

5536

92H/8W

GEOPHYSICAL REPORT

ON THE BARB CLAIMS PROPERTY

PRINCETON AREA

SIMILKAMEEN MINING DIVISION

for

V.L. PAULGER,

Lat: 49° 27'

Long: 120° 24'

July 21, 1975  
Vancouver, B.C.

W.G. Timmins, P.Eng.,  
Consulting Geologist

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 5536 MAP

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MAPS

#1 CLAIMS LOCATION MAP

#2 GROUND MAGNETOMETER SURVEY MAP

1" = 200 feet

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SUMMARY

Mr. V.L. Paulger has acquired four contiguous mineral claims located approximately five miles east of the town of Princeton, British Columbia.

The claims are underlain by Nichola volcanic rocks intruded by granodiorite and quartz-porphyry dykes.

A reconnaissance ground magnetometer survey was carried out on the claims during the month of April, 1975.

Two anomalous zones are indicated and further detailed work consisting of geology, magnetics, sampling, trenching and examination of three old adits at an estimated cost of \$2,705.00 is recommended.

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INTRODUCTION

Mr. V. Paulger of 144 Princess Avenue, Chilliwack, has acquired 4 contiguous claims named BARB #1 - #4 incl., located on the east side of Basely Creek, approximately 5 miles east of the town of Princeton.

A ground magnetometer survey was carried out on these claims between April 22nd and April 24th, 1975 by Mr. B. Bried of Kamloops.

Interpretation is based on results of this survey submitted by Mr. V. Paulger as plotted by Mr. B. Bried.

PROPERTY, LOCATION & ACCESS

The property consists of 4 mineral claims as follows:

<u>CLAIM NAME</u>	<u>RECORD NO.</u>
BARB #1	40 604
BARB #2	40 605
BARB #3	40 606
BARB #4	40 607

The property is located approximately 5 miles east of the town of Princeton, B. C. and is accessible by means of B. C. Highway #3 which runs just north of the northern boundary of the claims.

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### HISTORY

The property was originally staked prior to 1908. The Princeton Mining and Development Company acquired these claims and later acquired an additional eleven claims.

Three main adits, several raises and crosscuts were driven as well as considerable surface trenching carried out between 1918 and 1928.

As far as is known, no further work was done until the reconnaissance magnetometer survey completed in April, 1975.

REGIONAL GEOLOGY (Ref: G.S.C. Memoir 243, by H.M.A. Rice, 1960.

Upper Triassic Nicola volcanic rocks are intruded by the Jurassic Coast Intrusive granodiorite batholith.

### GEOLOGY OF THE CLAIMS

The claims are underlain by andesites and agglomerates that have been metamorphosed at their contact with the granodiorite. Both volcanic rocks and granodiorite have been intruded by later dykes of quartz porphyry.

A north-south sheared zone is cutting through the volcanic rocks and chalcopyrite mineralization occurs in association with quartz.

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A dyke of quartz porphyry cuts the shear zone obliquely. Three adits have been established along the shear zone.

#### MAGNETOMETER SURVEY

A ground magnetometer survey was carried out on the BARB claims by Mr. B. Bried between April 22nd, and April 24th, 1975.

Mr. Bried utilized a McPhar fluxgate model M-700 magnetometer (see specifications at rear). Measurements were taken every hundred feet and in some places every 50 feet along flagged and compassed north-south lines, approximately 500 feet apart.

Readings are plotted on the map at a scale of 1" = 200 feet.

#### INTERPRETATION OF MAGNETIC RESULTS

By inspection, background is taken at 300 gammas. A north-south trending zone through BARB # 4 may be indicative of the shear zone cutting the volcanics.

A large zone of high magnetic readings up to as much as 2000 gammas probably reflects a diorite or granodiorite intrusive, possibly containing magnetite and/or sulphide mineralization.

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### CONCLUSIONS & RECOMMENDATIONS

A reconnaissance magnetometer survey has been carried out over the BARB 1-4 mineral claims held by Mr. V. L. Paulger of Chilliwack, B. C.

The geology appears favourable for the deposition of sulphide mineralization, possibly containing concentrations of chalcopyrite.

Two magnetically high zones are indicated, the most obvious anomalous zone occurring in the BARB # 3 and southern portion of BARB # 1 claims.

It is therefore recommended that a more detailed magnetic survey utilizing intermediate lines be implemented, along with detailed geology, sampling, trenching and examination of the old adits.

### ESTIMATED COSTS OF RECOMMENDED PROGRAMME.

1. Linecutting est. 3 miles @ \$150/mi.	\$ 450.00
2. Magnetometer survey est. 3 miles @ \$85/mi.	255.00
3. Detailed geology and examination of old adits	1,000.00
4. Trenching and sampling	<u>1,000.00</u>
TOTAL ESTIMATED COST	\$2,705.00

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**D. GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL (Includes line cutting)**  
 (State type of work)

	COST
Lines @ 400' spacing, marking stations - 4000	\$ 100.00
Mag survey, readings over 400'	300.00
interpretation of chart (to follow)	200.00
Biological mapping	200.00
Travel, fuel etc	100.00
<b>TOTAL</b>	<b>900.00</b>

I wish to apply \$ 800.00 of this work to the claims listed below.  
 (State number of years to be applied to each claim and its month of record)

1 year to each of the  
Barb 1-4 inclusive - A Hobart - 40607 inclusive

NOTE--Dollar value of work done under A, B, C, or D sections, totalling \$200, may be applied as one year's work.

