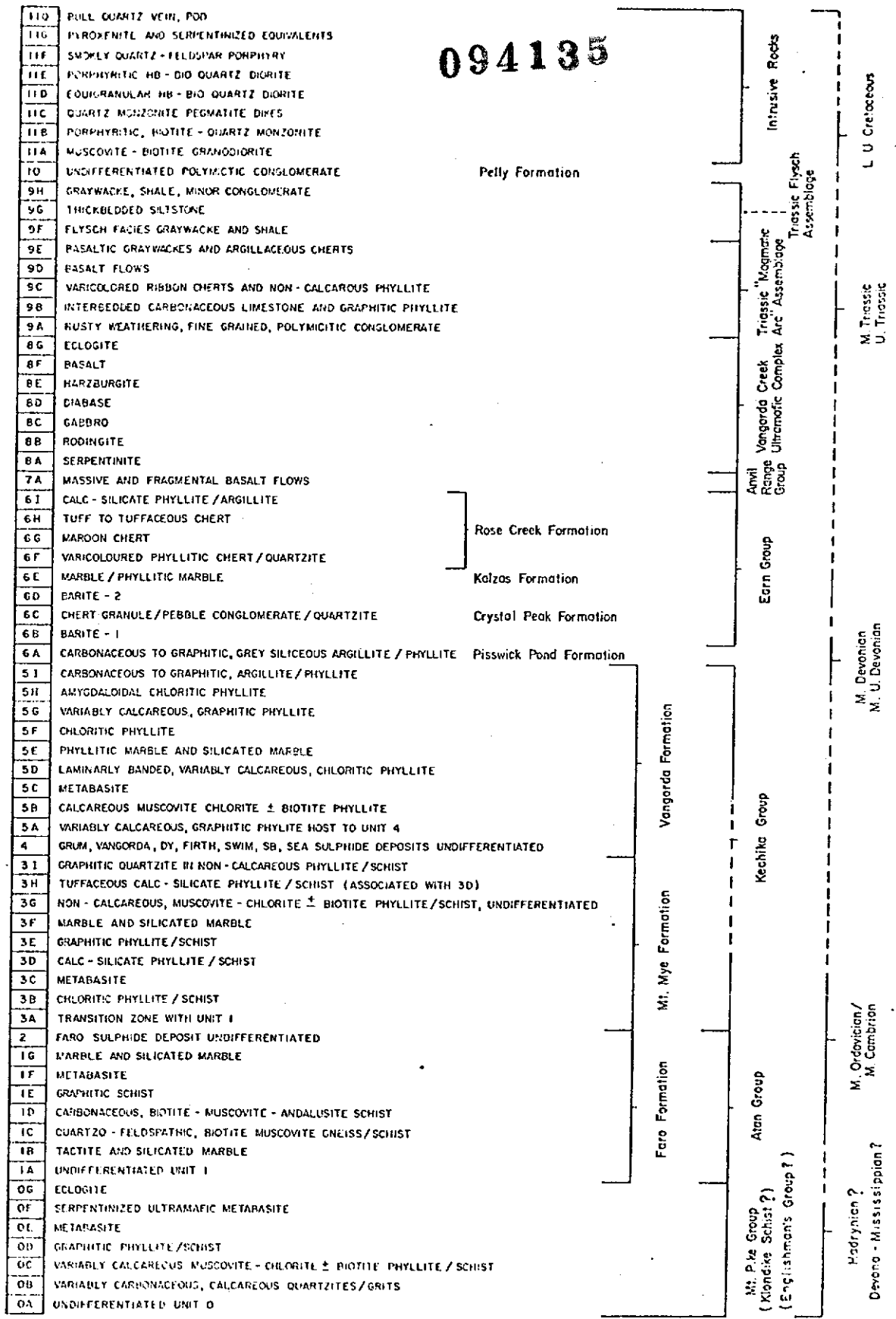
Brian Scott has been involved in placer mining and prospecting in the Yukon and Northern B.C. for over twenty years.

