



GEOLOGICAL REPORT

on the BOB claims,
located about 1½ miles east of the south end of Fortin Lake.
Claim sheet 105G-15, 61°56'N 130°32'W.

by
Clyde L. Smith, Ph.D., P.Eng.
June 3, 4 & 6, 1975



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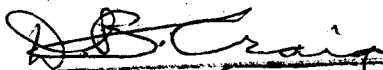
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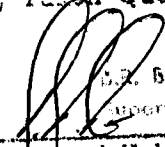
This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representing work in the amount of

\$3630.00



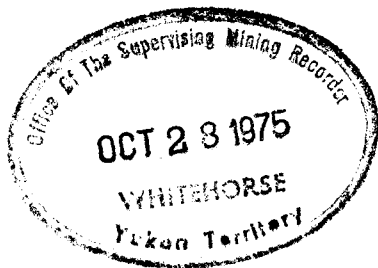
~~Resident Geologist or
Resident Mining Engineer~~

Considered as representation work under
Section 53 (4) Yukon Quartz Mining Act



D.R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory



I. INTRODUCTION

During the period of June 3, 4 and 6, 1975, Ogilvie Joint Venture made a geological examination of the BOB claims, near Fortin Lake (see Fig 1). Chip samples were collected from the two known showings for Cu, Pb and Zn assay. The results reported here include these assays and descriptions of the showings.

Other work done in the area included collection of soil samples from a grid (see separate geochemical assessment report.)

II. LIST OF CLAIMS

<u>Claim Name</u>	<u>Holder</u>	<u>Number</u>	<u>Recording Date</u>
BOB 1-8	S. Macleod	Y83258-Y83265	Aug. 21-23, 1974
" 9-16	E. Ladue	Y83266-Y83273	"

III. GENERAL GEOLOGY

Rocks in the vicinity of the BOB claims are grey phyllites of Mississippian or earlier (?) age (see GSC Map 8-1960; Finlayson Lake sheet). However, because the area is blanketed by Quaternary overburden outcrops of these underlying rocks are few, generally being restricted to creek beds.

Where exposed the phyllite is a dark grey quartz-rich phyllite with a foliation that has approximately east-west strikes and moderate to steep southerly dips. Quartz veins are present in places and in the area of the two main showings the phyllite seems unusually quartzose (about 60-70% qtz).

IV. MINERAL SHOWINGS AND ASSAYS

A geological sketch of the area of the two main showings is shown as Fig 2. The location of the continuous chip samples collected for Cu, Pb and Zn assay is also shown in Fig 2 and the results of these assays are reported in Table 1.

Showing A is exposed by old trenching and consists of quartzose ^{se} phyllite with quartz veins every foot or so (1" to $\frac{1}{4}$ " wide) that contain small amounts of chalcopyrite, galena and sphalerite. Malachite and azurite stain the surfaces of some rocks and many parts of the outcrop give strong positive reactions to zinc-test reagent. Assays from this showing are listed as T 0'-32' and generally represent 5' sections of in-place material. Two specimens of the host phyllite were examined in thin section by J. A. McLeod (graduate student at UBC) and were found to consist of 60-70% quartz, 20-25% sericite, 2-5% epidote, 1-3% chlorite, minor carbonate and about 5% opaques.

Showing B is a natural exposure in the creek bank. Here a vein, to 1'6" wide and approximately 20' long, contains 30-40% dark brown sphalerite with quartz and minor galena and chalcopyrite. Assays of this vein material and of a 2' section of the adjoining phyllite (on the south side of the vein) are listed in Table 1.

V. CONCLUSIONS AND RECOMMENDATIONS

To establish the extent of the zinc-bearing zone exploratory drilling in the area of the showings is required. A gravity survey should be carried out on the same grid that the soil samples were collected on.



TABLE 1. ASSAY RESULTS
FROM PRINCIPAL SHOWINGS
OF ROB CLAIMS.

Certificate of Analysis

TO Ogilvie Joint Venture
c/o Sterling Expediting
Ross River, Y.T.

REPORT NO. ... **A-45-6**

DATE ... **June 13, 1975**

I hereby certify that the following are the results of analyses made by us upon the herein described **rock** samples

MARKED	%	%	%						
	Cu	Pb	Zn						
SHOWING A { T-0'-5' T-5'-10' T-10'-15' T-15'-20' T-20'-25' T-25'-32'	0.01	0.17	0.03						
	0.02	0.05	0.01						
	0.02	0.01	0.02						
	0.06	0.17	L0.01	L denotes less than					
	0.24	3.00	0.23						
	0.05	0.53	0.12						
SHOWING B { Vein (1½') Phyllite next to vein (2')	0.04	0.53	40.0						
	0.01	0.59	2.30						

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

BONDAR-CLEGG & COMPANY LTD.


.....
R.A. Pittuck, Chief Chemist

VI. PERSONNEL EMPLOYED

Clyde L. Smith, geologist; 5354 6th Ave., Delta, B.C.
 Peter C. LeCouteur, geologist; 989 Canyon Blvd., N.Vancouver, B.C.
 Gary Didier, geologist, 804-1250 Bute St., Vancouver, B.C.

