

2965

REPORT ON INDUCED POLARIZATION SURVEY  
JOINT PROJECT FOR  
NORTHWEST VENTURES LTD., CONSOLIDATED PRUDENTIAL MINES  
MIDLAND PETROLEUMS LTD., KAMLOOPS COPPER CONSOLIDATED

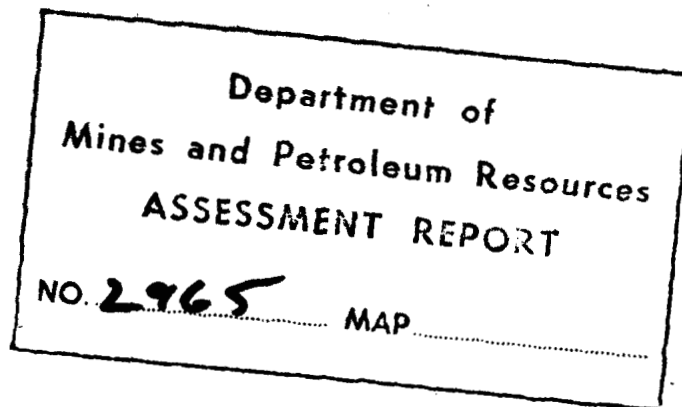
Sun & Mike Claim Group, southwest of Williams Lake, BC  
Latitude  $51^{\circ} 37'N$ , Longitude  $123^{\circ} 14'W$

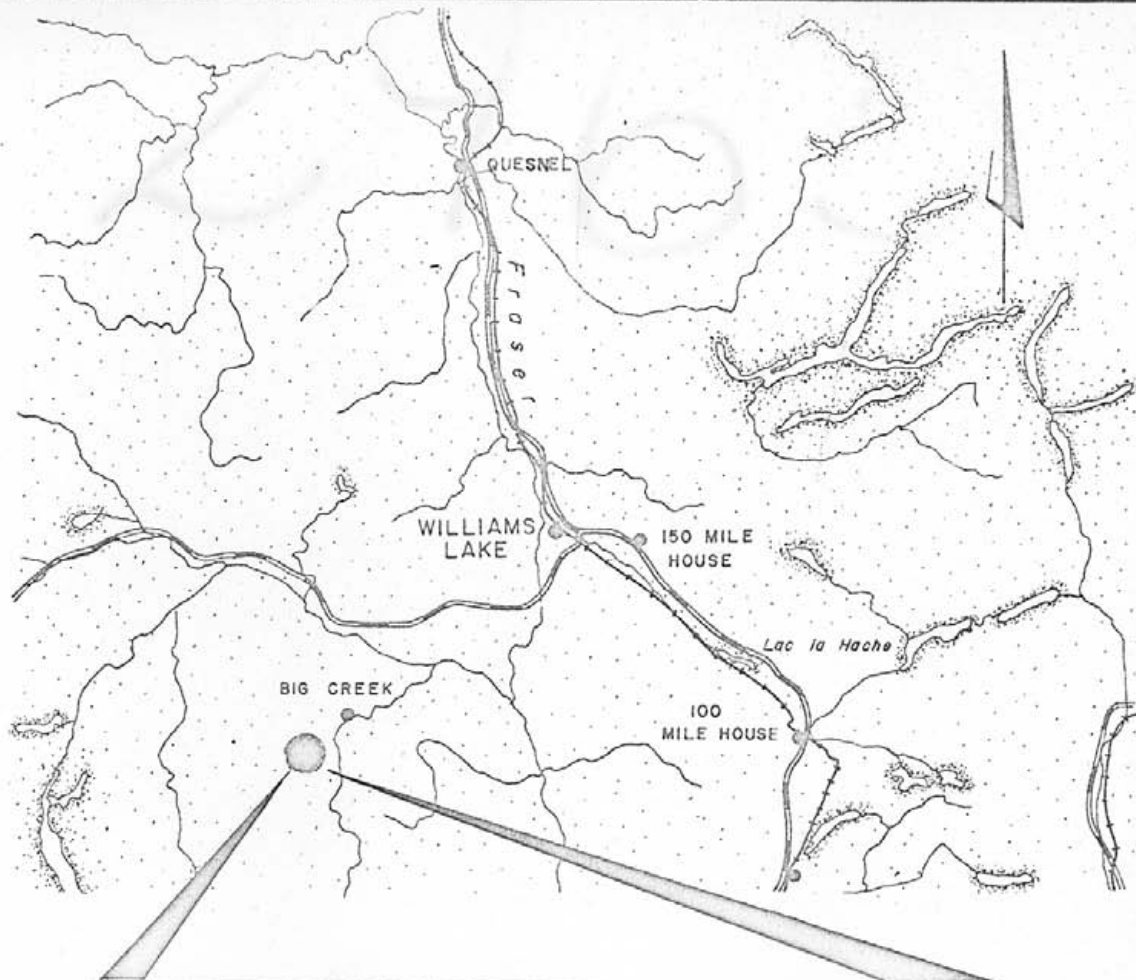
920/11E & W

AUTHOR: G. E. White

P. ENGINEER: W. G. Stevenson

DATE OF WORK: October 4 - November 1, 1970





M48	M47	M2	M1	M35	M36	M37	M38	M39	M40	M41	M42	M43	M44	M45	M46	M47	M48	M49	M50	M51	M52	M53	M54	M55	M56	M57	M58	M59	M60	M61	M62	M63	M64	M65	M66	M67	M68	M69	M70	M71	M72	M73	M74	M75	M76	M77	M78	M79	M80	M81	M82	M83	M84	M85	M86	M87	M88	M89	M90	M91	M92	M93	M94	M95	M96	M97	M98	M99	M100	M101	M102	M103	M104	M105	M106	M107	M108	M109	M110	M111	M112	M113	M114	M115	M116	M117	M118	M119	M120	M121	M122	M123	M124	M125	M126	M127	M128	M129	M130	M131	M132	M133	M134	M135	M136	M137	M138	M139	M140	M141	M142	M143	M144	M145	M146	M147	M148	M149	M150	M151	M152	M153	M154	M155	M156	M157	M158	M159	M160	M161	M162	M163	M164	M165	M166	M167	M168	M169	M170	M171	M172	M173	M174	M175	M176	M177	M178	M179	M180	M181	M182	M183	M184	M185	M186	M187	M188	M189	M190	M191	M192	M193	M194	M195	M196	M197	M198	M199	M200	M201	M202	M203	M204	M205	M206	M207	M208	M209	M210	M211	M212	M213	M214	M215	M216	M217	M218	M219	M220	M221	M222	M223	M224	M225	M226	M227	M228	M229	M230	M231	M232	M233	M234	M235	M236	M237	M238	M239	M240	M241	M242	M243	M244	M245	M246	M247	M248	M249	M250	M251	M252	M253	M254	M255	M256	M257	M258	M259	M260	M261	M262	M263	M264	M265	M266	M267	M268	M269	M270	M271	M272	M273	M274	M275	M276	M277	M278	M279	M280	M281	M282	M283	M284	M285	M286	M287	M288	M289	M290	M291	M292	M293	M294	M295	M296	M297	M298	M299	M300	M301	M302	M303	M304	M305	M306	M307	M308	M309	M310	M311	M312	M313	M314	M315	M316	M317	M318	M319	M320	M321	M322	M323	M324	M325	M326	M327	M328	M329	M330	M331	M332	M333	M334	M335	M336	M337	M338	M339	M340	M341	M342	M343	M344	M345	M346	M347	M348	M349	M350	M351	M352	M353	M354	M355	M356	M357	M358	M359	M360	M361	M362	M363	M364	M365	M366	M367	M368	M369	M370	M371	M372	M373	M374	M375	M376	M377	M378	M379	M380	M381	M382	M383	M384	M385	M386	M387	M388	M389	M390	M391	M392	M393	M394	M395	M396	M397	M398	M399	M400	M401	M402	M403	M404	M405	M406	M407	M408	M409	M410	M411	M412	M413	M414	M415	M416	M417	M418	M419	M420	M421	M422	M423	M424	M425	M426	M427	M428	M429	M430	M431	M432	M433	M434	M435	M436	M437	M438	M439	M440	M441	M442	M443	M444	M445	M446	M447	M448	M449	M450	M451	M452	M453	M454	M455	M456	M457	M458	M459	M460	M461	M462	M463	M464	M465	M466	M467	M468	M469	M470	M471	M472	M473	M474	M475	M476	M477	M478	M479	M480	M481	M482	M483	M484	M485	M486	M487	M488	M489	M490	M491	M492	M493	M494	M495	M496	M497	M498	M499	M500
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**NORTHWEST VENTURES LTD.**  
 JOINT PROJECT  
 MIKE AND SUN CLAIMS  
**LOCATION AND CLAIMS MAP**