- Basic Prospecting Course – 1977
- Advanced Prospecting Course – 1988
- Petrology for Prospectors Course – 1995

A handwritten signature in black ink that reads "Brian Scott". The signature is written in a cursive, flowing style.

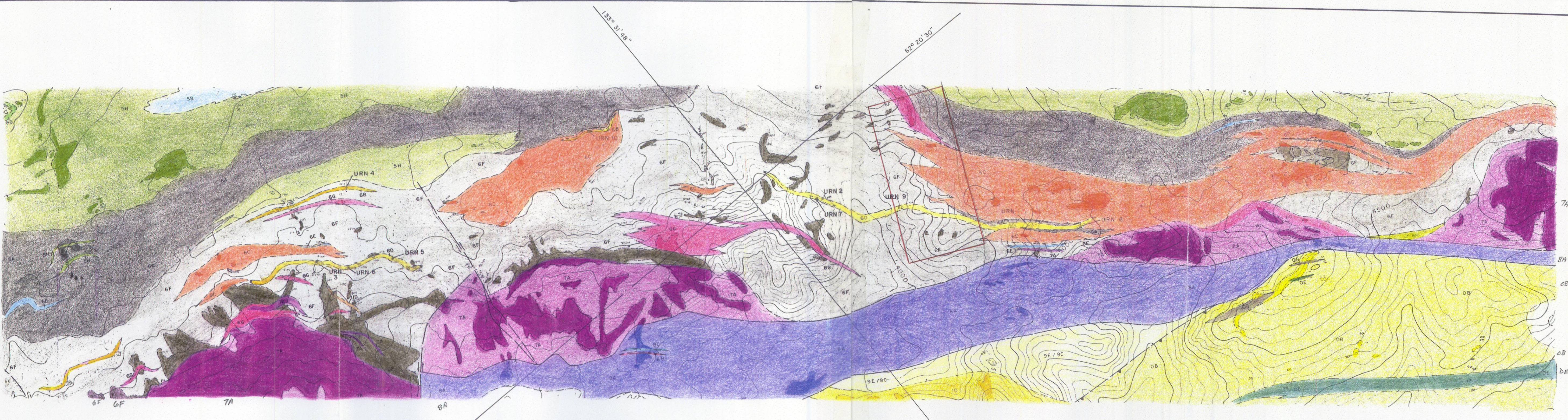
ANVIL RANGE LITHOSTRATIGRAPHIC CODE

094135



BAR 1-8

Figure 4



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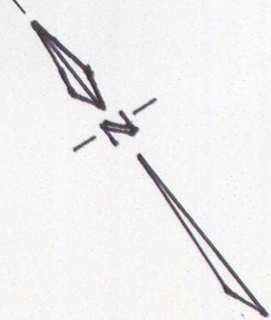


FIGURE 3	
CYPRUS ANVIL MINING CORPORATION	
URN GROUP	
GEOLOGY MAP	
APRIL, 1978 JPF / rwr	SCALE 1" = 2000' (Reference Map Sheets D-6 & E-6)

## **REFERENCES**

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1. Assessment Report #090345  
J. P. Franzen – 1978
  
2. Assessment Report #091369  
W. S. Read – 1982
  
3. Preliminary Geology of Rose Mountain, Anvil District  
Central Yukon (105 K/05)  
Lee Pigage – 1998
  
4. Beneficiation of Barite Ore  
D. B. Craig – 1995

# **PHOTOGRAPHS OF CLAIMS AND SURROUNDING AREA**

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Main Showing 8577650E  
Bar #1 6911200N



ANVIL  
RANGE  
MILLSITE

View northeast across Rose Creek Valley from Bar #7 – 8

094135



Looking southwest – Main Showing in mid-photo



Main Showing 8577650E  
Bar #1 6911200N

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