

06/86

1984

ASSESSMENT REPORT

ON THE

GEOCHEMICAL SURVEY

ON THE FABLE LAKE PROPERTY

JO 18 - 19, 25 - 26, 33 - 34, AND 42 - 43

OMINECA MINING DIVISION, BRITISH COLUMBIA

55° 35' N, 125° 36' W  
N.T.S. 93N/12

OWNER: ARKLATEX PETROLEUM CORPORATION

FABLE LAKE MINES LTD

OPERATOR: GOLDEN PORPHYRITE LTD.

F. MARSHALL SMITH P. ENG.

Golden Porphyrite Ltd.

SEPTEMBER 1985

14.790  
98/90  
06/86

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14790

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**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,790**



FIGURE 1

GOLDEN PORPHYRITE LTD.
<b>KELLY CREEK PROPERTY</b>
OMINECA MINING DIVISION, B.C.
<b>LOCATION MAP</b>
KILOMETRES
0 50 100 200 300 400

## INTRODUCTION

The Fable Lake property consists of claims Jo 18-19, 25-26, 33-34 and 42-43 (160 units) is located 30 km northeast of Takla Landing and 140 km northeast of Smithers in the Omineca Mining Division. Its National Topographic Survey location is 93N/12E at 55° 41' north latitude and 125° 35' west longitude, (fig. 1).

The property is accessible by the Hogem pass four-wheel drive road from the nearest settlement, Takla Landing, located on the B.C. Rail line. The property was evaluated using a Hughes 500D helicopter based at Takla Landing, a return trip taking 25 minutes.

The Property encompasses Kelly Creek, a southerly draining creek rising at an elevation of 1,550 m above sea level with high ground to the north, west and east. Alice Creek is also contained within the property. Kenny Creek and a series of lakes, of which Tom, Fable and Byrnes Lakes are partly within a broad glacially modified southwest-northeast trending valley located in the southeast corner of the property. The treeline is at about the 1,600 m elevation with alpine vegetation above and alpine fir, spruce and mixed coniferous vegetation on valley sides and bottoms. Outcrop exposure is restricted to ridge crests with maximum exposure present on north facing slopes.

Kelly Creek has a history of placer mining since the discovery of gold in 1931. Operations were concentrated at a point 2.4 km above the confluence of the creek with Kenny Creek. A record of gold produced is not available. A total of 81 oz Au is reported to have been produced from Alice Creek, however there are no details available concerning the location of the discovery on this creek. Active operations continue to this day.

With the recent development of a new gold occurrence model involving large tonnage low grade deposits, the owner, Arklatex Petroleum Corporation, contracted Golden Porphyrite Ltd., to locate the source rocks of the placer gold found in many of the surrounding creeks. Rocks belonging to the Permo-Triassic Cache Creek Group outcrop within and around the claim block and conform to this model. This model and the gold found in Kelly Creek make this property ideal for gold exploration.

The 1983 work program collected 268 soil, 135 rock-chip and 5 heavy sediment samples. An anomalous gold area was outlined in JO 19 by geochemical soil results. This area was further outlined by 8 geochemical rock-chip anomalies ranging from 35 to 1,800 ppb Au.

In 1983, for grouping purposes, the Fable Lake property was divided into two groups, Kelly 1 and Kelly 2, (fig.2).

The 1984 work was carried out by Golden Porphyrite personnel supervised by Mr. H. Macfarlane and directed by Mr. F.M. Smith, P. Eng. The area was geologically prospected. One geochemical rock-chip, 8 heavy Sediment and 14 soil samples were collected.

Work was evenly divided between the two groups Kelly 1 and Kelly 2.