Who paid for the above-described work? . . .

Name Verden L. Paulsen & Pochinsky Dev. Ltd.  
 Address 297 Lat. Bridge, Box 704, 744 L. Hastings  
Hambleys, B. C. VANCOUVER

If you intend to claim a refund of cash in lieu under the provisions of the Mineral Act, you must make application on this affidavit under A, B, C, or D sections as applicable.

4. That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the Taxation Act.

SWORN and subscribed to at HAMBLEYS  
 this 16th day of JUNE  
 19 75, before me [Signature]

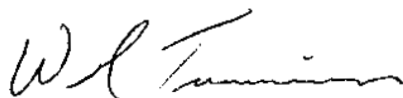
[Signature]  
 Commission for Taking Affidavits  
 within British Columbia

\* This affidavit may be taken by a person empowered to take affidavits by the Evidence Act of British Columbia.



Further work would be dependant upon results of the above recommended programme of work.

Respectfully submitted,



W. G. Timmins, P. Eng.,  
Consulting Geologist.

W. G. Timmins & Assoc. Ltd.

July 21, 1975  
Vancouver, B. C.

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## REFERENCES

G.S.C. Memoir 243 by H.M.A. Rice, 1960.

Contoured Magnetic map by Mr. B. Bried, dated July 8th, 1975.

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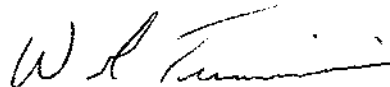
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## CERTIFICATE

I, WILLIAM G. TIMMINS, an associate of W.G. Timmins & Associates Ltd., with offices at 307-475 Howe Street, Vancouver, British Columbia, do hereby certify that:

1. I am a geologist, having been practising my profession for thirteen years.
2. I am a graduate of the Provincial Institute of Mining, Haileybury, Ontario and have attended Michigan Technological University, Houghton, Michigan.
3. I am a member of the Association of Professional Engineers of British Columbia.
4. I have no interest direct or indirect in the Barb Claims property.
5. This report is based upon personal knowledge of the area, government reports and interpretation of reconnaissance magnetic map provided by Mr. V.L. Paulger of Chilliwack, B.C. whose work was carried out by Mr. B. Bried of Kamloops, B.C. It is not for use in a Prospectus.

DATED at Vancouver, British Columbia, this 21st day of July, 1975.



W. G. Timmins, P. Eng.,  
Consulting Geologist

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## McPHAR M700 Flux Gate Magnetometer

### SECTION 2

### SPECIFICATIONS

#### 2-1 MAXIMUM SENSITIVITY

20 gammas per scale division on 1,000 gamma range.  
Readability is 1/4 scale division or 5 gammas.

#### 2-2 MAXIMUM MEASUREMENT

Zero to  $\pm 100,000$  gammas in five ranges.

Range Switch Position	Full Scale In Gammas	Gammas Per Scale Division
1K	1,000	20 black scale
3K	3,000	50 red scale
10K	10,000	200 black scale
30K	30,000	500 red scale
100K	100,000	2,000 black scale

#### 2-3 MEASUREMENT POLARITY

The above ranges can be reversed in polarity as a simple function of the Polarity switch.

#### 2-4 LATITUDE ADJUSTMENT

The latitude adjustment permits cancelling the earth's field up to a magnitude of  $\pm 100,000$  gammas. The adjustment control is a ten revolution precision potentiometer located under the sliding side panel. A positive type locking lever on the control removes the hazard of accidentally dislodging the setting.

#### 2-5 SELF-LEVELLING SENSING HEAD

The unique self-levelling sensing head of this magnetometer is inserted as a plug-in unit. It is easily detached so that the same magnetometer can be used with other types of sensing heads such as the airborne gyro stabilized head etc.

It is recommended that the instrument be re-calibrated at our servicing depot, each time the sensing head is changed.

#### 2-6 ORIENTATION ERROR

The orientation error is set at the factory to 25 gammas or less in the presence of a 15,000 gamma horizontal field. It is poss-

ible to adjust the orientation error and the procedure is explained in the section 9-2 under Maintenance.

#### 2-7 TEMPERATURE STABILITY

Over the temperature range of  $-35$  to  $+55$  degrees centigrade the temperature drift is limited to less than 50 gammas. See section 4-6 on Minimizing Temperature Drift.

#### 2-8 BATTERY SUPPLY

The M700 Magnetometer is powered by two internally mounted 9 volt batteries. Any pair of the following batteries may be used.

