

#14654  
12/86

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,654**

DIAMOND DRILLING REPORT

ON THE

HEFFLEY LAKE CLAIM

FILMED

Record No. 6034 (12)

Kamloops M. D.

N.T.S. 92I/16E

Long. 120° 04'W

Lat. 50° 50.5' N

for

Herb Allen (Owner)

by

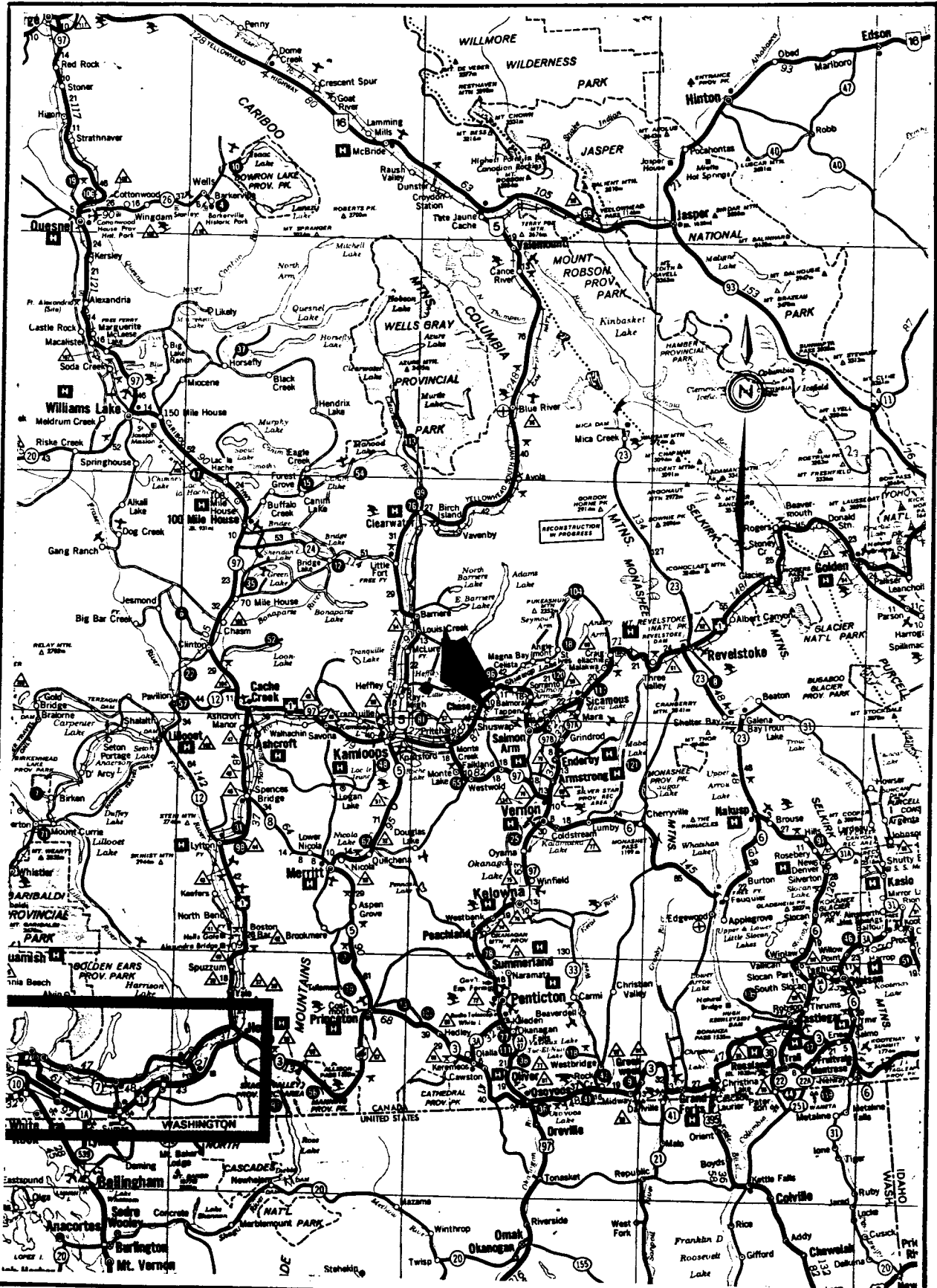
James F. Bristow, P. Eng.

