ASSESSMENT REPORT

HoHo 1-48, 57-58, 67-78, 174, 176, 178, 180, 189-190, 250Fr-272Fr

WATSON LAKE MINING DISTRICT

NTS 105G/12

ASSessment report
on
Bulldozer trenching
conducted July 31 to August 9, 1978
on
HoHo 1-48, 57-68, 67-78, 174, 176, 178, 180, 189-190, 270F-272F claims
Watson lake mining district
claim sheet 105G/12

latitude 61°33'N
longitude 131°33'W

Alan R. Archer, B.A.Sc., P.Eng.
consulting engineer
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INTRODUCTION

The HoHo claims cover occurrences of sphalerite mineralization found and investigated in 1972 by South Yukon Joint Venture (Straus Exploration Inc., Standard Oil Co. (B.C.) Ltd., Union Oil Co. Ltd., and Messrs. L.T. Clay and H. Clay). In 1973, the property was acquired by Hoo Joint Venture (Union Oil Co. Ltd., Chevron Oil Co. Ltd., Marietta Resources International Ltd. and Messrs. L.T. Clay and H. Clay) which carried out a trenching and drilling program in that year. Only a minor mapping survey has been conducted since that time and all participants except Chevron have now withdrawn from the joint venture.

Additional trenches were cut in 1978 to investigate geochemical anomalies and to search for the source of mineralized float. The program, including mobilization, was conducted from July 31 to August 9 using an D7 bulldozer rented from Ker-Del Enterprises Ltd., Watson Lake, Yukon and operated by Bud Stephens. The program was managed by geologist C. Main under the supervision of the writer.

PROPERTY, LOCATION AND ACCESS

The property consists of 71 whole and fractional mineral claims recorded in the Watson Lake Mining District as follows:

<table>
<thead>
<tr>
<th>CLAIM NAME</th>
<th>GRANT NUMBERS</th>
<th>EXPIRY DATE</th>
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<td>Y64799-Y64810</td>
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<td>Y70369</td>
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<tr>
<td>270F-272F</td>
<td>Y73473-Y73481</td>
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</table>
The property is located at latitude 61°33'N and longitude 131°33'W on NTS claim sheet 105G/12, 40 miles southeast of Ross River (see Figure H1 on following page). Access is by fixed wing aircraft to a good bush airstrip on the south side of the HoHo claims or by tracked vehicle along a 35 mile winter road from the Campbell Highway. The road was found to be passible by bulldozer in July and August although normally it is only suitable for winter travel.

TRENCHING PROGRAM

General

Tote roads built on the property in 1973 allowed ready access to the five sites selected for trenching in 1978. Site 78-1 lies on the northern side of 1973 geochemical anomaly "B" and was designed to cut a linear structure suspected to be the source. Trench sites 78-2, 3 and 4 are on the eastern extension of the 1973 geochemical anomaly "A" in an area suspected to be the source of mineralized glacial float. Site 78-5 cuts an area of anomalous geochemical response found along a road cut between the camp site and airstrip in 1973.

Heavy permafrost was encountered in trenches 78-1 to 78-4 which slowed progress. Each trench was cut in rotation to obtain the maximum benefit from natural thawing. Fuel was obtained from a 1973 cache left at the airstrip and was mobilized to the trench site using a Bombardier, also rented from Ker-Del Enterprises Ltd. Periodic supervisory trips were made by helicopter from another camp on the Campbell Highway.

Results

(a) Geology - Most recent GSC mapping (1977) indicates the trenches are in Klondike schist unit (EPK3), a muscovite, chlorite, quartz phyllite of unknown age. There is no outcrop in the area of trenching and overburden is 1.0 to over 4.0 metres thick and is comprised of both glacial and glacial-fluvial debris. The main
geological information comes from the 1973 program of trenching and diamond drilling program.

Trench 78-1 lies 100 m NW of 1973 trenches B-1 and B-2 which exposed clean to phyllitic quartzites with carbonates carrying minor zinc-lead mineralization. Trench 78-1 did not reach bedrock but the predominant float at 2.0 m depth, a fine-grained, pale-green chloritic quartzite, may be residual. The quartzite exhibits minor hematite staining and quartz veining. No sulphides were seen.

Trenches 78-2 to 78-4 lie between 300 and 1000 m east of 1973 geochemical Anomaly A. No bedrock was encountered although a zone of rusty quartz, biotite, sericite schist that cuts across trench 78-3 may be in situ residual till. Most of the larger float fragments in the trenches are chloritic to weakly sericitic quartzite. No sulphides were seen.

