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BOWSER RESOURCES LIMITED

McBRIDE RIVER,

DEASE LAKE AREA, B.C.

Sept. 16/69

R.H. Seraphim,
Ph. D. P. ENG.

104 I 3

Telephone: Office 685-2914
Res. 224-7309

R. H. SERAPHIM ENGINEERING LIMITED
Geological Engineering

427 — 470 GRANVILLE STREET
VANCOUVER 2, B.C.

BOWSER RESOURCES

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DEASE LAKE AREA B.C.

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TABLE OF CONTENTS

MAPS

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SUMMARY and CONCLUSIONS

The ground held by Bowser Resources does not yet show any areas with defined or anticipated mine-making size and grade. It does show copper mineralization in an attractive environment. The area is, as mapped by the Geological Survey, within the belt of Triassic volcanics and later intrusives which has produced important deposits elsewhere in the area. The copper mineralization observed is associated with feldspathic and epidote alteration, and could be on the fringe of a much larger depcsit or deposits.

Talus and outcrop above timberline are so abundant that visual prospecting should discover the important mineralization there. However 'porphyry' type

deposits are usually found in well fractured rock, and hence subdued topography. The cirque bottoms and broad valleys in the area should be tested in some detail.

RECOMMENDATIONS

Probably the best way to test the low areas initially is through silt sampling in all the drainages, and if the drainages are too widely spaced, then on a broad grid at say roughly 500 ft centers. The geological mapping and prospecting now in progress might provide some indication of areas of major interest. The mapping should be supplemented by a study of fault and fracture patterns determined from the aerial photographs. Any areas which show an unusual density of fractures, and in particular intersecting sets of fractures, should be tested with particular care.

INTRODUCTION

This property was examined at the request of Mr. D. Tully on September 6, 1969. The examination consisted of several short traverses near, and inspections of mineral showings made under the pleasant guidance of Mr. R. Gifford. Helicopter support assisted greatly in permitting examination of the more important showings in a short time.


TANZILLA PLATEAU
KLASTLINE PLATEAU
HOTAILUH PLATEAU
STIKINE RANGE
THREE SISTERS RANGE
KLAPPAN RIVER AT
TANZILLA RIVER
STIKINE RIVER
Grand Canyon of the Stikine
Telegraph Creek
Tahltan
Dease Lake
TATSHO MTN.
TANZILLA BUTTE 5028'
DOME MTN. 6600'
DARK MTN. 6470'
MT. MC LEOD 6053'
MT. RATH 6236'
TUTSINGALE MTN. 5677'
NUTHINAW MTN. 5687'
SNOW PK. 6348'
MT. MEEMAUS 6429'
THENATLODI MTN. 6100'
CAKE HILL 6447'
GLACIAL MTN. 7565'
ZECHTOO MTN. 5847'
THATUE MTN. 6215'
TSAYBAHE PASS
MT. BROCK 6971'
FORD TSENAGLODE MTN.
CARTMEL MTN. 7139'
TSAZIA MTN. 6302'
COOLRIDGE MTN.
MT. POELZER 7117'
TUKTSAYDA MTN. 7468'
BRAHEEZETLE MTN. 6362'
ZAGODDETCHINO MTN. 7499'
MT. GORDON 6624'
EDZIZA PK. 9143'
COCOA CRATER
COFFEE CRATER
ARMADILLO PK.
TSATIA MTN. 7689'
ROUND MTN.
BOWSER
1" = 10 miles

LOCATION and ACCESS (see index map)

The property is in the Stikine Area, about 45 miles southeast of the settlement of Dease Lake. A bulldozer and diesel fuel have been moved into the property on barges up the Stikine River from the Cassiar Stewart Highway. Presumably a road could follow the same route. The region is, however, one of the more isolated in British Columbia.

TOPOGRAPHY

The area is characterized by steep cliffs and talus slopes from timberline at 4500 feet elevation to the ridge tops at about 6500 feet. The abundant rock exposed and talus make these higher elevations easy to prospect visually, and thus it is very doubtful that any mineral showings of important size will be missed there. The valley bottoms are broad, U-shaped from glaciation, and carry a fairly heavy growth of spruce forest and brush.

CLAIMS

The large claim holdings (422 reported) were not investigated and checked in detail. The accompanying map redrafted from a progress map by Mr. Gifford shows some of the claim outline. A print of a

claim map supplied by the company also shows Bowser's claim holdings. Adjoining ground to the east is held by Pelly Mines, and Highland Bell is also reported to hold ground east of Bowser.

HISTORY

The property was originally staked by E. Asp and Associates in 1968, and subsequently vended to Bowser Resources. None of the showings have been explored in detail prior to the current (1969) season. Current work consists of regional mapping and prospecting and hand trenching by a small crew of prospectors. A bulldozer may also be trenching by this time.