Richmond, British Columbia

December 1985

TABLE OF CONTENTS

	Page No.
Index Map . . . . .	2
Introduction . . . . .	3
Property . . . . .	3
Location & Access . . . . .	3
Area Map . . . . .	4
Claim Map . . . . .	5
Topography & Climate . . . . .	3
History . . . . .	6
Discussion . . . . .	6
Cost Statement . . . . .	8
Author's Qualifications & Certifications . . . . .	9
Appendices	
I Invoices . . . . .	i
II Diamond Drill Log . . . . .	iv
III Assay Certificate . . . . .	vii
Diamond Drill Hole Plan (Figure 4) . . . . .	In Back Pocket



DRAWN BY J. F. B.  
 DATE DECEMBER 1985

**HEFFLEY LAKE CLAIM  
 INDEX MAP**

SCALE 1:2,600,000  
 FIGURE - 1

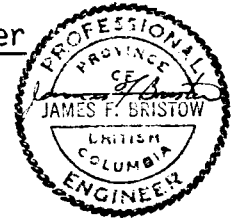
INTRODUCTION

This assessment report was prepared at the request of Mr. Herb Allen, owner of the Heffley Lake Mineral Claim. It contains the results obtained from 57.9 meters of BQ wire-line diamond drilling conducted by H. Allen Diamond Drilling Ltd. of Merritt, British Columbia, between the 7th and 15th of September, 1985.

PROPERTY

The current property consists of one 20-unit modified grid mineral claim owned by H. Allen, Box 1397, Merritt, B.C., V0K 2B0. The legal description as shown on the Ministry of Energy, Mines and Petroleum Resources 'G' Forms is as follows (see Figure 3):

<u>Claim Name</u>	<u>Units</u>	<u>Record Date</u>	<u>Record Number</u>
Heffley Lake	20	December 31, 1985	6034



