

823642

COPY

*Abe Abolins
Interior*

December 16, 1970.

82L-6^{SW}

*OPHIR PROPERTY
Co, Pb, Zn., Ag, Au.*

*File 82L-Misc. Prop.
CAB. 3
DR. B.*

Chief Murray Alexis,
R.R. #3,
West Side Road,
Vernon, B.C.

Dear Mr. Alexis:

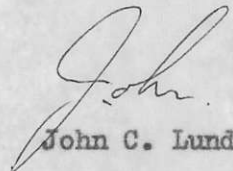
Thank you for giving us the opportunity to examine the Ophir prospect. Although the property has some possibilities and deserves more work, we do not feel it would be large enough to interest our company.

If you are considering any further work yourself, I would suggest you concentrate on testing its extension to the southeast. This could probably be done using geophysics. The easiest and likely the best instrument to use would be a Ronka EM 16. If this work showed that the zone continued for say 1,000 feet, then work in the form of diamond drilling would have to be considered.

As agreed, I have enclosed a sketch of the workings and a copy of my report. Thanks again.

Yours truly,

JCL/jm
Encl.


John C. Lund.

Report on the Ophir Property

M.I. # 29

Okanagan Indian Reserve, Vernon, B.C.

82L-6^{SW}, 50°16'N/LAT 119°22'16"W

Introduction:

The Ophir prospect is situated on the east side of Okanagan Lake 7 miles west of Vernon, B.C. It is on the Okanagan Indian Reserve. Access to the property is by gravel road that leaves the Kamloops-Vernon Highway about 12 miles north of Vernon and extends down the east side of the lake. The road passes within 300 yards of the adit.

This is farming area and the gently sloping lake shore land rises eastward to rounded grassy hills. The lower land is cultivated for hay; the higher slopes are used for grazing cattle. Outcrops are not plentiful - over 90% of the area is drift covered.

The Ophir is an old prospect on which a short adit and two trenches were dug between 1920 and 1930. This work exposed Cu-Pb-Zn mineralization over a strike length of about 350' and a width of 4'. Because of its location on the Indian Reserve and the reluctance on the part of the Indians to permit any exploration on the reservation, the property has remained dormant. In recent years the Indian council has apparently re-examined its position on mining and are permitting companies to examine mineral prospects on their land. The Ophir has been staked by the Indians to ensure that they have ownership on the property. This examination was made with the approval of Chief Murray Alexis and council members Walley Louis and Graden Alexis. Graden Alexis was present during the examination. It was agreed that results

of this examination would be made available to them. Any correspondence should be addressed to: Chief Murray Alexis,
R.R. #3,
West Side Road,
Vernon, B.C.

The examination was made November 20, 1970 by the writer accompanied by Ted LaRose and council member Graden Alexis. It had snowed about 2" the previous night, consequently work was hindered somewhat.

Geology:

A belt of Cache Creek rocks consisting of limestone, argillite and quartzites with minor intercalated volcanic units, extends west-north-westerly from Vernon a distance of about 15 miles. The belt is about 4 miles wide. Lying to the north and underlying the above rocks is a lower unit within the Cache Creek group consisting mainly of volcanic rocks. Near the Ophir showing these two units are in fault contact. (Jones: GSC Mem. 296). To the south the sedimentary unit is in contact with granitic rocks of the Okanagan batholith. Small apophysis of this batholith are known to intrude the Cache Creek rocks on the west side of Okanagan Lake. There are at least 10 known mineral occurrences in this belt of rocks.

Mineralization occurs as sphalerite, pyrite, chalcopyrite and galena within a northwesterly trending silicified shear zone. The zone is 15 feet to 20 feet wide with the mineralization occurring in the central four feet. Altitude of the shear is $140^{\circ}/45^{\circ}$ N.E. The mineralized shear has been traced by a short adit and two trenches for a distance of approximately 350 feet. The most southerly trench is

partly sloughed but where rock is exposed the shear appears to be narrower. Mineralization is confined to and therefore controlled by the width of the shear zone.

