

116 A.

004735

Hart River pines LTD.

Mayo P.D. Yukon, T.

July 22 1968

JUL 29 1968

new file

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

W.S.R.
K.C.G.
J.H.S. ✓
E.F.
R.D.S.
B.C.B.
P.M.K. ✓
G.W.M. July 22, 1968
R.O.M.
C.K.W.
J.B.S.
G.P.R.
K.F.L.
H.B.
E.C.J. (circled)

To P. M. Kavanagh From W. M. Sirola

Subject Hart River Mines Limited, Mayo M.D., Yukon Date
Lat. 64°38'N, Long. 136°50'W, 116-A/10

Introduction:

The property which now consists of a total of 176 claims was acquired during the summer of 1966 as a result of grass roots prospecting by a syndicate which involved Pat Callison, the brokerage firm of Briden and Anfield, and Alrae Explorations. This syndicate located a new showing of copper-lead-zinc in a sheared zone in argillites, partly surrounded by volcanics.

Location and Access:

The claims are located approximately 80 miles northwest of Mayo and 90 miles northeast of Dawson. Access is via the Dempster Highway from Dawson to Mile 50 and then by helicopter to the property. Alternatively, the property may be reached by helicopter from Mayo. The showings are at an elevation of 4,000 feet.

Geology and Mineralization:

The mineralization occurs as massive sulphides in an east-west steeply dipping shear zone in green to black argillites. The shear zone is flanked on both sides by medium to coarse grained andesite in which the more prominent jointing dips at 54° to 75° north. The shearing and mineralization dip southward at approximately 75°.

At the date of my examination, July 11, 1968, the mineralized zone had been tested over a horizontal distance of approximately 350 feet. Of this distance, approximately 270 feet could reasonably be called ore grade material although assay returns are by no means complete. From the information available on the property at the time of my visit, it was reasonable to assume that mineralization would be found in subsequent drilling for a distance of 350 feet or more east of the area tested to date. The grade of this material is unknown since the two trenches previously excavated are completely sloughed. There is however, an extensive limonitic seep below the most easterly trench so that obviously sulphides are present.

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To _____ From _____

Subject _____ Date _____

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The most optimistic estimate that could be made of the tonnage in this zone would be to give the zone a length of 1,000 feet, an average width of 40 feet and a down-dip length of 250 feet. Such a zone would contain 1,000,000 tons of sulphides with a possible average grade of 1.0% Cu, 4% to 5% combined Pb and Zn, and perhaps 1.0 oz. of silver. This grade estimate could be quite inaccurate because less than half the footage drilled to date has been assayed, or if it has been assayed, it has not been reported to the public at large.

The down dip dimension of 250 feet was selected because it becomes very evident from sections 97+65W (containing drill holes 5 to 9 inclusive) and 98+65W (containing DDH 10 to 14 inclusive) that unmineralized or weakly mineralized argillites and greenstones occur at approximately that depth. Section 96+50W (containing DDH 1 to 4 inclusive) is stronger than the previously named sections to the west but even so the massive sulphides terminate between 230 to 240 feet.

Assays:

The assays reported to date are as follows:

Hole No.	Footage	Length of Intersection	Gold	Silver	Copper	Lead	Zinc
1	10.0 - 231.0	212	0.106 oz.	1.96 oz.	1.30%	0.78%	6.39%
2	(assays not complete)						
3	22.0 - 47.0	25	0.04	1.03	1.85	0.04	1.72
4	13.0 - 75.0	62	0.06	0.95	1.73	0.37	3.37
	113.0 - 245.0	132	0.07	2.65	0.89	1.64	9.50
4	Total Intersection						
	13.0 - 245.0	232	0.06	1.87	1.00	1.04	6.43
5	21.0 - 60.0	39	0.025	0.34	1.45	0.06	0.34
	60.0 - 135.0	75	0.02	0.10	0.52	0.09	0.85
	Total Intersection						
	21.0 - 135.0	114	0.02	0.18	0.83	0.08	0.68
6	Flat test into the footwall	25	0.03	0.73	1.45	0.12	1.08
7	(not assayed)						
8	Not shown	148	0.03	1.10	2.44	0.38	1.69

(continued - Page 3)

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Geophysics:

The only geophysics done to date was an EM-16 survey completed by Newmont in 1966. The actual profiles of this work were not available but there is a 1,200-foot long conductor which approximates the position of the mineralization but which at the east end curves northeastward or as the mineralization trends easterly. There are other conductors on the map, the significance of which is not known. A magnetometer survey would provide much more useful information in so much as the mineralization is quite magnetic.

