

RECONNAISSANCE GEOCHEMICAL SURVEY

STIRRUP MINERAL CLAIMS

CAMELFOOT RANGE

CLINTON MINING DIVISION

NTS 920/1E

51° ~~05' 53" N~~ 122° ~~11' 32" E~~
06.2' 11.4'

For

Operator/Owner: Emmett Horne

FILMED

By

E. Meyers Consulting

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,176

CERTIFICATE

I, Eugene P. Meyers, Of the City of Calgary, in the Province of Alberta, certify as follows:

1. That I am a geologist residing at 139 Coleridge Road N.W., Calgary, Alberta
2. That I graduated with a Bachelor of Science Degree in Geology from the University of Idaho in 1963
3. That I am registered as a Professional Geologist in the Province of Alberta.
4. That I have practiced my profession in mining and minerals exploration in Canada and United States continuously for the past twenty-two years

Dated in Calgary this 26 day of Aug , 1986

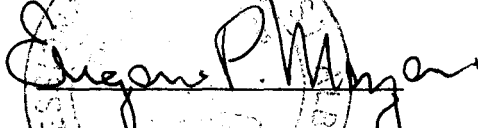
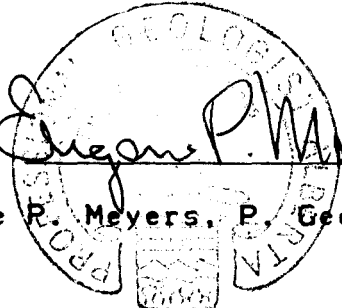

Eugene P. Meyers, P. Geol.


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RECONAISANCE GEOCHEMICAL SURVEY
STIRRUP MINERAL CLAIMS
CLINTON MINING DIVISION
NTS 920/1E

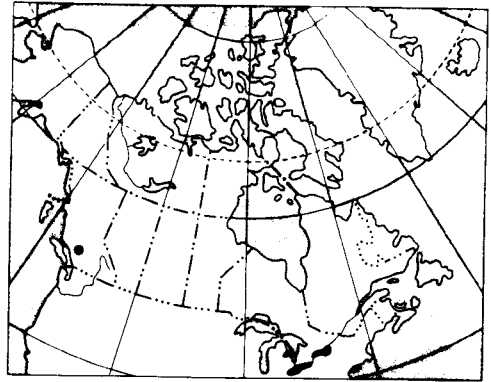
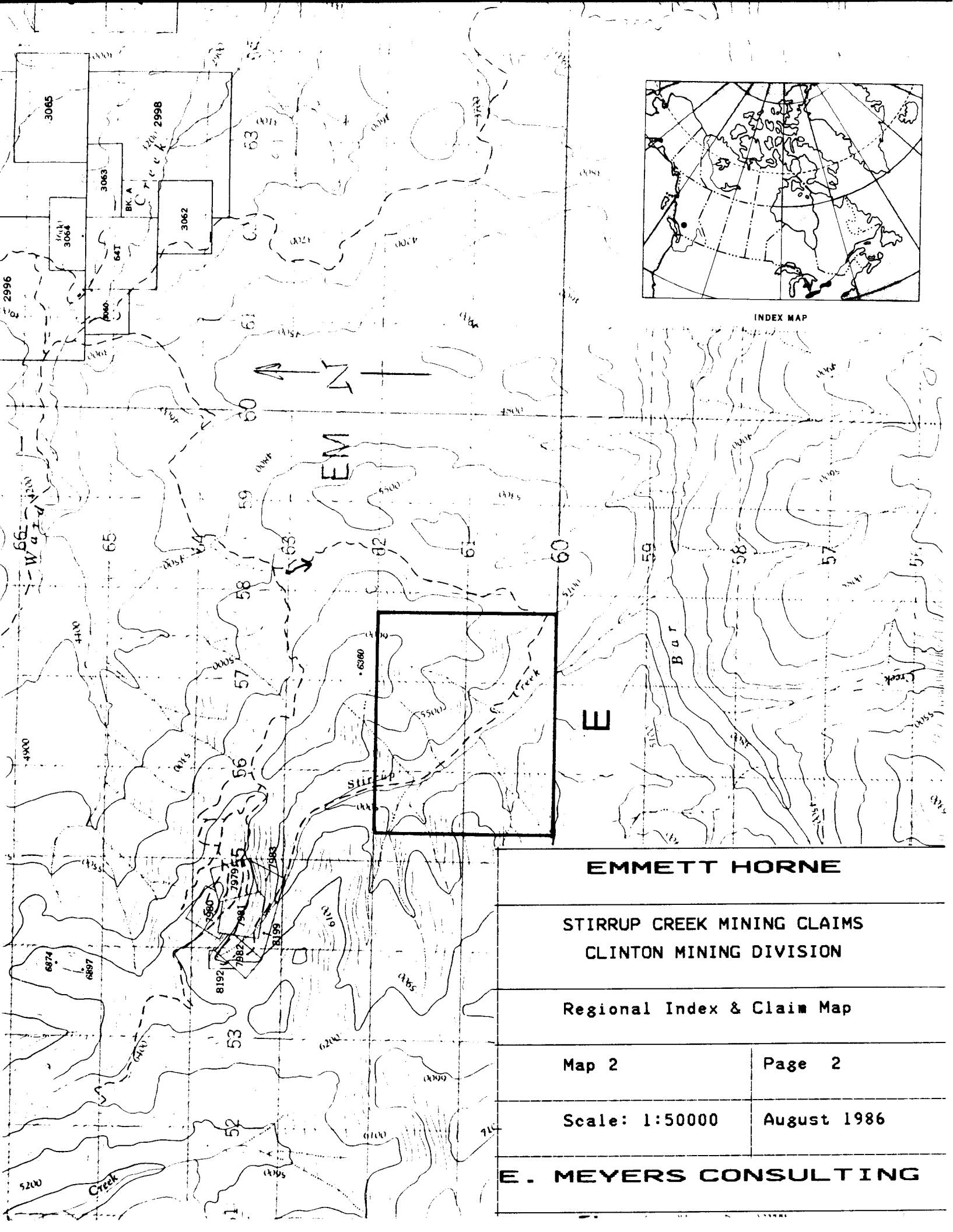
INTRODUCTION