Samples were taken across the face of the tunnel and in the main trench across the mineral zone. Assays are as follows:

<u>Sample No.</u>	<u>Location</u>	<u>Width</u>	<u>Au oz.</u>	<u>Ag oz.</u>	<u>Cu%</u>	<u>Pb%</u>	<u>Zn%</u>
634	Tunnel Face	4'	0.04	1.1	0.2	0.09	3.42
635	Main Trench (F.W.)	14"	0.07	1.7	1.12	0.44	1.94
636	Main Trench (central area)	18"	0.1	1.8	0.61	1.68	9.13
637	Main Trench (H.W.)	16"	0.04	0.3	0.01	Tr.	0.10
Average - Main Trench Across 4'			0.07	1.27	0.56	0.76	4.0

The estimated dollar value using 48¢ copper, \$35.00 gold, \$1.70 silver and 14¢ for lead and zinc, and assuming a 90% recovery, would be about \$20.00/ton from the trench assays and \$12.50/ton for the adit assays. Using a minimum mining width of 5 ft. this value would be decreased considerably by dilution. A further factor that would add to the dilution is the sheared hanging wall of the zone. It would appear that from the sampling done an average of \$12.00 to \$14.00 for the mineralized rock might be realized.

The values appear to be fairly consistent over the two areas sampled. Any further work contemplated should be designed to test the lateral continuity to the shear and its vertical extent. The southeasterly

(lateral) extension could likely be traced with an EM 16 unit. If this work proved rewarding, the zone should then be tested for vertical continuity, width and grade.

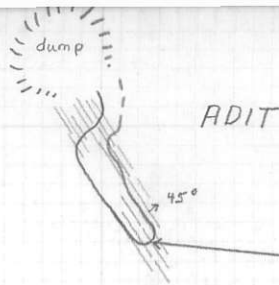
Summary and Conclusions:

Mineralization occurs across 4 ft. within the central part of a 15 to 20 ft. wide silicified shear zone. The shear strikes southeasterly and dips northeasterly at about 45°. Minerals present are sphalerite, pyrite, chalcopyrite and galena with values in silver and gold. The assays are not high enough at present prices and underground mining costs to justify further work.

John C. Lund
John C. Lund.
Dec. 15, 1970

Bibliography:

*GSC Mem #296-p148
GSC Map 1059A 748-40
BCDM 1928-p220.*

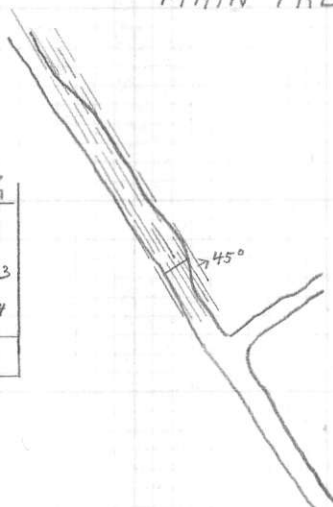


Sample	Au	Ag	Cu	Pb	Zn
Face 4'	.04	1.1	.20	.09	3.42



Topog. rises
To
South

MAIN TRENCH



Topog.
decrease
To
East

Sampling	oz Au	oz Ag	% Cu	% Pb	% Zn
H.W. 16"	.04	.30	.01	Tr	.10
Centre 18"	.10	1.8	.61	1.68	9.13
F.W. 14"	.07	1.7	1.12	.44	1.74
Ave. 4'	.07	1.27	.56	.76	4

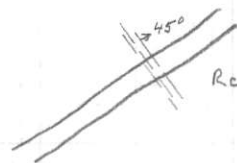
Notes

Re is meta arg. and qtzite of the Cache Cr group. Mineralization occurs in a south easterly qtz-filled shear zone 15' to 20' wide. The shear narrows to the south east. Att. $140^{\circ}/45^{\circ} \pm$
Minerals: chpy, gal., sphal., and py.

Relatively
Flat

Topog.

EAST TRENCH

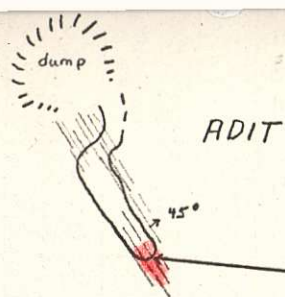


Re sheared
Argillite.

OPHIR PROPERTY

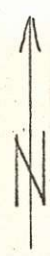
Okanagan Indian Reserve
Vernon, B.C.

Scale 1" = 40' J.C.L.