There is a very strong (1000 ppm Pb and 1000 ppm Zn) anomaly north of the mineralized zone but this simply reflects a normal dispersion downhill from the mineralization.

Conclusions and Recommendations:

It does not seem likely that sufficient tonnage will be developed on this property to make it attractive to Kerr Addison Mines. The only recommendation I am prepared to make at the moment is that we try to keep informed of progress on the property. In this connection we must bear in mind that many other companies have undoubtedly adopted the same position.

A small portion of the total tonnage might be considered available to open pit mining but most of the mineralization would be available to underground approach only. In this location, costs would naturally be very high.

In view of the tonnage limitations and high costs, I am unable to recommend optioning the property at the present time.

W. M. Sirola

W. M. Sirola.

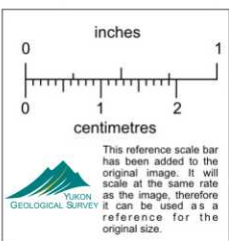
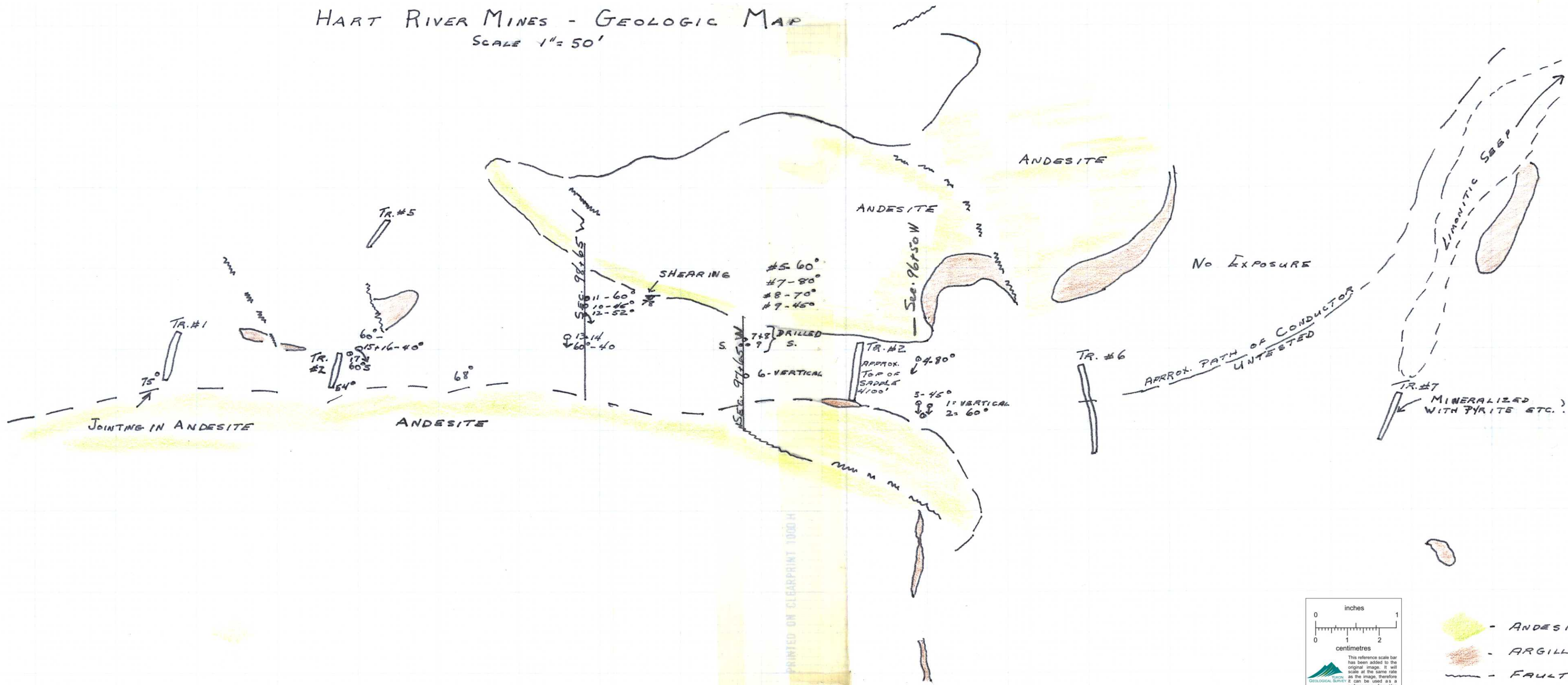
OK
MKS
Aug 5/68

