

LOG NO: OCT 30 1991 RD.
ACTION:
FILE NO:

BRIEF REPORT ON
STREAM SEDIMENT GOLD CONTENT
ALONG UPPER FARLEIGH CREEK
IN NORTHERN HAGGARD GROUP OF CLAIMS AREA
OSOY00S MINING DIVISION
Lat. 49° 28' 30" N Long. 119° 45' .5 Approx.
N.T.S. Map Sheet 82E/5W

by M. M. Suska, P. Geol.

for PETRO-CANADA RESOURCES
and
For LOSSAN EXPLORATION LTD.

Victoria, B.C., 1 September, 1991

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,764

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CERTIFICATION

I, M. M. Suska, do hereby certify that:

1. I am a practising Professional Geologist of Alberta with offices at 4009 Elbow Dr. S.W., Calgary, Alberta.
2. I am a graduate of the University of London, U.K., B.Sc., and of the University of Alberta, Edmonton, M.Sc. (Geology).
3. I have practiced geological field mapping since 1953 in more or less equal proportions in British Columbia and Alberta.
4. I am a member in good standing of the Association of Professional Engineers, Geologists & Geophysicists of the Province of Alberta.
5. I have personally visited the Haggard property and supervised exploration work carried out there.

Respectfully submitted

M. Suska

M. M. Suska, B.Sc., M.Sc., P. Geol.

Sept 1, 1991.

TECHNICAL PERSONNELField and Office:

M. M. Suska, B.Sc. (London, U.K.), M.Sc. (Alta.), P. Geol. (Alta).

B. J. Krusche, P. Eng. (Alta.), B.A. Eng. Sc. (Dartmouth College, NH, U.S.A.)

BREAKDOWN OF COSTSHAGGARD GROUP OF CLAIMSField Work:

Early summer, 1991

Fees:

1 long day - B. J. Krusche (incl SHARE of travel) \$ 400.00
 (M. M. Suska in the camp, no charge)
 Accommodation & Food 80.00

Truck access to Brent Lake & travel
 in B.C. - SHARE 70.00

Parcel express and telephone - SHARE 30.00

Use of equipment 30.00

Assays:

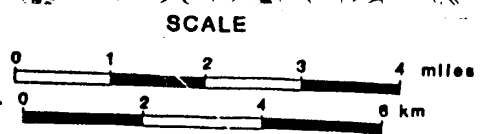
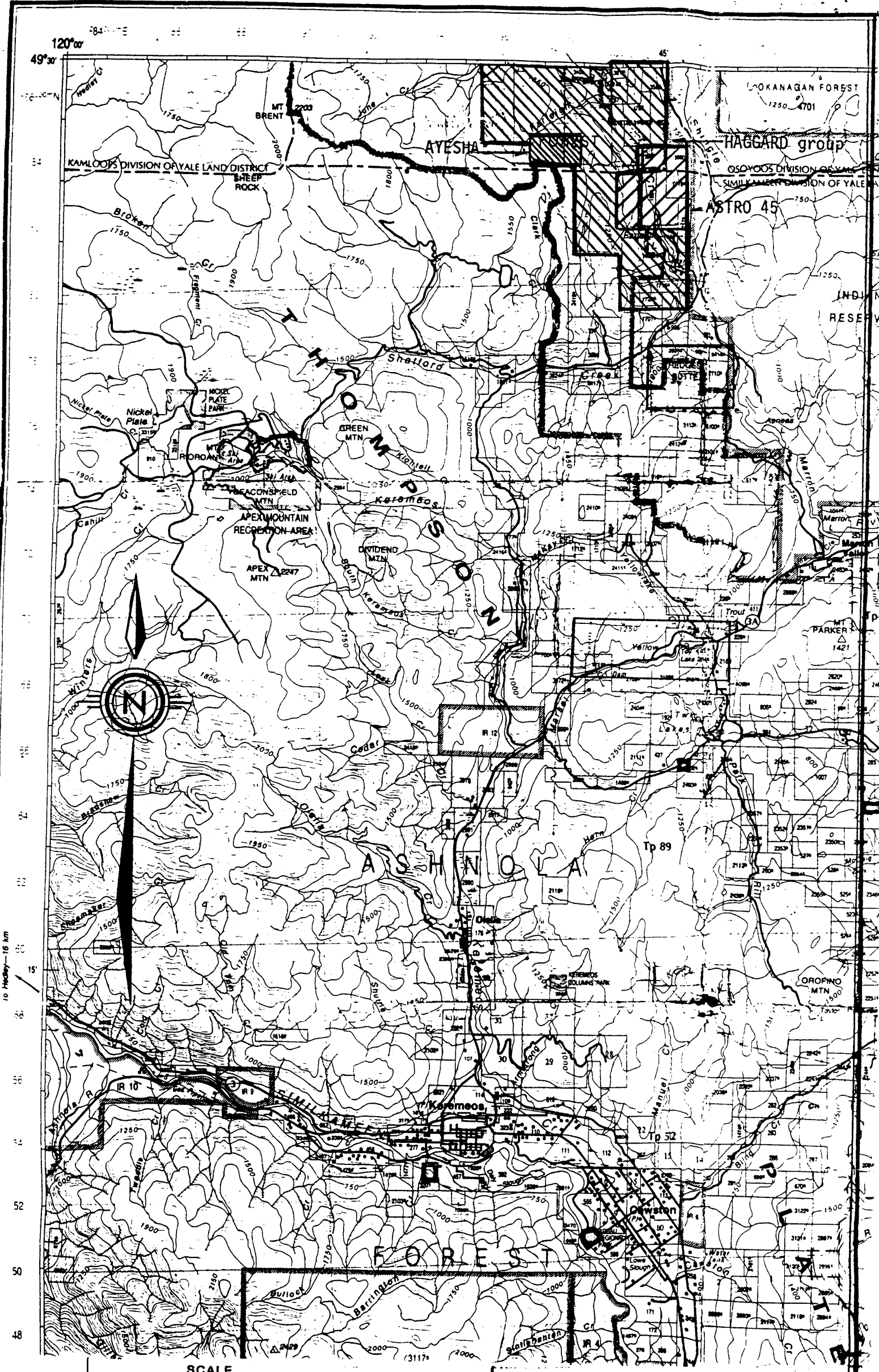
Loring Laboratories Ltd. 90.00

Report & Office Share:

200.00

\$ 900.00

=====



REFERENCE MAP
 OKANAGAN MINERAL CLAIMS

INTRODUCTION

LOCATION AND ACCESSIBILITY

The Haggard property is located in the Farleigh Lake - Brent Lake region of South Central British Columbia, about 11 kilometers west of Penticton. The claims area is accessible by a paved road to Farleigh Lake, and to Shingle Creek. Logging roads in the north and south of the area can be travelled by four-wheel drive vehicle and partially on foot. The central portion is quite rugged and at present exploration can be conducted on foot or on horseback only.

PHYSIOGRAPHY

The Farleigh Lake - Brent Lake area is characterized by low, mountainous terrain with topography ranging from 700 m to 1050 m above sea level.

Some south-facing slopes are open ranchlands covered by bunch-grass, sage brush, cactus and sparsely scattered pine trees. The summits and north-facing slopes and the Farleigh Creek valley are thickly wooded with pine and spruce trees, many of which are of loggable quality.

Climatic conditions are arid. The annual precipitation is about 28 cm, most of which occurs as snow in the winter months. Temperatures rise to 38°C for short periods in the summers.

Farleigh Creek flows all summer and there are large ponds along the valley caused by beaver dams. Wildlife includes bear, deer and grouse, which share the range with cattle and horses.

The Upper Farleigh Creek flows along a narrow rocky gully which is locally covered with large boulders and thick vegetation.

HISTORY

A portion of the Haggard Claims area consists of the area of old Clark No. 1, 2 and 3 claims.

British Newfoundland Exploration Ltd. staked these claims between February and April 1977. Geological mapping in that portion of the Haggard Claims Area was done by R. R. Culbert of D. G. Leighton & Associates in 1977, 1978 and 1980. The prospecting targets were Uranium and Thorium exclusively.

