J. P. Sheridan, P. ENG. MINING GEOPHYSICIST

July 20, 1962

Mr. Paul McCloske,, President, Western Surf Inlet Mines Limited, 199 Ba; Street, Toronto 1.



Report - Exploration Programme McVicar Area Copper Propert,, British Columbia

During the months of April, May and June, 1962, a group of 25 claims were staked north of the McVicar Copper Property. A programme of linecutting and electromagnetic surveying was carried out on both the McVicar Copper Property and the recently staked claim group. Detailed magnetic surveys were conducted over all indicated significant electromagnetic anomalies.

Summary of Results of the Survey

The electromagnetic survey conducted on the original McVicar Property successfully detected and delineated the No. 3 and No. 5 zones located on the Harding and Rainstorm claims respectively. No other significant Conductors were detected on the claim group with the possible exception of a minor Conductor located on the Noonday claim.

The electromagnetic surve; on the recently staked group detected a Conductor system on the west portion of the Bob 2 and 4 claims. This Conductor is comparable in size and intensity to the Conductor representing No. 3 and No. 2 zones and it is believed similar type sulphide mineralization may be anticipated in this area.

> J. P. Sheridan, P. ENG. MINING GEOPHYSICIST

> > - 2 -

The magnetic survey in the vicinity of the No. 3 and 5 zones, as shown on the accompanying map reveals a small but definite magnetic low in the vicinity of the Conductors. A similar small magnetic depression is apparent in the vicinity of the new Conductor located on the Bob 2 and 4 claims.

Recommendations and Conclusions

It is recommended that the area in the vicinity of the Conductor located on the Bob 2 and 4 claims be further investigated by diamond drilling during the course of the next exploration programme conducted on the property. It is doubtful that the apparent size of this Conductor warrants a drilling programme on its own merit.

Prom the work carried out to date, it appears that the type of mineralization known to occur in this area is readily detectable by the electromagnetic methods employed in this survey. The use of the magnetometer and soil sampling in the immediate vicinity of the Conductors appears to be a suitable secondary method of confirming anomalies arising from sulphide mineralization.

The general area appears to represent a favourable area for sulphide deposits of an economic nature. It is therefore recommended that prospecting be carried out in the general area of the McVicar Copper Property using the geophysical techniques employed in this programme. This recommended prospecting programme will be limited by the severe topography occuring in portions of the area.

J. P. Sheridan, P. ENG. MINING GEOPHYSICIST

- 3 -

Terms of Reference

The survey was carried out under letter of agreement dated March 26, 1962. The claims surveyed are located on Raffuse Creek, approximately 7 miles east of the Town of Squamish in the Province of critish Column 15.

The original McVicar Josper group consists of 12 claims known as Mamquam, Slide Praction, Moonday, Rainstorm, Violet, Heather, Harding, Rose, Grous. Fraction, whistler, Lilly and Cabin Praction. The new claim group staked and surveyed consists of the Hob and Phill 1 and 2 claims located in the immediate vicinity of the McVicar group and the Thill 3 to 6 and the Pool to 10 located north of and adjoining the McVicar group.

The linecutting was earried out under the supervision of Ar. Philippe Roop of Senneterre, Quebec and the survey was carried out of Mr. Mex Juny, B.Sc. under my direct field supervision. The survey included approximately 25 miles of linecutting and electromagnetic survey.

Methods Used and Presentation of Results

Linecutting

running N30 % with picket lines every 300 feet, running N50 %. In the vicinity of classes 300 2 to 10, the searing of the sac-line was sitered to accemodate topographical conditions, but the searing of the picket lines was maintained at N60 2. Throughout the McVicar property itself, a line spacing of 100 feet was used in the vicinity of significant showings where possible and several wase lines were used to accompate topography.

A large portion of the McVicar property was impossible to survey due to severe topographical conditions and bad snow conditions.

J. P. Sheridan, P. ENG. MINING GEOPHYSICIST

_ 4 -

In general the lines were chained coincident with the electromagnetic survey and "back chaining" was employed where convenient. This procedure of back chaining introduces errors in the numbering of the pickets. However, the distances as shown on the accompanying map measured from the base-line are correct.

Electromagnetic Survey

The E.M. survey employed the Sheridan-Kelk Dual Frequency Electromagnetic Instrument operated in the horizontal coil configuration with a transmitter-receiver separation of 200 feet. In general readings of amplitude and phase of the resultant field at the high frequency (2400 cps) were recorded at station intervals of 100 feet. In anomalous areas readings of amplitude and phase at the lower frequency (800 cps) were also recorded and the station interval was reduced to 50 feet.