WMS/lk

Encl. - Claim Map - 116A-10
Geologic Map, Scale - 1" = 50'
Three DDH Cross Sections, Scale - 1" = 20'

HART RIVER MINES - GEOLOGIC MAP

SCALE 1" = 50'



- ANDESITE
- ARGILLITE
- FAULT

PRINTED ON CLEARPRINT 1000H

PRINTED ON CLEARPRINT 1000H

SECTION 96+50 W

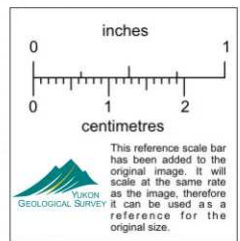
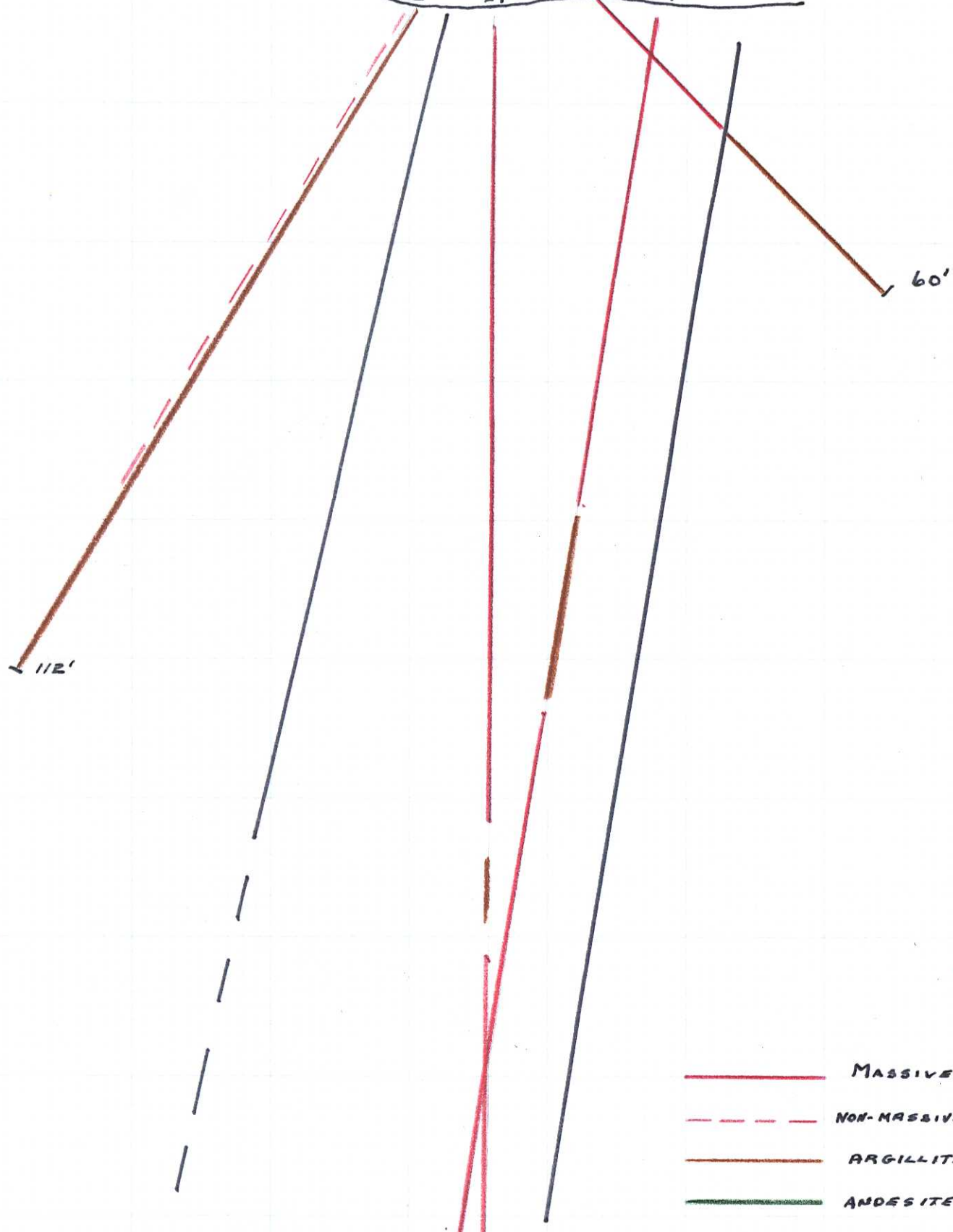
5

