

GEOCHEMICAL-GEOPHYSICAL

ASSESSMENT REPORT

on the

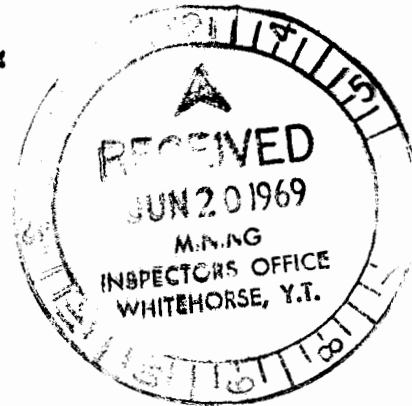
TIZA-WOLF CLAIM GROUP

Whitehorse Mining District

**(YCS #105-D-11)
Latitude: 60°01'N
Longitude: 135°00'W**

by

**ACE R. PARKER & ASSOCIATES LIMITED
MINERAL INDUSTRY CONSULTANTS & CONTRACTORS
Whitehorse, Yukon**



**Work Performed
Between
May 1968
&
July 1968 incl.**

This report has been examined by
the Geological Evaluation Unit
Approved as to technical worth by
D.B. Cray
RESIDENT GEOLOGIST

Approved as to cost in the amount
of \$48,000.00
B.F. Reddon
RESIDENT MINING ENGINEER

Accepted as representation work
under Section 53(4) Yukon Quartz
Mining Act.
[Signature]
YJK

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TIZA-WOLF CLAIM GROUP

ACE R. PARKER

INTRODUCTION

This Report covers geochemical and geophysical surveys conducted to date on the Tiza and a portion of the Wolf Group situated on the Whitehorse Copper Belt, Whitehorse Mining District, Yukon Territory.

The work discussed in this Report was conducted by the management and staff of ACE R. PARKER & ASSOCIATES LIMITED, Mineral Industry Consultants & Contractors, Whitehorse, Yukon at the request of Wolf Creek Mines Limited.

Work completed to date is summarized in this Report and is presented as annual assessment work in compliance with the Yukon Quartz Mining Act.

TIZA-WOLF CLAIM GROUP

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SUMMARY

This Report outlines the methods, results and costs of preliminary geochemical and geophysical exploration conducted during 1968 on the Tiza-Wolf Group of Mineral Claims situated on the Whitehorse Copper Belt in the Yukon Territory.

Picket lines, pace and compass traverses provided control for the work discussed herein.

The results of the various surveys are shown on the attached maps and suggest several areas worthy of additional exploration.

Additional geochemical surveys, bulldozer trenching and subsequent diamond drilling are recommended to assess the economic potential of the property.

TIZA-WOLF CLAIM GROUP

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PROPERTY & OWNERSHIP

The property described by this report consists of 48 contiguous and granted mineral claims which are shown on the attached maps. These claims are recorded in the office of the Mining Recorder, Whitehorse Mining District, Whitehorse, Yukon and are further described as follows:

<u>CLAIM NAME</u>	<u>GRANT NUMBERS</u>	<u>EXPIRY DATE</u>	<u>REGISTERED OWNERS</u>
Tiza #1 to 33 incl.	Y24322 to Y24354 incl.	26 th , April 1968	Wolf Creek Mines Ltd.
Wolf #9 to 14 incl.	Y18718 to Y18723 incl.	23rd, June 1969	Wolf Creek Mines Ltd.
Wolf #25 to 32 incl.	Y18734 to Y18741 incl.	23rd, June 1969	Wolf Creek Mines Ltd.
▲ Wolf #40	Y18749	23rd, June 1969	Wolf Creek Mines Ltd.

Wolf 1-40
(Y 18700)
Jun/67

Tiza 1-33
(Y 24322)
Apr/68

TIZA-WOLF CLAIM GROUP

ACE R. PARKER

LOCATION & ACCESS

The Tiza-Wolf Claim Group, (60°01'N 135°00'W) is situated along the Whitehorse Copper Belt, 14 airmiles southwest of the town of Whitehorse, Yukon west of and immediately adjacent to the Alaska Highway at Mile-Post 917. Currently, bush-roads and foot-trails leading from the Alaska Highway, and along the White Pass & Yukon Railroad provide access to the property.