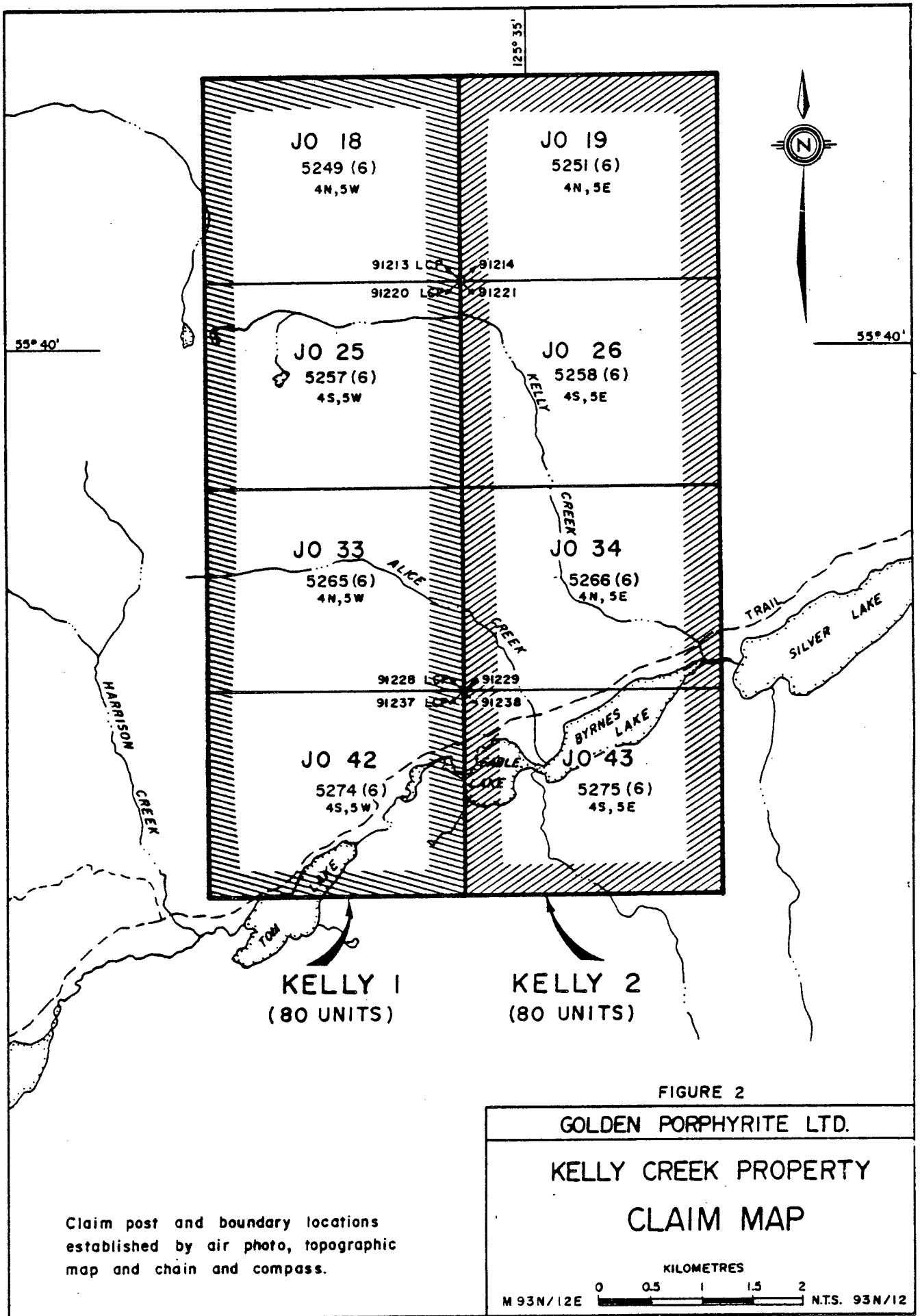


FIGURE 2

GOLDEN PORPHYRITE LTD.

KELLY CREEK PROPERTY

CLAIM MAP

Claim post and boundary locations established by air photo, topographic map and chain and compass.

### GEOCHEMICAL SURVEY

A total of 14 soil samples (Appendix A) were collected using the constant contour method around areas previously geologically mapped, prospected and showing signs of economic potential according to the model. Soil samples were taken from the "B" horizon at 30 and 50 m intervals along lines of constant elevation. Once extracted the soil was described and sealed in a wet-strength kraft bag for analysis. The average sample depth was approximately 20 cm. (Analysis procedures appendix C)

The analysis returned 5 consistent silver anomalies on two consecutive contour lines 100 m apart with values ranging from .5 to 4.2 ppm Ag in the north-east corner of the property. No gold anomalies were found in soil samples.

In the process of prospecting one 1-kg rock chip sample was taken in July, 1984. This sample was analyzed by Chemex Labs for gold and silver. (Analysis procedure appendix C)

The analytical results revealed no anomalous values for either gold or silver in the rock sample.

Heavy Sediments:

A total of 3 heavy sediment samples were collected during July, 1984 and 14 more in late October (fig. 5). For each sample approximately 0.5 m<sup>3</sup> of material was field processed and a 2-4 kg subsample was sent for analysis to Chemex Labs.