From July 9, through July 11, 1986, the author, accompanied by J. Kruszewski and Art Johnson of Calgary, conducted a reconnaissance soil and rock geochemical survey on the above named claims.

The potential for the existence of a possible lode type gold occurrence lies in the presence of placer deposits mined from Stirrup Creek which bisects the claim area. Geochemical results outline two areas deserving of further work.

All known government and private documentation relating relating to the claim area was researched prior to visiting the claims.

This report is being written at the request of Mr. Emmett Horne of Leduc, Alberta.



INDEX MAP

EM

E

EMMETT HORNE

**STIRRUP CREEK MINING CLAIMS
CLINTON MINING DIVISION**

Regional Index & Claim Map

Map 2

Page 2

Scale: 1:50000

August 1986

E. MEYERS CONSULTING

PROPERTY (MAP 1)

The claims consist of 20 units acquired by staking in July, 1983, by E. Horne. The Stirrup Mineral Claims, No 1453, were staked 4 units north, and 5 units west of the legal corner post and recorded on July 14, 1983.

LOCATION (MAP 1)

The claims are accessible by road from the Big Bar Ferry Crossing on the Frazer River, 73 km. east of Clinton, B.C. The turn-off for the Upper Stirrup Cr. Road is 9.6 km. south and east of the ferry on the Big Bar-Lillooet Road. The turn-off for the lower Stirrup Ck. Road is 4.4 km. to the west. The lower road descends into the Watson Cr. drainage before turning into Stirrup Cr. and the center of the claim area, a distance of 5.5 km.

TOPOGRAPHY VEGETATION

The topography is moderate with exception of the eastern section of the south claim boundary which traverses the northern limit of Stirrup Creek Canyon. Elevations range from 1372 meters, (4500') to 1890 meters, (6200'). The area is mostly wooded with the exception of an area of rangeland in the northeast portion of the claim and a section of outcrop bluffs along the western claim boundary. A number of secondary creeks drain into Stirrup Creek in a uniform pattern.

Estimated outcropping is twenty-five percent.

HISTORY

Placer gold was discovered on Stirrup Creek during World War I, leading to the mining of from 3-5000 oz. in the intervening 25 years.

A geochemical soil survey was initiated by Dr. H. Warren along the upper reaches of the creek in an attempt to find the source of the placer gold. The discovery of crystalline gold in the soils lead Dr. Warren to conclude a chemical rather than mechanical concentration of the placer deposits. Later biochemical studies by Warren and Hajek defined the plant, *Phacelia sericea*, common to the claim area, as being cyanogenic and highly anomalous in gold. This later study suggested that a biochemical origin might be responsible for some of the placer deposits.