Eveready No. 276  
Mallory No. M1603  
Burgess No. D6  
R. C. A. No. VS306

For sub-zero operation the batteries may be transferred to an external battery case and carried under clothing to keep them from freezing. See section 6, Operation with External Batteries.

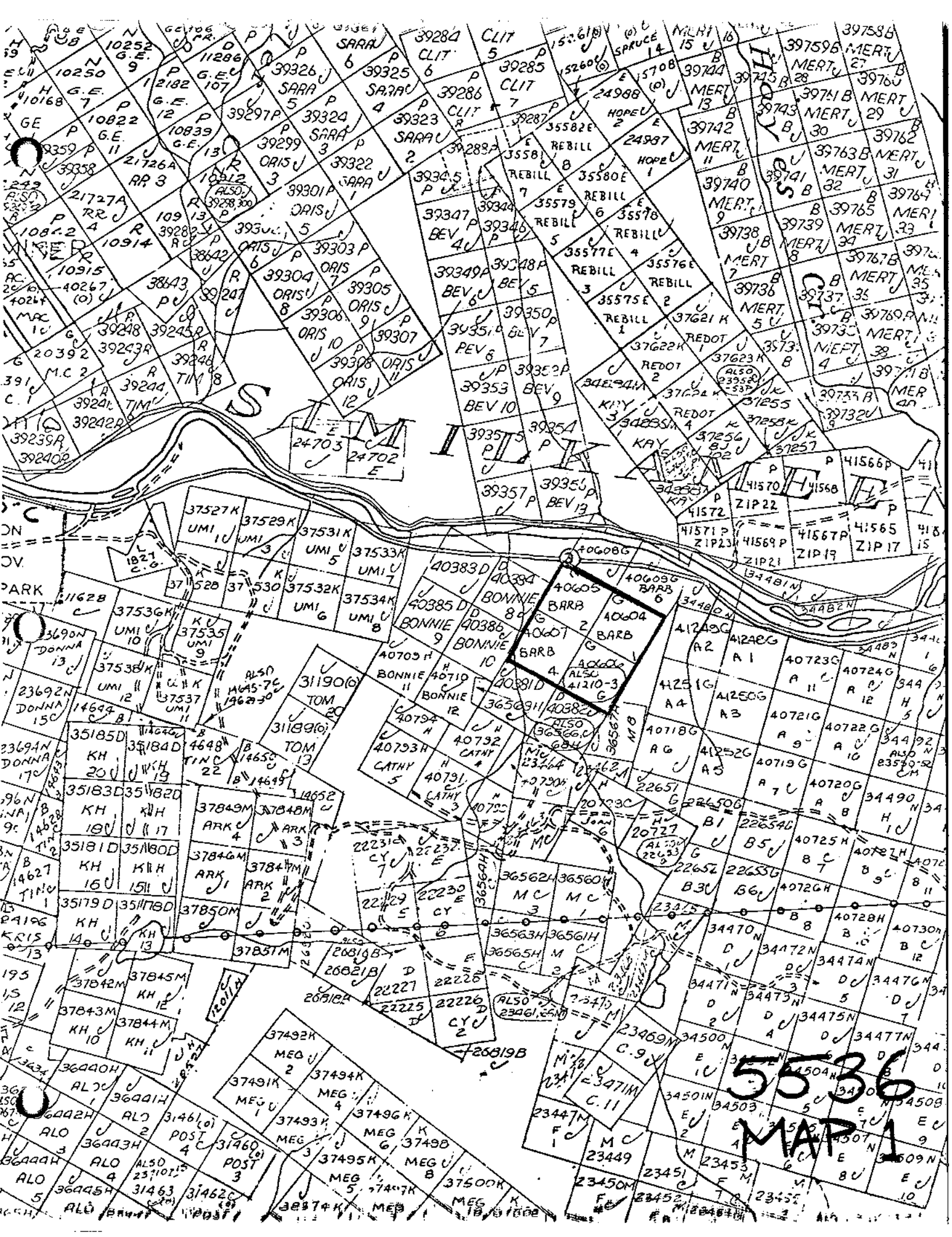
Two types of external battery cases are available see accessory list, section 11. One type is for the above batteries. Another type of case will accommodate the equivalent in flashlight cells for use in countries where the normal batteries are difficult to obtain.

#### 2-9 ACCESSORY RECEPTACLE

A Cannon receptacle is located on the side of the instrument under the sliding panel. This increases the versatility of the instrument so it can be used in a number of ways in addition to its normal vertical field ground magnetometer function. See Section 8, under Extended Applications and section 11, under Accessories.

#### 2-10 ACCESSORY & LATITUDE SWITCH

This is a double function switch. The first function is to permit operation north or south of the equator by simply changing one step



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MAP 1



5536  
MAP 2

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NO



500 gammas  
gammas

VERN PAULGER  
BARB CLAIMS  
GROUND MAGNETOMETER  
SURVEY

scale 1" = 200'

5536  
MAP 2

July 8, 1975

*Walt*