Trench 78-5 lies in a minor geochem anomaly outlined in 1973. There is no nearby outcrop and there were no previous trenches or drill holes near this site. Bedrock was encountered at 4.0 m and consisted of rusty siliceous, muscovite, chlorite schist with irregular quartz porphyroblasts ('eyes'). Abundant rusty vugs may indicate that sulphides were once present. An irregular red-ochre gossan layer parallels the surface at about 1.0 m depth.

(b) **Geochemistry** - Trench sample assays in ppm lead and zinc are shown on Figures H2 and H3 (on the following pages). Samples were taken every 10 metres along the trench bottom and each consisted of a 5 kg bag of random chips of rock float and/or soil selected from a 1.0 m diameter. In areas of sub-outcrop or possible outcrop (trenches 78-3 and 78-5), specimen and channel samples were taken of distinctive rock types.
Trench rubble mainly sugary pale green quartzite

TRENCH 78-1

Depth 1.5 m.

Trench rubble mainly chloritic gneiss and sericitic partridge

TRENCH 78-2

Depth 3.0 m.

Trench rubble mainly chloritic gneiss and sericitic quartzite

TRENCH 78-3

Depth 2.0 m.

LEGEND

- Alluvium

Sample Site (Assay: Pb/Zn in ppm)
- all samples are 5 Kg random rock chip and soil

Rusty quartz, biotite, sercite schist (sub-outcrop)

FIG. H2

ARCHER, CATHRO & ASSOCIATES LTD

GEOLOGY & GEOCHEMISTRY

TRENCH 78-1, 2 & 3

HOO JOINT VENTURE

Scale 1:500

To accompany report dated Feb 15, 1979
LEGEND

- Alluvium

Sample Site (Assay: Pb/Zn in ppm)
- all samples are 5 Kg random
- rock chip and soil

Rusty siliceous muscovite chlorite schist with minor quartz 'eyes'
and numerous vugs (after sulphides?)

FIG H3

ARCHER, CATHRO & ASSOCIATES LTD

GEOLOGY & GEOCHEMISTRY

TRENCH 78-4,5
HOO JOINT VENTURE

Scale 1:500

To accompany report dated Feb. 15 1979
In trenches 78-1 to 78-4, assays are no higher than assays received from earlier soil sampling surveys and no sample is high enough to indicate the presence of underlying base metal sulphide (either from detrital or hydromorphic enrichment) although there may still be sufficient overburden present to mask such an effect.

Trench 78-5 has higher than average assays (up to 355 ppm Pb and over 4000 ppm Zn). Since the bedrock exposed in the trench has a low background, the assays probably reflect a mineralized source under the trench debris or uphill.

**CONCLUSIONS**

Trenches 78-1 to 78-4 did not reach bedrock and did not adequately test the anomalous sites. They should be stripped to depth when convenient, in conjunction with other work in the area. Trench 78-5 has sufficiently high lead and zinc values to warrant further work and the trench should be lengthened and deepened.

Respectfully submitted,

A.R. Archer, P.Eng.

ARA/mc
AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the Ho Ho mineral claims on
Claim Sheet 105G/13 is accurate.

Joan Mariacher

Sworn before me at Vancouver, B.C.
this 27th day of

C. F. C.
Notary, Yukon Territory
Statement of Expenditures
Ho Ho Claims
15 February, 1979

Supervision
A.R. Archer - July, 1 day arranging contract $ 250.00

Expenses
Ker-Del Enterprises, bulldozer and bombardier rental, and 9 days swamper

6,904.00

$7,154.00
Labour

A.R. Archer - arranging bulldozer contract at the Hoo property, total 1 day $250.00

Expenses

Accounting - January 1-July 31, 1978 $100.00
Drafting, 2 hours at $16 32.00
Blueprinting, 147.5 feet at .50/ft 73.75
Xerox, 9 copies at .25 2.25
AC petty cash 3.90
Whitehorse Motors 411.57 623.47

Total $1,349.74

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES LTD.,

A.R. Archer
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Total: $6,904.00

Signed: [Signature]

OK to nominate:

[Space for signature]

[Date]
# Schedule Showing Trenching Assessment Credit

**Ho Ho Joint Venture**

**Bulldozer Trenching Program**

Ho Ho Claim Group

House River Area

NTS 105G/12

July - August 1978

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**2,740**