LOCATION AND ACCESS

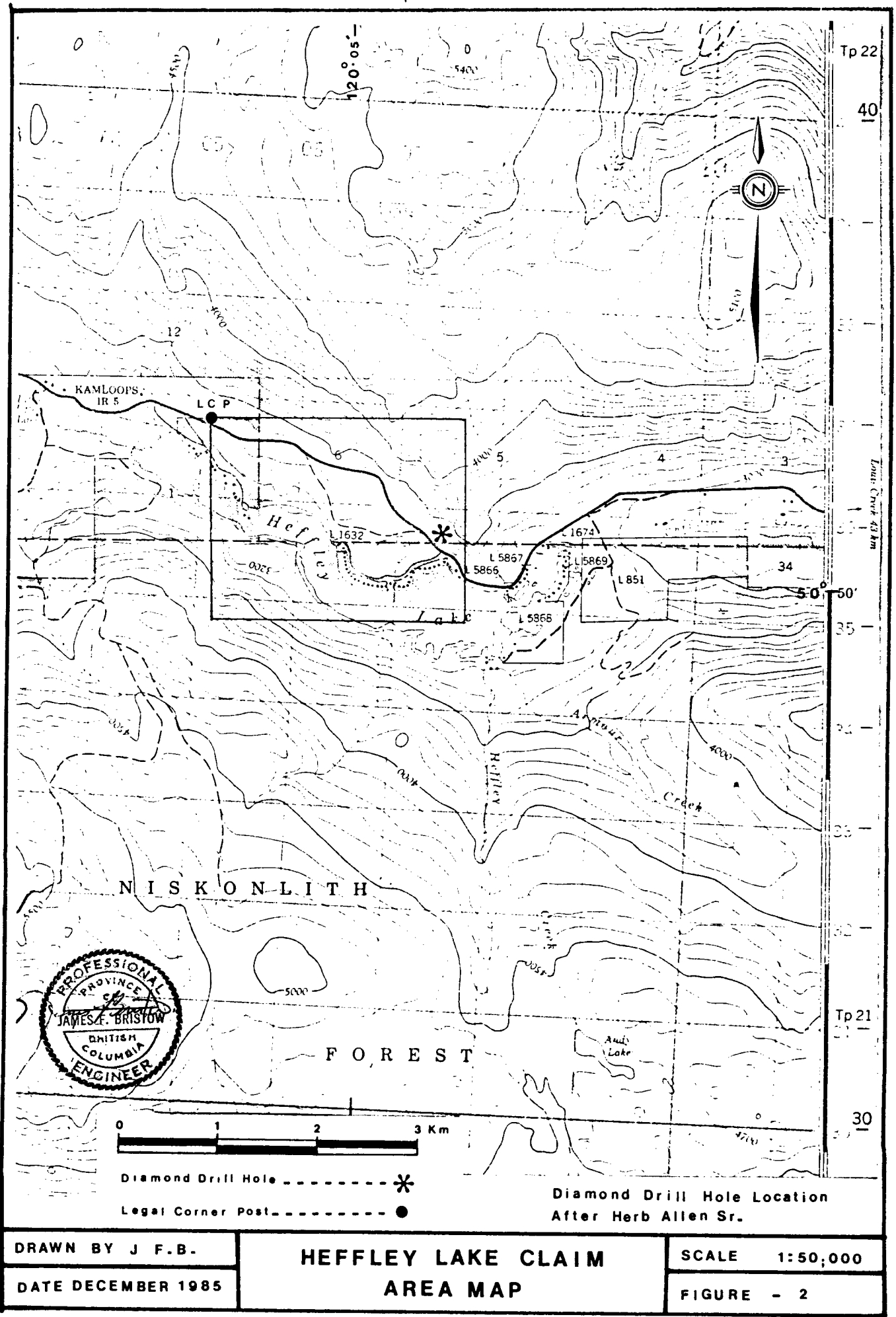
The center of the Heffley Lake Claim is located at approximately Longitude 120° 04' West, Latitude 50° 50.5' North and approximately 15 kilometers by road east of the Heffley Creek store located at Heffley Creek on the Yellowhead Highway.