The results of the survey as plotted on the accompanying map show only the profile of the high frequency phase. The Conductors - as indicated by the survey - are marked in an appropriate manner.

Conductivity Determination

The ratio of beside some of the Conductors refers to the ratio of the low frequency phase response to the high frequency phase response. In general, the ratio increases as the conductivity increases, and a ratio greater than 0.0 is considered to represent a good Conductor, 0.5 to 0.8 a moderate Conductor, less than 0.5 a fair Conductor.

These ratios are completely independent of the absolute size of the Conductor, depth of Jurial, length, etc., and are dependent solely on the material comprising the Conductor.

J. P. Sheridan, P. ENG.
MINING GEOPHYSICIST

- 5 -

Magnetic Survey

The magnetic survey employed an Askania torsion balance magnetometer with readings recorded at 25 foot intervals over the detected E.M. Conductors.

The results of the magnetic survey over area Nos. 3 and 5 are plotted on a separate map. The magnetic results over the new Conductors are plotted on the E.M. map.

Interpretation of the Electromagnetic Results

The electromagnetic survey results as shown on the accompanying map indicate the area prospected to be remarkably free of conductive bodies other than the known sulphide zones and the newly discovered zone. Although the known sulphide zones give rise to only small responses, they are clearly evident above the extremely quiet background of the general area. The ratio indicated, shows the known sulphide mineralization to represent a zone of extremely poor conductivity.

The slight magnetic low coincident with the electromagnetic Conductors is probably due to the alteration of the country rock in the immediate vicinity of the sulphide zone.

Conclusion

From the work to date, it is evident that the programme carried out represents an efficient method of prospecting in the general area for similar type and perhaps larger sulphide zones. The sole limitation of this method of prospecting in this area is the occasional severe topographical conditions that prevent the traversing of the ground by the survey crew.

All of which is respectfully submitted.

J. P. Cheridan, P.Eng.

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Department of Sheridan						
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496 MAP

TABLE OF CONTENTS

Geophysics Limited

	Page	
Summary of Results of Survey	1	
Recommendations and Conclusions	2	
Terms of Reference	3	
Methods Used	3	
Interpretation of Electromagnetic Results	5	
Maps No. 1 and No. 2 enclosed in envelopes in back of Report	and and and	3
Total No. of Pages	5	

Dates of Survey:

The survey was actually conducted between the 26 April, 1962 and the 18 June, 1962.

CERTIFICATE OF COST

The cost of the survey to Western Surf Inlet Mines Limited was \$7,250.00.

All of which is certified correct.

J. P. Sheridan, P. Eng.

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Toronto This 25th

Clay of February 1963,

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Breakdown of Man Days Employed on Geophysical Survey Western Surf Inlet Mines Limited McVicar Area Copper Prospect British Columbia

Philippe Roby - Operator's Assistant Senneterre, Quebec 26 April, 1962 - 13 June, 1962	49	days
Robert Roby, Linecutter Senneterre, Quebec 26 April, 1962 - 13 June, 1962	49	days
Yvon Auger, Linecutter Senneterre, Quebec 26 April, 1962 - 13 June, 1962	49	days
Max Juby, B.Sc Instrument Operator 121 Richmond St. West Toronto, Ontario 18 May, 1962 - 18 June, 1962	32	days
J. P. Sheridan, P. Eng. Consulting Geophysicist 121 Richmond St. W. Toronto, Ontario	0	a
5 June. 1962 - 12 June. 1962	Ö	days

Qualifications of Operators

Mr. Max Juby, B.Sc. Degree, McGill University, 1953, in Maths and Physics. Mr. Juby has been employed steadily as a geophysical operator from graduation to the present time with the exception of a period of about 18 months when he was employed in other technical studies. Mr. Juby has carried out and supervised geophysical surveys throughout the United States, Canada, and parts of Europe.

- 2 -

J. P. Sheridan, B.A.Sc. Engineering Physics, Geophysics Option University of Toronto, 1955. I have practised as a geophysicist since June 1955 with the exception of a period of some six months devoted to graduate studies in geology and geophysics at the University of Toronto. I was employed by the Newmont Mining Corporation, Jerome, Arizona; ABEM Ltd. Stockholm, Sweden and C.C. Huston & Associates, Mining Consultants, Toronto in the capacity of geophysicist. Since 1957 I have been self-employed as a consulting and contract geophysicist and have worked extensively throughout Canada.