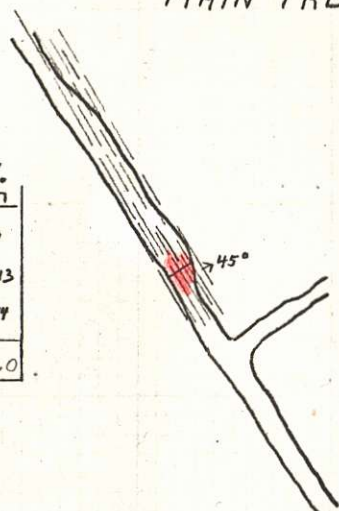
Sample Face 4'

Au	Ag	Cu	Pb	Zn
.04	1.1	.20	.09	3.42



Topog. rises
To
South

MAIN TRENCH



Topog
decrease
To
East

Sampling
H.W. 16"
Centre 18"
F.W. 14"
Ave. 4'

	oz Au	oz Ag	% Cu	% Pb	% Zn
H.W. 16"	.04	.30	.01	Tr	.10
Centre 18"	.10	1.8	.61	1.68	9.13
F.W. 14"	.07	1.7	1.12	.44	1.99
Ave. 4'	.07	1.27	.56	.76	4.0

Notes

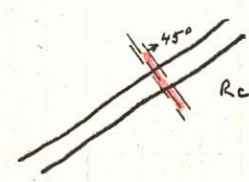
Rcis meta arg. and qtzite of the Cache Cr group. Mineralization occurs in a south easterly qtz-filled shear zone 15' to 20' wide. The shear narrows to the south east. Att. 140°/45°±. Minerals: chpy, gal., sphal., and py.

Relatively

Flat

Topog.

EAST TRENCH



Re sheared Argillite.

OPHIR PROPERTY

Okanagan Indian Reserve
Vernon, B.C.

Scale 1" = 40'

J.C.L.

Mine Ophir
Vernon B.C.
Date Nov. 20/70
Hole No. _____

Sample N^o 634

Tunnel

From FT wall To H.W.

Sample Length 4 ft.

Remarks chip sample
Pc is sheared & silicified
Cache Cr. res. - ~~long~~

Assay For Au Ag Cu Pb Zn

NORTHERN MINER PRESS
Signed J.C. Lund

Mine Ophir
Vernon B.C.
Date Nov. 20/70
Hole No. _____

Sample N^o 634

Tunnel

From H. Wall To H.W.

Sample Length 4 ft.

Remarks chip sample
Pc is sheared & silicified
Cache Cr. res. - ~~long~~

Assay For Au Ag Cu Pb Zn

NORTHERN MINER PRESS
Signed J.C. Lund

Mine Ophir
Vernon B.C.
Date Nov. 20/70
Hole No. _____

Sample N^o 635

Main trench

From H.W. To Central zone

Sample Length 16"

Remarks Chip Sample
qtz in sheared Cache
Cr. res.

Assay For Cu Ag Au Pb Zn

NORTHERN MINER PRESS
Signed J.C. Lund

Mine Ophir
Vernon B.C.
Date Nov. 20/70
Hole No. _____

Sample N^o 635

Main trench

From H.W. To Central zone

Sample Length 16"

Remarks Chip Sample
Qtz in sheared
Cache Cr. res.

Assay For Cu Ag Au Pb Zn

NORTHERN MINER PRESS
Signed John C. Lund

Mine Ophir
Vernon B.C.
Date Nov. 20/70
Hole No. _____

Sample N^o 636

Main Trench

From Central To zone

Sample Length 18"

Remarks Chip Sample
Qtz in sheared
Cache Cr. res.

Assay For Ag Au Cu Pb Zn

NORTHERN MINER PRESS
Signed J.C. Lund

Mine Ophir
Vernon B.C.
Date Nov. 20/70
Hole No. _____

Sample N^o 636

Main Trench

From Central To zone

Sample Length 18"

Remarks Chip Sample
Qtz in sheared
Cache Cr. res.

Assay For Ag Au Cu Pb Zn

NORTHERN MINER PRESS
Signed J.C. Lund

Mine Ophir
Vernon B.C.
Date Nov. 20/70
Hole No. _____

Sample N^o 637

Main Trench

From Central To FW

Sample Length 14"

Remarks Chip Sample
Rusty sheared &
banded Cache Cr. res.
sils.

Assay For Ag Au Cu Pb Zn

NORTHERN MINER PRESS
Signed J.C. Lund

Mine Ophir
Vernon B.C.
Date Nov. 20/70
Hole No. _____

Sample N^o 637

From Central To F.W.

