

# 3202

PROFESSIONAL GEOLOGIC SERVICES LTD.,  
4th Floor - 550 Burrard St.,  
Vancouver, B.C.

GEOPHYSICAL ASSESSMENT REPORT

(INDUCED POLARIZATION)

on the

RED GROUP - 40 MINERAL CLAIMS

(Red 4-34 inclusive; Sus 75-77 inclusive;)  
(Sus 79; 81; 83; 114; 116 and 117.)

Map No. 104-H-12(W).

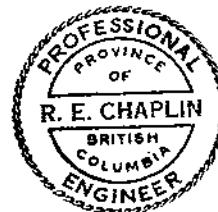
Coordinates 57°N. - 129°W.

EALUE LAKE AREA, LIARD MINING DIVISION, BRITISH COLUMBIA.

Survey Performed: June 22nd - July 3rd, 1971, inclusive.

by

Robert E. Chaplin, P.Eng.



for

SILVER STANDARD MINES LTD. (N.P.L.),  
808 - 602 West Hastings Street,  
Vancouver 2, B.C.

Vancouver, British Columbia.

July 6th, 1971.

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TABLE OF CONTENTS

	<u>Page No.</u>
INTRODUCTION . . . . .	1
SUMMARY . . . . .	1
GEOPHYSICAL SURVEY . . . . .	1
CONCLUSIONS AND RECOMMENDATIONS . . . . .	2
EXPENDITURES . . . . .	3
AUTHOR'S QUALIFICATIONS . . . . .	4
ACCOMPANYING MAPS . . . . .	.Pocket

1/ Figure 1 - 400' Pole-dipole Reconnaissance, 1" = 400'.  
2/ Figure 2 - Location Map of Red Group of Claims,

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Department of  
Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
NO. 3202 MAP

INTRODUCTION

An induced polarization survey was performed over the following 40 mineral claims of the Red Claim Group during the period June 22nd to July 3rd, 1971:

<u>Claim Name</u>	<u>Record Numbers</u>	<u>Recorded Owner</u>	<u>Good Standing Date</u>
Red 4-34 incl.			
Sus 75-77 incl.			
Sus 79			
Sus 81			
Sus 83			
Sus 114			
Sus 116			
Sus 117			

SUMMARY

The claims are located 10 miles from the Stewart-Cassiar Highway, between elevation of 4,500 and 5,500 feet, between Ealue and Kluea Lake in the Liard Mining Division, British Columbia.

Access is by helicopter from Eddontenajon Lake.

Grid lines were flagged and chained over 100 feet.

GEOPHYSICAL SURVEY

The survey was conducted using a Geoscience Induced Polarization instrument, Model No. 5170 Tx, 5260 Rx, powered by a 1,500 watt generator operated on a frequency range of 3.0-0.1 c.p.s., using a 400 spread to one separation pole-dipole array. The percent frequency effect (P.F.E.) was calculated by deducting daily calibration and transmitter deviations from all the receiver deviations.

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The purpose of the survey was to locate disseminated sulphide concentrations in an intrusive rock into Triassic volcanics - where copper-bearing soils formed an anomalous zone close to observed copper-pyrite mineralization in rusted and silicified rocks. Less than 5% of the claim area is rock outcrop. Outcrop is restricted to deep valley sides cutting the edge of a broad, flat-to-rolling peneplained topographic surface covered by buck brush, caribou moss and grass.

Approximately 3.6 line miles of survey was run on the Red Claim Group.

The results of the survey indicate that the copper soils anomaly occurs on the flank of an intense I.P. zone (P.F.E. of 25) of approximately 5 times background. The P.F.E.s associated with the copper anomaly range from 10 to 20. The area of interest is approximately 800 feet wide, trending in a northeast direction.

#### CONCLUSIONS

The I.P. results indicate that between two and four percent sulphides by volume is associated with the copper geochemical anomaly. The fringing higher P.F.E.s are probably due to pyrite. Pyrite up to 5% dissemination was noted in a small outcrop at 67 N. - 37 E., a distance of 800 feet northwest of the copper geochemical zone at 59 N. - 43 E.

It is recommended that bulldozer trenching, with rippers, and drilling be performed on the copper geochemical and I.P. zone to fully evaluate the property.

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EXPENDITURES

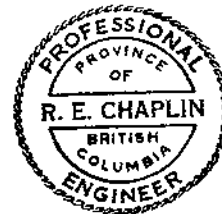
Five-ninths of the following total expenditures are applicable for assessment purposes on the Red Group of claims, Liard Mining Division, B.C., 57°N., 129°W.