All of which is certified correct.

J. P. Sheridan, P. Eng.

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RATES OF PAY FOR MEN EMPLOYED

All personnel employed on the job with the exception of Mr. Robert Roby and Mr. Yvon uger are retained on a yearly basis and are not paid for individual jobs or days worked.

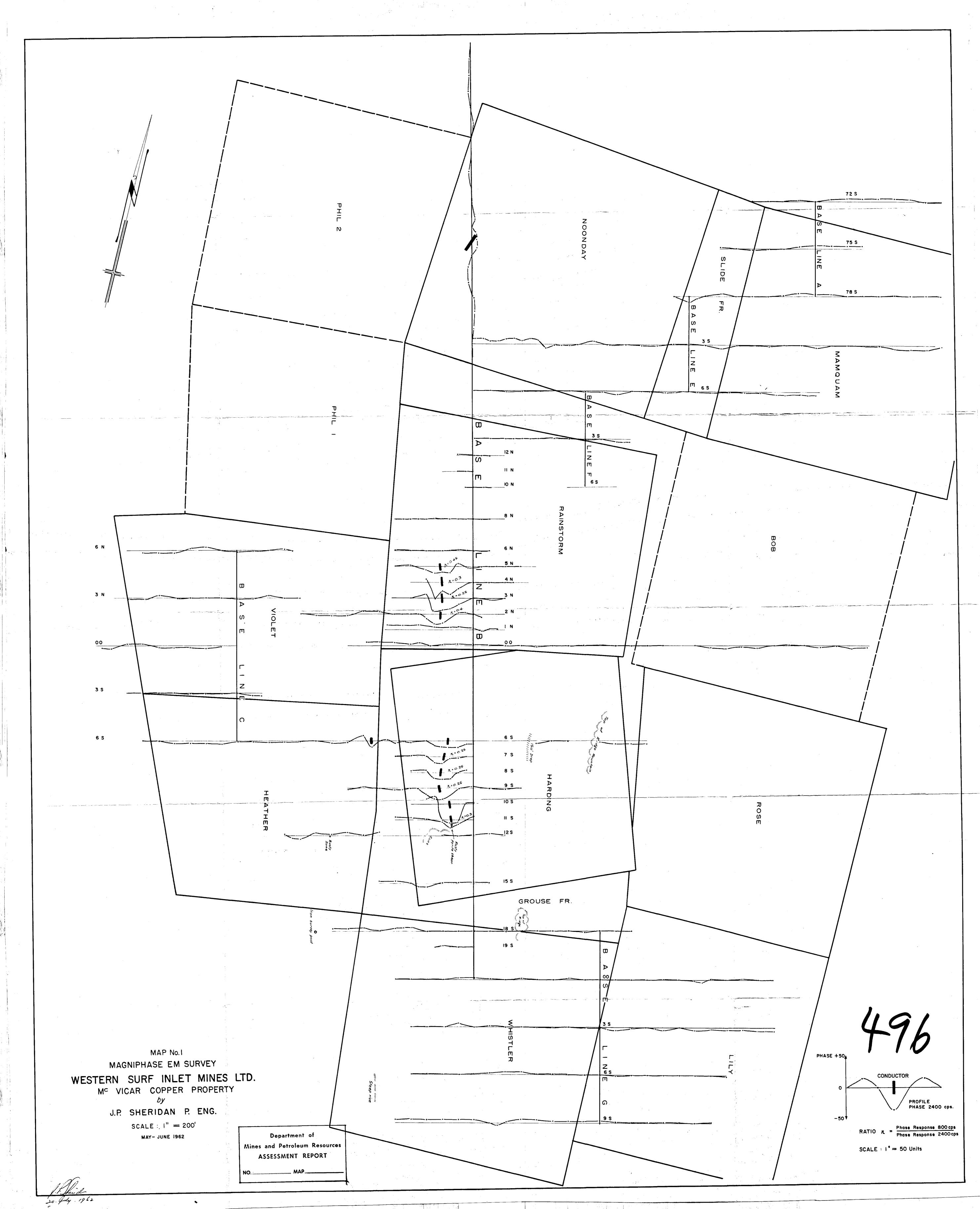
Fr. Robert Poby and Mr. Yvon Auger are paid \$20.00 per day. Fr. Philippe Roby is paid approximately \$6,500 per year including bonuses. Fr. Lax Juby is paid approximately \$6,500 per year including bonuses. Fr. J. P. Sheridan, P. Eng. is not paid.