The fall heavy sediment sampling program returned some very good results on Kelly Creek. HS 0105 returned values of 94,000 ppb Au and 52.0 ppm Ag. HS 0207 returned values of >200,000 ppb Au and 44.0 ppm Ag. HS 0209 returned 1560 ppb Au.

Alice Creek returned anomalous values of 6800 and 520 ppb Au.



### CONCLUSIONS

The anomalous heavy sediment values found in Kelly Creek are very nicely bracketed by low or zero values in two tributaries. The distance between the 94,000 ppb Au and the 200,000 ppb Au sites is 1400 m.

The location of the values found in Alice Creek would indicate that an ore body could extend through the ridge between Alice and Kelly creeks.

### RECOMMENDATIONS

A two phase program is recommended for 1985:

PHASE I, further heavy sediment sampling to isolate the area where the gold is getting into the creeks. Trenching and detailed mapping. An estimated cost for this phase would be \$50,000.

PHASE II, is dependant on phase I and would consist of diamond drilling, an estimated cost for this phase would be \$50,000.


BLOCK 2 Fable Lake Mines Ltd  
Detailed Cost Analysis

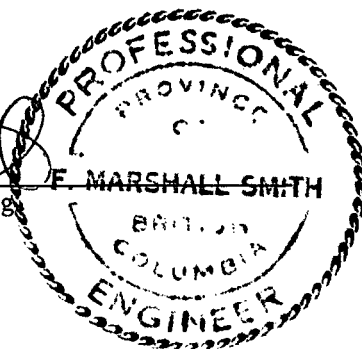
		June 27-30		Oct 10-26		
		Camp setup		Field Work		
	HRS/WKD	RATE				
AKHURST, K	10.1	\$12.50	\$126.01	\$0.00		
BUNKER, D	0.0	\$10.50	\$0.00	\$0.00		
CHOMACK, B	15.4	\$15.63	\$241.46	\$0.00		
COFFIN, D	13.3	\$15.63	\$208.38	\$0.00		
CROCKFORD, B	34.0	\$15.63	\$156.06	\$375.12		
DEBOCK, E	0.0	\$17.50	\$0.00	\$0.00		
FRENCH, L	9.6	\$11.00	\$105.08	\$0.00		
FRENCH, M	24.7	\$11.00	\$271.20	\$0.00		
GUNNING, M	8.9	\$11.00	\$98.02	\$0.00		
HOLOPAINEN, C	22.3	\$11.00	\$245.78	\$0.00		
MACFARLANE, H	53.8	\$18.75	\$559.65	\$450.00		
NELLES, D	24.0	\$15.63	\$0.00	\$375.00		
SANDHU, P	16.2	\$9.38	\$152.02	\$0.00		
SAUNDERS, B	8.0	\$12.50	\$100.00	\$0.00		
STEPHENS, CC	41.5	\$15.63	\$273.71	\$375.12		
STEPHENS, JM	60.3	\$11.00	\$662.89	\$0.00		
WHITMORE, N	138.8	\$9.38	\$1301.00	\$0.00		
		Mob Demob	\$1227.70			
Setup Total			\$5728.96	\$1575.24		
Oct. Field			\$1575.24			
Benifits			\$913.03			
Wage Total			\$8217.23			
BILLITS	12					
BILLIT/DAYS	38.77					
ROOM & BOARD		\$28.70	TOTAL R & B	\$1112.63		
ASSAYING	SOILS 15	\$8.10	ROCKS 1	\$9.68	H.S. 18	\$18.90
						\$471.38
DRAFTING						\$1815.55
EQ. RENT	GM Jimmy		Uhaul Tlr.		Light plant	\$1569.19
EQ. REP.						\$51.67
SUPPLIES						\$2117.63
TRANSPORT						\$1420.44
HELICOPTER	3.40	\$420.00	HR.			\$1428.00
FUEL						\$232.54
OFFICE						\$2144.02
MOB/DEMOB	Ground & Fixed wing					\$370.00
ROCK CRUSHER						\$1860.00
Total			\$22810.28			
Report			\$750.00			
			\$23560.28			
Add Overhead			\$3534.03			
1984 Total			\$27094.31			

CERTIFICATE

I, F. Marshall Smith, do hereby certify that:

1. I am a consulting geologist and geochemist with offices at 218-744 West Hastings Street, Vancouver, British Columbia.
2. I am a graduate at the University of Toronto with a degree of B.Sc., Honors Geology.
3. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
4. I have practiced my profession continuously since 1967.
5. This report is based on reports by personel working under my direction for the owners and operators of the property and two examinations of the claims in 1984.
6. I have no interest in the shares of the named company or in any of the companies with contiguous property to the property described in this report but I do have an interest in Golden Porphyrite Ltd.