Whitehorse, Yukon is serviced by the Alaska Highway, scheduled aircraft, and the White Pass and Yukon Route narrow gauge railway which has deep-sea docking facilities at Skagway, Alaska, 111 miles by rail south of Whitehorse, Yukon.

DISCUSSION OF THE SURVEYS

Purpose and Control of the Work

The purpose of the surveys included herein was to provide preliminary exploration of the Tiza-Wolf Claim Group.

Hand-cut grid lines picketed at 100 foot intervals and pace and compass traverses provided control for the work discussed herein. The cut-grid lines are shown on the attached maps and total 9.15 line miles in length.

TIZA-WOLF CLAIM GROUP

ACE R. PARKER

GEOCHEMICAL SURVEY

97 samples of A° horizon soil were collected at 100 foot intervals along grid lines shown on the attached maps. These samples consisted of a 200 gram mass of vegetation-free soil dug from the bottom of 12 inch deep holes with the aid of a mattock. All samples were placed in standard paper sample bags and sent to the Whitehorse Assay Office where they were analysed for copper by employing hot acid extraction and atomic absorption techniques.

The attached map shows the sample locations and the resulting copper values.

Generally speaking, geochemistry for copper did not prove to be very effective in the areas covered by the present grid due to deep overburden.

GEOPHYSICAL SURVEYS

Magnetometer Surveys

A Jalander Electronic Magnetometer Survey was conducted over the same grid lines as those used for the other surveys. The results of the surveys are shown on the attached maps. It is difficult to determine the significance of the results until after some earth work has been completed but susceptibility differences indicate a contact zone between sedimentary limestone and graywackes and granodiorites along which several zones mineralized with magnetite and/or pyrrhotite and possibly copper and molybdenum may be present.

The Jalander Magnetometer consists of a light-weight-hand held instrument which is manufactured in Finland and measures the vertical component of the magnetic field by means of an oil dampened fluxgate. The range of the instrument is 250,000 gammas over five sensitivity ranges with the lowest being 10 gammas per scale division and all requiring conversion factors before gamma values can be determined.

Electromagnetic Surveys

A Ronks EM-16 Geophysical Survey was conducted along the same hand-cut grid lines as those used for the magnetic survey. The results are plotted on the attached maps and suggest several conductive zones worthy of additional exploration. Some of these zones generally coincide with anomalous zones outlined by the Magnetic Survey. Similarly to the magnetic anomalies many of the EM anomalies indicate areas of possible mineralisation but some earth work should be done before this fact can be verified.

TIZA-WOLF CLAIM GROUP

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CONCLUSIONS AND RECOMMENDATIONS

According to recent field work, the Tiza-Wolf Group of Mineral Claims situated on the Whitehorse Copper Belt consists of a series of old sedimentary rocks, primarily limestones and graywackes of the Lewes River and Laberge Series in contact with granodiorite Coast Intrusive rocks.

A very small portion of the property was surveyed with geophysical and geochemical techniques. The geophysical surveys, both Magnetometer and Em suggest the presence of several conductive zones worthy of additional exploration.

The geochemical survey was conducted only along one grid line and did not prove very successful in this limited area due to the depth of overburden but undoubtedly areas exist on the Claims which could be effectively explored with such techniques, including both copper and molybdenum analysis.

All results are shown in the attached maps and future exploration should include copper and molybdenum geochemical surveys, Magnetic and Electromagnetic surveys, all followed by bulldozer trenching and diamond drilling if justified.

TIZA-WOLF CLAIM GROUP

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COSTS

<u>ITEM</u>	<u>COSTS</u>
Line cutting & surveying 9.5 miles @ \$125/lm	\$1,190.00
Ground Magnetic Survey 9.5 miles @ \$100/lm	\$ 950.00
Ground Electromagnetic Survey 9.5 miles @ \$150/lm	\$1,426.00
Geochemical Surveys (Copper & Molly) 1.8 miles @ \$300/lm	\$ 540.00
Engineering Supervision & Transportation	\$ 830.00
<u>TOTAL</u>	<u>\$4,936.00</u>



TIZA-WOLF CLAIM GROUP

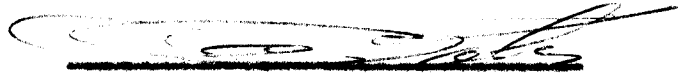
ACE R. PARKER

AFFIDAVIT OF COSTS

I, Ace R. Parker, of the City of Whitehorse, Yukon Territory, do certify that:

1. I am a Consulting Engineer practising under the name and style of ACE R. PARKER & ASSOCIATES LIMITED and have personal knowledge of the matters described herein.