Sample Length 14"

Remarks Chip Sample
Rusty sheared &
banded Cache Cr.
res - sils.

Assay For Ag Au Cu Pb Zn

NORTHERN MINER PRESS
Signed J.C. Lund

Mine _____
Date _____
Hole No. _____

Sample N^o 638

From _____ To _____

Sample Length _____

Remarks Sample of pyritized
res from roadside
South of Spences Bridge

Assay For Cu Au

NORTHERN MINER PRESS
Signed J.C. Lund

Mine _____
Date Nov 18/70
Hole No. _____

Sample N^o 638

From _____ To _____

Sample Length _____

Remarks Sample of
pyritized res from
roadside South of
Spences Bridge

Assay For Cu Au

NORTHERN MINER PRESS
Signed J.C. Lund

TO:



PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS:
ELDRICO

Kerr Addison Mines Ltd.,
405 - 1112 West Pender Street
Vancouver, B.C.

Certificate of Assay

KERR ADDISON

MINES LTD.

WARNOCK HERSEY INTERNATIONAL LIMITED Per _____ FILE NO. 461 - 13274

COAST ELDRIDGE PROFESSIONAL SERVICES DIVISION

DATE December 2, 1970

125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

Ophir Property (B.C. Mine)

We Hereby Certify that the following are the results of assays made by us upon submitted _____ ORE _____ samples

MARKED	GOLD		SILVER	Copper (Cu)	Lead (Pb)	Zinc (Zn)			
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.
634 Ophir Tunnel	0.04	\$ 1.40	1.1	0.20	0.09	3.42			
635 " 16" H.W. main cut	0.07	2.45	1.7	1.12	0.44	1.94			
636 " 18" centre "	0.10	3.50	1.8	0.61	1.68	9.13			
637 " 14" F.W. "	0.04	1.40	0.3	0.01	Trace	0.10			
638 Reside cut S. of Sp. Bridge	0.01	0.35	-	Trace	-	-			

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

Gold calculated at \$ _____ per ounce

[Signature]

Provincial Assayer

TO:

Kerr Addison Mines Ltd.,

405 - 1112 West Pender Street

Vancouver, B.C.



Certificate of Assay

WARNOCK HERSEY INTERNATIONAL LIMITED

COAST ELDRIDGE PROFESSIONAL SERVICES DIVISION

125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA


 PHONE: (604) 876-4111
 TELEX: 04-50353
 CABLE ADDRESS:
 ELDRICO

FILE NO. 461 - 13274

DATE December 2, 1970

We Hereby Certify that the following are the results of assays made by us upon submitted ORE samples

MARKED	GOLD		SILVER	Copper (Cu)	Lead (Pb)	Zinc (Zn)			
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.
		\$							
634	0.04	1.40	1.1	0.20	0.09	3.42			
635	0.07	2.45	1.7	1.12	0.44	1.94			
636	0.10	3.50	1.8	0.61	1.68	9.13			
637	0.04	1.40	0.3	0.01	Trace	0.10			
638	0.01	0.35	-	Trace	-	-			

Note. Rejects retained one week.
 Pulps retained one month.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

Gold calculated at \$ _____ per ounce

Provincial Assayer

TO:

Kerr Addison Mines Ltd.,

405 - 1112 West Pender Street

Vancouver, B.C.



Certificate of Assay

WARNOCK HERSEY INTERNATIONAL LIMITED

COAST ELDRIDGE PROFESSIONAL SERVICES DIVISION

125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA


 PHONE: (604) 876-4111
 TELEX: 04-50353
 CABLE ADDRESS:
 ELDRICO

FILE NO. 461 - 13274

DATE December 2, 1970

anhr
 We Hereby Certify that the following are the results of assays made by us upon submitted ORE samples