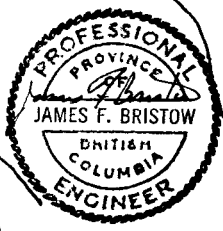
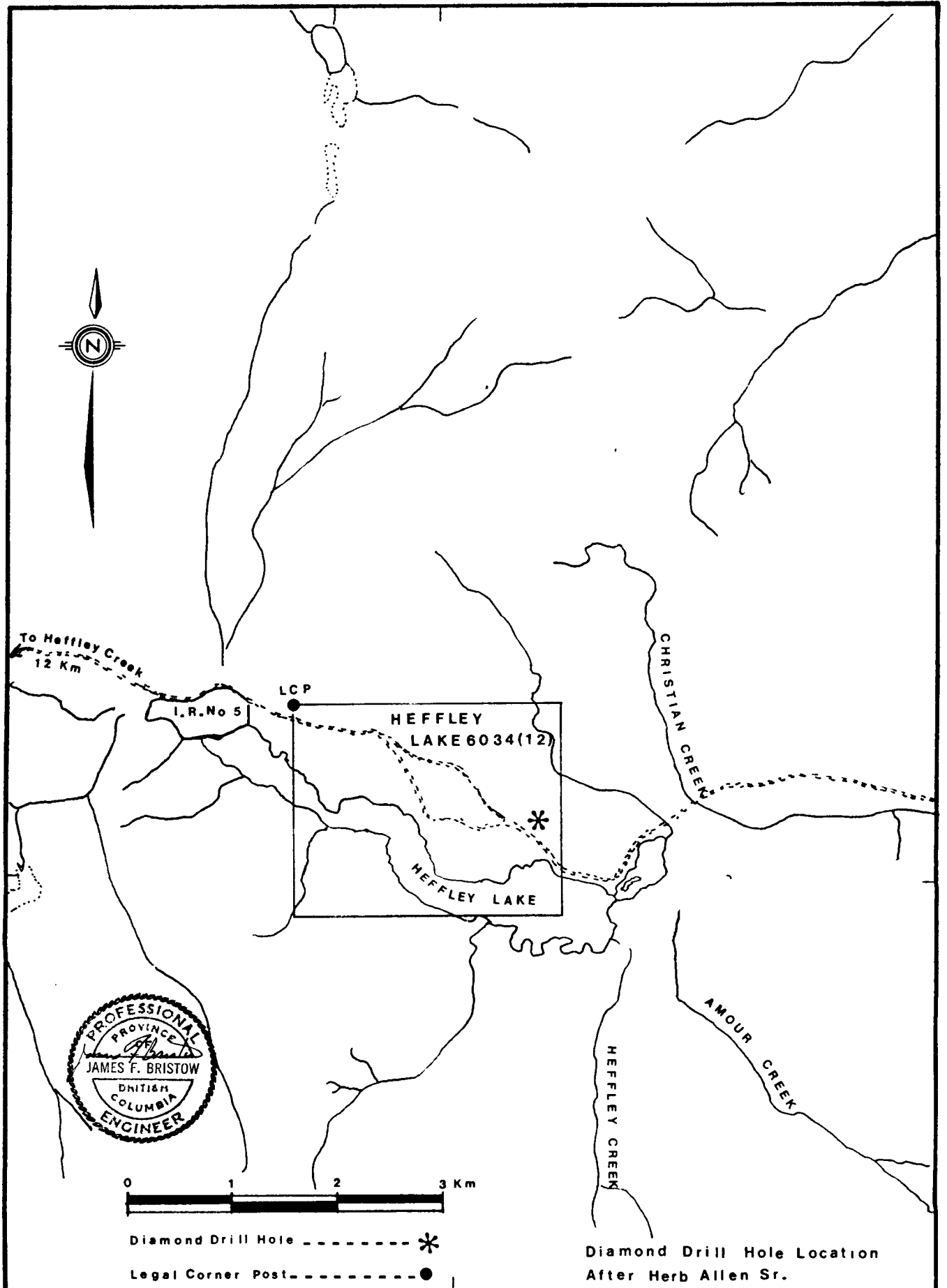
The Legal Corner Post of the Heffley Lake Claim is reportedly located 400 meters at 101° Azimuth from the North-east corner of Indian Reserve No. 5 and 300 meters north of the north side of "Big" Heffley Lake.

Access to the property is excellent as it is traversed by the paved road which services the Louis Creek Valley and the Tod Mountain Ski area (See Figures 2 and 3).

TOPOGRAPHY & CLIMATE

Topography on the property varies from gentle to steep with elevations ranging from 920 to 1370 meters above sea level. Approximately two-thirds of the property lies either under Heffley Lake or on the south facing mountain slope immediately north of the lake.





Diamond Drill Hole - - - - - \*

Legal Corner Post - - - - - ●

Diamond Drill Hole Location  
 After Herb Allen Sr.

DRAWN BY J. F. B.  
 DATE DECEMBER 1985

**HEFFLEY LAKE  
 CLAIM MAP**

SCALE 1:50,000  
 FIGURE - 3

Most of the area is forested with second growth pine and fir trees. Overall outcrop is reported to be approximately 5 percent.

Climate is typical upland interior plateau with dry hot summers' precipitation occurring mainly during the winter months as snow.