SURFACE

N

OVERBURDEN

#2 #1 #3 #4



- MASSIVE SULPHIDES
- - - NON-MASSIVE MINERALIZATION
- ARGILLITES
- ANDESITE

PRINTED ON CLEARPRINT 1000 H

← MASSIVE TO 230'
 ← 294' END OF HOLE
 → MASSIVE TO 240'

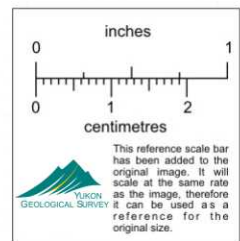
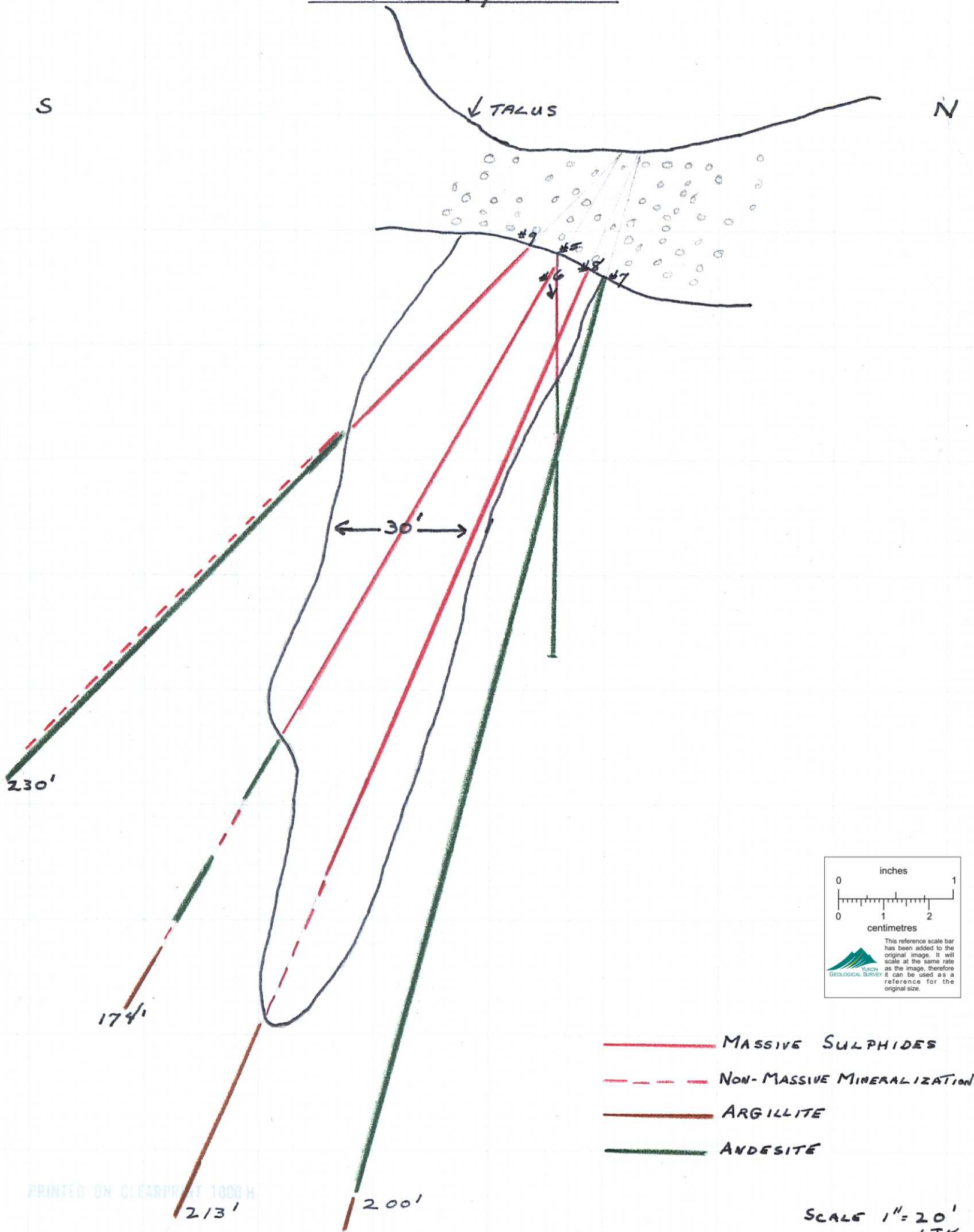
SCALE 1" = 20' LTK