REGIONAL GEOLOGY

The area lies within the broad Stikine Arch which hosts a number of porphyry copper deposits of merit. Stikine Copper's (Kennecotts') Galore Creek deposits, the Hecla-Silver Standard Schaft Creek property, and Patino (Lytton Minerals) Gnat Pass are some of the larger known deposits. These deposits are all associated with Mesozoic andesitic volcanics intruded by syenitic plugs and stocks. The copper mineralization is commonly accompanied by widespread feldspathic alteration. Sericite, epidote, silica, pyrite and biotite are also common as associated alteration minerals.

LOCAL GEOLOGY

G.S.C. Map 9, 1957 and Map 29, 1962 show that volcanics of Upper Triassic age (Takla or Nicola) outcrop on the property east of a large quartz monzonite to granitic intrusive. The local geology is currently being mapped on an aerial photograph mosaic. The rock types disclosed on the property are chiefly andesite, with syenitic to dioritic intrusives. The andesites are fairly well bedded, particularly the upper horizons which contain some agglomerate and purple tuff. These volcanics are relatively flat-lying over parts of the property, and dip gently southerly to southeasterly in others.

Most of the mineral occurrences are in the lower volcanics, which are predominantly amygdaloidal andesite flows, and which show little or no indication of attitude other than a streaking of amygdales.

MINERALIZATION

The mineralization found to date is chiefly chalcopyrite, and is associated with feldspathized and epidotized rock along both northeasterly and northwesterly trending fractures. The zones examined range from a few feet to ten or twenty feet wide, and apparently extend for some number of hundreds of feet of length. The