SCALE: LOCATION MAP: 1" = 32 MILE - CLAIMS MAP: NTS

**Tri-con**  
 EXPLORATION SURVEYS LTD.

Department of  
 Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
 NO. 2945  
 MAP # 1

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I L L U S T R A T I O N S

Figure 1	Location and Claim Map
Figure 2	Induced Polarization Detail
Figure 5-2	Induced Polarization Chargeability
Figure 5-3	Induced Polarization Resistivity

## INTRODUCTION

During the summer of 1970, Tri-Con Exploration Surveys Ltd. on behalf of Northwest Ventures Ltd., Consolidated Prudential Mines Ltd., Midland Petroleums Ltd. (N.P.L.), and Kamloops Copper Consolidated Ltd., conducted a program of soil sampling and ground magnetometer surveying over the Mike and Sun Claim Groups, Clinton Mining Division, Province of British Columbia. As a result of this work six areas of interest were delineated and recommended to be surveyed by the induced polarization method.

This report describes the induced polarization survey which was completed between October 4, 1970 and November 1, 1970, and discusses the results obtained.

## LOCATION AND ACCESS

The area surveyed as discussed in this report is centered at Latitude  $51^{\circ} 37'$  North and Longitude  $123^{\circ} 14'$  West some 80 miles southwest of the village of Williams Lake, B.C. N.T.S. 92 0

Access to the claim group is along Highway 20 westward to Riske Creek, a distance of some 29 miles, and then southeast for 38 miles to Big Creek. The Night Hawke Lodge road is some 12 miles further southeast and is the access road to the property.

## THE PROPERTY

The Sun and Mike Claim Groups consist of some 240 contiguous mining claims listed as follows:

Sun 1 - 96

Mike 1 - 96

Mike 1 - 48

## SURVEY SPECIFICATIONS

### Survey Grid

The areas surveyed consisted of six individual survey areas within the claim group. The induced polarization survey was conducted along the survey grid established for the geochemical and ground magnetometer surveys which consisted of north-south traverse lines turned off every 500 feet on the west side of the property, and every 700 feet on the east side from three east-west directed baselines. These three baselines

were in turn controlled by a north-south baseline located in the center of the property.

#### The Induced Polarization Survey

The induced polarization survey was conducted with a Hewitt 1KW I.P. transient pulse type unit deployed in the Wenner electrode configuration with an "a" spacing and traverse interval of 200 feet. In the pulse (also known as time domain) method a steady direct current is impressed into the ground for a few seconds, abruptly terminated for a short time (usually equal to the length of pulse time) and then a steady current is impressed in the reverse direction for a few seconds and then abruptly terminated for a few seconds. This is one cycle which can be repeated. A fraction of a second after each cessation of the current pulse the decay voltage is integrated and measured. The current and total integrated primary voltage and total integrated decay voltage are then recorded for the given number of cycles. From these three measurements the chargeability in millivolts/volt and apparent resistivity in ohm-feet are calculated. The values calculated are then plotted at the center position of the array for a given set of readings.

#### DATA PRESENTATION

The induced polarization data has been plotted on the interpretation map of the previous surveys at a horizontal scale of 1"=800 feet as follows:

Figure 5-2 Induced polarization-chargeability-contoured at 3, 6, 9 and 12 mv/v levels.

Figure 5-3 Induced polarization-resistivity-contoured at 200, 300, 400, 500, 700 and 900 ohm-feet levels.

#### DISCUSSION OF RESULTS

In general the resistivity data in the six survey areas showed moderate variations in resistivity indicative of changes in the conductivity of the overburden and in the overburden to bedrock depth.

The induced polarization chargeability data varied from a background of 1.5 millivolts per volt to a high of some 16.6 mv/v. The induced polarization data has been correlated with the previously obtained magnetometer and geochemical data. Each area is discussed individually as follows:

Area No. 1

Two small areas of anomalous chargeability were located. The first is situated near 105W - 70N in a magnetic low area, and the second near 115W - 56N in an area of moderate magnetic intensity. The later chargeability anomaly is also located in an area of low resistivity possibly indicative of deeper overburden conditions. Both chargeability anomalies parallel and occur just upslope on a gentle incline from previously located copper geochemical values.