2. To the best of my knowledge and belief, the costs represented in this Report are a true statement of direct expenditures for Assessment Work performed on the Tiza-Wolf Claim Group as outlined by this Report.



Ace R. Parker, P. Eng.

Sworn before me at
Whitehorse in the
Yukon Territory this
19th day of June, 1969



A Commissioner for Taking Oaths
in and for the Yukon Territory.

TIZA-WOLF CLAIM GROUP

ACE R. PARKER

PERSONELL EMPLOYED ON THE PROJECT

<u>NAME</u>	<u>OCCUPATION</u>	<u>FIXED ADDRESS</u>
J. Atchison	Stenographer	Whitehorse, Yukon
M. Currie	Senior Geophysist	Port Loring, Ont.
G. Davies	Geophysical Tech.	Vancouver, B.C.
L. Fox	Exploration Tech.	Vancouver, B.C.
M. Fox	Geophysical Tech.	Vancouver, B.C.
G. Gordon	Exploration Tech.	Whitehorse, Yukon
C. Gover	Geological Tech.	Montreal, Que.
K. Kania	Exploration Tech.	Winlaw, B.C.
R. Landry	Line Cutter	Whitehorse, Yukon
J. Muff	Draftsman	Whitehorse, Yukon
Ace R. Parker	Consulting Eng.	Whitehorse, Yukon
P. Percival	Field Geologist	Whitehorse, Yukon
H. Roy	Line Cutter	Whitehorse, Yukon
R. Savidge	Exploration Tech.	Durango, Colorado