1) Professional Geologic Services Ltd., I.P. Survey between June 22 and July 3, 1971: I.P. Equipment and accessories @ \$50.00/day x 9 days	\$450.00	
R.E. Chaplin, P.Eng. @ \$100.00/day x 12 days	1,200.00	
Drafting, typing and prints	96.00	
Wire costs - @ \$35.00/mile x 12.8 miles	<u>448.00</u>	\$2,194.00
2) Vancouver Island Helicopters - Pilot D. Snell: G3-B1 - @ \$135.00/hour x 3.5 hours		473.00
3) Wages - Job Layout, Line Preparation & Survey: Wm. St. Clair Dunne, P.Eng., - 1/2 day @ \$100/day	50.00	
J.H. McAusland, P.Eng., - 1 day @ \$100/day	100.00	
M. Rabagliati, Transmitter Operator - 10 days @ \$40	400.00	
N.L. Thomsen, Labourer - 10 days @ \$28/day	280.00	
B. Mills, Labourer - 10 days @ \$28/day	280.00	
H. Kwak, Labourer - 8 days @ \$28/day	<u>224.00</u>	<u>1,334.00</u>
TOTAL . . . . .		<u><u>\$4,001.00</u></u>
Percentage of Costs Applicable to Red Group Assessment Work . . . . .		<u><u>\$2,222.00</u></u>

Respectfully submitted,

*Robert E. Chaplin P.Eng.*

Robert E. Chaplin, P.Eng.,



PROFESSIONAL GEOLOGIC SERVICES LTD.,  
4th Floor - 550 Burrard St.,  
Vancouver, B.C.

TO WHOM IT MAY CONCERN:

QUALIFICATIONS

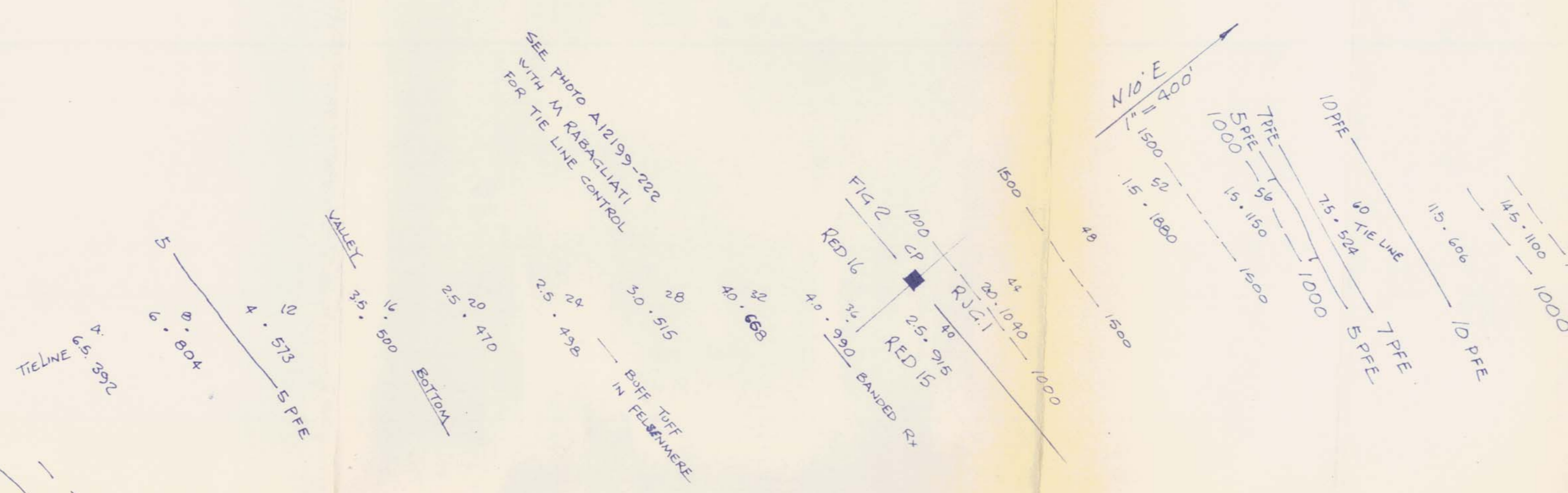
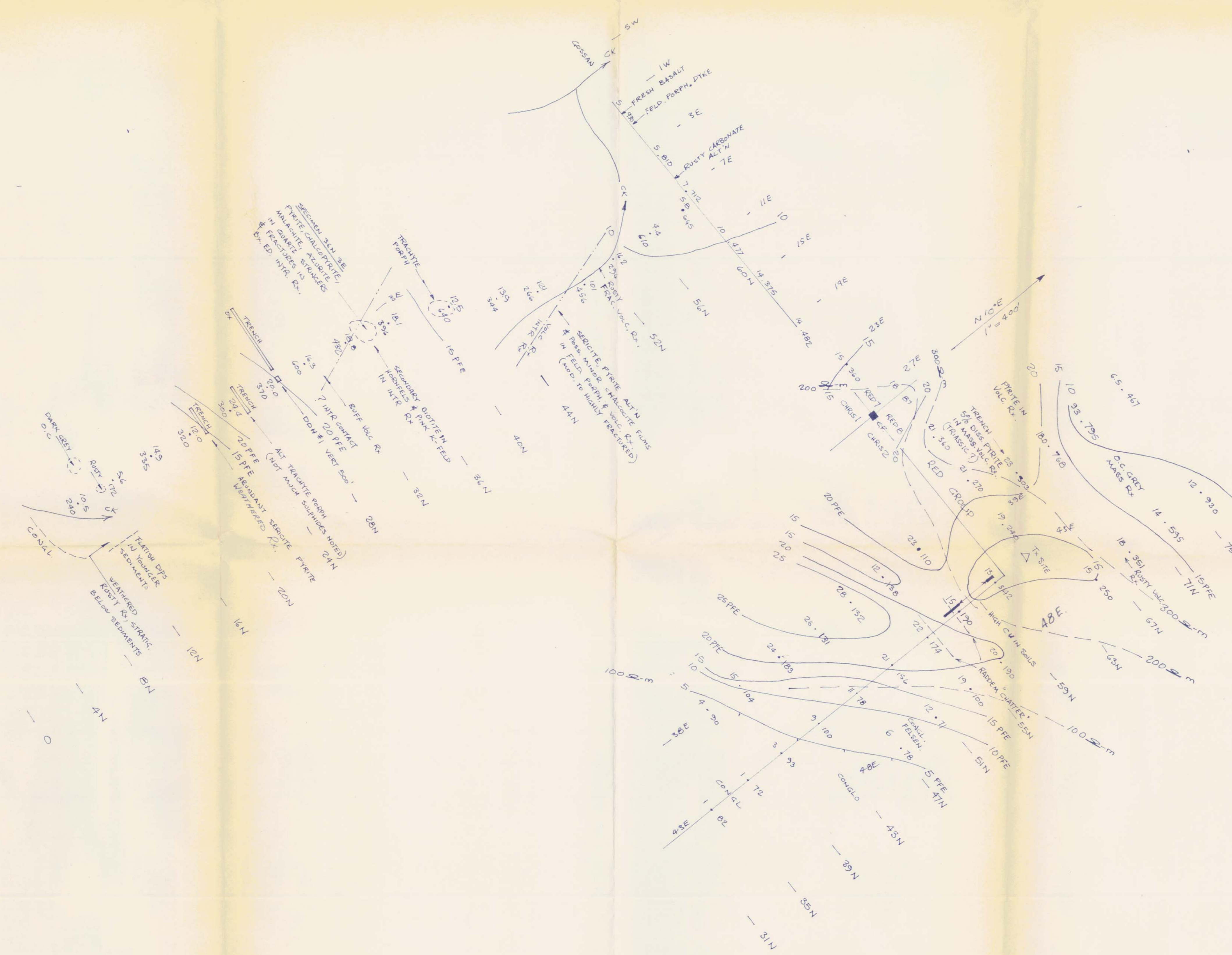
ROBERT E. CHAPLIN, P. ENG.

I, Robert E. Chaplin, Professional Engineer, do hereby certify that:

1. I am a registered member of the Association of Professional Engineers in the Province of British Columbia.
2. I am a graduate in Geological Engineering from the University of British Columbia, 1958.
3. I have 20 years' experience in mineral exploration, the past 6 years of which I have owned and operated the Geoscience I.P. instrument described in the text of this report on the Red Group.
4. I have not directly or indirectly received, nor do I expect to receive any interest, direct or indirect, in the property of Silver Standard Mines Ltd. (N.P.L.).
5. The information on which this report is based was compiled during the Induced Polarization Survey conducted on the Red Group during the period June 22 to July 3, 1971.