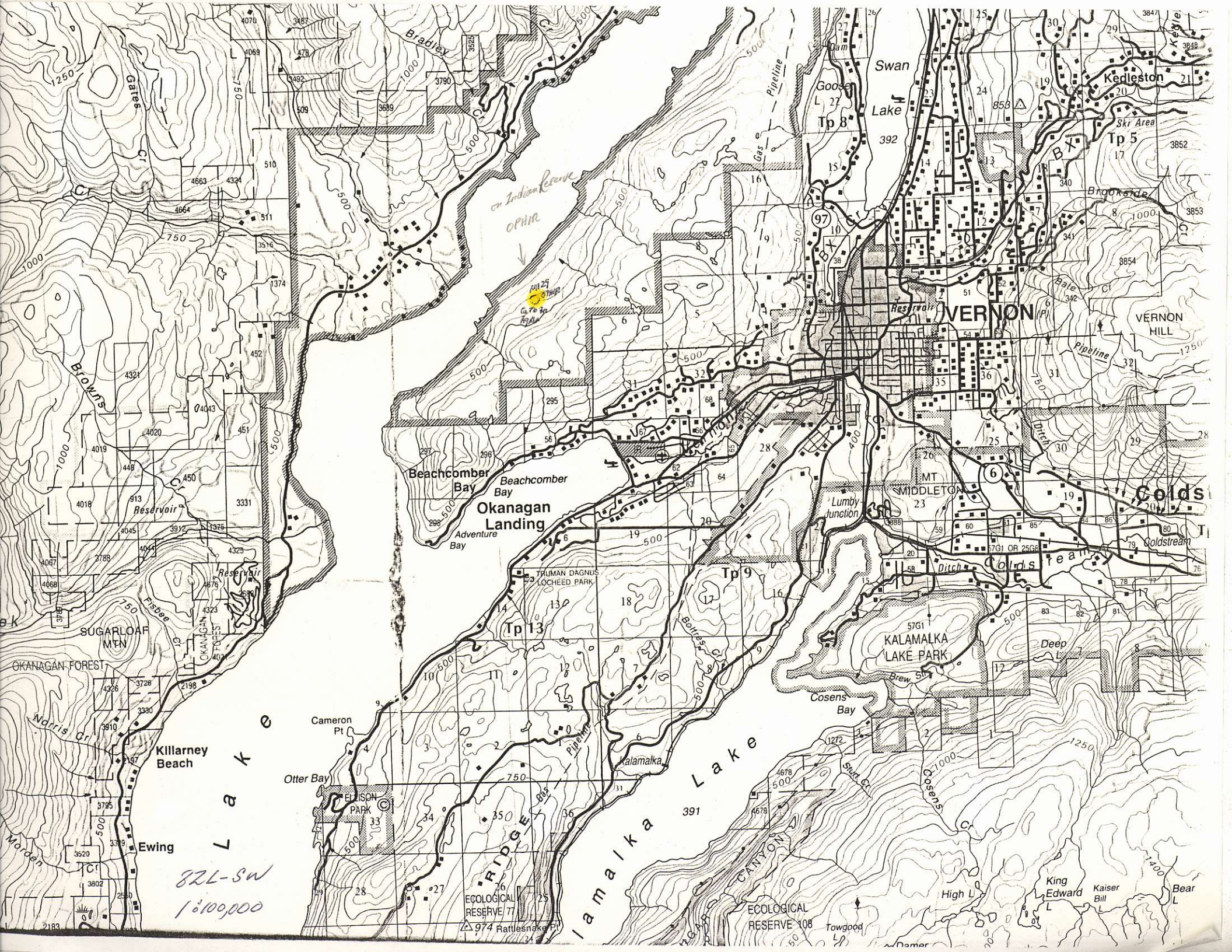
MARKED	GOLD		SILVER	Copper (Cu)	Lead (Pb)	Zinc (Zn)	PER CENT.	PER CENT.	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.	PER CENT.	PER CENT.			
		\$							
634	0.04	1.40	1.1	0.20	0.09	3.42			
635	0.07	2.45	1.7	1.12	0.44	1.94			
636	0.10	3.50	1.8	0.61	1.68	9.13			
637	0.04	1.40	0.3	0.01	Trace	0.10			
638 <i>Rod side Spences Bridge</i>	0.01	0.35	-	Trace	-	-			

Note. Rejects retained one week.
 Pulps retained one month.
 Pulps and rejects may be stored for a maximum
 of one year by special arrangement.

Unless it is specifically stated otherwise, gold
 and silver values reported on these sheets have
 not been adjusted to compensate for losses and
 gain inherent in the fire assay process.

Gold calculated at \$ _____ per ounce

Provincial Assayer



82L-SW
1:100,000

ECOLOGICAL RESERVE 77
974 Rattlesnake Pt

ECOLOGICAL RESERVE 108
Towgood L.