



LOON LAKE SYNDICATE

Lynx 1-17, 105-E-1, Whitehorse, M.D., Y.T.

61° 12' N-134° 11' W.

GEOCHEMICAL and TRENCHING REPORT

Field Work - September 8-18, 1978

by

P.H. Sevensma, Ph.D., P. Eng.

December 20, 1978

CANADA

YUKON TERRITORY



(IN THE MATTER OF AN APPLICATION for a Certificate of Work under the Yukon Quartz Mining Act.)

TO WIT:

I, Peter H. Sevensma, of 7052 Sierra Drive, Burnaby, B.C., hereby declare as follows:

That attached hereto, this my affidavit, and marked Appendix "B", is a statement of costs and a list of personnel employed in a trail cutting and trenching program on the Lynx Group during the month of September 1978, containing only those costs applicable to the trenching program only.

The work in the field was carried out under my personal supervision.

All information contained in Appendix "B" is true and accurate to the best of my knowledge and belief, applying to the physical work program only.

DECLARED before me in the City of Vancouver, Province of British Columbia, this day of March, 1979.

*P.H. Sevensma*

*[Signature]*

A Notary Public in and for the Yukon Territory.

*Notary Public in and for the Province of British Columbia*

091131

APPENDIX "B"

COSTS OF A TRAIL CUTTING AND TRENCHING PROGRAM carried out on the LYNX CLAIMS 2 and 15 from September 8th to 18th, 1978, claim sheet 105-E-1, Whitehorse, M.D., Y.T.

1. Mobilization and Supplies

August 28 - September 7, 1978

CPR, Vancouver - Whitehorse	\$192.00
Field equipment (Woolworth, Igloo)	94.89
Miscellaneous	29.96
Fuses (Yukon Explosives)	16.67
Powder (Yukon Explosives)	73.64
Camp supplies	45.96
Groceries	<u>122.62</u>

\$575.74

2. Aircraft to and from Loon Lake

Trans North Turbo Air	<u>\$470.40</u>
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470.40

3. Sampling

Whitehorse Assay Office Rock samples	<u>\$ 91.00</u>
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91.00

4. Personnel Employed

P.H. Sevensma, P. Eng., September 8 - 18 9 days @ \$150.00	\$1,350.00
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E.H. Sevensma, Cook, helper 7 days (September 8-14) @ \$50.00	350.00
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J. Graham, certified blaster September 16-17, 2 days @ \$100.00	<u>200.00</u>
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\$1,900.00

TOTAL COSTS:

\$3,037.14

This is exhibit "B" referred to  
March 8, 1979 in the affidavit of Peter H. Sevensma  
Signed: \_\_\_\_\_

sworn before me this 9

day of April 1979

[Signature]  
A Commissioner for taking Affidavits  
for British Columbia Notary Public in and for the  
Province of British Columbia

[Signature]  
P. H. Sevensma, Ph.D., P. Eng.

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### Illustrations

Fig. 1	Location Map	1" = 90 miles
Fig. 2	Claim Location Map	1" = 1500'
Fig. 3	Soil Sampling, claim 17 Trenching, claim 15	1" = 100'
Fig. 4	Trenching, claim 2	1" = 50'

### Assay Reports

Whitehorse Assay Office, report 224-7

Whitehorse Assay Office, report A-2066-19

### Appendix "A"

Statement of Costs, and Affidavit

LOON LAKE SYNDICATE

LYNX GROUP

105 - E - 1, Whitehorse M.D., Y.T.

GEOCHEMICAL AND TRENCHING REPORT

1. INTRODUCTION

This report is a follow-up on the writer's reports of December 9, 1974 and May 17, 1976.

In the past, geochemical and geological surveys had indicated areas of significant potential mineralization on claims 2 and 4, on claims 7 and 8, on claim 11 and in the area now covered by Lynx 17.

Due to previous short staking of claims 13 and 14, it was found that the area now covered by claim 17 was in fact open and this area was therefore staked as claim 17 on September 11, 1978.