Subsequent to the 1979 field season, Clark Claims fell under the Uranium Moratorium imposed by the Government of British Columbia. Subsequently the Clark No. 1, 2 and 3 claims expired and the area was staked by Lossan Exploration Ltd.

Another portion of the Haggard group - Astro 45 Claim, is held by Lossan under option from PetroCanada of Calgary. Lossan Exploration Ltd. from Victoria, B.C. considers the Haggard Claims area and its vicinity to be the most prospective in the Okanagan volcanic region west of Penticton. Lossan is represented by Whiterabbit Resources of Calgary (4009 Elbow Drive S.W., Calgary, T2S 2K2, telephone 243-6816).

HAGGARD GROUP OF CLAIMS

The Haggard Group of Claims includes the following Claims in the Farleigh Lake - Brent Lake Area of British Columbia, Osoyoos Mining Division:

	<u>Record Date</u>	<u>Record No.</u>
Gagoola	21 June, 1988	2916
Unstopogaas	21 June, 1988	2917
Umbopa	21 June, 1988	2919
Sukasu	21 June, 1988	2918
Impi	6 July, 1988	2924
Zloto	6 July, 1988	2922
Tatry	6 July, 1988	2923
Ayesha*	21 July, 1989	3190
Astro 45*	9 March, 1977	257

*The Ayesha Claim was removed from the Group prior June 1990 and Astro 45 Claim was included into the Group at that time. The Ayesha Claim is on its own now.

STREAM SEDIMENT SAMPLING (present survey)

In total ten stream sediment samples were collected along Upper Farleigh Creek and small tributaries. Samples were coded: 91-17s to 91-26s. Sample locations are shown on Map II; (the figure 91 was omitted on Map II).

GENERAL GEOLOGY

RECENT WORK

A large part of the Haggard Claims area was not mapped. A portion of Haggard Claims area, covered by the old Clark Claims, was partially mapped by R. R. Culbert of D. G. Leighton & Associates (1977-79).

A comprehensive regional geological description of the area was given by B. N. Church (1973 & 1982). The last--1990 and 1991--Assessment Reports on Haggard and Ayesha Claims area were reconnaissance, geological and geochemical surveys by M. M. Suska and B. J. Krusche.

BRIEF GEOLOGY

The Farleigh Lake - Brent Lake Property lies in the northwest of the White Lake Basin of the Okanagan area of British Columbia. Regionally, the White Lake Basin contains a thickness of up to 12,000 feet of Eocene volcanics and sediments which overlie a Mesozoic basement with an unconformity.

In the Farleigh Lake - Brent Lake area the Eocene volcanics and clastics overlie unconformably the Mesozoic intrusive complex. The complex outcrops mainly in the northwestern corner of the Claims area. The remainder of the area consists of Eocene bedrock. Outcrops are generally abundant. Glacial till is rare in the area of the survey. The soil cover is usually thin.

The Upper Farleigh Creek appears to follow a major fault separating the pre-Tertiary basement rocks in the north from basement and volcanic rocks in the south. Dacite dykes traverse the area of this report, but the area has not yet been mapped in detail.

TENTATIVE LIST OF FORMATIONS PRESENT IN BRENT-FARLEIGH LAKES AREA (modified after Nordin, 1978 and Suska and Krusche, 199:)

TERTIARY

EOCENE

Marama Formation

Rhyolite & Rhyodacite, and Andesite
Dykes

MIDDLE EOCENE

Marron Formation

Park Rill member

Non-vesicular Andesite

Nimpit Lake member

Trachyte, trachyandesite

Kearns Creek member

Basaltic Andesite

Kitley Lake member

Trachyte, Trachyandesite

Yellow Lake member

Phonolite Porphyry and minor

Tuffaceous and arcose Sandstone Grit

Nepheline Basalt grading to Tephrite

-----Unconformity-----

MIDDLE EOCENE TO
PALEOCENE

Springbrook and/or Kettle River Formation

Rhyolite Complex

→ White Rhyolitic Tuff →

Conglomerate

→ Rhyolitic Lava Breccia

-----Unconformity-----

Quartzite (?) Breccia

PRE-TERTIARY

Igneous Basement

Granite

Granodiorite

? or

Hornfels

PURPOSE

The purpose of the 1990/91 field survey was to systematically sample stream sediments of a portion of Upper Farleigh Creek streambed, and to test these for gold content at trace levels.