Overlaps Map 9-1957, "Stikine Rive

11 = Upper Triassic undivided

15 - Cassiar Batholith

MAP 29-1962

GEOLOGY

CRY LAKE

BRITISH COLUMBIA

Scale: One Inch to Four Miles = $\frac{1}{253,440}$

Miles

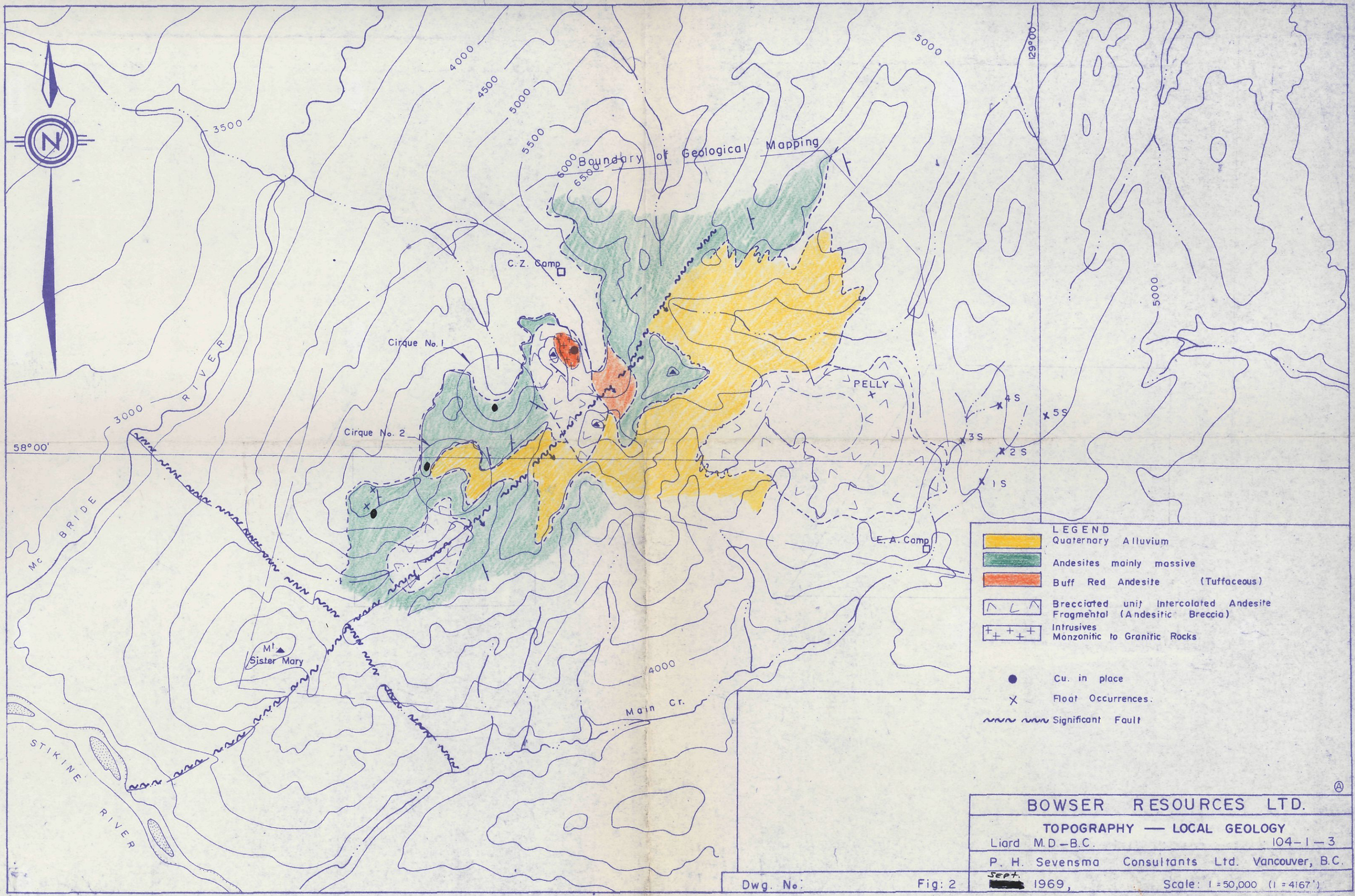
4 2 0 4 8 12

Mean magnetic declination, 30° 23' East, decreasing 3.7' annually. Readings vary from 30° 03'E in the SE corner to 30° 41'E in the NW corner of the map-area.

mineralization in a couple of the zones was sampled for the record, but assays are not yet returned. They are not expected to be economic across the pertaining widths. A few amygdales and irregular flow top blebs of chalcocite were observed in the eastern portion of the claims. These are not recommended as a subject for further exploration.

September 16, 1969.

R.H. Seraphim, Ph.D. P.Eng.


N
3500
4000
4500
5000
5500
6000
6500
Boundary of Geological Mapping
C.Z. Camp
Cirque No. 1
Cirque No. 2
RIVER
3000
58°00'
MC BRIDE
Mt. Sister Mary
4000
Main Cr.
STIKINE RIVER
PELLY
4S
3S
2S
1S
5S
129°00'
5000
E.A. Camp
LEGEND
Quaternary Alluvium
Andesites mainly massive
Buff Red Andesite (Tuffaceous)
Brecciated unit Intercolated Andesite Fragmental (Andesitic Breccia)
Intrusives Monzonitic to Granitic Rocks
Cu. in place
Float Occurrences.
Significant Fault
A
BOWSER RESOURCES LTD.
TOPOGRAPHY — LOCAL GEOLOGY
Liard M.D.—B.C. 104—1—3
P. H. Sevensma Consultants Ltd. Vancouver, B.C.
Sept. 1969,
Scale: 1=50,000 (1=4167')
Dwg. No:
Fig: 2

REGION OF STRONG INTEREST, BLAND TOPOGRAPHY WOODED MARGINAL TO INTRUSIVE ZONE ON-TREND FROM CIRQUE TWO. MINERALIZATION REQUIRES RECCE SOIL SAMPLING AS FIRST STEP.

FRACTION COVERED WITH RAY #1-11 CLAIMS STAKED 5 SEPT 69

ADDITIONAL PROSPECTING REQ'D GOOD LOOKING FISSURE REPLACEMENT IN ANDESITE (CHALCOCITE)

CAMP HELIPORT

COPPER ROCK CUTS

GALENA COPPER OCCURRENCE

FORMATIONAL CONTROL EVIDENT COPPER WITHIN SAME VOLCANIC SUB-UNIT

CAMP HELIPORT

pelly CAMP

ACCESS ROAD TO CONFLUENCE MCBRIDE AND STIKINE RIVER

CHALCOCITE DOMINANT

CHALCOPYRITE DOMINANT

HELIPORT

NATIVE COPPER DOMINANT

SECTOR OF INTRUSIVE ACTIVITY INCLUDES SYENITE DIORITE FELDSPAR PORPHRY HORNFELS & VARIOUSLY FELDSPATHIZED & EPITODIZED HYBRIDS

MT SISTER MARY

STIKINE RIVER

— — SOIL SAMPLING, 200' ON CREEK CONTOUR LINE & BASE LINE

X FLOAT OCCURENCE OF COPPER OF PROBABLE INDEPENDANT SOURCE

● COPPER OCCURANCE

PROPOSED BULLDOZER TRENCH SITES

AREA OF MAIN INTEREST

BOWSER RESOURSES LTD
McBRIDE RIVER AREA

LAIRD M.D.-B.C. 104-1-3 H-14

AUG 1969 1" = 2500'