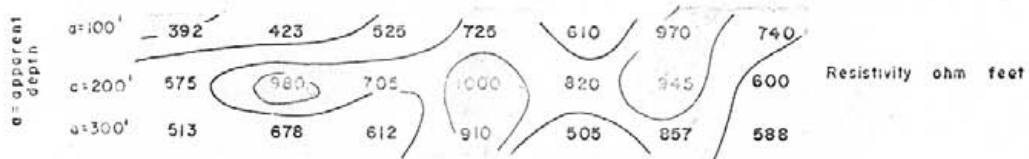
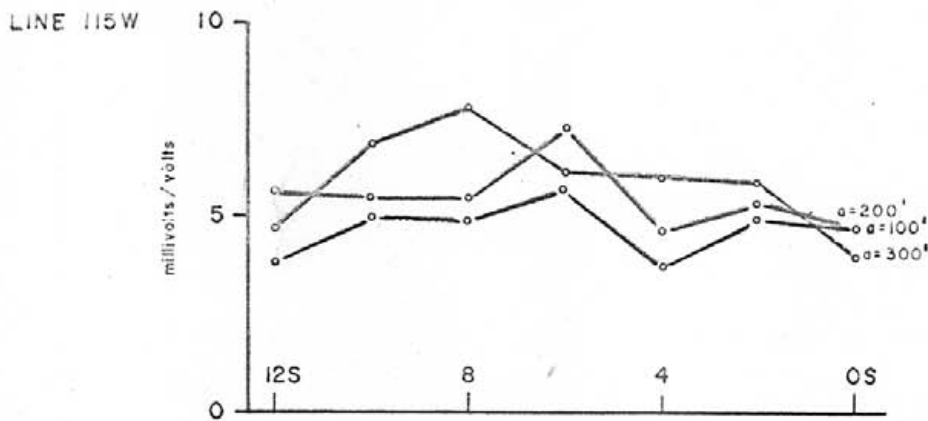
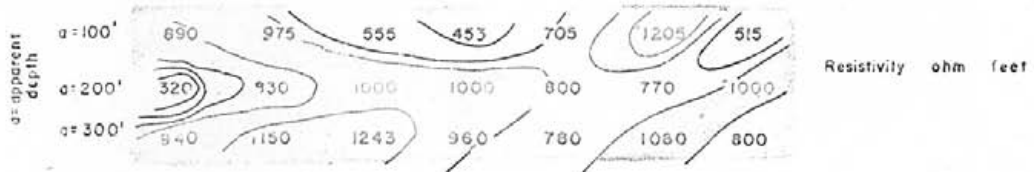
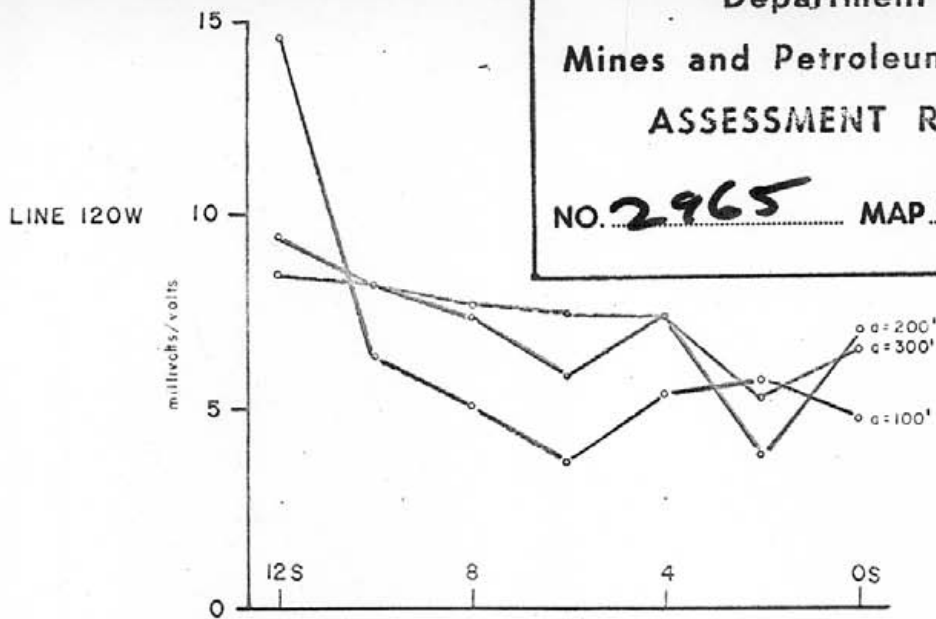
Area No. 2

The high chargeability values located in this area lie primarily in a low magnetic intensity area near a steep magnetic gradient. This steep magnetic gradient is interpreted as reflecting a geological contact between a series of basic volcanic rocks (high magnetic values) and granitic rocks (low magnetic values). The principal chargeability anomaly appears to partially flank the magnetic gradient and is in turn flanked by weak geochemical values.

A small amount of detail induced polarization surveying completed with 100 and 300 foot "a" spacings on lines 115W and 120W is shown in figure 2. The detail on both lines was completed in an area of higher chargeability thus the background of each line is slightly anomalous with respect to the overall chargeability background of the property. The chargeability data on line 120W shows a definite increase in chargeability towards 12S on all three "a" spacings.

The 100 and 200 foot chargeability data on line 115W shows a small but definite peak at 6S while the 300 foot array data indicates a peak at 8S.

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2965 MAP #2



## INDUCED POLARIZATION PROFILES

NORTHWEST VENTURES LTD.  
CONSOLIDATED PRUDENTIAL MINES LTD.  
MIDLAND PETROLEUMS LTD. (N.P.L.)  
KAMLOOPS COPPER CONSOLIDATED LTD.  
JOINT PROJECT ON THE

MIKE AND SUN CLAIM GROUPS - BAMBRICK CREEK AREA

Scale 1" = 400'



EXPLORATION SURVEYS LTD.

FIG. 2

Ken Postma Nov 25, 1970

Area No. 3

Correlation of the chargeability and magnetic intensity data indicates that the chargeability highs lie in an area of low magnetic intensity. The geochemical data on the western side of this survey area indicates that weak copper and zinc values may flank the small induced polarization anomalies. Both the induced polarization and geochemical data appear to be weakly biased in a NE-SW direction parallel to previously interpreted magnetic linears.

Area No. 4

This survey area is located in a broad area of low magnetic intensity previously interpreted as an area of granitic material. The anomalous chargeability values show definite intersecting NE-SW and NW-SE trends which have not been fully defined. Good correlation is obtained with the geochemical data which also shows weak NE-SW and NW-SE copper and zinc trends.

Area No. 5

This area contains several small coincident copper and zinc geochemical anomalies, however, no apparently significant induced polarization anomalies were located.

Area No. 6

The high chargeability values located in this survey area lie on a magnetic plateau of moderate magnetic intensity surrounded by magnetic low areas. Correlation of the induced polarization and geochemical data indicates a direct correlation of the high chargeability values with anomalous geochemical values of copper and zinc. This induced polarization anomaly has not been fully defined by the induced polarization method.

CONCLUSION

Six areas of interest were designated as a result of previous geochemical and ground magnetometer surveys. The induced polarization survey,



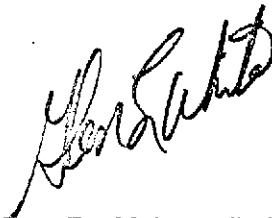
conducted on each of these areas, and discussed in this report, indicated that Areas No. 2, 4 and 6 are of primary interest, Areas No. 1 and 3 are of secondary interest, and in Area No. 5 only weak induced polarization responses were detected. In general the induced polarization responses and the weak geochemical responses appear to be slightly biased in a NE-SW or a NW-SE direction which may possibly indicate a structural control of the causitive bodies.

RECOMMENDATIONS

1. Additional induced polarization surveying to define the located chargeability anomalies, in particular areas No. 4 and 6.
2. A small amount of refraction hammer seismic surveying to evaluate overburden depths.
3. A program of reconnaissance diamond drilling to test the causitive bodies for sulphide mineralization of economic interest, particularly in areas No. 2, 4 and 6.

Respectfully submitted

TRI-CON EXPLORATION SURVEYS LTD.



Glen E. White, B.Sc.  
Chief Geophysicist

STATEMENT OF QUALIFICATIONS

Name: WHITE, Glen E.

