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REPORT ON

CARIBOO MINELANDS LIMITED PROSPECT

QUESNEL AREA

BRITISH COLUMBIA

FOR

CYPRUS EXPLORATION CORP. LTD.

TORONTO, ONTARIO  
NOVEMBER 28TH, 1968



12/68

ROSS KIDD  
CONSULTING MINING ENGINEER

## INTRODUCTION

THIS REPORT IS A COMPILATION OF DATA DERIVED FROM AN EXAMINATION OF THE PROSPECT ON OCTOBER 29TH, 1968, PLUS ADDITIONAL INFORMATION GAINED FROM REPORTS AND MAPS OF ALRAE ENGINEERING LTD.

## LOCATION AND OWNERSHIP

THE PROSPECT IS LOCATED ON THUNDER CREEK, WHICH IS A TRIBUTARY OF AHBAU CREEK, SOME 16 AIR MILES NNE OF QUESNEL, BRITISH COLUMBIA.

THE SHOWING LIES ABOUT  $1\frac{1}{2}$  MILES ENE OF THE POINT WHERE THE PACIFIC GREAT EASTERN RAIL LINE CROSSES HIGHWAY NO. 2 AND ALSO CROSSES AHBAU CREEK.

A LOCATION MAP ACCOMPANIES THIS REPORT.

THE SHOWING IS REACHED FROM THE PGE LINE, AND FROM HIGHWAY NO. 2, BY A TRACTOR ROAD ABOUT 2 MILES IN LENGTH. A HELIPORT HAS ALSO BEEN CUT OUT NEAR THE SHOWING, AND HELICOPTERS ARE BASED AT PRINCE GEORGE, SOME 48 MILES TO THE NNW.

30 CLAIMS HAVE BEEN STAKED ON THE SHOWING, AND THESE ARE KNOWN AS THE THUNDER CLAIMS 1-24, MIKE CLAIMS 3-6, AND KIM CLAIMS 1 AND 2.

THE 30 CLAIMS ARE HELD BY CARIBOO MINELANDS LIMITED, OF PRINCE GEORGE, B.C. TWO OF THE PRINCIPAL FIGURES IN THIS COMPANY ARE FRANK DENIS AND ALBERT DOIRON, BOTH OF PRINCE GEORGE, B.C.

GENERAL GEOLOGY

THE CLAIMS ARE UNDERLAIN BY ANDESITE FLOWS (AND RELATED TUFFS) OF TRIASSIC AND JURASSIC AGE. THESE ROCKS HAVE BEEN INTRUDED BY LOWER JURASSIC DIORITE AND GRANODIORITE DIKES AND STOCKS.

THE GENERAL GEOLOGY IS SHOWN ON MAP 49-1960 OF THE GEOLOGICAL SURVEY OF CANADA, THE "PRINCE GEORGE" SHEET.

DESCRIPTION OF SHOWINGS

NO. 1 SHOWING IS A SHEARED AND BRECCIATED ZONE ABOUT 20 FEET WIDE. THIS ZONE CONTAINS A 3 FOOT WIDTH OF HEAVY SULFIDES INCLUDING ABOUT 50% PYRITE, 5% PYRRHOTITE, AND SUBSTANTIAL CHALCOPYRITE IN SEAMS AND BLEBS. SMALL AMOUNTS OF A FINE-GRAINED SILVERY MINERAL ALSO ARE NOTED, PERHAPS ARSENOPYRITE OR STIBNITE.

THE SHEAR ZONE STRIKES  $215^{\circ}$  T AND DIPS  $60^{\circ}$  WEST. THE SULFIDE VEIN STAYS CLOSE TO THE HANGING WALL OF THE SHEAR ZONE.

AN AREA ABOUT 130 FEET LONG AND 50 FEET WIDE HAS BEEN BULLDOZED CLEAN OF THE OVERBURDEN COVER, AND THREE SHALLOW ROCK TRENCHES HAVE BEEN PUT DOWN ON THE SULFIDE ZONE, WITHIN THE BULLDOZED AREA. THESE ARE SHOWN ON THE ACCOMPANYING SKETCH AS TRENCHES 1, 2, AND 3.