METHOD

Fine stream sediments along Upper Farleigh Creek bed at locations shown on Map II were collected by B. Krusche, P. Eng. Distances between locations were 150 m on average. The sediments consisted of moist, fine silt, grading to sand.

The samples were prepared by Loring Laboratories Ltd.: The sediments were dried and sieved through an 80-mesh screen. The fines were assayed for gold by Loring Laboratories Ltd. of Calgary: Total gold in 30 g samples was estimated by the fire assay method.

Ten samples in total (Nos. 17s - 26s) were collected and assayed: Five samples from the Zloto Claim; five samples from the Impi Claim. Both claims are in the Haggard group.

RESULTS AND COMMENTS

The locations of sediment samples and the results of gold assays were plotted on Map II. Samples 18s and 23s showed anomalous results: 48 ppb and 20 ppb of gold. The remainder exhibited a background of <5 ppb to 7 ppb of gold.

The creek bed along which the samples were collected appears to follow a major fault. Andesite and/or dacite dykes were observed in the region of Map II, the vicinity of the current sampling survey. However, the area immediate to the survey was not mapped. Future mapping and sampling should follow the anomalous indications.

82 E 12 W

OSBOYDOS MINING DIVISION

82 E 5

119° 45'

49° 30'

June Cr.

ZLOTO
2922 (7)
4N X 3W

BRENT LAKE

123634
AYESHA
3190 (7)
25 X 3W

AREA OF
MAP II

UMBOFA
2919 (6)
4N X 3W

ASTRO 45
257 (3)
ASTRO 45
257 (3)

Farleigh Cr.

TATRY
2923 (7)
15 X 3W

SUKASU
2918 (6)
45 X 4E

SUKASU
2915 (6)
45 X 4E
(21763)



Clark Cr.

FUZZ
2207 (2)
2N X 5E

HOLD 3522
2N X 5E

Shatford Cr.

SHATFORD 1
2756 (II)
5N X 4W

SHATFORD 2

Allen Grove

2757 (II)

ASTRO 50
614 (I)

ASTRO 51
615 (II)

ASTRO 48
612 (I)

ASTRO 49
613 (II)

45256
(2N X 7W)