The purpose of the 1978 work was to endeavour to pinpoint mineralization in place on claim 17, where a single IP line in 1970 suggested an area of sulphide concentration, and to expose fresh rock on claim 2, where there is a large rock rib heavily stained by iron oxides and malachite which had never been opened up.

The 1978 program gives considerable encouragement, when four areas of rock-trenching revealed consistent and wide spread copper-gold mineralization.

2. PROPERTY, LOCATION, ACCESS

The property lies at about  $61^{\circ} 12' N$  and  $134^{\circ} 11' W$ , at the North-end of Upper Loon Lake, on claim sheet 105-E-1, between elevations of 3300' and 4400'.

Access is by float-plane from Whitehorse, situated 48 miles to the Southwest, or by helicopter.

There is abundant water and good timber with butts up to 20" on and near the property. The area is one of moderate snowfall.

Freeze-up and break-up occur respectively about late October and late May.

Previously erected tent-frames and stored supplies were found severely damaged upon arrival at the property in September 1978.

3. LINES AND TRAILS

Lines and Trails providing access to the area of claim 17 were recut where necessary, rechained and reflagged, working NE from the base line on lines 44N to 64N inclusive, and the North boundary of claim 15 was chained in.

#### 4. SOIL SAMPLING

19 soil samples spaced at 50' intervals were collected on claim 17, where about 6"-12" soil cover with some volcanic ash lies over good brown soil derived from decomposed rock. Rock fragments suggest that the underlying formation consists of more or less siliceous schists and quartzite.

The samples were collected with the use of a pick and a trowel, placed in Kraft paper bags and dried in camp. All samples were assayed for copper, lead and zinc by Whitehorse Assay Office by atomic absorption.

Assay results are recorded on report A-2066-19 dated September 25, 1978, by Whitehorse Assay Office, a copy of which is attached to this report.

Previously, it had been determined that background copper in the area lies in the range 0-49 ppm Cu, and that values of over 200 ppm Cu generally indicate copper in place nearby.

An anomalous area roughly 500' long was outlined by the sample results. Together with a terrain examination, the location of the IP indication near point (210) at about 1900'E on line 52 N and the location of a large iron oxide-and malachite-stained rock pinnacle suggest that a mineralized zone is likely to be present running in a NNE direction from the rock-pinnacle, as indicated on figure 3, in a heavily vegetated steep slope.

The sample locations followed a shallow quartzitic ridge lying to the East of a long narrow swampy meadow.

The topography suggest that the area as a whole, between lines 44N and 64N is affected by NNE and NNW trending zone of weakness, leaving shallow elongated ridges of mostly siliceous rocks between them.

Further work should be concentrated in the area marked "Suspected Mineralized Trend" on figure 3.

## 5. TRENCHING

All exposed rock outcrops which are from lightly to heavily stained with iron oxide and malachite are hard and siliceous, both on claim 2 and on claim 15.

This formation is not well suited to drill with a Cobra drill, and it was decided to use natural weaknesses of the rock, enlarge them where possible with a bar, and to use 3 packs of about eight sticks of powder, tied with B-line, for each blast.

This technique proved eminently successful in moving large quantities of rock in place, and in providing sufficient fresh surfaces to obtain good representative samples.

On claim 15, the rock proved to be very siliceous, but to carry only occasional chalcopryite in place.

A representative sample of the large volume of rock blasted, sample no:776, showed only traces of gold and silver, lead and zinc, and .35% copper in minor chalcopryite and variable amounts of malachite.

One piece of float found on the ridge provided sample 775, assaying .55% copper in mostly chalcopryite.

On claim 2, blasting proved successful in exposing good fresh rock devoid of malachite.

The assays of this area, nos. 777-781, are recorded on Assay Report 224-7, dated September 26, 1978, by Whitehorse Assay Office.

All samples consist of a highly siliceous rock with quite abundant finely disseminated chalcopryite. The average of the five samples taken shows:

0.06 oz/t gold, 0.11 oz/t silver, 0.83% copper.  
One sample shows 460 ppm lead and 272 ppm zinc, in line with previous soil-sampling which showed occasional areas of significant lead. Occasionally minor galena has been observed in samples taken elsewhere on the property.