VII. QUALIFICATIONS OF C. L. SMITH, AUTHOR

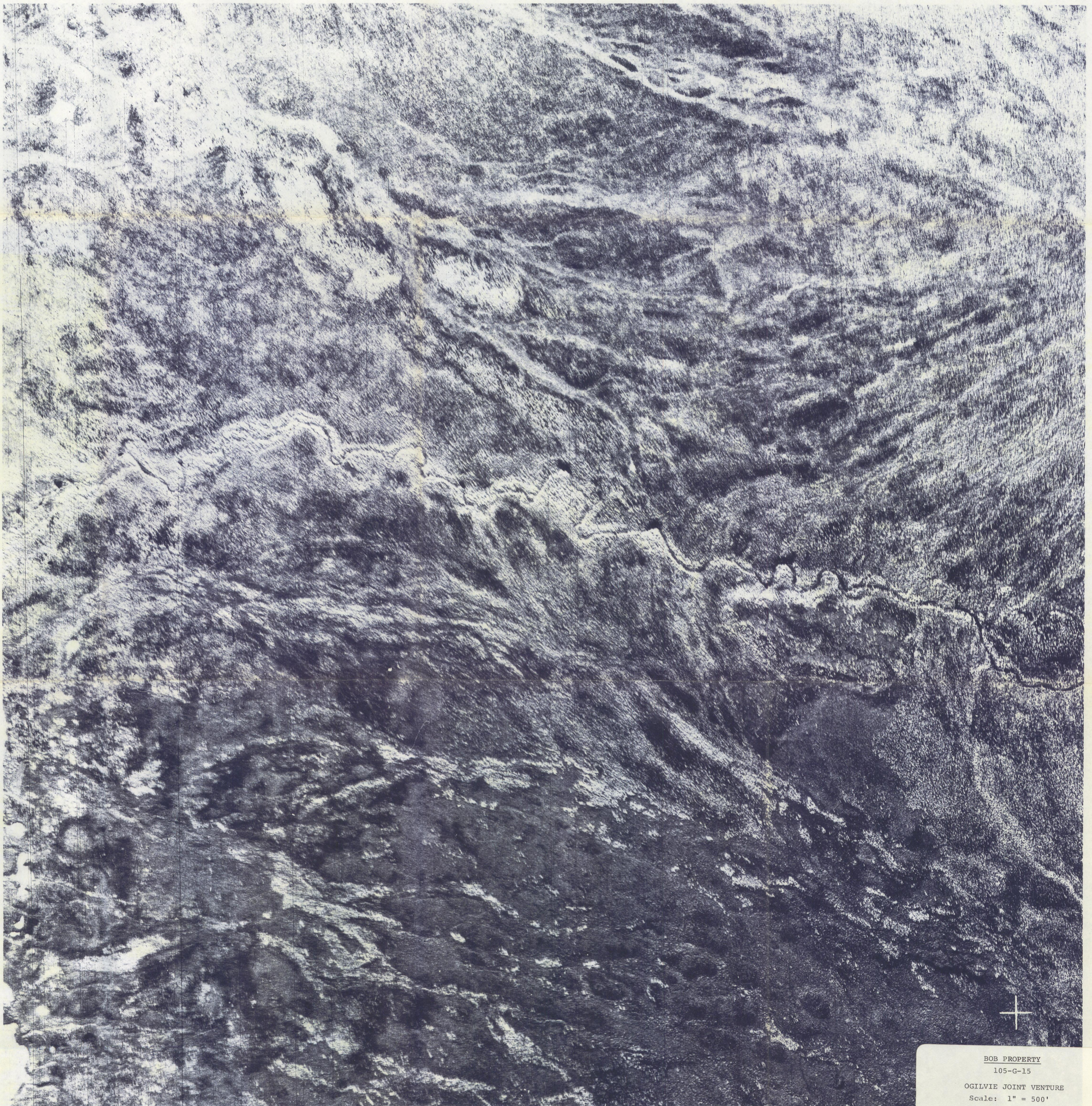
Education: Carleton College, Northfield, Minn., U.S. - B.A. rec'd 1959
 University of B.C., Vancouver, B. C. - M.Sc. rec'd 1962
 University of Idaho, Moscow, Ida., U.S. - Ph.D. rec'd 1966

Employment: 1970-present: Consulting Geologist, Vancouver, B.C.
 1968-1970: Director and Exploration Mgr., Spartan Explorations
 1966-1968: Chief Geologist, Atlas Explorations Ltd.
 1965-1966: Senior Geologist, Kerr-Addison Mines Ltd.

Professional: Registered Professional Engineer, Association of Professional Engineers, Province of British Columbia

VIII. EXPENDITURES June 3, 4 & 6, 1975

Helicopter: 6 hrs @ \$140/hr	\$ 840.00
Fuel: 100 gal @ \$1.20/gal	120.00
Salaries	560.00
Subsistence: 3 men, 3 days @ \$15/man/day	130.00
Equipment and Expediting	70.00
Assays	<u>130.00</u>
TOTAL	\$ 1850.00



BOB PROPERTY

105-G-15

OGILVIE JOINT VENTURE

Scale: 1" = 500'

SCALE: 1" = 500' APPROX.