### HISTORY

Since 1915, the Heffley Lake area has been known to contain 'showings' of copper/iron mineralization. Exploration work has been sporadic and is believed to have been confined to the positive periods in the metal market cycle. Exploration work has been reported during the following periods of time: 1915, 1950's, 1960's, 1970's and 1980's. This work is in part documented in British Columbia Department of Mines Assessment Work Reports numbered 820, 821, 2597, 4418, 4624, and 8246.

### DISCUSSION

Regional Geological Mapping (G.S.C. Memoir 249) states that the property is underlain by Carboniferous and Permian Cache Creek Group rocks composed mainly of andesitic greenstones and sediments. Further work of Messers M.J. Casselman, F.L. Wynne and G. Haiden Assessment Report 8246 (1980) agree that the area is underlain by Paleozoic, Cache Creek Group Rocks. They reportedly occur as:

... a northwest striking, southwest dipping monoclinial sequence, and consist of intercalated metavolcanics and meta-sedimentary rocks. These units are cut by a mafic stock and by swarms of andesitic porphyry and diorite dykes, all of which are thought to be subvolcanic equivalents to andesitic volcanics. The Cache Creek Group metavolcanics include primarily andesitic pyroclastics and flows with minor intercalated andesite tuffite and rhyolite pyroclastic horizons. The Cache Creek Group metasediments consists of intercalated limestones, calcereous argillite and calc-silicate horizons.

The mineralization found to date has been hosted by the calcereous rocks. in associated with one or possibly two specific calc-silicate horizons found within the 'medasedimentary' rock assemblage.

These calc-silicate rocks have been locally altered to reddish-brown to greenish brown massive, medium to coarse ground, garnet, actinolite, epidote and diopside skarn. The metallic minerals present in decreasing order of concentration are magnetite, pyrite-pyrrhotite and chalcopyrite.

Past work has outlined a number of coincident magnetic and copper soil geochemical anomalies which have been only partly tested by diamond drilling. The property is believed to have potential for either a contact metamorphic or strataform cupiferous massive magnetite (pyrite-pyrrhotite) deposits.

Diamond Drill Hole HL 85-1 (See Figure 4) was drilled to further investigate the property's economic potential. The drill hole intersected only trace amounts of chalcopyrite. However, sufficient magnetite was intersected to adequately explain the reported magnetic anomaly.

The diamond drill core from drill hole HL 85-1 is currently stored on the premises of Mr. H. Allen, Allen Road, Merritt, B.C.



COST STATEMENT

Rooi Enterprises Ltd.

Invoice #158

James F. Bristow, P. Eng.

Professional Services - Core Logging and  
Report Preparation

\$ 300.00

H. Allen Driamond Drilling Ltd.

Invoice # 717

Surface Diamond Drilling including mobilization  
and demobilization

4,420.00

General Testing Laboratories

2 analyses - Gold, Silver, Iron @ \$22.50 each

45.00

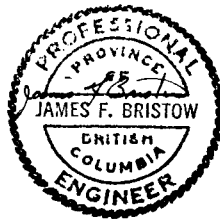
TOTAL

\$4,760.00

Detailed invoices are attached (See Appendix I)

Certified Correct

*James F. Bristow*  
James F. Bristow, P. Eng.



## QUALIFICATIONS & CERTIFICATIONS

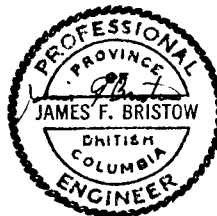
I, James F. Bristow, of 3431 Bowen Drive, in the Municipality of Richmond, Province of British Columbia, hereby certify as follows:

1. I am a graduate of the University of British Columbia with a B.A. Degree (Geology and Physics)
2. I am a Professional Engineer registered in the Province of British Columbia
3. I am a member of the Canadian Institute of Mining and Metallurgy, the Association of Exploration Geochemists and the Geological Society of South Africa.
4. I have actively practiced my profession in mineral exploration and mining geology since my graduation in 1957
5. This report is based on the inspection of diamond drill core stored at H. Allen's home, Allen Road, Merritt, B.C. and that the records pertain to the drilling of Drill Hole HL 85-1
6. I have no interest either direct or indirect in the Heffley Lake Claim nor do I expect to receive any

Dated at Richmond, British Columbia, this 30<sup>th</sup> day of December, 1985.