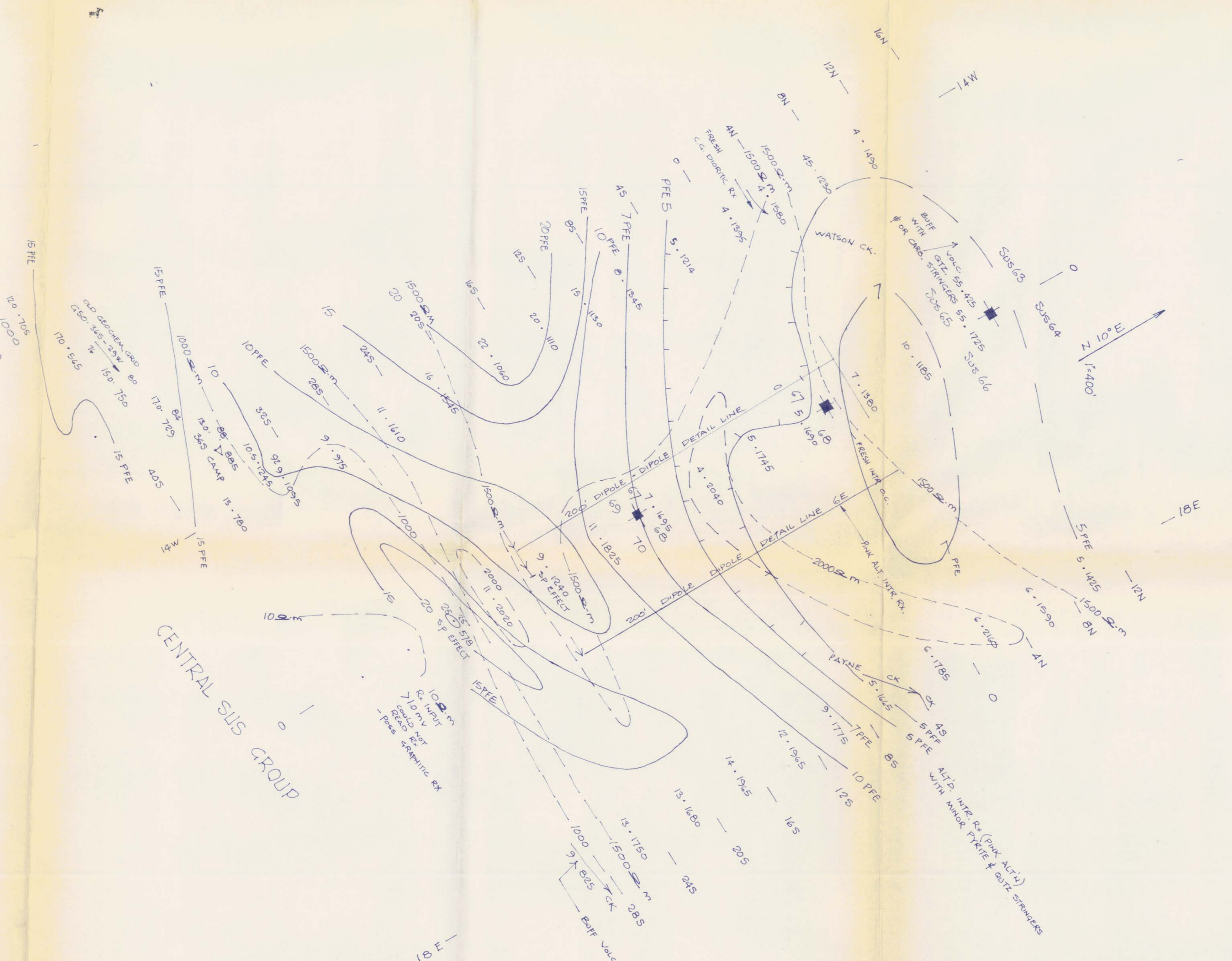
Dated at Vancouver, British Columbia, this 6th day of July, 1971.

  
Robert E. Chaplin, P. Eng.



INDUCED POLARIZATION SURVEY  
 400 POLE DIPOLE N-11 ARRAY  
 BETWEEN 50' - 10' C.P.E.  
 BY R.E. CHURCH, INC. JULY 1, 1971  
 SILVER STANDARD MINES LTD.  
 5700 S.W. 12th AVE. SUITE 100  
 MIAMI, FLORIDA 33155  
 PRESENT RESERVITY (C) IN OWNERSHIP  
 OF SILVER STANDARD MINES LTD.  
 P.L. 1971

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 3202 MAP



3202  
 M-1