6. SUMMARY OF TRENCHING

a. Claim 15

Four successive blasts in the same rock-face trench moved approximately:

$$30' \times 20' \times 6' = 3600 \text{ cf} = 133 \text{ c. yds.}$$

b. Claim 2

One hand sample was taken across 8' in location 777 (see figure 4) by prospector's pick.

Four separate blasts in four different locations moved approximately:

Blast 1	8' x 6' x 10'	= 480 cf	
Blast 2	10' x 10' x 4'	= 400 cf	
Blast 3	10' x 8' x 1'	= 80 cf	
	6' x 6' x 2'	= 72 cf	
Blast 4	6' x 8' x 2'	= 96 cf	
	5' x 8' x 4'	= <u>160 cf</u>	
Total		1288 cf	= 48 c. yds.

c. Grand total removed: 181 c. yds.

7. SUMMARY AND RECOMMENDATIONS

Blasting in area 2 proved for the first time widespread copper-mineralization in place in an area of about 100' x 100'. About 550' to the NNE a very old adit, said to be about 300' long, is believed to have intersected some 80' of good (2.5% ?) copper values.

This particular area warrants further investigation. Reopening of the old tunnel is expected to cost in the order of \$6,000.00 to \$10,000.00.

Further blasting could also be carried out between the old adit and the 1978 blasting.

The area of claim 17 requires further surface prospecting, surveying and soil-sampling. The big rock pinnacle suggests that conditions may be very similar in both areas 2 and 17.

Copper mineralization is so widespread on these claims that further exploration is fully warranted.

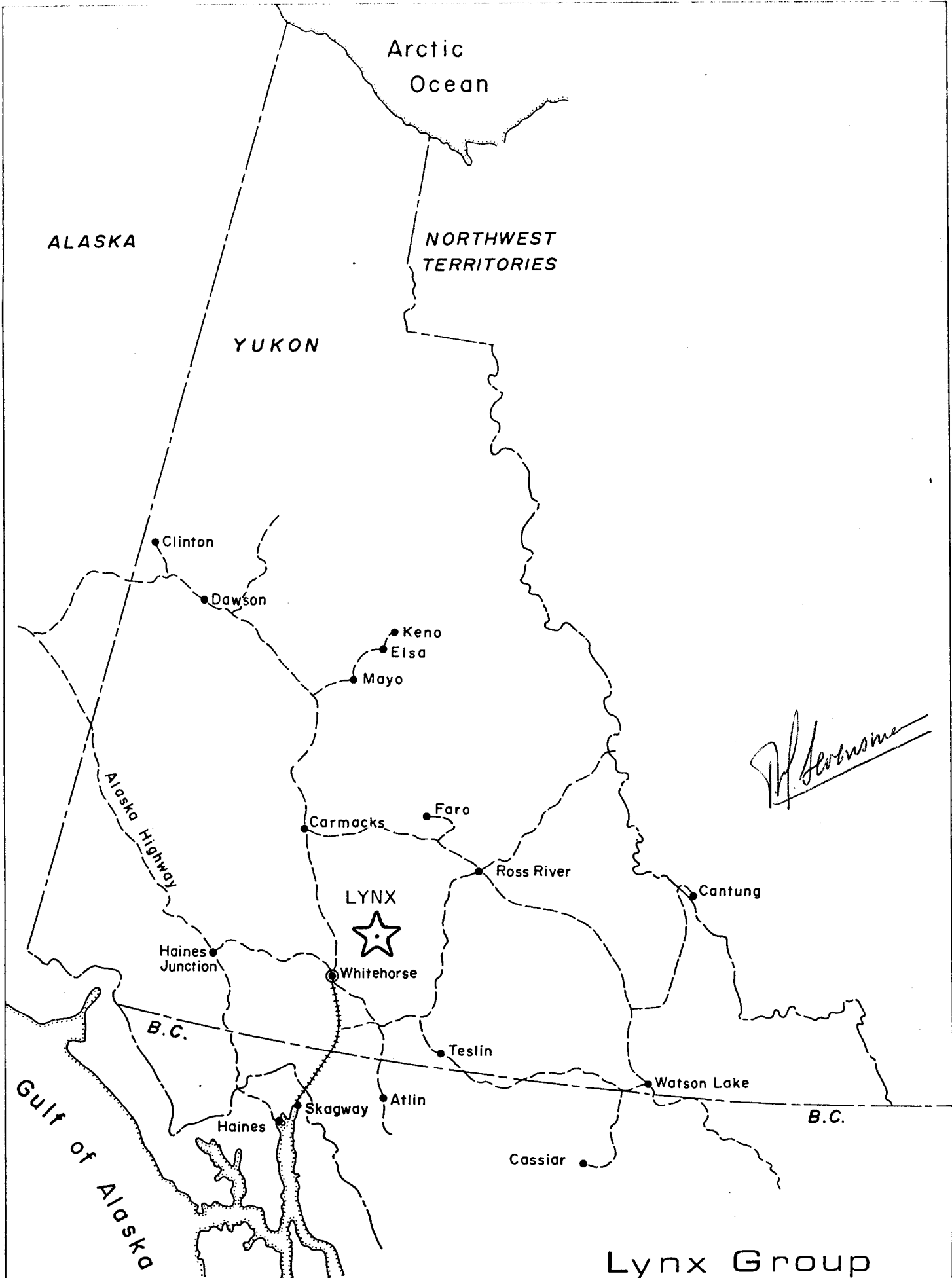
The writer has an interest in this property.