I TOOK CHIP SAMPLES ACROSS TRENCHES 1 AND 2, WITH THE FOLLOWING RESULTS:

<u>TRENCH 1</u>	<u>GOLD</u>	<u>COPPER</u>	<u>SILVER</u>	<u>WIDTH</u>
	0.18 ozs.	0.38%	0.92 ozs.	3.0 FEET
<u>TRENCH 2</u>				
	0.24 ozs.	0.20%	0.50 ozs.	2.5 FEET

THE SHOWING, AS IT IS KNOWN, HAS A LENGTH OF ABOUT 100 FEET. CONSIDERABLE BULLDOZING HAS BEEN DONE BOTH NORTH AND SOUTH, ALONG STRIKE, WITHOUT FINDING EXTENSIONS TO THIS LENGTH. A STOCK OF DIORITE HAS INTRUDED THE VOLCANICS JUST SOUTH OF THE SOUTHERNMOST EXPOSURE OF THE SULFIDE VEIN, AND IT IS LIKELY THAT THIS DIORITE MARKS THE SOUTH END OF THE SULFIDE-BEARING STRUCTURE. WHILE THE ZONE MAY EXTEND FURTHER NORTH, THIS DOES NOT SEEM LIKELY SINCE THE GEOPHYSICAL RESULTS DO NOT SUGGEST IT, AND THE SURFACE BULLDOZING HAS NOT LOCATED IT.

THREE NARROW (1'-2') PYRITE VEINS, WITH SPARSE CHALCOPYRITE, OCCUR ABOUT 40 FEET WEST OF THE MAIN SHOWING, AND THESE HAVE BEEN EXPOSED BY TRENCHING. A COMPOSITE GRAB SAMPLE FROM THESE ZONES RAN:

	<u>GOLD</u>	<u>COPPER</u>	<u>SILVER</u>
GRAB	0.08 ozs.	0.16%	0.50 ozs.

THE ELEVATION OF THE SHOWING IS ABOUT 3100 FEET.

TWO OTHER SHOWINGS ARE KNOWN, ON THE SLOPES LEADING DOWN TO THUNDER CREEK. THESE ARE BOTH CALCITE VEINS CONTAINING MINOR CHALCOPYRITE, AND WERE NOT EXAMINED EXCEPT AT A DISTANCE.

NO. 2 SHOWING CONSISTS OF PARALLEL NARROW (ABOUT 2") SEAMS OF PYRITE WITHIN A WELL SILICIFIED ANDESITE HOST ROCK. THE SULFIDE SEAMS STRIKE 355° T AND DIP NEAR-VERTICALLY. THE CHALCOPYRITE CONTENT IS UP TO 5% IN ISOLATED PLACES, BUT GENERALLY IT IS QUITE MINOR. THE HOST ROCK CONTAINS PERHAPS 3% PYRITE AND PYRRHOTITE IN FINE-GRAINED DISSEMINATIONS. THE SEAMS OF HEAVY PYRITE ARE WELL SEPARATED, PERHAPS ABOUT 10 FEET ON AVERAGE. A COMPOSITE GRAB SAMPLE FROM TWO OF THE SULFIDE SEAMS RAN:

	<u>GOLD</u>	<u>COPPER</u>	<u>SILVER</u>
GRAB	0.06 ozs.	0.10%	0.90 ozs.

THE SOIL FOR SOME DISTANCE AROUND THE SHOWING IS VERY RUSTY, PRESUMABLY DUE TO THE COMBINED EFFECTS OF THE PYRITE SEAMS AND HOST ROCK SULFIDES. THE LENGTH OF THE GOSSAN AREA IS ABOUT 250 FEET, AND THE WIDTH ABOUT 40 FEET.