Profession: Geophysicist

Education: B.Sc. Geophysics - Geology  
University of British Columbia

Professional Associations: Associate member of Society of Exploration Geophysicists.  
Active member B.C. Society of Mining Geophysicists

Experience: Pre-Graduate experience in Geology-Geochemistry-Geophysics with Anaconda American Brass.

Two years Mining Geophysicist with Sulmac Explorations Ltd. and Airborne Geophysics with Spartan Air Services Ltd.

One year Mining Geophysicist and technical Sales Manager in the Pacific north-west for W. P. McGill and Associates.

Two years Mining Geophysicist and supervisor Airborne and Ground Geophysical Divisions, with Geo-X Surveys Ltd.

Presently Chief Geophysicist Tri-Con Exploration Surveys Ltd.

Active experience in all Geologic provinces of Canada.


C E R T I F I C A T I O N

TO WHOM IT MAY CONCERN:

I, GLEN ELMO WHITE, of the City of Richmond in the Province of British Columbia, hereby certify:

1. That I am a Geophysicist and reside at 112 - 641 Gilbert Road, Richmond, B.C.
2. That I studied Geophysics and Geology and graduated from the Univeristy of British Columbia with the degree of Bachelor of Science.
3. That I have been engaged in Mining Exploration for eight years.
4. That I do not have, nor do I expect to receive, either directly or indirectly, any interest in the property, or in the securities of Northwest Ventures Ltd., Consolidated Prudential Mines Ltd., Midland Petroleums Ltd. (N.P.L.), Kamloops Copper Consolidated Ltd.
5. That this report is based on information derived from an induced polarization survey and previous ground magnetometer and geochemical soil sampling surveys carried out by Tri-Con Exploration Surveys Ltd.

Dated this 25th day of November 19 70.

  
G. E. White, B.Sc.  
Chief Geophysicist

A P P E N D I X

Instrument Specification

INDUCED POLARIZATION

A Instrument

- (a) Type - Transient Pulse Prospecting Equipment
- (b) Make - Hewitt Enterprises 200
- (c) Size - 13½"W x 15½"L x 9½" Deep

B Specifications

- (a) Transmitter
  - (i) 1,000 Watt nickle cadnium battery supply
  - (ii) operation mode 2 seconds on, 2 seconds off, 2 seconds reverse  
4 seconds on, 4 seconds off, 4 seconds reverse
  - (iii) Cycles .5, 1, 2, 3, 4. selected on switch.
  - (iv) Timing - solid state logic circuitry
  - (v) Current Ranges 10, 50, 100, 500, 1,000, 5,000, milliampere
- (b) Receiver
  - (i) Solid State
  - (ii) dV and I.P. solid state memory storage.
  - (iii) dV ranges 10, 50, 100, 1,000, 1,500 millivolts
  - (iv) I.P. ranges .1, .5, 1.0, 5, 10, 15, millivolts
  - (v) Self-potential-direct dial reading from polartometer
  - (vi) A.C. filtering-low pass active filter
  - (vii) Transient delay period .4 seconds
  - (viii) Integrating period 1.2 seconds
  - (ix) Power supply-four 9 volt transistor radio batteries.

C Survey Procedure

- (i) Wenner, pole-dipole or schlumberger array

D Data Presentation

- (i) chargeability percent chargeability in milliseconds or  
millivolts  
voltage
- (ii) Resistivity - ohm - feet
- (iii) Self-potential-millivolts often not used

CERTIFICATE

I, William G. Stevenson, DO HEREBY CERTIFY:

- That I am a Consulting Geological Engineer with offices at Suite 209 Stock Exchange Building, 475 Howe Street, Vancouver 1, B.C.
- That I am a graduate of the University of Utah 1946, with a B.Sc. Degree.
- That I am a registered Professional Engineer in the Association in British Columbia.
- That I have practised my profession for 22 years.
- That I have no direct, indirect or contingent interest in the Sun or Mike Mineral Claims or in the securities of Northwest Ventures Ltd., Consolidated Prudential Mines Ltd., Midland Petroleum Ltd. (N.P.L.), Kamloops Copper Consolidated Ltd., nor do I intend to receive any such interest.
- That I have reviewed a geophysical report dated November 25, 1970 based on work conducted by Tri-Con Exploration Surveys Ltd. under the supervision of Glen E. White, B.Sc., Chief Geophysicist.

DATED at Vancouver, British Columbia, this 26<sup>th</sup> day of November, 1970

W. G. STEVENSON & ASSOCIATES LIMITED  
Consulting Geologists

  
\_\_\_\_\_  
W. G. Stevenson, P. Eng.

#2

#1

N ← 13,800' → S

17,500'

< 1500' X 6,800' >

#4

#3

13,900'