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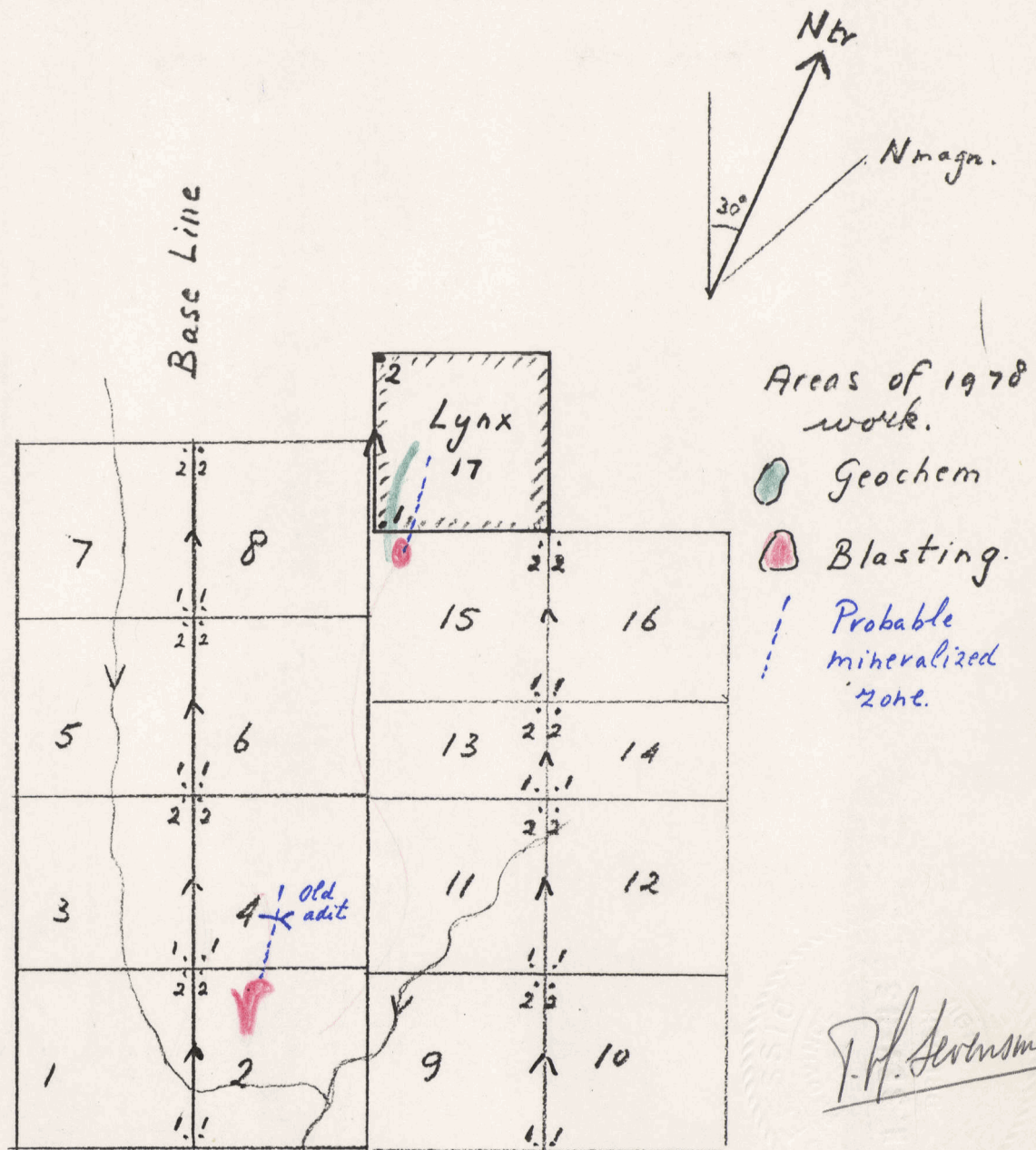
P.H. Sevensma, Ph.D., P. Eng.