#### GEOPHYSICAL TRAVERSES

I RAN SEVERAL ELECTROMAGNETIC TRAVERSES IN THE VICINITY OF THE TWO SHOWINGS, AND ALSO ACROSS THE CLAIMS TO THE WEST OF THE SHOWINGS. THESE ARE SHOWN ON THE SKETCH OF ELECTROMAGNETIC TRAVERSES WHICH ACCOMPANIES THIS REPORT. RONKA EM 16 EQUIPMENT WAS USED, AND TRANSMISSIONS WERE RECEIVED FROM THE JIM CREEK STATION, AT 18.6 KHZ.

THE TWO SHOWINGS WERE ALSO CHECKED FOR RADIOACTIVITY. NO INCREASE ABOVE BACKGROUND WAS NOTED.

A CONDUCTOR WAS FOUND AT NO. 1 SHOWING. IT WAS NOT FOUND ON THE NEXT LINE TO THE NORTH, NOR WAS IT INDICATED ON THE NEXT LINE SOUTH.

A CONDUCTOR WAS ALSO FOUND AT NO. 2 SHOWING, BUT IT DOES NOT FOLLOW THROUGH ON STRIKE 250 FEET TO THE SOUTHEAST.

THREE OTHER CONDUCTORS, SHOWN ON THE SKETCH AS CONDUCTORS "A", "B", AND "C", WERE LOCATED SOME DISTANCE TO THE WEST OF THE SHOWINGS. RUSTY ANDESITE IS EXPOSED AT CONDUCTOR "B".

SOME DEEP BULLDOZING HAS BEEN ATTEMPTED AT THE "C" CONDUCTOR LOCATION, BUT BEDROCK WAS NOT REACHED.

THE "A" CONDUCTOR IS THE STRONGEST CONDUCTOR FOUND WHILE TRAVERSING.

#### PREVIOUS WORK

THE PRESENCE OF CHALCOPYRITE IN THE IMMEDIATE AREA HAS BEEN KNOWN FOR MANY YEARS BY MEMBERS OF THE FAMOUS WELLS PROSPECTING FAMILY OF B.C. NO SIGNIFICANT WORK HAS BEEN DONE UNTIL 1968, HOWEVER.

DURING 1968 CARIBOO MINELANDS LIMITED BULLDOZED A ROAD TO THE SHOWINGS FROM THE NEAREST USABLE GRAVELLED ROAD, AND CUT OR FLAGGED A LINE GRID OVER THE AREA OF INTEREST. THE SHOWING AREAS WERE BULLDOZED AND SOME ROCK TRENCHING DONE.

MR. RAE G. JURY OF ALRAE ENGINEERING LIMITED HAS EXAMINED AND REPORTED ON THE SHOWINGS, AND ALRAE ENGINEERING LTD. HAVE CARRIED OUT GEOCHEMICAL AND MAGNETIC SURVEYS.

COPIES OF THE MAPS COVERING THIS WORK ARE INCLUDED IN COPY NO. 1 OF THIS REPORT. MR. JURY'S REPORT OF OCTOBER 17TH, 1968 IS ALSO INCLUDED.

### CONCLUSIONS

1. BOTH THE NO. 1 AND NO. 2 SHOWINGS ARE OF LIMITED SIZE.
2. COPPER AND SILVER GRADE OF BOTH SHOWINGS IS LOW.
3. GOLD VALUES, HOWEVER, ARE SUBSTANTIAL.
4. THE PROSPECT SHOULD BE REGARDED AS A GOLD PROSPECT.
5. SINCE GOLD OCCURS IN ASSOCIATION WITH HEAVY SULFIDES, AND SINCE THE TWO KNOWN OCCURRENCES ARE CONDUCTIVE, IT IS QUITE CONCEIVABLE THAT CONDUCTORS "A", "B", AND "C" REPRESENT OTHER GOLD-BEARING SULFIDE ZONES.
6. IF THE CLAIMS CAN BE OPTIONED AT SMALL EXPENSE, THEY ARE WORTHY OF INVESTIGATION FOR GOLD DEPOSITS.