TIZA-WOLF CLAIM GROUP

ACE R. PARKER

C E R T I F I C A T E

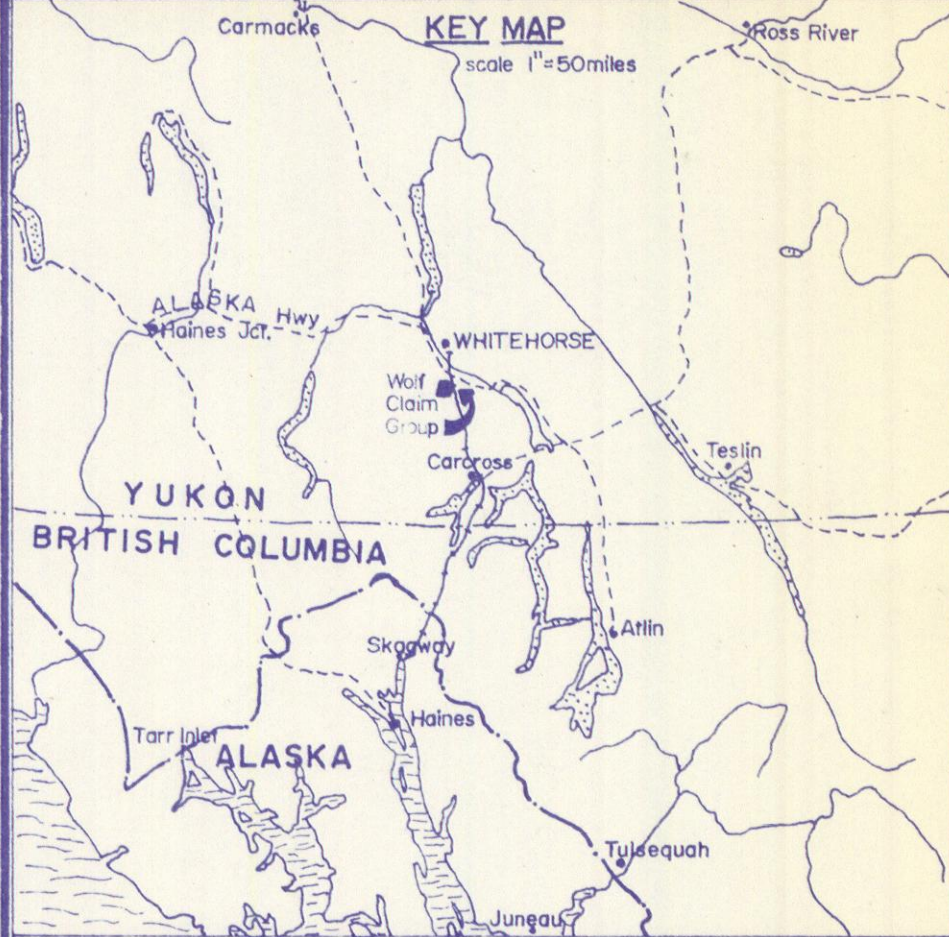
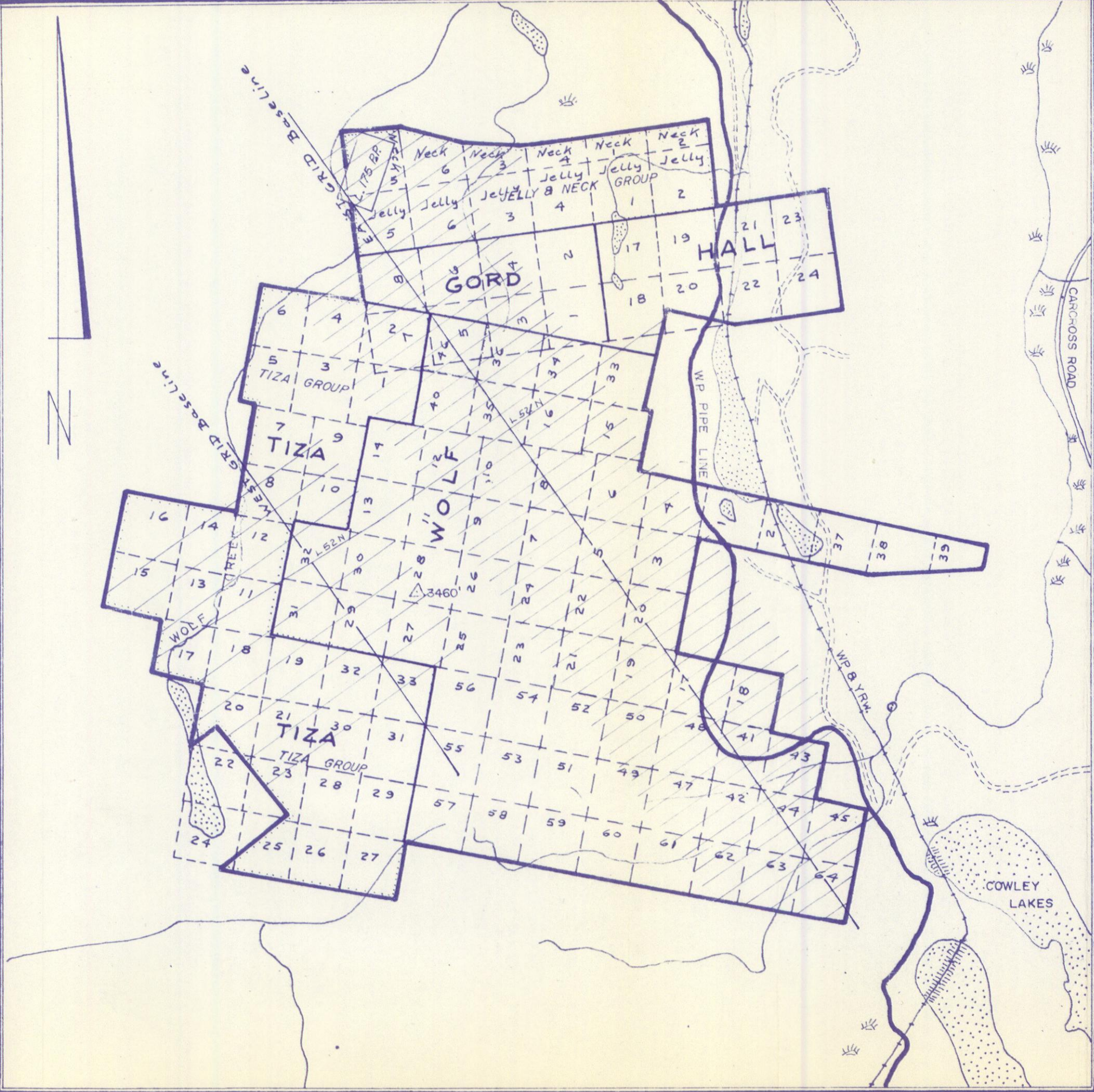
I, Ace R. Parker, of the City of Whitehorse, Yukon Territory, do certify that:

1. I am a Consulting Engineer practising under the name and style of ACE R. PARKER & ASSOCIATES LIMITED with office at 3rd and Elliot Street, Whitehorse, Yukon.
2. I am a Bachelor of Science in Mining Engineering from the College of Earth Sciences and Mineral Industry, University of Alaska, College, Alaska - 1962. I hold a diploma in Mineralogy from the Mineral Science Institute, Chicago, Illinois - 1959.
3. I am a member of the Association of Professional Engineers of Yukon and the Association of Professional Engineers of Alberta. I have been a member of the American Institute of Mining, Metallurgical and Petroleum Engineers since 1954.
4. I have formally practiced my Profession for the past seven years after working in the Mineral Industry since 1953.
5. I have no direct or indirect interest in the Tiza-Wolf Claim Group described in the accompanying Report or in any securities relating to the said property.
6. This Certificate is part of the attached Geochemical-Geophysical Assessment Report on the Tiza-Wolf Claim Group dated May 1st, 1969. The attached property map shows the location of the Tiza-Wolf Claim Group on which the included work was performed.
7. This Report is based on a comprehensive personal study of documents, maps and Reports relating to the surveys described herein, including Reports of the Geological Survey of Canada. The work outlined by this Report was conducted under my supervision.


Ace R. Parker, P. Eng.

Whitehorse, Yukon

May 1st, 1969

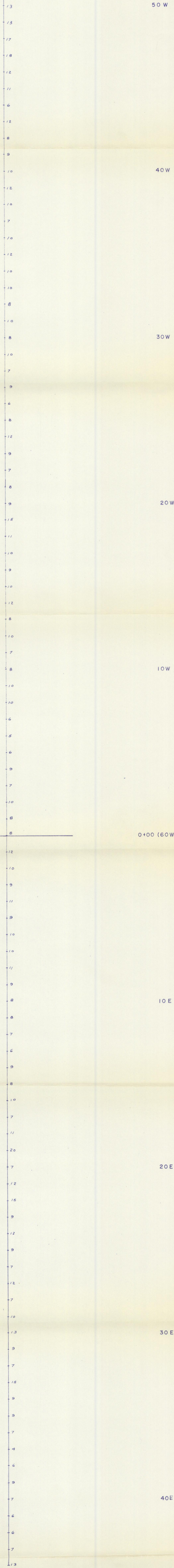


REFERENCE MAP— Location map of B.C.—Yukon Mining Properties (C.of Mines)
 Claim location approximate

WOLF CREEK MINES Ltd.
PROPERTY LOCATION MAP
 of the
"WOLF" CLAIM GROUP

 WHITEHORSE COPPER BELT Y.T.
 WHITEHORSE MINING DISTRICT
ACE R. PARKER & ASSOCIATES Ltd.
Mineral Industry Consultants and Contractors

DATE		SEAL
SCALE	1" = 1/2 mile	
DRAWN	<i>J. Cluff</i>	
DWG. No		



WEST GRID BASELINE

0+00 (60 W)

L 52 + 00 N

LEGEND

ALL VALUES GIVEN IN PARTS PER MILLION
 AVERAGE SAMPLE DEPTH - 12 inches
 ANALYSIS BY HOT ACID EXTRACTION AND ATOMIC ABSORBTION TECHNIQUE