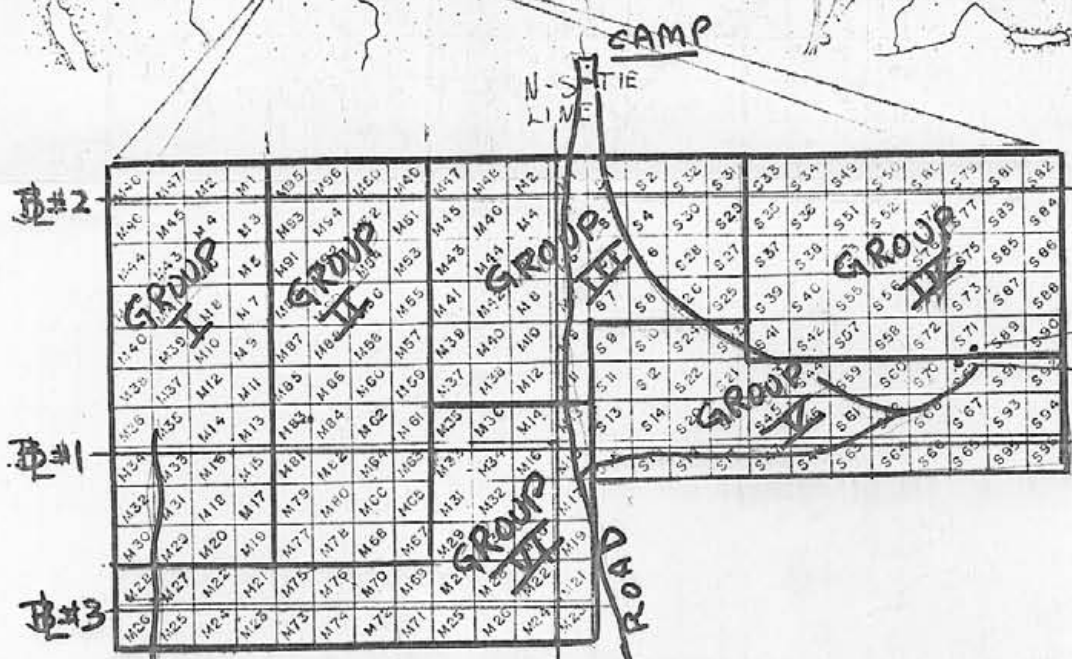
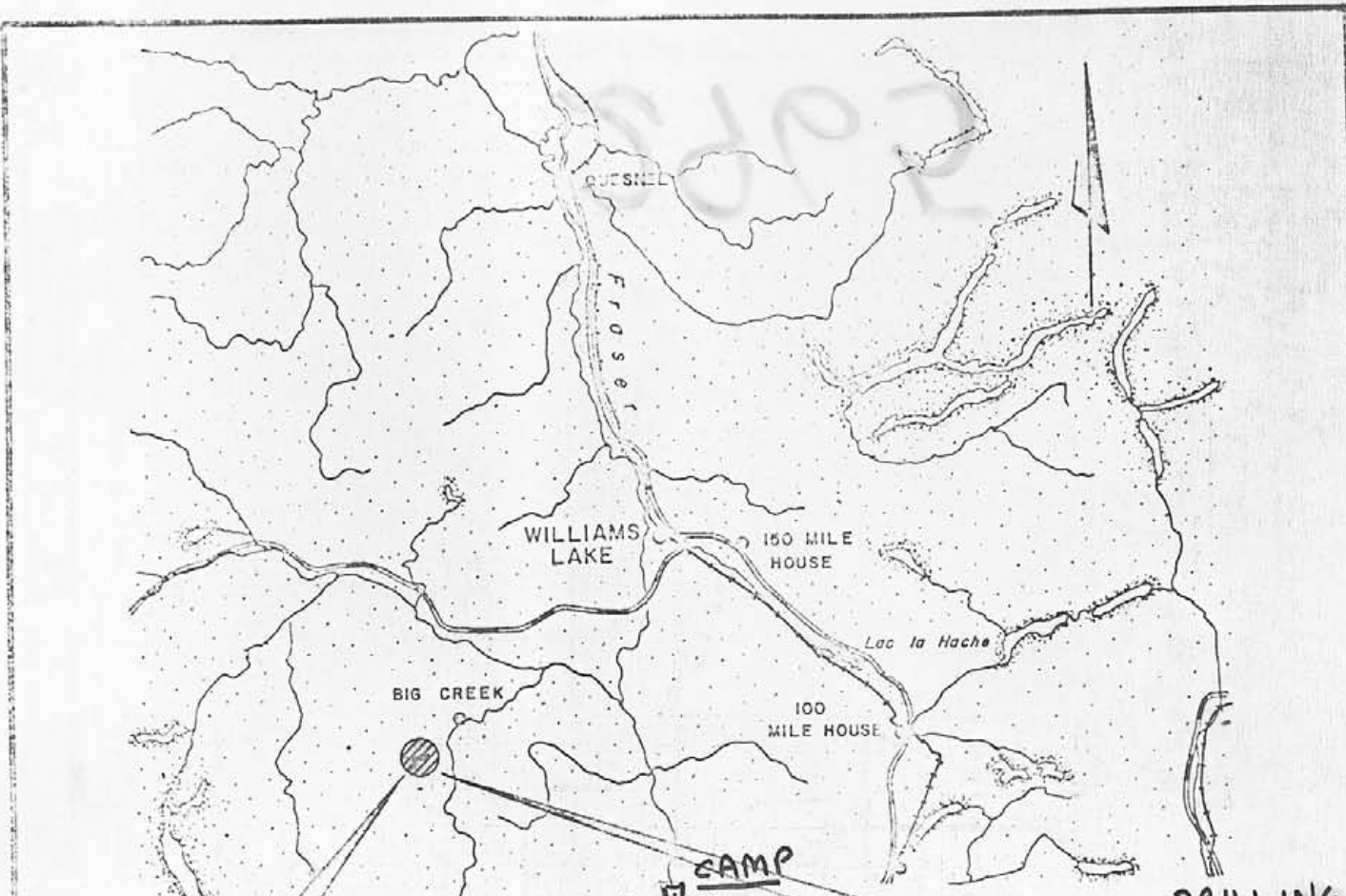
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N.W. VENTURES  
BAMBRICK PROJ

2965

2095

#4



**DRILLING LOCATION**

L-147+00E  
 17+80W  
 -50°N  
 430'  
 CLAIM S-71  
 DD#2

DD #1  
 L-140+00E  
 16+50N  
 -50°N  
 423'  
 CLAIM S69

**NORTHWEST VENTURES LTD.**  
 JOINT PROJECT  
 MIKE AND SUN CLAIMS

**LOCATION AND CLAIMS MAP**

SCALE: LOCATION MAP: 1" = 32 MILE - CLAIMS MAP: NTS

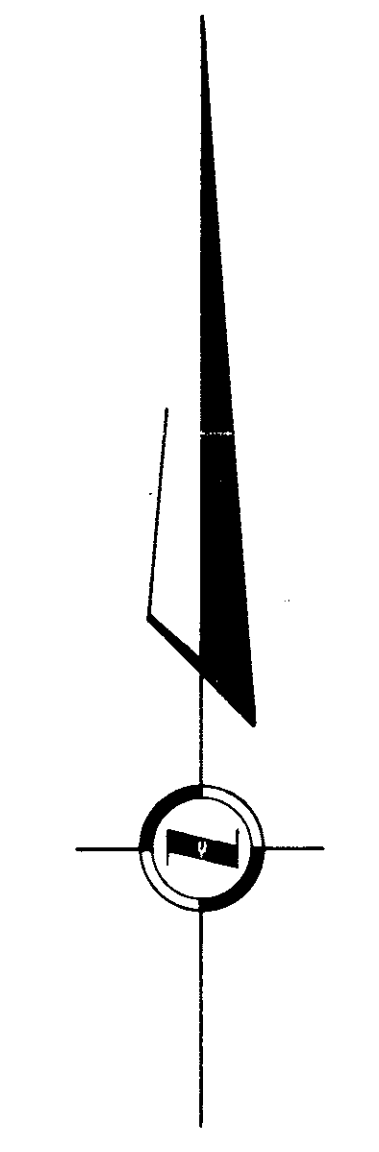
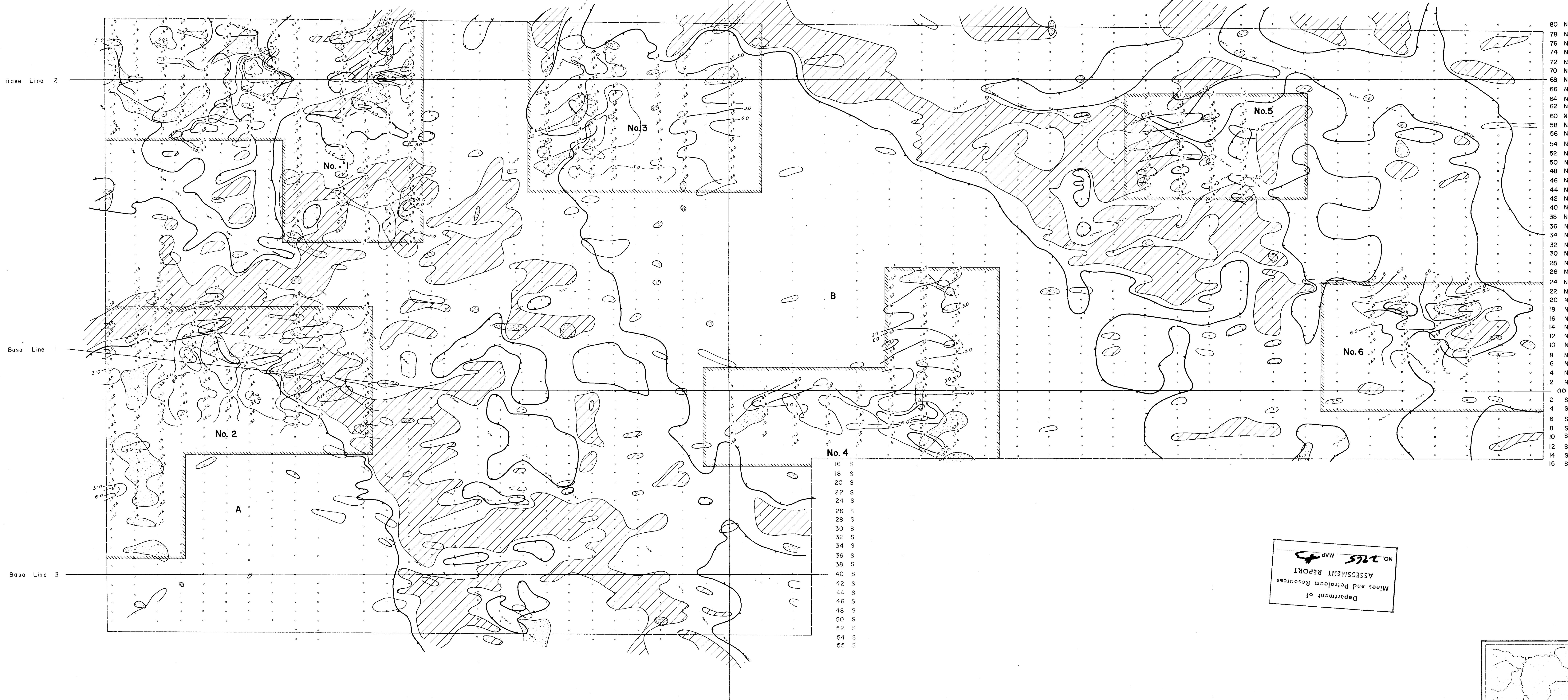
**Tri-con**  
 EXPLORATION SURVEYS LTD.

