



ASSESSMENT REPORT

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

WATSON LAKE MINING DISTRICT

NTS 105G/12

A.R. Archer, P.Eng.

Feb.15, 1979

091161

ARCHER, CATHRO

AND ASSOCIATES LTD.

CONSULTING GEOLOGICAL ENGINEERS

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STANDARD BUILDING, VANCOUVER, B.C. 688-2568

1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

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 Only a minor mapping survey has been conducted since that time and all participants except Chevron have now withdrawn from the joint venture.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:

<u>CLAIM NAME</u>	<u>GRANT NUMBERS</u>	<u>EXPIRY DATE</u>
HoHo 1-32	Y64634-Y64665	10 May/79
33-40	Y64735-Y64742	10 May/79
41-48	Y64752-Y64759	10 May/79
57	Y64789	10 May/79
58	Y64790	10 May/79
67-78	Y64799-Y64810	10 May/79
174	Y70353	10 May/79
176	Y70355	10 May/79
178	Y70357	10 May/79
180	Y70359	10 May/79
189	Y70368	10 May/79
190	Y70369	10 May/79
270F-272F	Y73473-Y73481	10 May/79

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

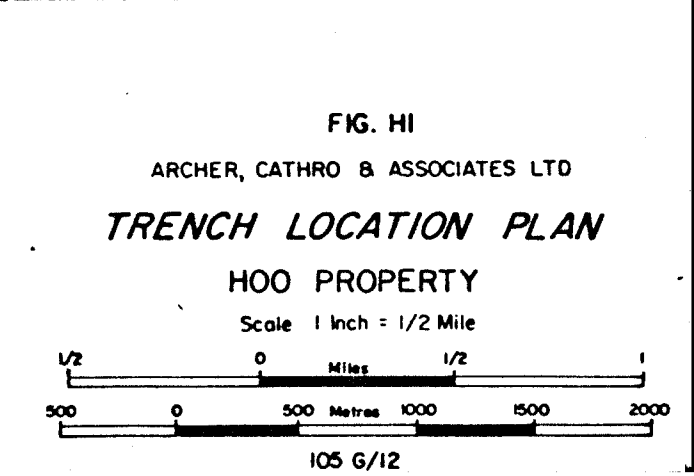
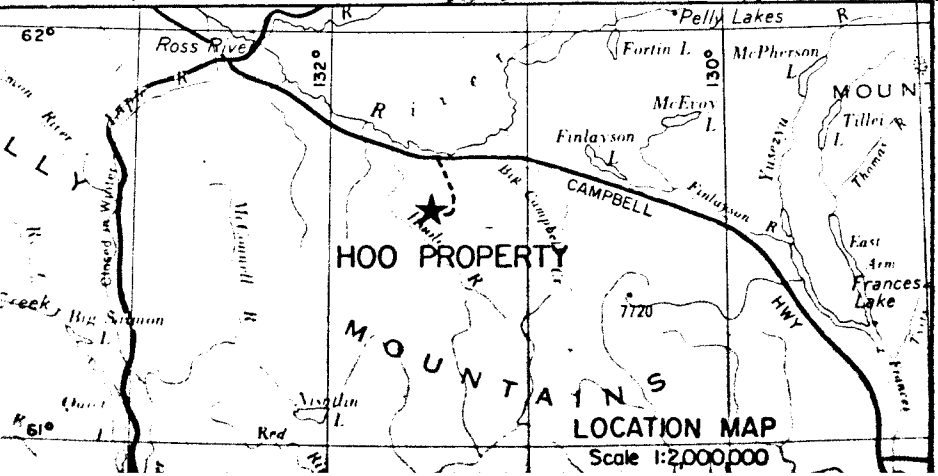
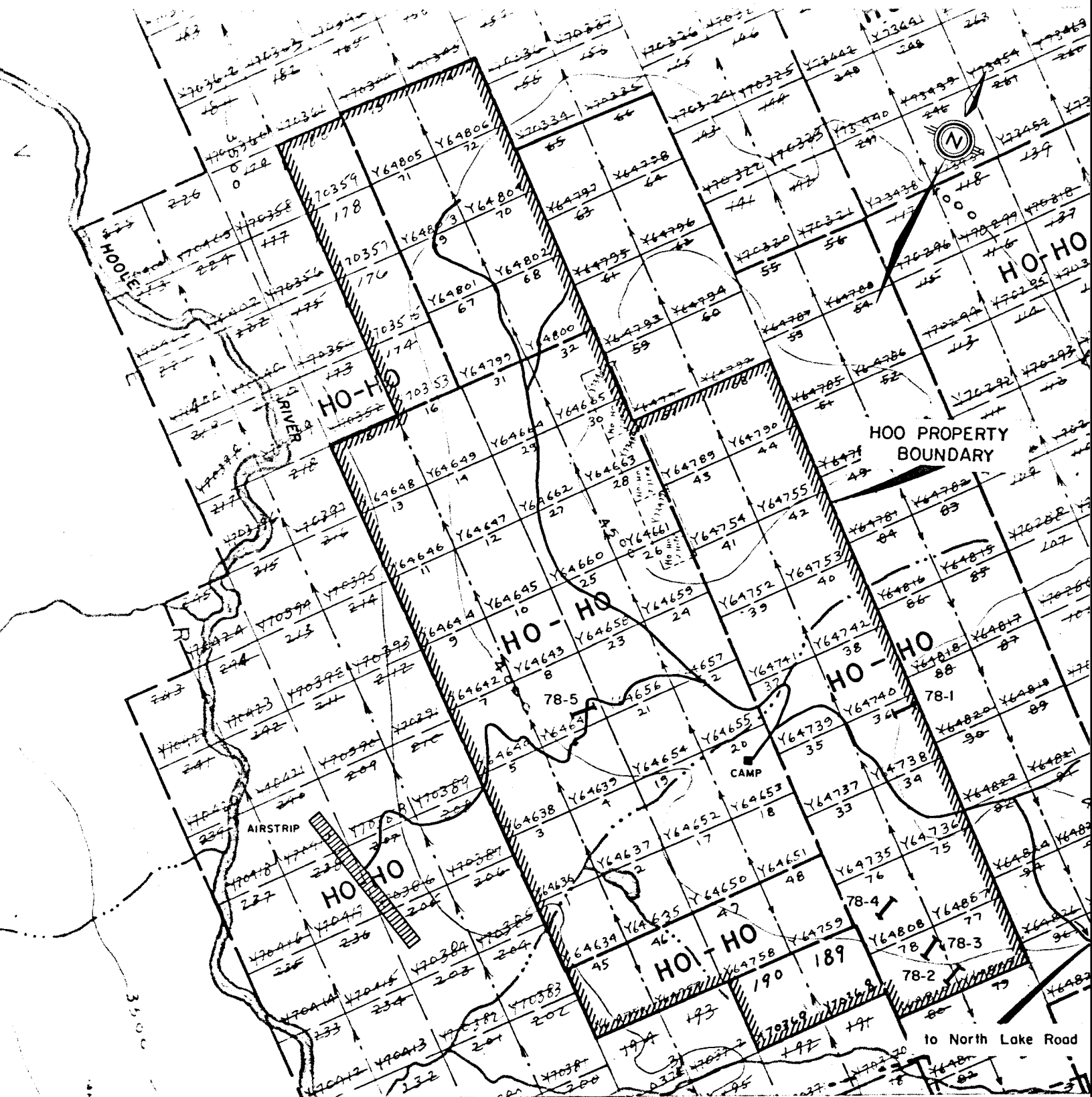
General