*James F. Bristow*

James F. Bristow, P. Eng.



APPENDIX I

INVOICES

# H. ALLEN DIAMOND DRILLING LTD.

TELEPHONE 378-4494

P.O. BOX 1397  
MERRITT, B.C.

INVOICE NO. 717

Dec. 7, 1985.

To: Herb. Allen,  
Box 1397,  
Merritt, B.C.  
VOK 2B0.

In Account With:

H. Allen Diamond Drilling Ltd.,  
Box 1397,  
Merritt, B.C.  
VOK 2B0.

This invoice is for diamond drilling on  
claims located at Heffley Lake, B.C.

190 ft. @ \$18.00 per ft.....	\$ 3,420.00
Mobe de mobe costs.....	\$ 1,000.00
	<u>\$ 4,420.00</u>



INVOICE



**General Testing Laboratories**  
**A Division of SGS Supervision Services Inc.**

1001 East Pender St.  
 Vancouver, B.C. V6A 1W2  
 Ph (604) 254-1647

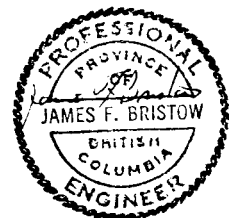
INVOICE <b>V</b> 20225
DATE November 29, 1985
JOB NO.
LAB NO. 8511-2255

TO: **NEW**  
**ROOI ENTERPRISES LTD.**  
 3431 Bowen Drive  
 Richmond, B.C.  
 V7V 4C8

JC	JOB	CM	GL	MS	RE

To: Assaying submitted ore samples (as per enclosed reports) for Au Ag Fe:

2 Au Ag Fe @ \$ 20.00	=	\$ 40.00	
sample prep.		\$ 5.00	\$45.00
		<u>          </u>	<u>          </u>



APPENDIX II

DIAMOND DRILL LOG

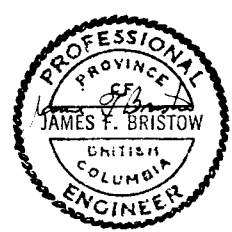
HEFFLEY LAKE CLAIM

DIAMOND DRILL LOG

Location: Heffley Lake Claim  
Azimuth: 245°  
Dip: -50° W  
Length: 57.9 meters  
Size: BQ

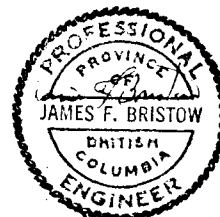
Hole No.: HL 85-1  
Page: 1 of 2  
Logged by: James F. Bristow  
Date: December 1985

<u>Metreage</u>	<u>Description</u>						
0 - 3.66	Overburden						
3.66 - 20.12	Calc-silicate horizon, mineralized, reddish brown to greenish brown - mottled garnet skarn 15 to 20% garnet, 10% actinolite overall Patchy to heavy pyrite-pyrrhotite over short sections - traces chalco and magnetite. All garnet skarn limy -6.4 to 7.62 m light green, fine grained, very hard metavolcanic -17.53 to 17.68m tuffaceous sediment (?) light green fine grained, vaguely banded at 80° to core axis (C.A.) Sample Interval 'A' 7.62 to 10.67m (3.05m)						
	<table border="1"> <thead> <tr> <th><u>oz Au/ton</u></th> <th><u>oz Ag/ton</u></th> <th><u>% Iron</u></th> </tr> </thead> <tbody> <tr> <td>0.008</td> <td>0.02</td> <td>6.36</td> </tr> </tbody> </table>	<u>oz Au/ton</u>	<u>oz Ag/ton</u>	<u>% Iron</u>	0.008	0.02	6.36
<u>oz Au/ton</u>	<u>oz Ag/ton</u>	<u>% Iron</u>					
0.008	0.02	6.36					
20.12 - 21.64	Metasediment - fine grained, light grey-green weakly limy over short sections No magnetite 20.73 - 20.88 Andesite dyke - lower contact cooled salvage						