**2965**

APPENDIX "A"

R.F. STEVENSON Sept. 16, 70

135 W 130 W 125 W 120 W 115 W 110 W 105 W 100 W 95 W 90 W 85 W 80 W 75 W 70 W 65 W 60 W 55 W 50 W 45 W 40 W 35 W 30 W 25 W 20 W 15 W 10 W 5 W Base Line A  
 7 E 14 E 21 E 28 E 35 E 42 E 49 E 56 E 63 E 70 E 77 E 84 E 91 E 98 E 105 E 112 E 119 E 126 E 133 E 140 E 147 E 154 E 161 E 168 E 175 E



80 N  
78 N  
76 N  
74 N  
72 N  
70 N  
68 N  
66 N  
64 N  
62 N  
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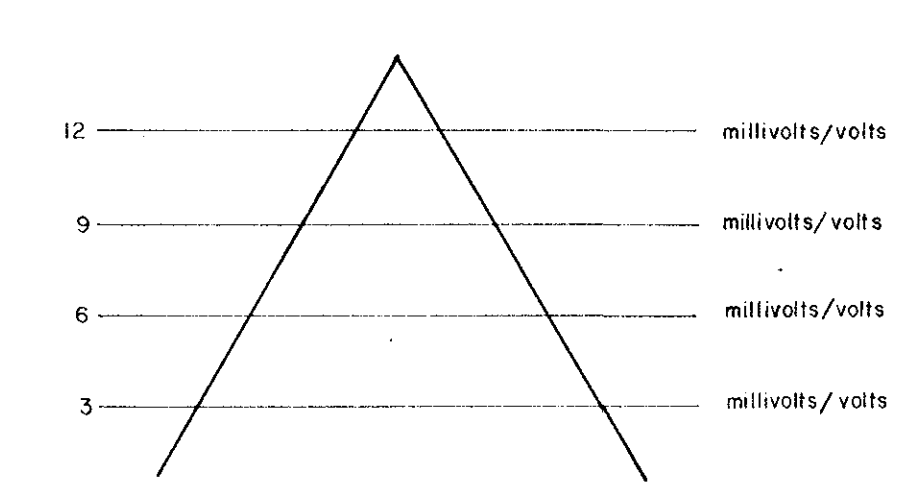
Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2765  
 Map

No. 4  
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26 S  
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30 S  
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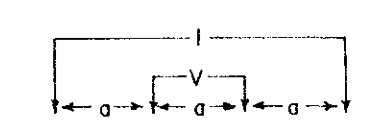
L E G E N D

- Outline of Mike & Sun Claims
- Base Lines
- Magnetic High Trend
- Magnetic Trend
- Copper Greater Than 18 ppm
- Zinc Greater Than 110 ppm
- Areas of Interest
- Infected Faults
- Contour Line Contour interval 3 millivolts/volt