SECTION 97+65 W

S

N

↓ TALUS



- MASSIVE SULPHIDES
- - - NON-MASSIVE MINERALIZATION
- ARGILLITE
- ANDESITE

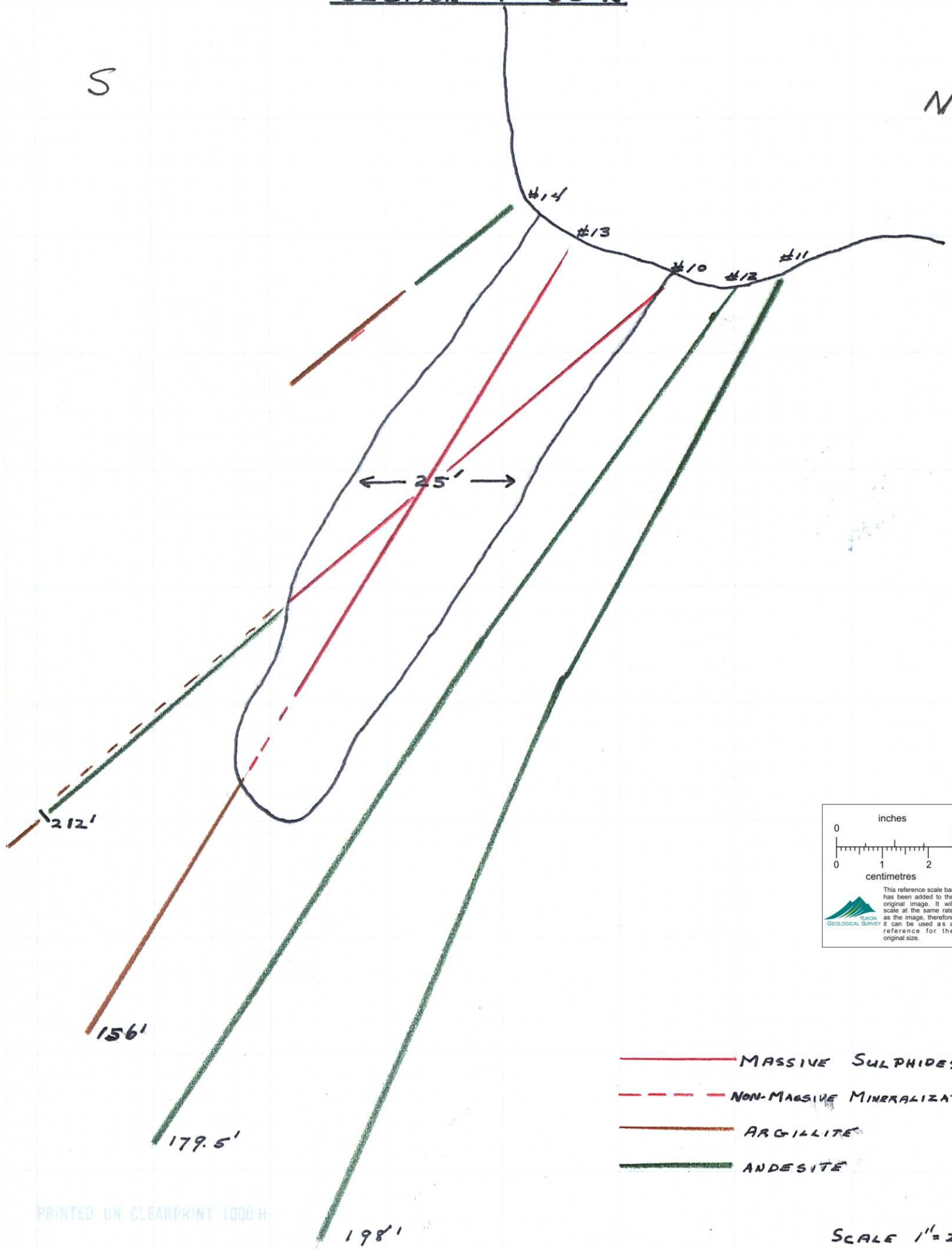
PRINTED ON CLEARPLOT 1000 H

SCALE 1" = 20'
LJK

SECTION 98+65 W

S

N



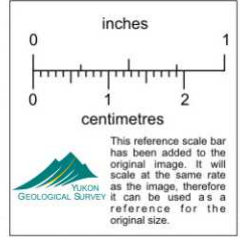
← 25' →

212'

156'

179.5'

198'



- MASSIVE SULPHIDES
- - - NON-MASSIVE MINERALIZATION
- ARGILLITE
- ANDESITE

PRINTED ON CLEARPRINT 1000 H

SCALE 1" = 20'
LJK

NOTICE

THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER ON THE SHEET BEFORE ADEQUATE SURVEYS HAVE BEEN MADE.