### RECOMMENDATIONS

1. THE EXISTING LINE GRID IS NOT A VERY GOOD ONE. A PROPER GRID SHOULD BE CUT BEFORE ANY OTHER WORK IS DONE.
2. ELECTROMAGNETIC WORK, USING RONKA EM 16 EQUIPMENT, SHOULD THEN BE DONE, IN CONJUNCTION WITH FURTHER MAGNETIC WORK.
3. ANY TARGETS FOUND SHOULD BE TRENCHED OR DRILLED.

THE COST ESTIMATE FOR THE INITIAL LINECUTTING AND EM WORK IS ABOUT \$5,000. THE COST OF ANY FOLLOW-UP TRENCHING OR DRILLING IS NOT YET ESTIMABLE.

*Ross Kidd*

TORONTO, ONTARIO  
NOVEMBER 28TH, 1968

ROSS KIDD  
CONSULTING MINING ENGINEER

REFERENCES

CARIBOO MINELANDS LTD.  
THUNDER CREEK PROPERTY  
QUESNEL, B.C.

OCTOBER 17, 1968

BY RAE G. JURY, P.ENG.

MAGNETOMETER SURVEY  
DRAWING NO. 304-1

BY ALRAE ENGINEERING LTD.  
JULY, 1968

MAGNETIC CONTOUR OVERLAY  
DRAWING NO. 304-2

BY ALRAE ENGINEERING LTD.  
JULY, 1968

SOIL SAMPLES  
DRAWING NO. 304-3

BY ALRAE ENGINEERING LTD.  
JULY, 1968

TOPOGRAPHICAL MAP 93G  
"PRINCE GEORGE, B.C."  
1"=4 MI.

BY DEP'T. OF MINES,  
ENERGY, AND RESOURCES,  
OTTAWA, ONTARIO

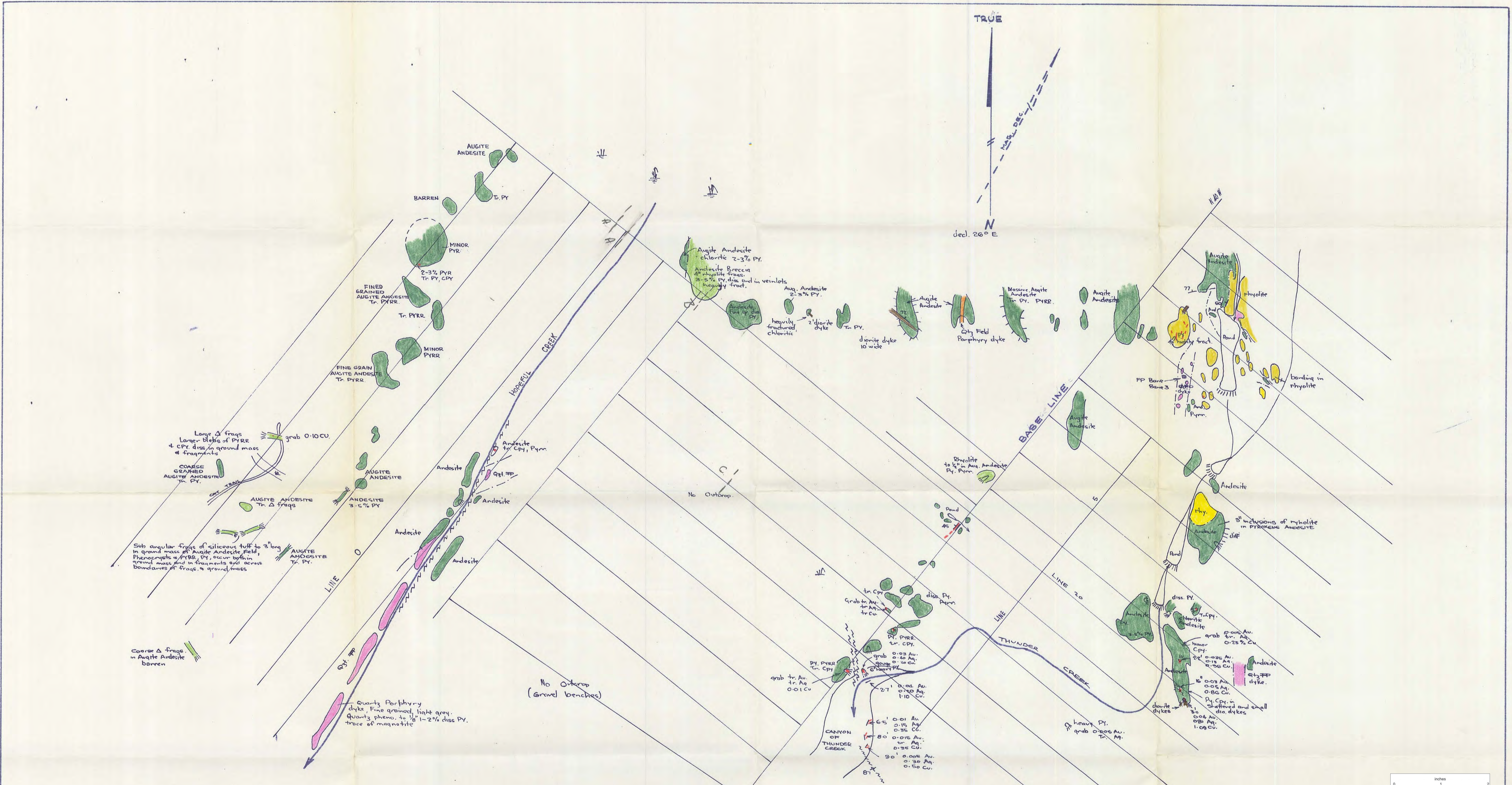
MAP 49-1960- "PRINCE GEORGE"  
1"=4 MI.