CHARGEABILITY KEY

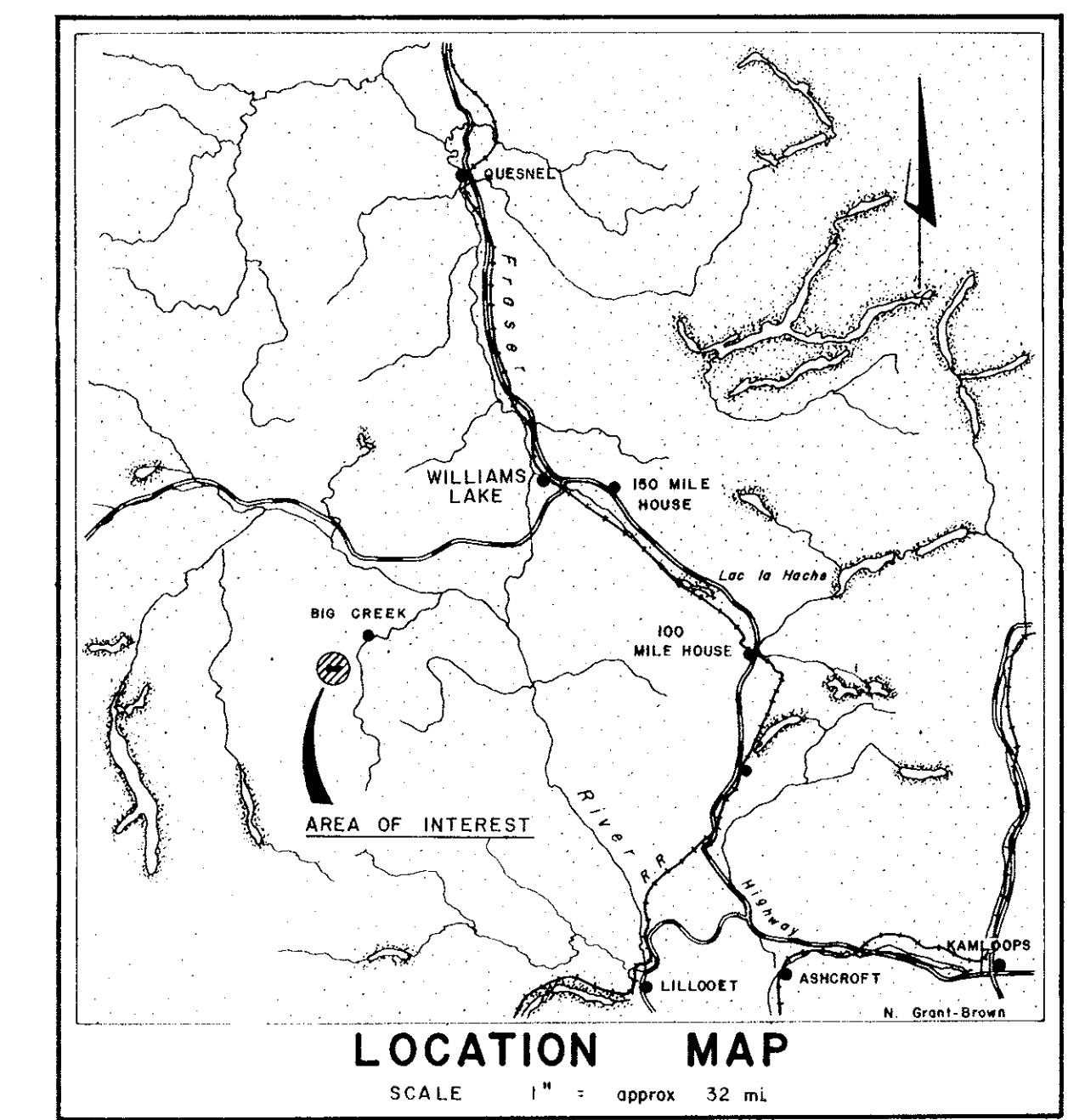


INSTRUMENT HEWITT 200 - 1 KW  
 (Wenner Array - a 200 feet)



NOTE:  
 To Accompany Geophysical Report Dated March 25, 1970  
 On The MIKE and SUN Claim Groups  
 By G.E. White, Chief Geophysicist

2965  
 M-3



SCALE 0 800 1600 2400 FEET

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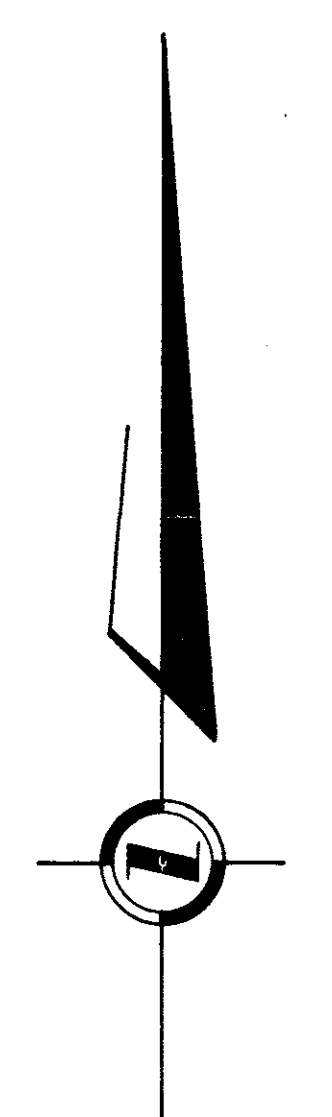
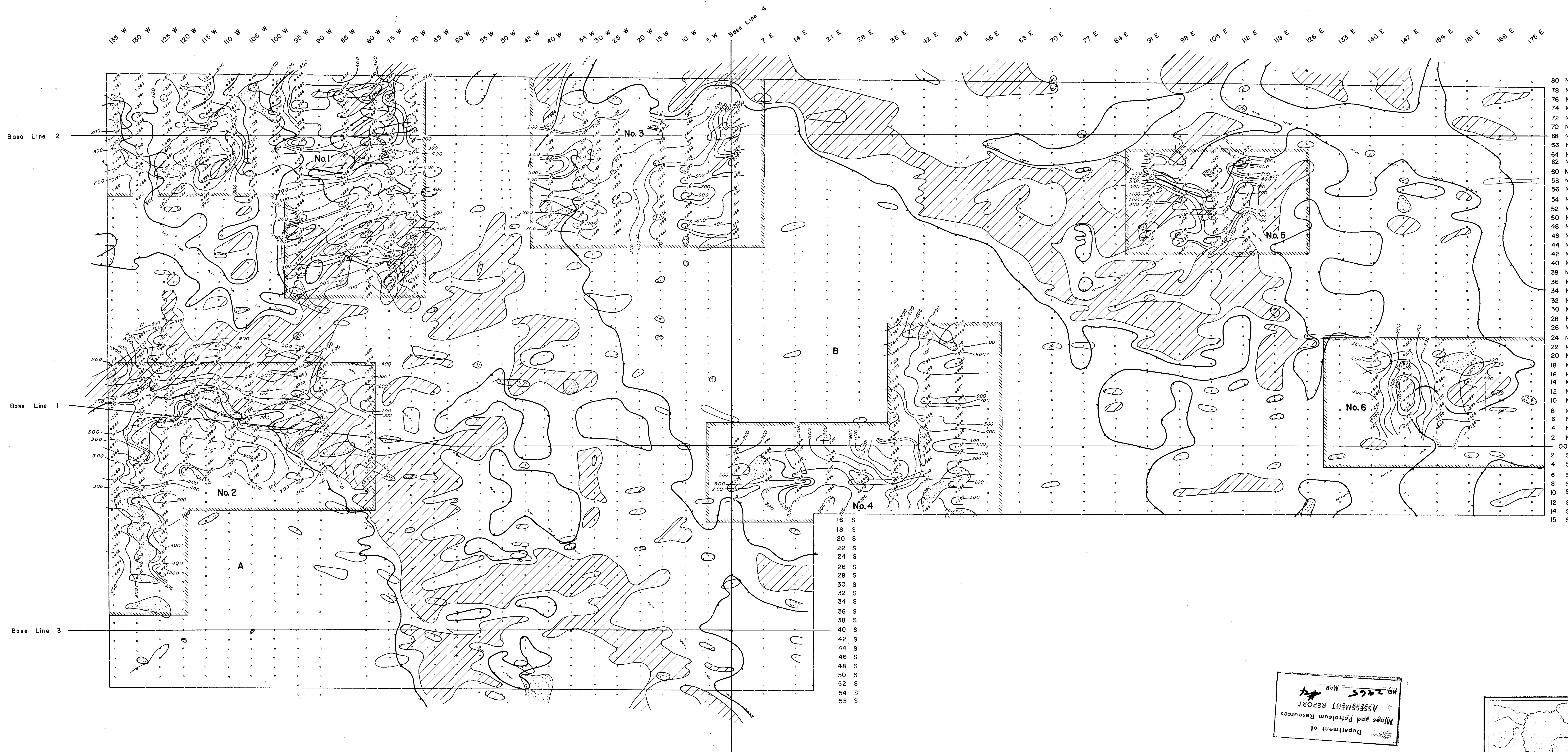
**GEOPHYSICAL AND INTERPRETATION MAP**  
 INDUCED POLARIZATION  
 PERCENT CHARGEABILITY - (millivolts/volts)  
 SCALE 1 inch = 800 Feet