WOLF CREEK MINES LTD.
 TIZA & WOLF CLAIM GROUPS

GEOCHEMICAL - SURVEY
 (COPPER - PLOT)
 L52+00N

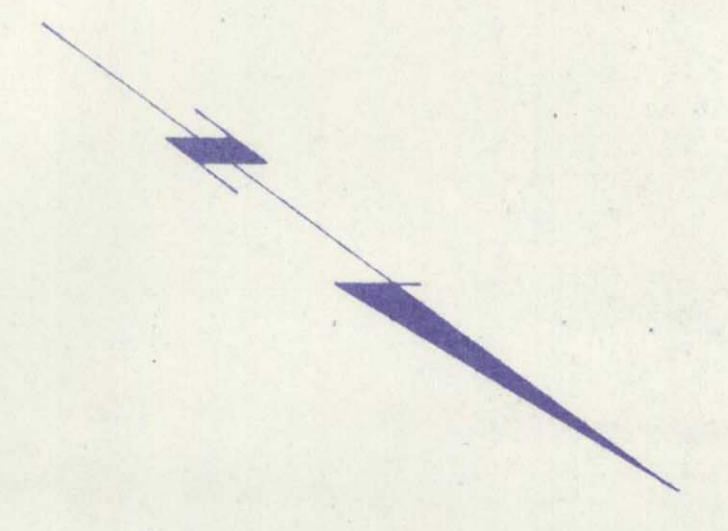
WHITEHORSE MINING DISTRICT

ACE R. PARKER & ASSOCIATES LTD.

MINERAL INDUSTRY CONSULTANTS & CONTRACTORS

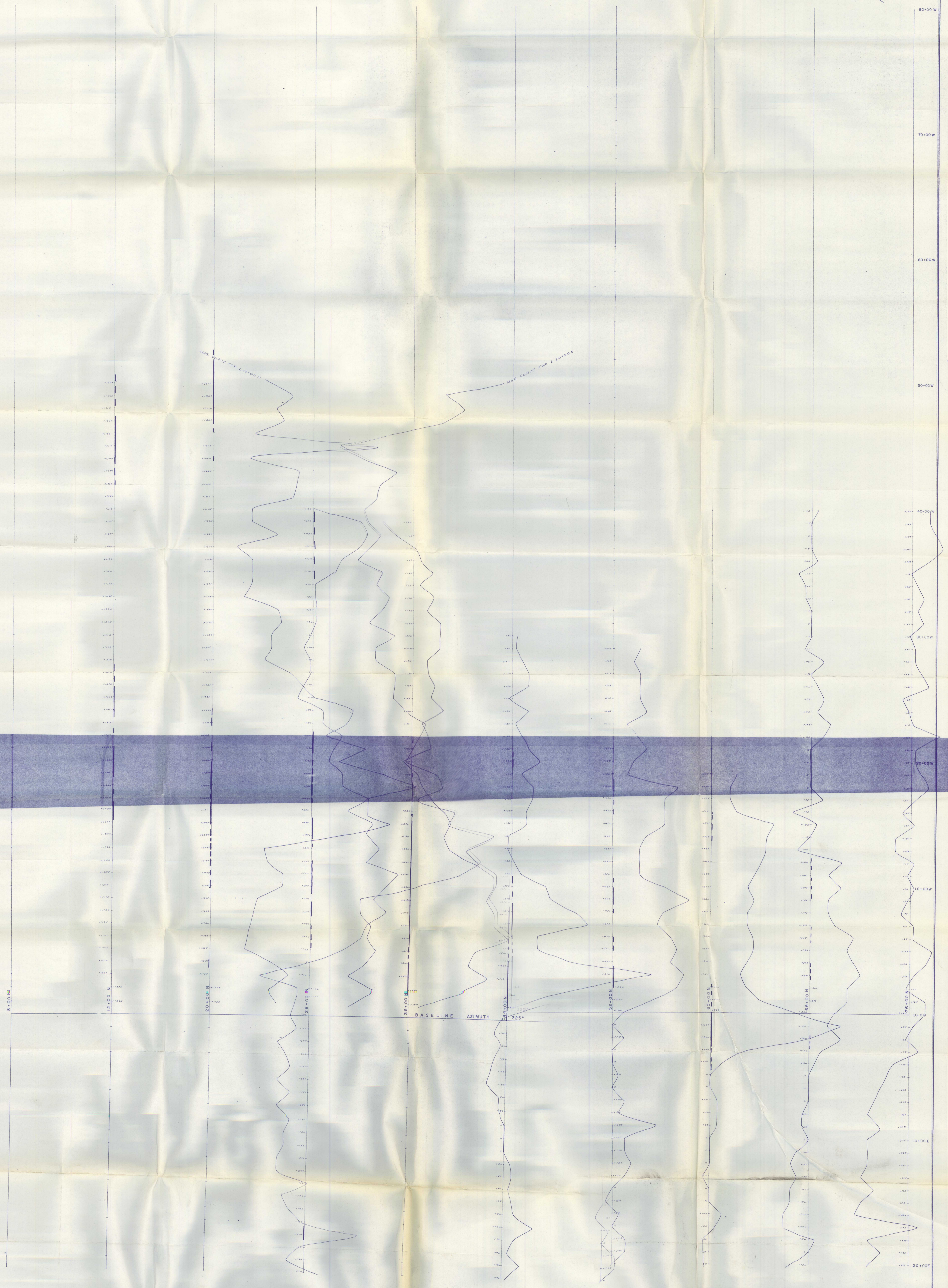
DATE	
SCALE	1" = 200'
DRAWN BY	
DRWG. No.	