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-De1 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.

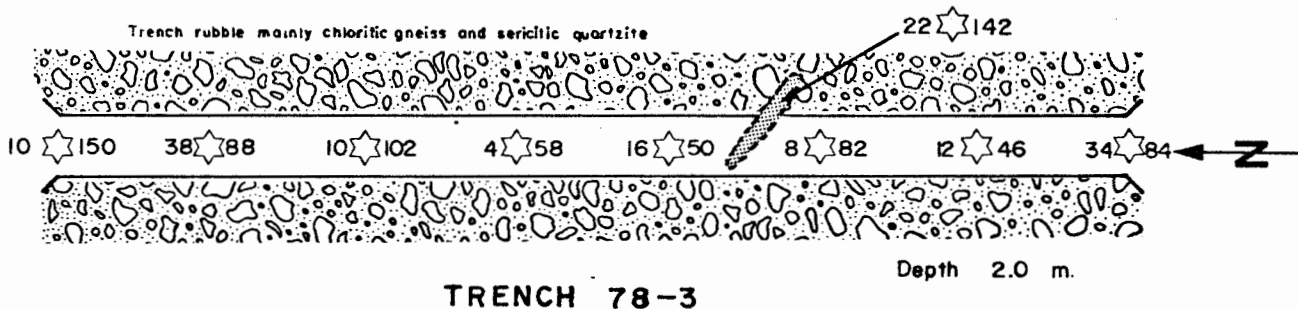
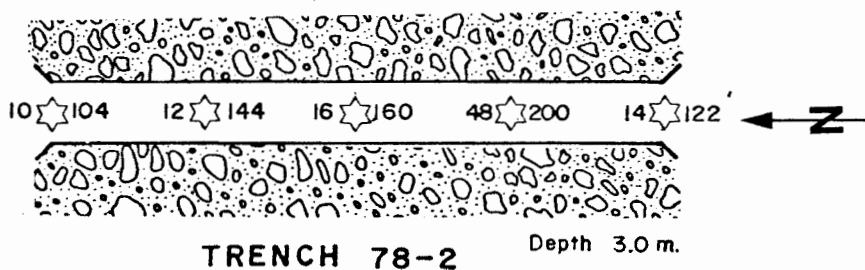
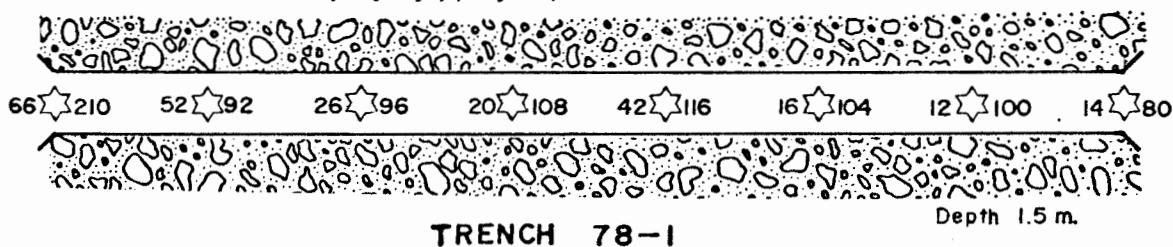
Trench 78-1 lies 100 m NW of 1973 trenches B-1 and B-2 which exposed clean to phyllitic quartzites with carbonates carrying minor zinc-lead mineralization. Trench 78-1 did not reach bedrock but the predominant float at 2.0 m depth, a fine-grained, pale-green chloritic quartzite, may be residual. The 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 f.g. sugary pale green quartzite



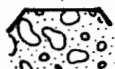
LEGEND



Alluvium

16★116

Sample Site (Assay: Pb/Zn in ppm)



— all samples are 5 Kg random rock chip and soil



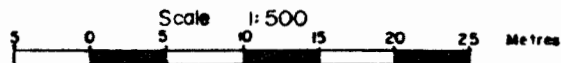
Rusty quartz, biotite, sericite schist (sub-outcrop)

FIG. H2

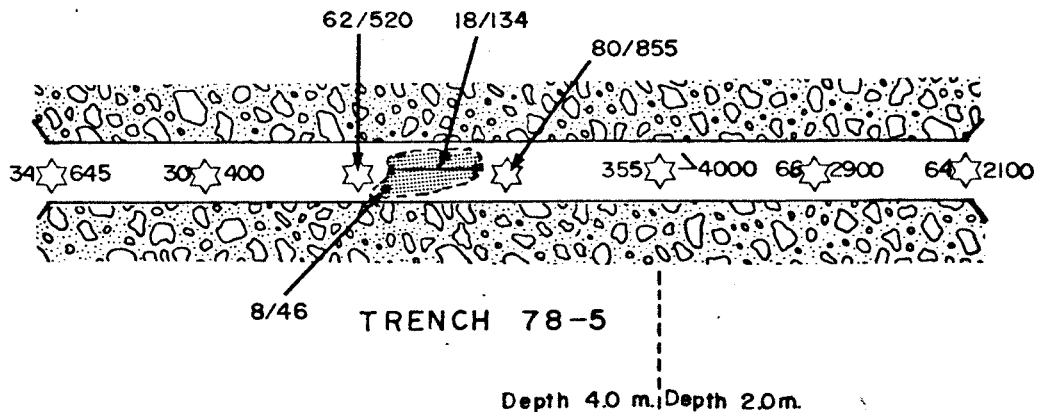
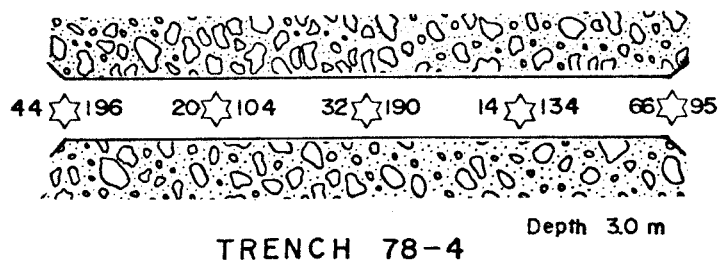
ARCHER, CATHRO & ASSOCIATES LTD