December 20, 1978

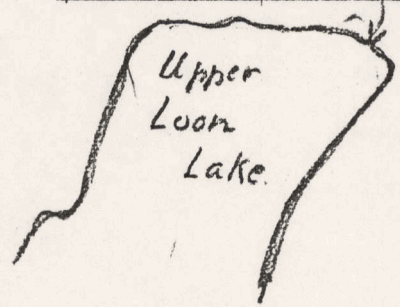


Lynx Group

FIG. 1



P.H. Sevensma



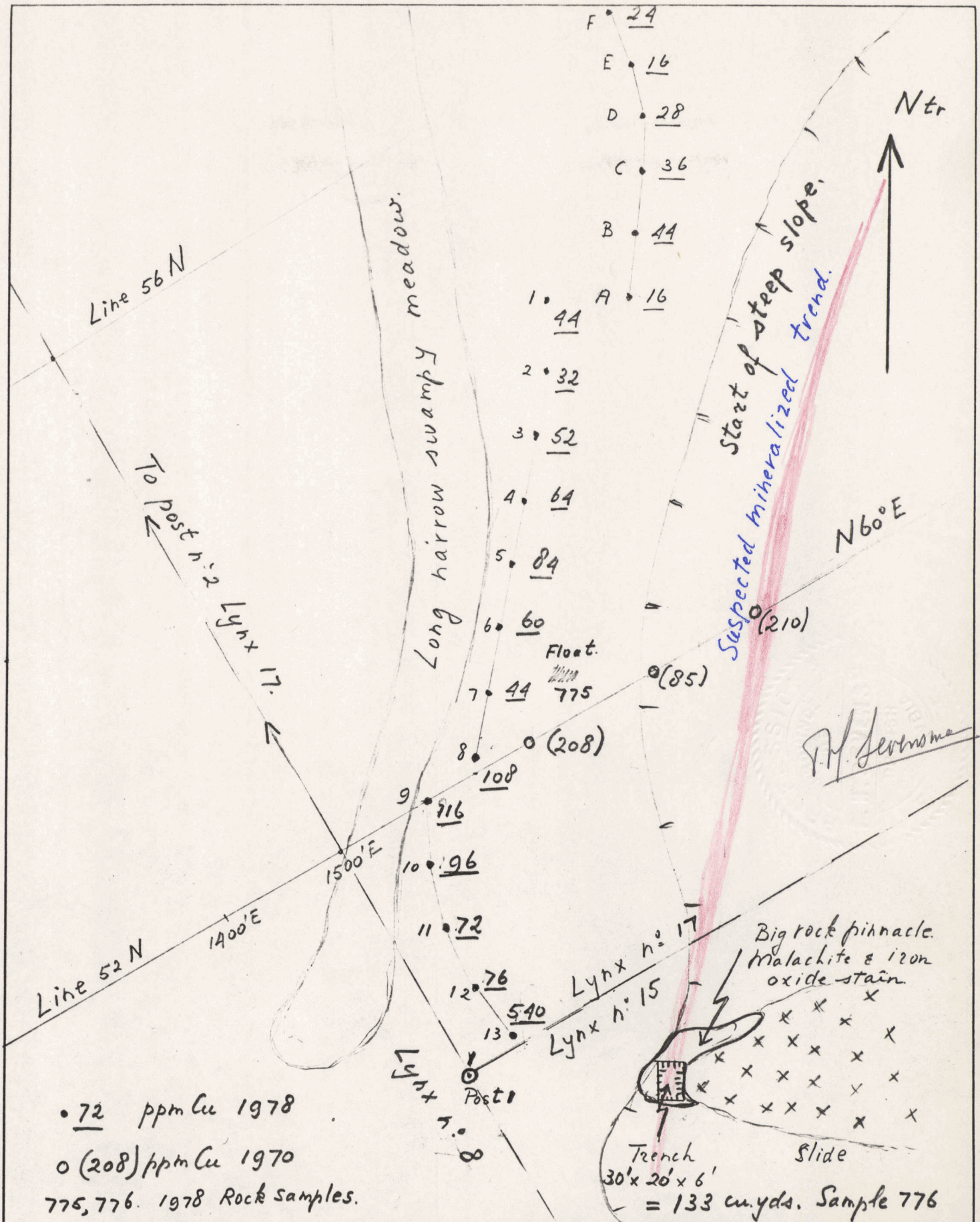
Location Map.