Map R. C.S.: *Mark Zebra Linda B 1977*

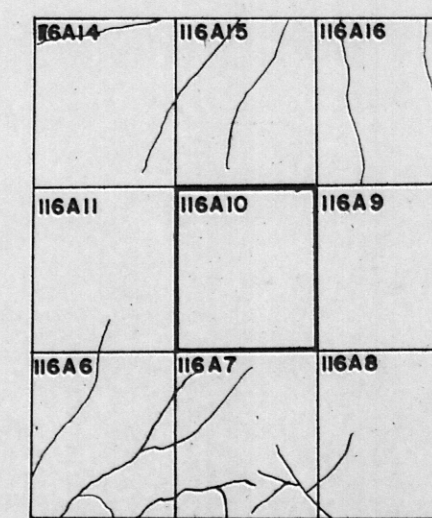
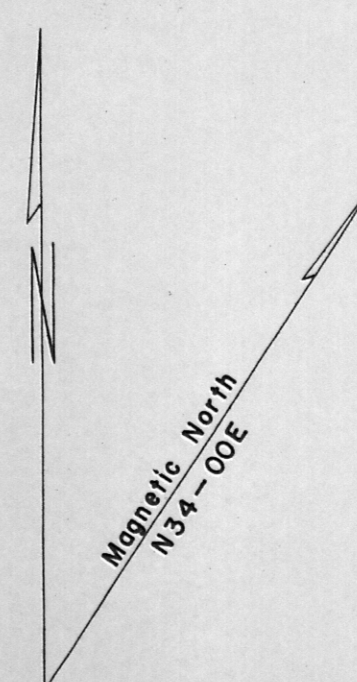
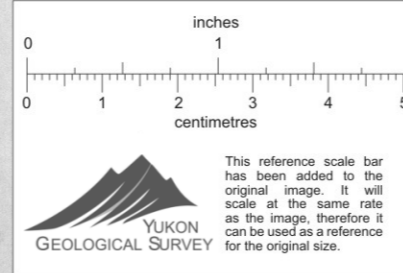
SHEET 116A-10

LATITUDE 64°30' To 64°45'
LONGITUDE 137°00' To 137°05'

CANADA
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
NORTHERN ADMINISTRATION AND LANDS BRANCH
LANDS DIVISION

SCALE 1/2 MILE TO 1 INCH
FT. 1500 0 1500 3000 4500 6000 7500 9000 10500 FT.

ISSUED UNDER THE AUTHORITY OF THE MINISTER OF NORTHERN AFFAIRS AND NATIONAL RESOURCES



WHITEHORSE 29 April 57

28 June 58
28 June 58
11 June 58

2nd Edition