The origin of the placer deposits is yet to be adequately explained along the relatively short, 6.4 Km. (4 mile) length of the creek.

Rio Tinto Exploration Ltd., discovered high grade float (0.6 ounces Au to the ton), near the source of Stirrup Creek in 1969. A subsequent drilling and sampling program was unsuccessful in locating an ore body.

A preliminary geological assessment report was submitted on the claims in 1984 by R. Dean. A 1985 Terracon Assessment Report on the claims included geological mapping, rock and stream geochemical sampling primarily along the Stirrup Creek drainage.

GEOLOGY

Regional

The stirrup Creek Mineral Claim lies a short distance west of the Frazer-Yalakom Fault system. The claim is located on the eastern margin of the Coast Crystalline Belt, one of the major tectonic belts of the Canadian Cordillera. The predominant rock types are described as "buff to green greywacke, grey shale, pebble conglomerate and massive boulder conglomerate". The main Frazer-Yalakom fault lies 10 km to the east, while a major splay fault from this system lies 4 km east of the claim. A normal faulting structural style across the Camelsfoot Range and upper Stirrup Creek basin has been interpreted.

Local (Map 3)

Rock outcrop observed along traverse routes include sandstone, siltstone, pebble conglomerate, rhyolite, diorite, and quartz porphyry. The sediments have been mapped as belonging to the Jackass Mountain Group of Lower Cretaceous Period. The age of the igneous rocks is unknown, but appear to be intercalated with the sediments.

GEOCHEMISTRY

Purpose

The object of the geochemical reconnaissance survey was to outline either an area, specific rock type, or its soil derivative, containing anomalous concentrations of gold, thereby narrowing the field of search within the claim area.

Procedure

A print of Map 2, compass and altimeter were used for survey control. All sample locations were marked and flagged. Four rock samples and 14 soil samples were submitted for assay and results obtained in parts per billion.

Loring lab. of Calgary completed the analytical work.

The soil horizons are poorly developed. Normally the B+C horizon, averaging 15-23 cm. (6-9") were sampled. In 3 In 3 samples, enough rock fragments existed to classify the sample as rock rather than soil. Sample descriptions are contained in Appendix II.

Discussion of Results

The limited amount of samples taken would preclude any statistical evaluation of the results. As a basis of comparison anomalous values of gold in soils in ppb assigned by Wright, based on approximately 1300 samples collected in the upper reaches of Stirrup Creek was 20 ppb and greater.

The normal range of gold commonly found in the A horizon, (Levinson p.121) is 10-1000 ppb. The average value of gold in lithified granites and shales is 4ppb. Bulletin 280 lists the average grade for shales and siltstones as 3.9 ppb, and acidic intrusive rocks as 2.8 ppb.

GEOCHEMISTRY (cont'd)

Using 20 ppb as an anomalous threshold, on the east side of Stirrup Creek, sample No. 4N-1W returned a value of 25 ppb. The sample site is located in a broad south sloping open meadow with no outcropping in the immediate area. Pebble conglomerate outcrops 120 meters (400') to the east. On the west side of Stirrup Creek, 3 rock samples were taken in and along a subordinate creek assayed 15-10-100 ppb. These results are interesting in that earlier work by Warren concluded that gold colors were conspicuous by their absence along the west side of Stirrup Creek and subsequent geochemical work was confined to the east side of the creek. The rock type hosting the 100 ppb was not observed in any outcropping and consisted of a very fine grained altered siliceous matrix with laths of resinous hornblende?, containing red-brown alteration halos. Pinhead size grains of pyrite were noted along with a bluish gun-metal grey coating surrounding the outside of the matrix. Outcropping observed along the subordinate creek included sandstone, siltstone and porphyry.

SUMMARY AND RECOMMENDATIONS

The source of place gold mined in the gravels of Stirrup Creek remain unknown.

A genetic model for the area would be an auriferous vein or sheeted zone structurally controlled similiar to the operating Black Dome Gold Mine 20 miles to the northwest. Results of the survy suggest two areas which warrent further geochemical work.

It is therefore recommended that a grid be set up in the area of 4N-1W and a systematic soil sampling program be undertaken.