  
F. Marshall Smith, P.Eng.  
September 12, 1985.



## FABLE LAKE MINES LTD

## GEOCHEM RESULTS

## 1984 WORK PROGRAM

	sample description	Ag ppm Aqua-R	Au-AA ppb
10	T402 HS0097	2.2	120
11	T402 HS0098	1.2	40
12	T402 HS0104	0.8	<20
13	T402 HS0105	0.4	<20
14	T402 RZ1000	0.1	5
15	T402 SZ0940	1.9	<10
16	T402 SZ0941	0.6	<10
17	T402 SZ0942	0.1	<10
18	T402 SZ0943	0.6	<10
19	T402 SZ0944	0.5	<10
20	T402 SZ0945	0.1	<10
21	T402 SZ0997	0.2	<10
22	T402 SZ0998	0.2	<10
23	T402 SZ0999	0.3	<10
24	T402 SZ1001	0.5	<10
25	T402 SZ1002	0.5	<10
26	T402 SZ1003	0.2	<10
27	T402 SZ1004	1.1	<10
28	T402 SZ1005	4.2	<10
FALL	>T402 HJ 0100	0.2	<20
FALL	>T402 HJ 0101	0.6	<20
FALL	>T402 HJ 0105	52.0	94000
FALL	>T402 HJ 0106	0.2	<20
FALL	>T402 HS 0206	0.2	<20
FALL	>T402 HS 0207	44.0	>200000
FALL	>T402 HS 0208	0.2	40
FALL	>T402 HS 0209	0.8	1560
FALL	>T402 HS 0210	0.4	<20
FALL	>T402 HS 0223	0.2	<20
FALL	>T402 HS 0224	0.4	<20
FALL	>T402 HS 0225	1.0	520
FALL	>T402 HS 0226	0.2	20
FALL	>T402 HS 0227	1.2	6800

Appendix B

ROCKCHIP DISCRIPTIONS

Sample #	ppm Ag	ppb Au
T402 RZ 1000	0.1	5

Argillite, black very fine grained fissile in creek gully

ANALYSIS PROCEDURE

SOILS

Analysis for gold and silver was conducted at Chemex Labs, 212 Brooksbank Avenue, North Vancouver, B.C. All samples were dried and ring pulverized to -100 mesh.

Gold: 5.0 g samples were ashed @ 800 degrees C for one hour, digested with aqua regias to dryness and taken up in 25% HCl. The gold was then extracted as the bromide complex into MIBK and analyzed using atomic absorption techniques with a detection limit of 10 ppb.

Silver: A 1.0 g portion of sample was digested in aqua regia (3:1 HCl-HNO<sub>3</sub>) for approximately 2 hours. The digested sample was cooled and made up to 25 ml with distilled water. The solution was then mixed and solids allowed to settle. Silver was determined by atomic absorption techniques using background correction on analysis with a detection limit of 0.1 ppm.

ROCKS:

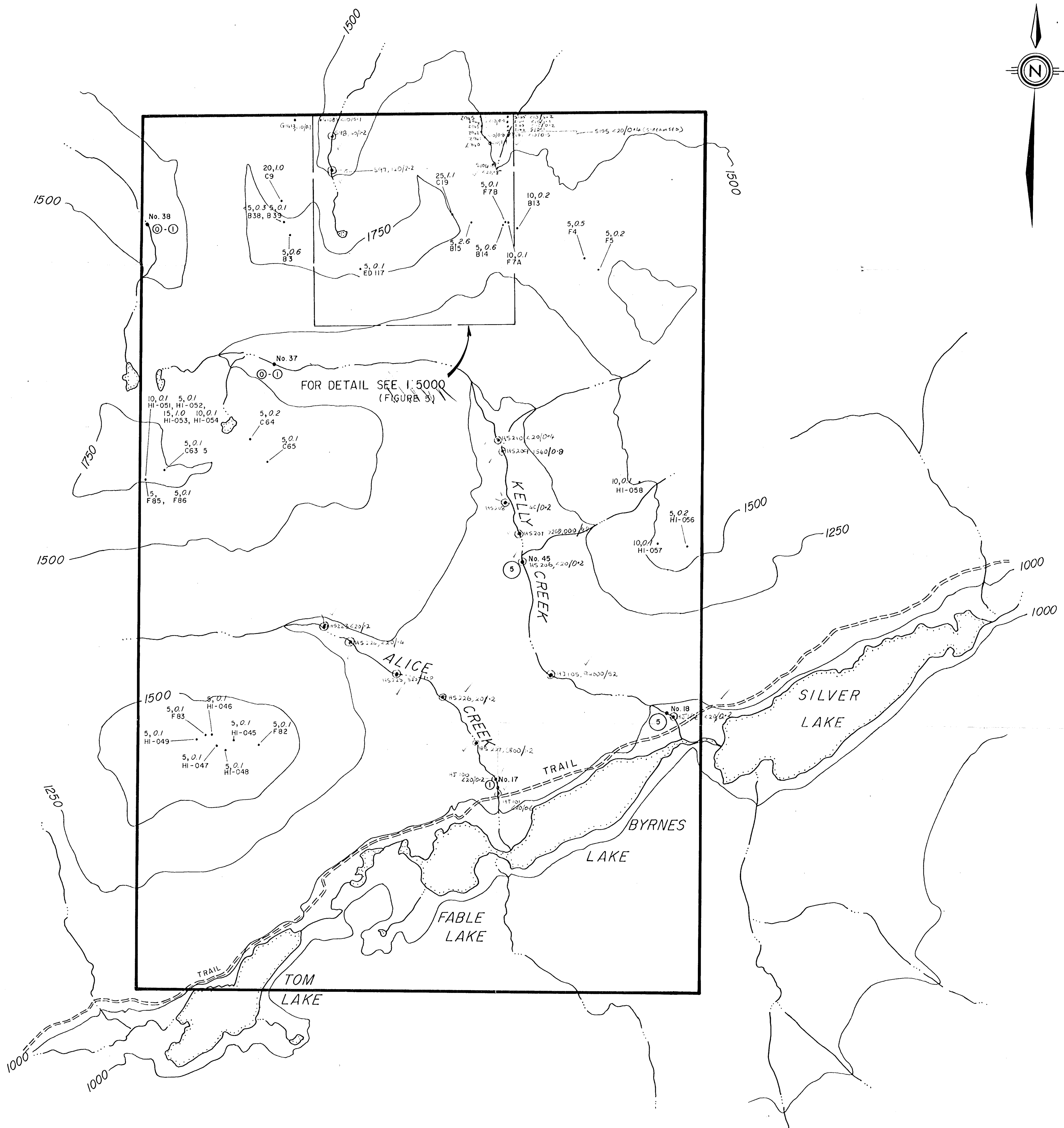
In the process of mapping 1-kg rock chip samples were taken in July, 1984, (Appendix B). These samples were analyzed by Chemex Labs for gold and silver. All samples were dried, crushed and a subsample ring pulverized to approximately -100 mesh.

Gold: 10.0 g samples were fused with the addition of 10m mg of Au free Ag metal and cupelled. The silver bead was parted with dilute HNO<sub>3</sub> and then treated with aqua regia . The salts were dissolved in dilute HCl and analyzed for Au on an atomic absorption spectro-photometer with a detection limit of 5 ppb for Au.

Silver: was analyzed as described above for soils.

Heavy Sediments

For each field processed sample approximately 0.5 m<sup>3</sup> of material was processed and 2-4 kg subsamples were sent for analysis to Chemex Labs. The subsamples were floated in Tetrabromoethane to isolate mineral with a specific gravity greater than  $2.93 \pm 0.1$  g/cm<sup>3</sup>. This fraction was then dried, magnetically separated and ring pulverized to -100 mesh. Samples were then analyzed for gold and silver as described above for soils.



**LEGEND**

1983 SAMPLING

10,01 Au (ppb), Ag (ppm)  
 B13 Rock chip sample number

⑤ Heavy Sediment Sampling Location  
 Scale of Au from 1 to 10  
 No. 18 Sample number

Scale of Au  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

1984 SAMPLING

⑤ HI 100, 220/0+2 SED SAMPLE NO., Au ppb / Ag ppm  
 • 598 40/1+2 ROCK CHIP NO., Au ppb / Ag ppm

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FIGURE 5

GOLDEN PORPHYRY LTD

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FABLE CREEK PROPERTY

ROCK CHIP GEOCHEMICAL AND  
 HEAVY SEDIMENT SAMPLING  
 LOCATION PLAN

SCALE IN KILOMETRES