GEOLOGY & GEOCHEMISTRY

TRENCH 78-1, 2 & 3
HOO JOINT VENTURE



To accompany report dated Feb 15, 1979



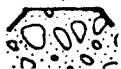
LEGEND



Alluvium

16 ★ 116

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

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GEOLOGY & GEOCHEMISTRY

TRENCH 78-4,5

HOO JOINT VENTURE



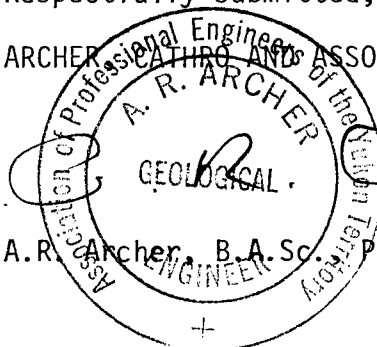
In trenches 78-1 to 78-4, assays are no higher than assays received from earlier soil sampling surveys and no sample is high enough to indicate the presence of underlying base metal sulphide (either from detrital or hydromorphic enrichment) although there may still be sufficient overburden present to 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,
ARCHER, CATHRO AND ASSOCIATES LTD.


A. R. Archer, B.A.Sc., P.Eng.

ARA/mc

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STANDARD BUILDING, VANCOUVER, B.C. 688-2568

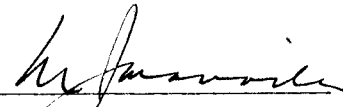


1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

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 21st day of
February, 1979.


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

ARCHER, CATHRO
AND ASSOCIATES LTD.
CONSULTING GEOLOGICAL ENGINEERS

Whitehorse, Yukon (403) 867-4415

1016 - 510 West Hastings Street Vancouver, B.C. V6B 1L8 (604) 688-2568

Post Office Box 4127
Whitehorse, Yukon
Y1A 3S9

In Account With
Hoo Joint Venture
31 July, 1978

Labour

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

Expenses

Accounting - January 1-July 31, 1978	\$100.00	
Drafting, 2 hours at \$16	32.00	
Bludprinting, 147.5 feet at .50/ft	73.75	
Xerox, 9 copies at .25	2.25	
AC petty cash	3.90	
Whitehorse Motors	<u>411.57</u>	<u>623.47</u>
		873.47

		owing June 30, 1978 <u>1,206.77</u>
		2,080.24

Less credits

Rental Hoo truck - Grass Project	132.00	
Cub Joint Venture	219.00	
Gataga Joint Venture	132.00	
Host Ventures	<u>247.50</u>	<u>730.50</u>

		Total <u>\$1,349.74</u>
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Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES LTD.,

A. R. Archer

A.R. Archer

ARA: jm
Print Aug 20/78
El 4512

ORDER NUMBER	12534
DATE	Aug 20th/78
CUSTOMER'S ORDER	
SALESMAN	
TERMS	
F. O. B.	

SOLD TO Archer Contract Associates Ltd
3125 - 3rd Ave. White Horse Y.T.

SHIPPED TO _____
 ADDRESS _____ VIA _____

INVOICE

88 hrs Oct 07. @ \$88.00 per hr	5104.00
9 days swamp @ \$100.00 per day	900.00
9 " " swamp machine @ \$100.00 per day	900.00
<p>Prepar. Exploration work at 1377 sub Creek</p>	
<p>2 x 8/500 hrs with USD \$1904 per hr</p>	<p>OK to pay remainder</p>
	\$6904.00

SCHEDULE SHOWING TRENCHING ASSESSMENT CREDIT

HOO JOINT VENTURE

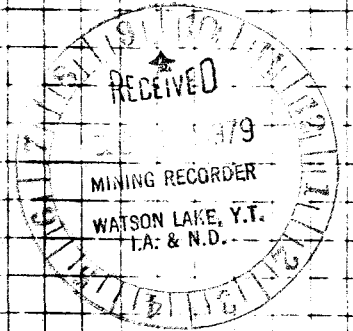
BULLDOZER TRENCHING PROGRAM

HO HO CLAIM GROUP

HOULE RIVER AREA.

NTS 105G/12

JULY - AUGUST 1978



<u>TRENCH No</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>METRES DEPTH</u>	<u>VOLUME</u>	<u>PER CUBIC METRE CREDIT</u>	<u>PER TRENCH CREDIT</u>	<u>CLAIM LOCATION</u>
78-1	70	4	1.5	420	\$ 2.61	\$ 1096.20	Ho-Ho 36
78-2	40	4	3	480	\$ 2.61	\$ 1252.80	Ho-Ho 77 & 78
78-3	70	4	2	560	\$ 2.61	\$ 1461.60	Ho-Ho 78
78-4	40	4	3	480	\$ 2.61	\$ 1252.80	Ho-Ho 76
78-5	40	4	4	640			
	20	4	2	160	\$ 2.61	\$ 2088.00	Ho-Ho 8
TOTAL				2740		\$ 7,151.40	