INTERPRETED by: G.E. White  
 Base, N. Great - Brown  
 DRAFTED by: Interp. A.N. Schampier

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Fig. 5-2  
 FILE 511

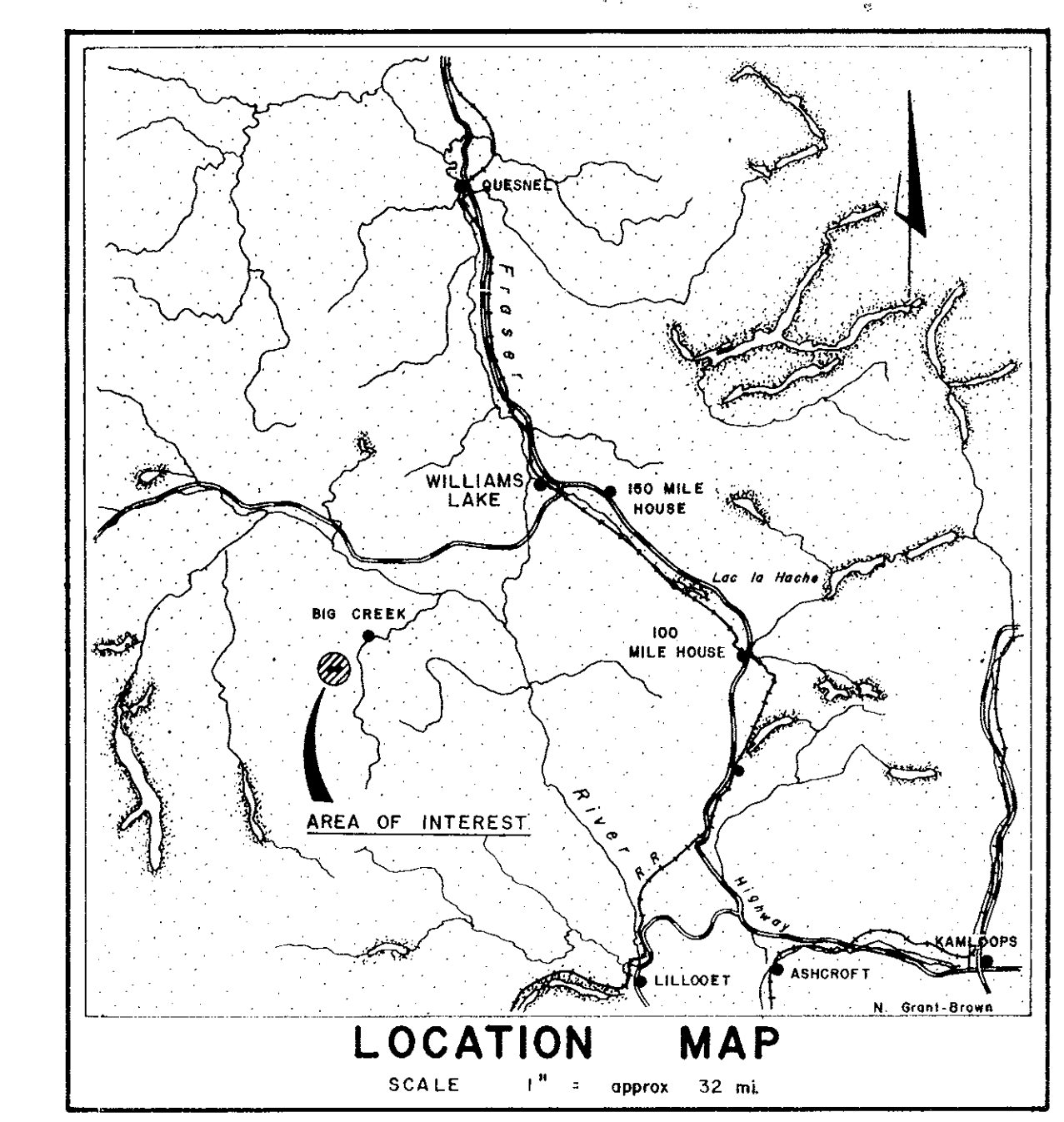




80 N  
78 N  
76 N  
74 N  
72 N  
70 N  
68 N  
66 N  
64 N  
62 N  
60 N  
58 N  
56 N  
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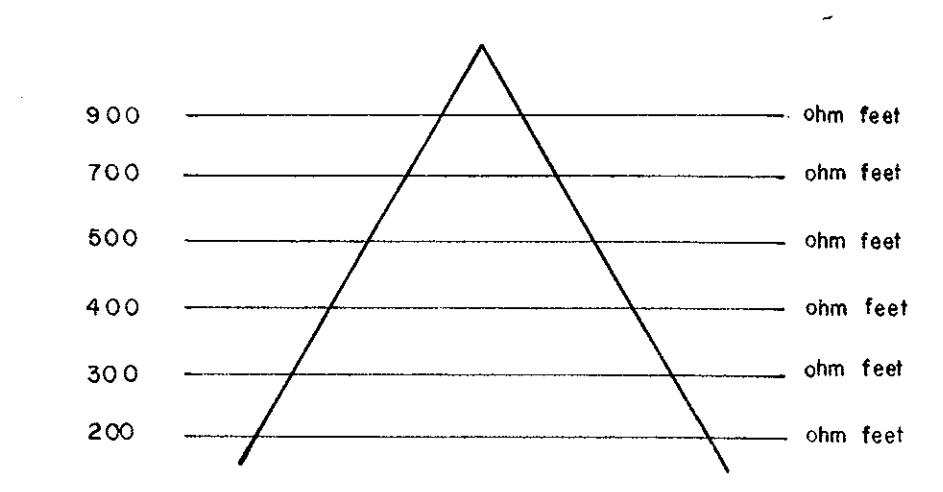
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
No. 2965  
Map



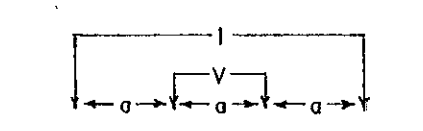
**L E G E N D**

- Outline of Mike & Sun Claims
- Base Lines
- Magnetic High Trend
- Magnetic Trend
- Copper Greater Than 18 ppm
- Zinc Greater Than 110 ppm
- Area of Interest
- Inferred Faults
- Contour Line - Contoured at 200, 300, 400, 500, 700, 900 and 1100 ohm feet

**RESISTIVITY KEY**



INSTRUMENT HEWITT 200-1 KW  
(Wenner Array - a: 200 feet)



NOTE: To Accompany Geophysical Report Dated September 20, 1970 on MIKE and SUN Claim Groups. By: Glen E. White, Chief Geophysicist.

2965

M-4

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**GEOPHYSICAL AND INTERPRETATION MAP**  
INDUCED POLARIZATION - (ohm feet) RESISTIVITY  
SCALE 1 inch = 800 Feet

INTERPRETED by: G.E. White  
Bene, N. Grant - Brown  
DRAFTED by: Interp., A.N. Schampier

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Sep 16, 1970  
REVISED Nov. 25, 1970  
PROJECT No. 110  
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