GEOLOGICAL SURVEY OF  
CANADA



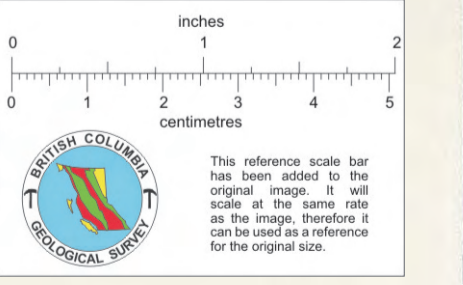
TRUE

decl. 26° E



- SYMBOLS**
- ≡ Bulldozer trench
  - △ Breccia
  - ⊞ Porphyry
  - ⊞ Rock PT BLASTED
  - - - Contact
  - Chalcopyrite

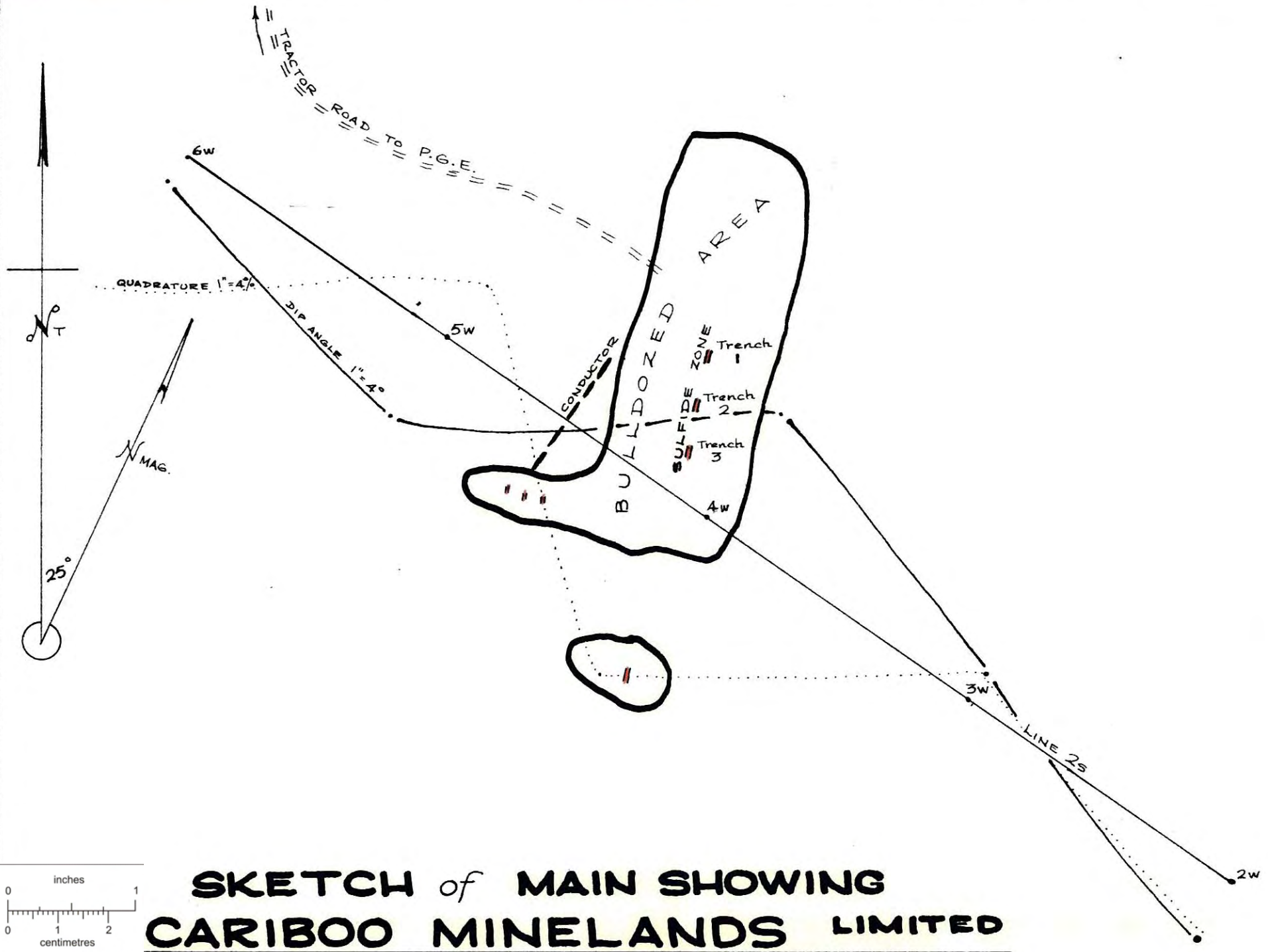
- Legend**
- Quartz, Feldspar Porphyry (Pegmatitic)
  - Quartz Porphyry
  - Diorite (hornblende)
  - Breccia, Rhyolite fragments in Andesite
  - Andesite, Augite Phenocrysts
  - Rhyolite, banded, grey, black, dark red.
- NB. COMPLETE DISTINCTION BETWEEN THESE UNITS HAS NOT BEEN MADE



CARIBOO MINELANDS LTD.  
 QUESNEL PROPERTY  
 PRELIMINARY Geological Sketch

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Scale - - - - 1" = 200'  
 Date - - - - Oct. 1968



# SKETCH of MAIN SHOWING CARIBOO MINELANDS LIMITED

QUESNEL AREA

BRITISH COLUMBIA

Scale: 1 IN. = 40 FT.