Therefore, the following people were paid approximately the following amount for the job:

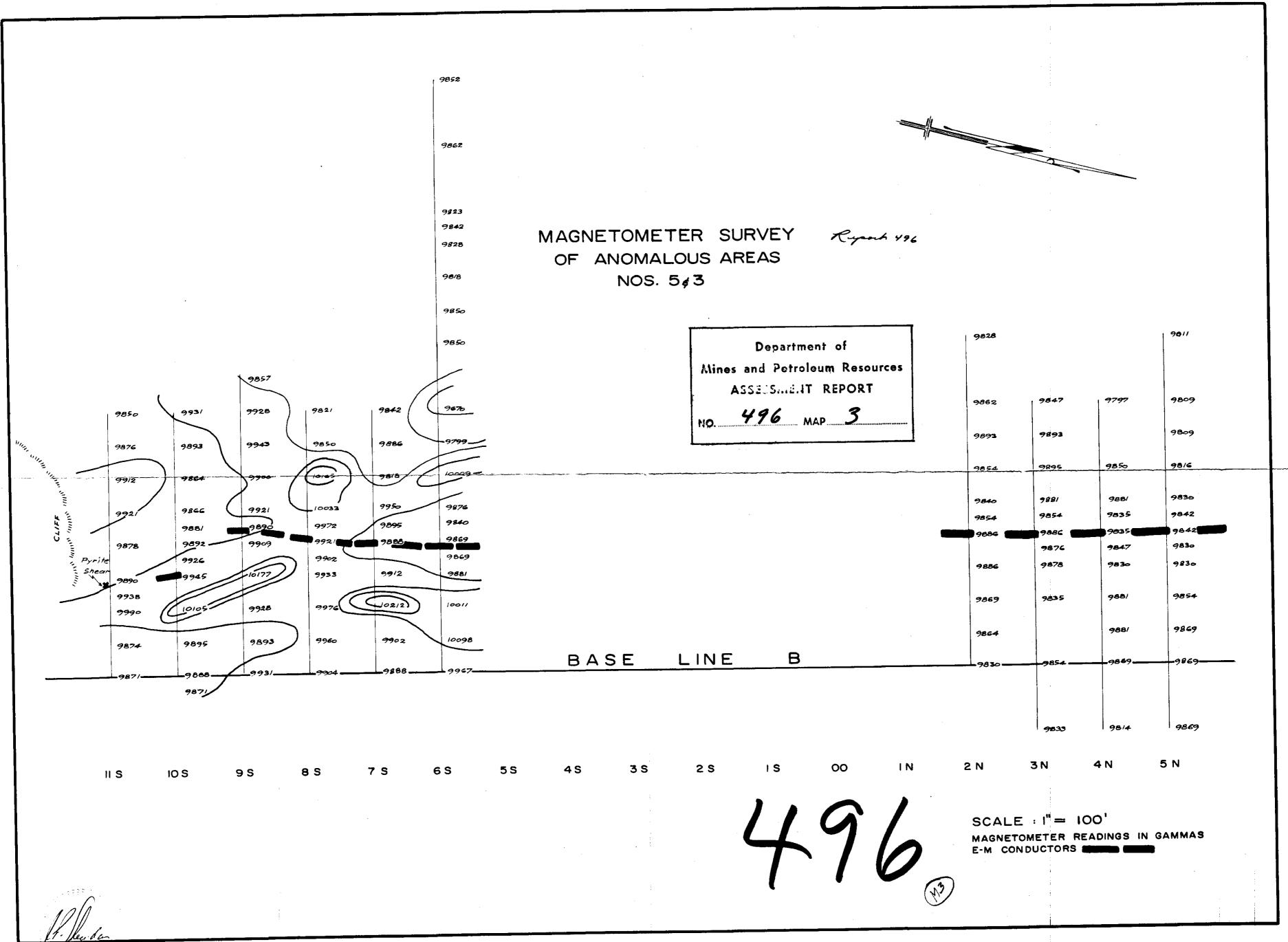
Mr.	Philippe Roby, 2 months' salary approximately	\$1,100.00
hr.	Robert Roby, 2 months' salary approximately	960.00
ear.	Yvon Auger, 2 months' salary approximately	960.00
ŀr.	New Juby, I month's salery approximately	550.00

Therefore the amount of money expended for personnel on the property was approximately \$3,570.00, plus hr. Sheridan's time which could be valued at \$200.00 per day.

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