ASTRO 56

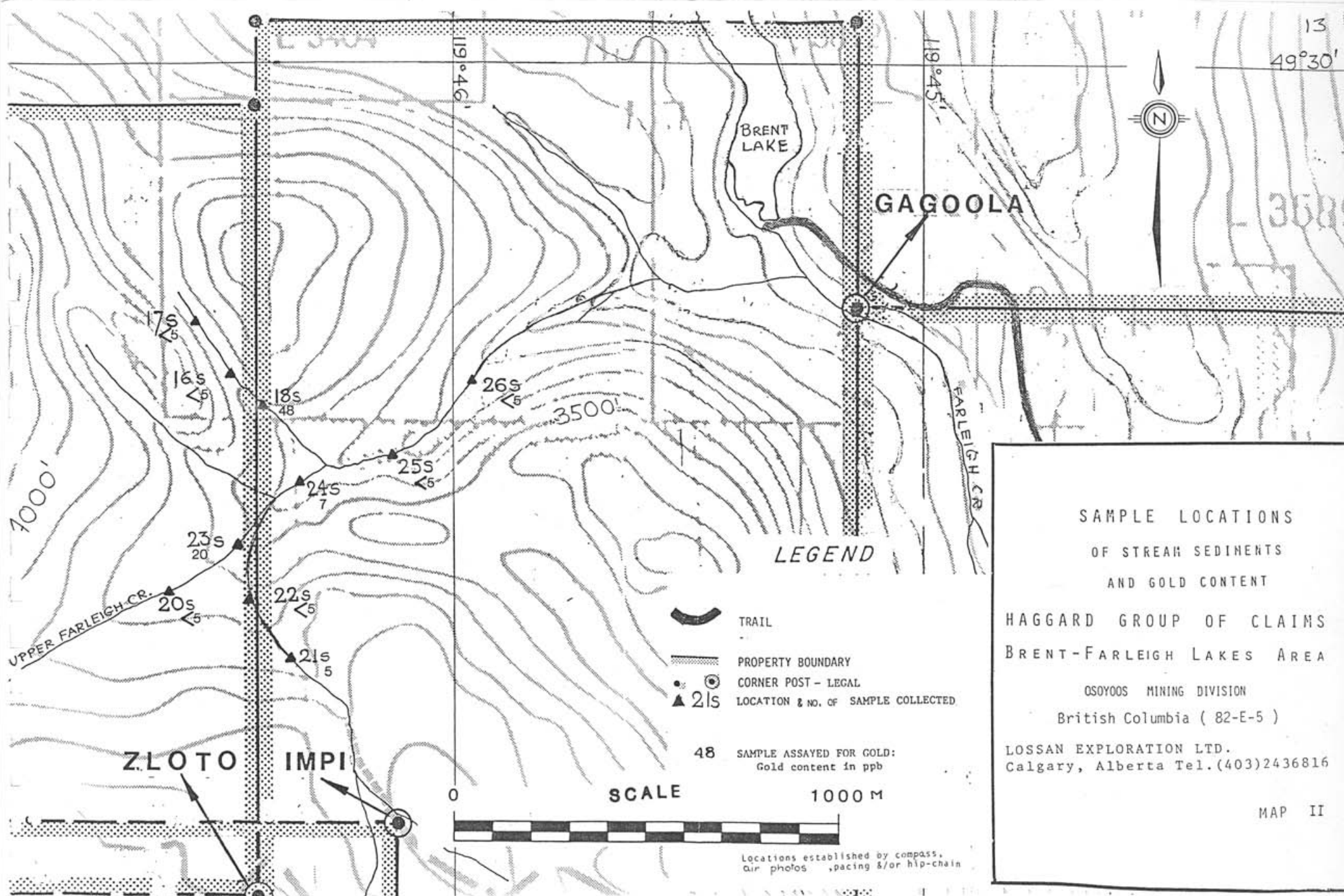
MACL
25
4

PUMA 5
2118 (10)
4N X 3W

PUMA 4
1975 (2)
4N X 3E

INDEX MAP I





13
49°30'

358

BRENT LAKE





GAGoola

FARLEIGH CR

1000'

3500'

LEGEND

-  TRAIL
-  PROPERTY BOUNDARY
-  CORNER POST - LEGAL
-  LOCATION & NO. OF SAMPLE COLLECTED

48 SAMPLE ASSAYED FOR GOLD:
Gold content in ppb

SCALE 1000 M



Locations established by compass,
air photos, pacing &/or hip-chain

SAMPLE LOCATIONS
OF STREAM SEDIMENTS
AND GOLD CONTENT
HAGGARD GROUP OF CLAIMS
BRENT-FARLEIGH LAKES AREA
OSOYOOS MINING DIVISION
British Columbia (82-E-5)
LOSSAN EXPLORATION LTD.
Calgary, Alberta Tel.(403)2436816

MAP II

ZLOTO IMPI

UPPER FARLEIGH CR.

17s
6

16s
5

18s
48

26s
5

25s
5

24s
7

23s
20

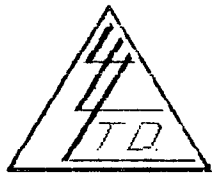
20s
5

22s
5

21s
5

To: MS. MADELINE SUSKA
~~4009~~ ELBOW DRIVE S.W.,
CALGARY, ALBERTA T2S 2K2

File No. 34573
Date AUGUST 21, 1991
Samples 19



Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

PPB
Au

I91-16S	<5
I91-17S	<5
I91-18S	48
I91-20S	<5
I91-21S	5
I91-22S	<5
I91-23S	20
I91-24S	7
I91-25S	<5
I91-26S	<5
I91-27S	8

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


Assayer