<u>Metreage</u>	<u>Description</u>						
21.64 - 24.38	Medasediments - fine grained - patchy mottled garnet Massive over short sections up to 0.3 m Magnetite mineralization starts as discrete grains up to 2mm at 23.16m - 5 to 10% iron as magnetite						
24.38 - 37.8	Metavolcanic - limy - dark green magnetite same as 23.16 to 24.38m, also as bands and irregular patches with overall iron 10 to 15% pyrite-pyrrhotite bands and blebs common heavy banded sulphides (py po) 28.65 - 28.96m - 35.05 to 35.36m - thin banded limy rock white calcite stringers 34.75 to 35.36m						
37.80 - 42.67	Metasediment (tuffaceous ?) fine grained greysih-green weakly limy patchy mottled garnet 37.95 to 38.10m; 28.25 to 38.41m						
42.67 - 57.9	Interbanded metavolcanics and sediments calcareous - 20 to 25% magnetite by volume as bands associated with oolitic garnet irregular blebs of white calcite common in heavy magnetite areas minor pyrite-pyrrhotite trace chalco 42.67 Sample Interval 'B' 42.98 to 49.07m (6.10m)						
	<table border="1"> <thead> <tr> <th><u>oz Au/ton</u></th> <th><u>oz Ag/ton</u></th> <th><u>% Iron</u></th> </tr> </thead> <tbody> <tr> <td>0.016</td> <td>0.02</td> <td>25.21</td> </tr> </tbody> </table>	<u>oz Au/ton</u>	<u>oz Ag/ton</u>	<u>% Iron</u>	0.016	0.02	25.21
<u>oz Au/ton</u>	<u>oz Ag/ton</u>	<u>% Iron</u>					
0.016	0.02	25.21					

- Diamond Drill Hole Ends at 57.9 Meters





APPENDIX III

ASSAY CERTIFICATE

**CERTIFICATE OF ASSAY**

Date: December 4, 1985

File: 8511-2255



**SGS SUPERVISION SERVICES INC.**

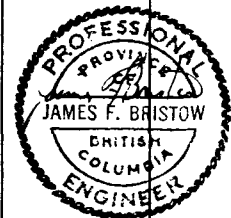
General Testing Laboratories Division

1001 East Pender Street,  
Vancouver, B.C., Canada. V6A 1W2  
Telephone: (604) 254-1647  
Telex: 04-507514

TO: ROOI ENTERPRISES LTD.  
3431 Bowen Drive  
Richmond, B.C.  
V7V 4C8

We hereby certify that the following are the results of assays on: Ore samples

MARKED	GOLD	SILVER	Iron	xxxxxxx	xxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxxx
	oz/st	oz/st	Fe (%)				
A	0.008	0.02	6.36				
B	0.016	0.02	25.21				



NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS ON REQUEST PULPS AND AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.

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*[Signature]*  
L. Wong

PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing association

DIAMOND DRILL HOLE  
HL 85 - 1  
(245°/-50°W)

D.L. 1632

HEFFLEY LAKE

SEC. 31 TP. 21 R. 15

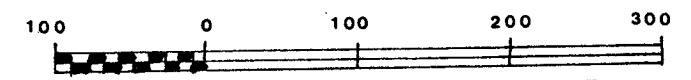
SEC. 32



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,654**

*James F. Bristow*  
JAMES F. BRISTOW  
GEOLOGICAL BRANCH  
MONTANA DEPARTMENT OF  
NATURAL RESOURCES



DIAMOND DRILL HOLE -----●

Diamond Drill Hole Location  
After Herb Allen Sr.

TRACED BY J.F.B.	<b>HEFFLEY LAKE DIAMOND DRILL HOLE PLAN</b>	SCALE 1:500
DATE DECEMBER 1985		FIGURE - 4