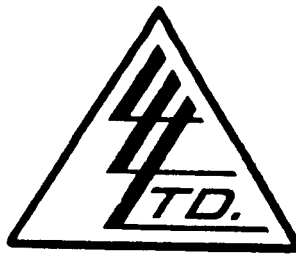
The surevy on the subordinate drainage hosting the anomalous rock samples be extended with soild and rock samples taken along the drainage at 150 meter omtervals and prospected in detail.

Respectfully submitted:



E. Meyers P. Geol.

To: EUGENE MEYERS
139 Colderidge Road N.W.,
Calgary, Alberta T2P 1X5



File No. 28813
Date August 5, 1986
Samples Rock

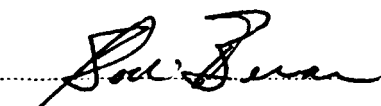
Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 1

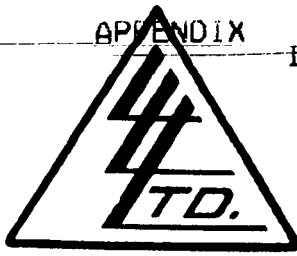
APPENDIX I

SAMPLE No.	PPB Au
<p><u>"Geochemical Analysis"</u></p> <p>10-3-0 C</p> <p>10-1-F</p> <p>10-5-F</p> <p>11-F</p>	<p>5</p> <p>15</p> <p>10</p> <p>100</p> <p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.


Assayer Page 9

To: EUGENE MEYERS
 139 Coleridge Road N.W.,
 Calgary, Alberta T2P 1X5



File No. 28813
 Date August 5, 1986
 Samples Soil

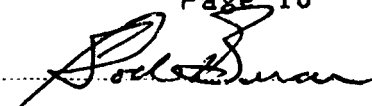
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Page # 2

APPENDIX I

SAMPLE No.	PPB Au
<u>"Geochemical Analysis"</u>	
4N-1W	25
10-1	5
10-2	Nil
10-4	Nil
10-7	5
10-8	Nil
10-10	Nil
10-11	Nil
10-12	5
10-13	10
10-14	Nil
10-15	Nil
10-16	Nil
<p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>	

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

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 Assayer

APPENDIX II

Sample No.	PPB Au	Description
4N-1W	25	23 cm - red brown sandy matrix
10-1	5	30 cm B horz. sandy mtx.
10-2	nil	23 cm. B horz.- Sandy brown loam.
10-3-0C	5	rock- Banded grey to red rhyolite
10-4	nil	21 cm. Brown gritty loam below Rhyolite
10-7	5	20 Cm B+C horz.-Gritty brn. loam w/ frag.
10-8	nil	20 cm. - same as 10-7
10-10	nil	25 cm B horz-brown sandy buff mtx.
10-11	nil	25 cm B horz.- Brown sandy mtx.
10-12	5	20 cm B horz-lite brown loam.
10-13	10	20cm B horz- brown sandy mtx.
10-14	nil	20 cm.-brn sandy mtx -frag of kspar.
10-15	nil	25 cm B horz Rusty micaceous rusty qtz
10-16	nil	20 cm B horz Red-brown sandy loam

ROCK

10-1-F	15	Porphyry
10-5-F	10	sandstone siltstone
11-F	100	V.F. grained altered siliceous matrix with laths of resinous hornblende? pinhead size disseminations of pyrite

STATEMENT OF EXPENDITURE

RE: Assessment Report on the Stirrup Mineral Claims
No. 1453- Clinton Mining Division, British Columbia

Professional Services

E. Meyers- Jul. 9 - 11 Jul - Travel and geochemical survey	3 days @ \$350. p/d	\$1050.00
Report Writing	1 day @ \$350 p/d	\$350.00
J. Kruszewski- prospector	4 days @ \$170 p/d	\$680.00
Art Johnson-prospector & driver-	4 days @ \$150 p/d	\$600.00
	TOTAL-	\$2680.00