SEAL

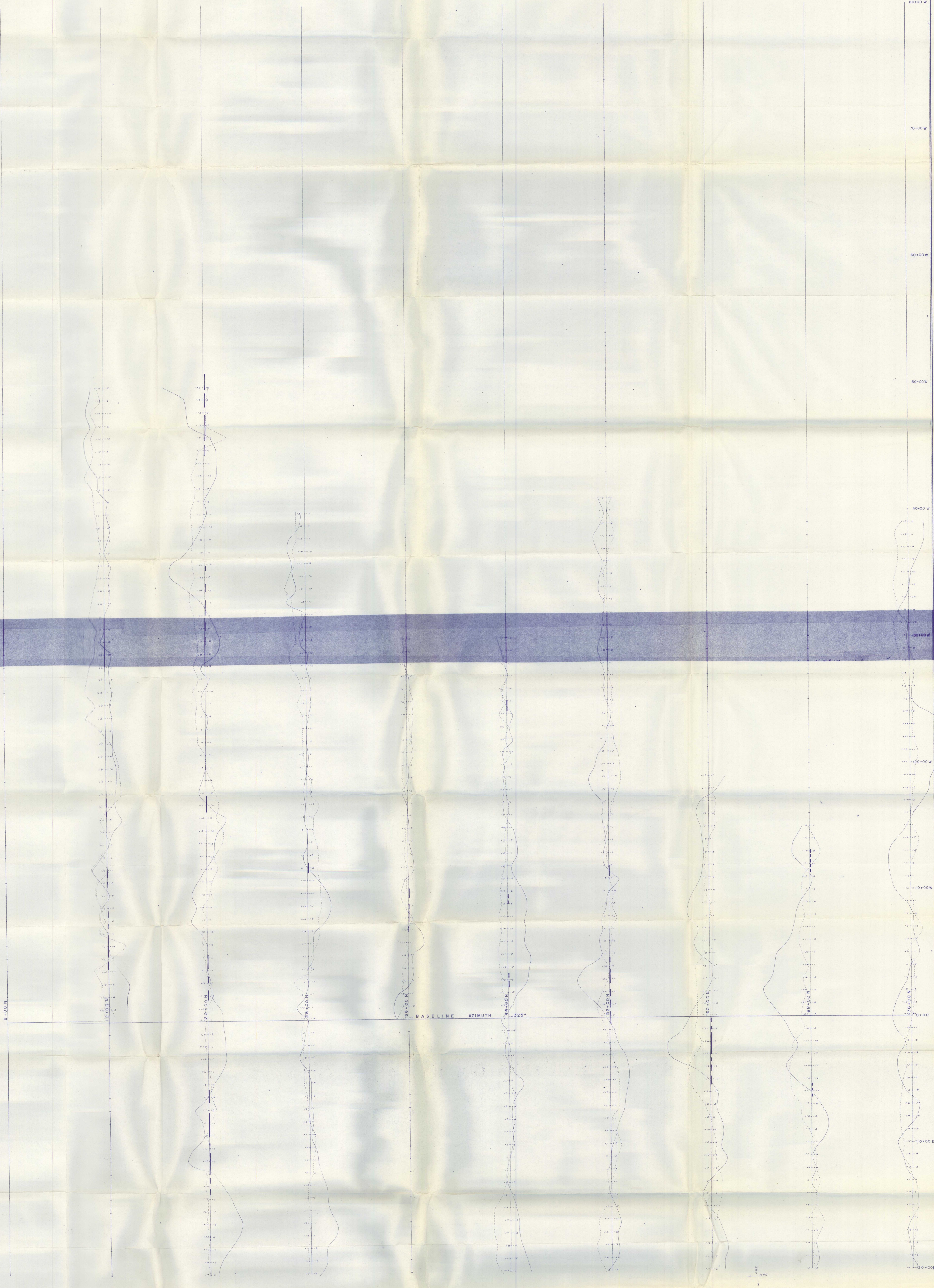
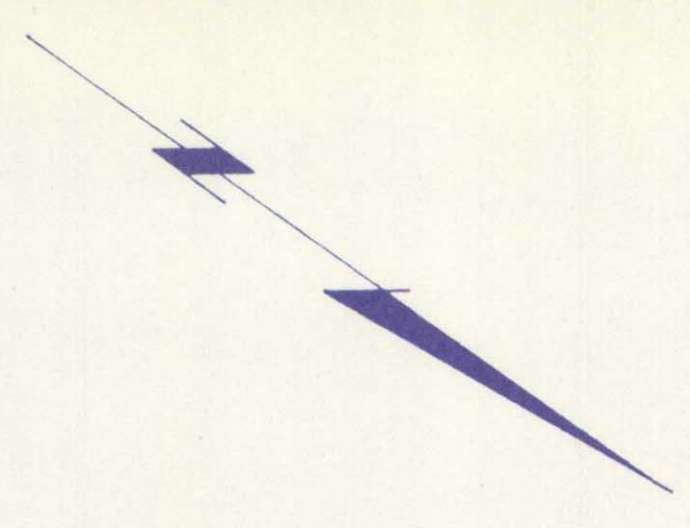