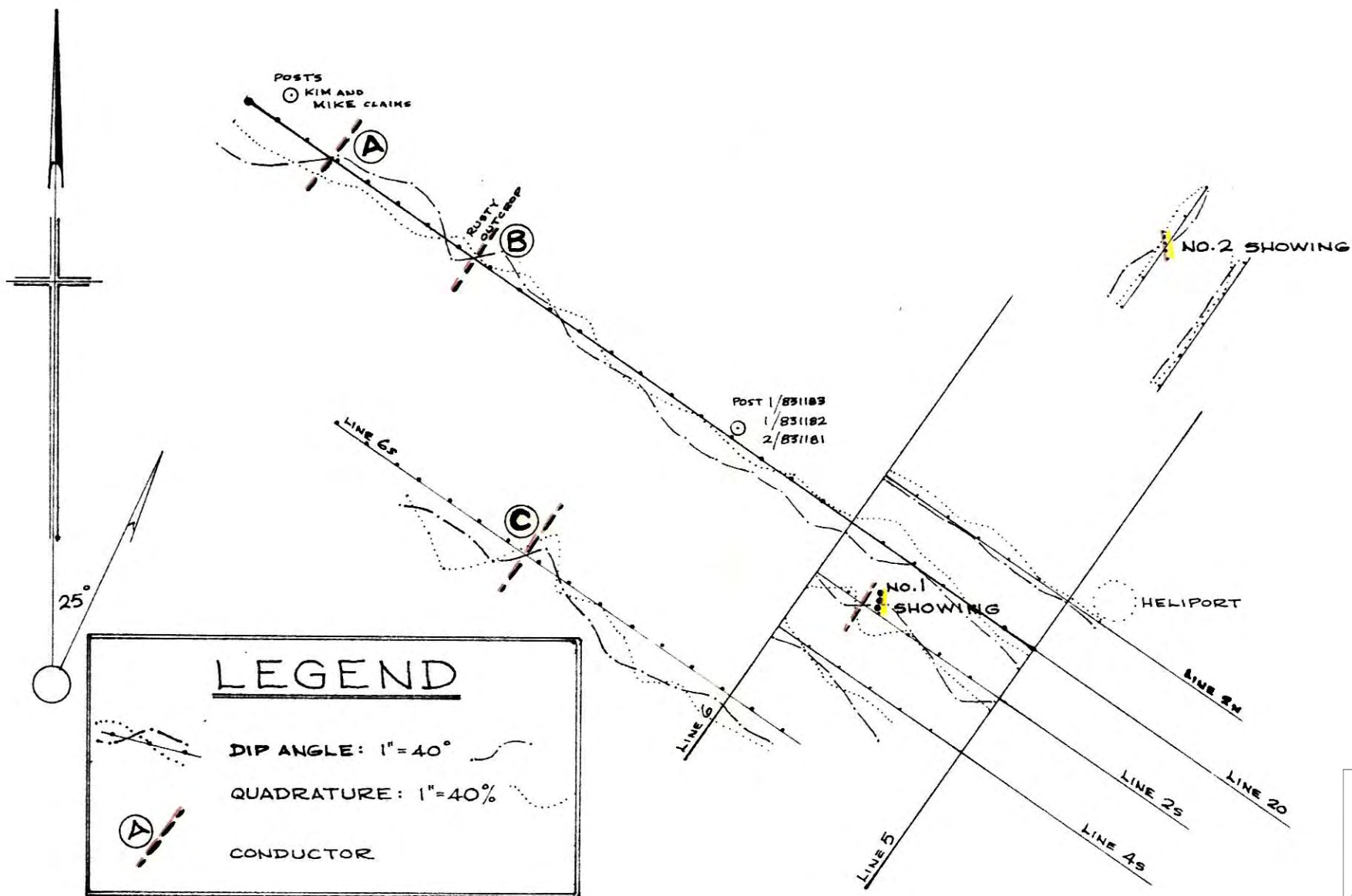
(RONKA EMIG TRAVERSE)

ROSS KIDD

inches  
0 1

centimetres  
0 1 2

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



SKETCH of ELECTROMAGNETIC TRAVERSES (RONKA EM16)  
**CARIBOO MINELANDS LIMITED**

QUESNEL AREA

BRITISH COLUMBIA

NOV. 1968

Scale: 1 IN. = 400 FT.

ROSS KIDD