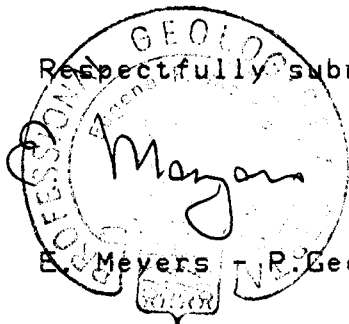
Motel and Meals \$86.00

Gas and Oil \$168.00

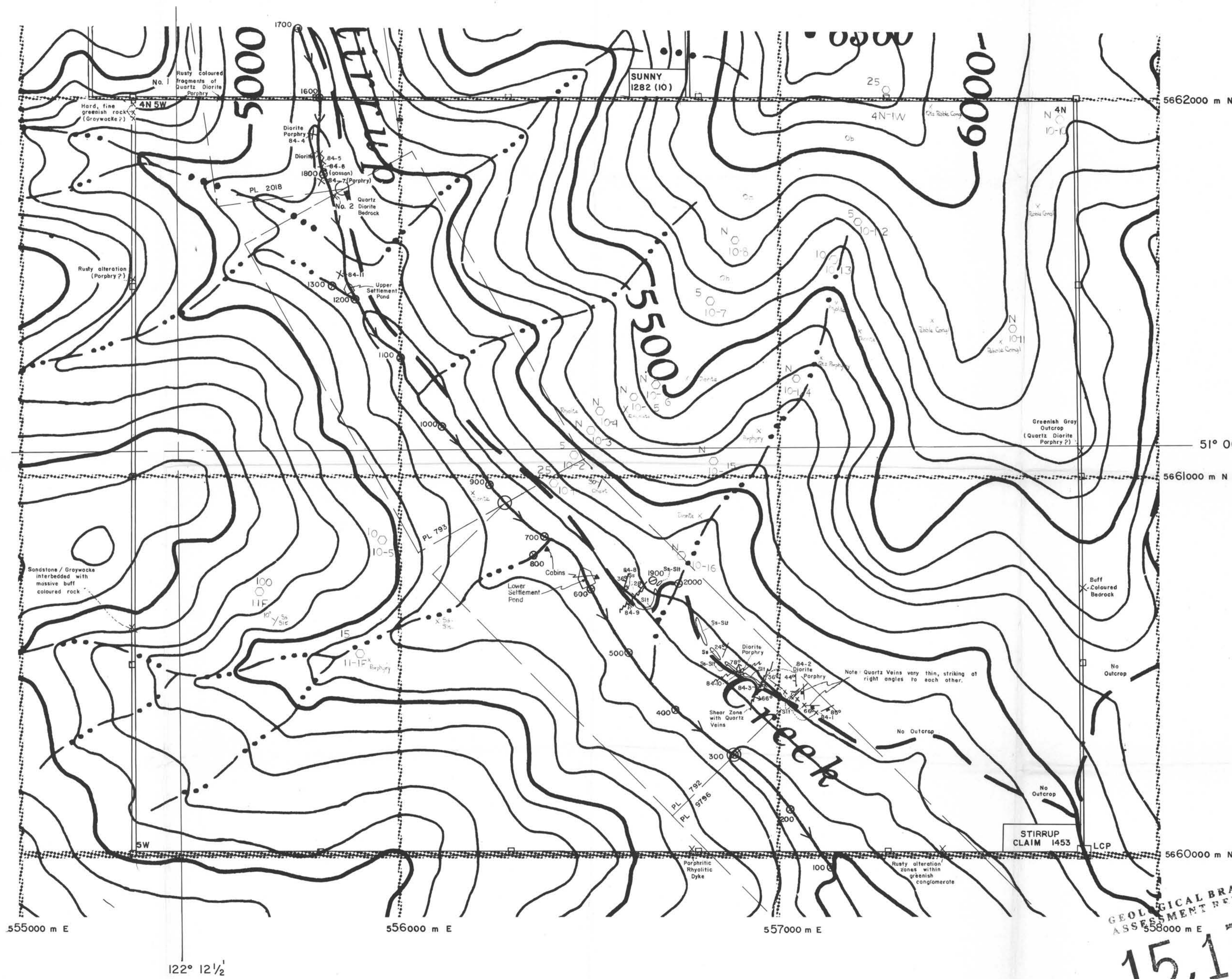
Assaying- Loring Lab. \$126.65

TOTAL AMOUNT_ \$3060.66

Respectfully submitted:



E. Meyers - P. Geol.



LEGEND

1. TOPOGRAPHIC FEATURES

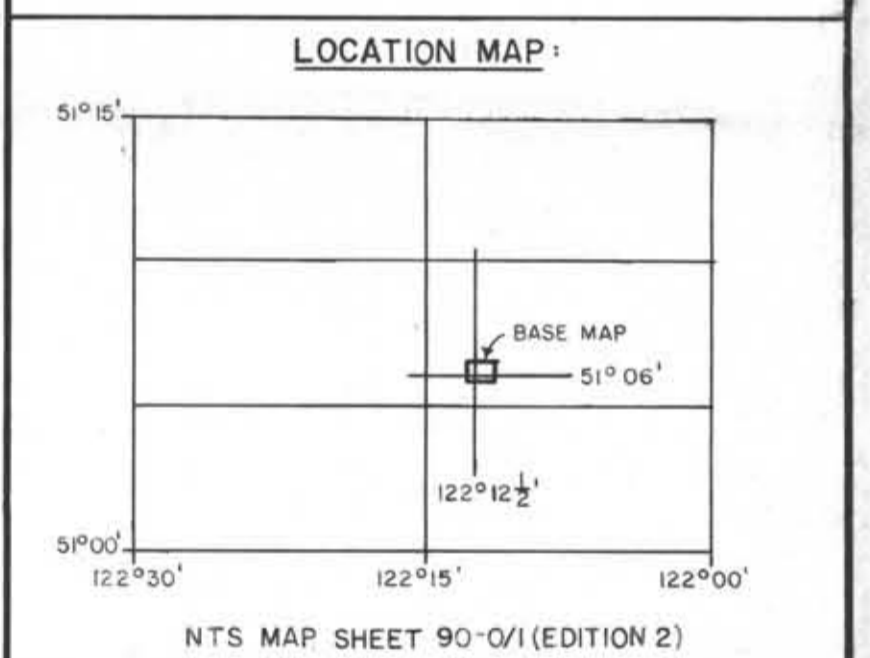
- Roadway
- Stirrup Creek
- 5500 Contour (ft)
- Contour Interval: 100 ft

2. CLAIM FEATURES

- LCP Lead corner post of Stirrup Claim
- 4N Corner post of Stirrup Claim
- Intermediate post of Stirrup Claim
- Mineral claim boundary
- Placer claim post
- Placer claim boundary

3. GEOLOGICAL / GEOCHEMICAL FEATURES

- 20° Strike and Dip
- Joint vertical
- Joint horizontal
- Joint with dip
- 700 Stream sediment sample and number
- 84-7 Small outcrop and sample number
- Extensive outcrop
- Shear zone with attitude
- Ss Sandstone
- Silt Siltstone
- 10-1 Sample No.

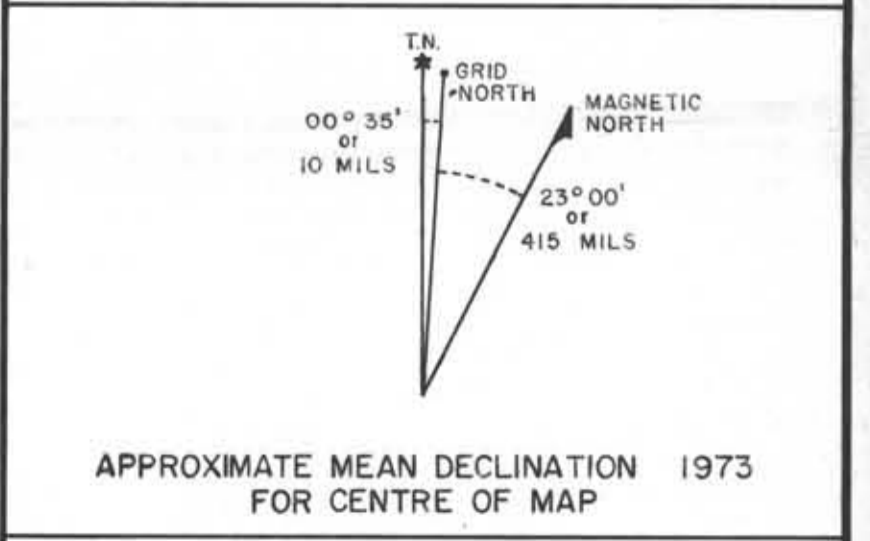


BASE MAP:

This map has been photographically enlarged from the NTS map sheet 92-O/1 (Edition 2) ten fold.

Co-ordinates shown are of Universal Transverse Mercator Grid.

SCALE 1:5 000 (of enlargement)



STIRRUP MINERAL CLAIM No. 1453
CLINTON MINING DIVISION

1984 GEOLOGICAL MAPPING and GEOCHEMICAL SAMPLING PROGRAM

Date: JULY/84 Project: 84-19 Figure No. 2

TERRACON GEOTECHNIQUE LTD.

15,176