80+00 W
70+00 W
60+00 W
50+00 W
40+00 W
30+00 W
20+00 W
10+00 W
00+00
10+00 E
20+00 E

MAG CURVE FOR L 12400 N
MAG CURVE FOR L 20700 N



LEGEND		WOLF CREEK MINES LTD. TIZA CLAIM GROUP	
INSTRUMENT - JALANDEK MAGNETOMETER NOTE - DUE TO THE NATURE OF THE SURVEY ALL READINGS ARE PLOTTED IN GRAY INK USING THE RESPECTIVE WINDINGS ON A BASE OF 0 - GAMMAS RESULTS ON SCALE - 1" = 200'		GROUND - MAGNETIC GEOPHYSICAL SURVEY	
WHITEHORSE MINING DISTRICT			
ACE R. PARKER & ASSOCIATES LTD. MINERAL INDUSTRY CONSULTANTS & CONTRACTORS			
DATE	SEPT - 2 - '68	SEAL:	
SCALE	1" = 200'		
DRAWN BY	<i>[Handwritten Name]</i>		
DRWG No			



LEGEND		WOLF CREEK MINES LTD. TIZA CLAIM GROUP	
IN PHASE	CONDUCTIVE ZONE	ELECTROMAGNETIC GEOPHYSICAL SURVEY	
OUT OF PHASE	CONDUCTOR SURFACE	WHITEHORSE MINING DISTRICT	
QUADRATURE	CONDUCTOR INFERRED	ACE R. PARKER & ASSOCIATES LTD. MINERAL INDUSTRY CONSULTANTS & CONTRACTORS	
CUT LINE		DATE	SEPT - 1 - '88
IN PHASE		SCALE	1" = 200'
		DRAWN BY	<i>[Signature]</i>
		DRWG No.	