105-E-1  
1" = 1500'

Lynx # 17: Staked Sept. 11, 1978 by P. Sevensma.  
Claims 13 and 14 only 850' long as based on chainage.

Fig. 2. 1" = 1500'

P.H. Sevensma



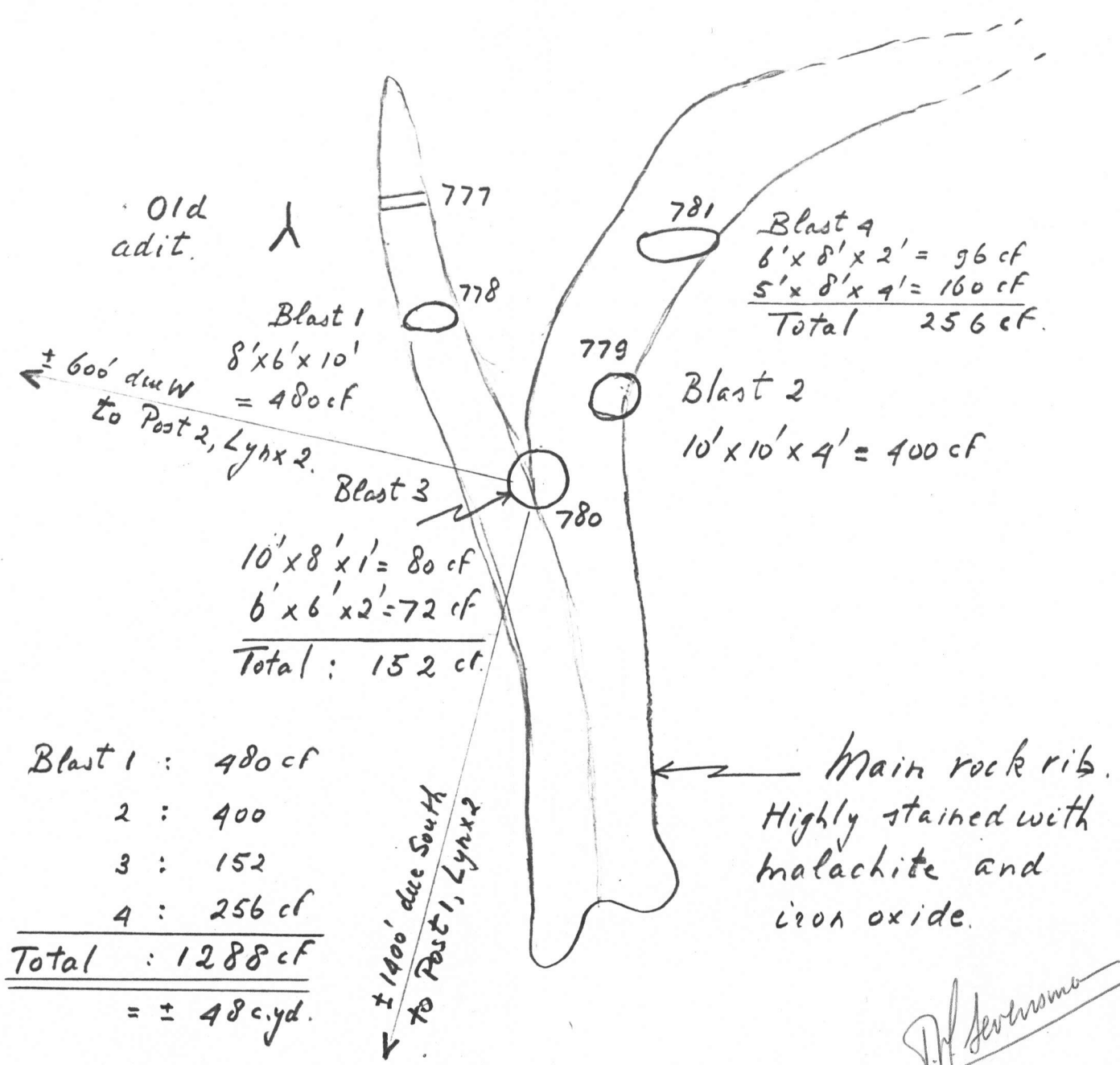
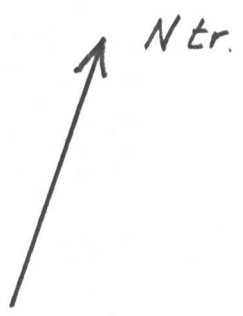
• 72 ppm Cu 1978  
 ○ (208) ppm Cu 1970  
 775, 776. 1978 Rock samples.

1978 Work program.

105-E-1, Whitehorse M.D.

Loon Lake Syndicate.	
Lynx Group, Geochem. and trenching.	
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
October 1978.	Scale: 0  100'

Approx. N Boundary of Lynx #2 claim.



Blast 1 :	480 cf
2 :	400
3 :	152
4 :	256 cf
<u>Total :</u>	<u>1288 cf</u>
	= ± 48 c.yd.

*P. H. Sevensma*

Lynx #2 claim.

777 - 781. Rock samples.

1978 Workprogram.

Loon Lake Syndicate.	
Lynx Group, Rock Trenching.	
P. H. Sevensma	Consultants Ltd. Vancouver, B.C.
October 1978.	Scale: 0  50'

105-E-1, Whitehorse M.D.

Dwg. No. Fig: 4

DATE. SEPTEMBER 26, 1978

FILE NO. 224- 7

# ASSAY CERTIFICATE

WHITEHORSE ASSAY OFFICE LTD.  
BOX 4518 WHITEHORSE Y. T.  
PHONE 667 2694 Y1A 2R8

SAMPLE RECEIVED FROM

MR. P. H. SEVENSMA

SAMPLE NO.	GOLD Oz. Per Ton	SILVER Oz. Per Ton	COPPER %	LEAD P.P.M.	ZINC P.P.M.			
775	.01	.04	.55	20	8			
776	TR	TR	.35	16	32			
777	.15	.21	.95	68	8			
778	.025	.06	.84	28	8			
779	.03	.06	.71	24	8			
780	.06	.11	.78	460	272			
781	.03	.09	.88	44	24			

ASSAYER. *K. Hayland jr* GEO. SPALDING

*Lynx Group*  
*P.H. Sevensma*



