

Geophysical Report

Adoo Silver Mines Ltd.

Owl, Star and Bob Claims, Steven Creek

Similkameen Mining District, B.C.

11 miles N80°E of Frinceton 49°, 120° SE

Report by: R. H. Farker, B.S.c. Geophysicist

Department of

Mines and Petroleum Resources

ASSESSMENT REPORT

NO. 2328 MAP

February 1970



517 · 602 West Hastings Street, Vancouver, British Columbia, Ganada 🎉 Telephone 688-4342

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SUMMARY

A ground magnetometer survey by Gectronics Surveys Ltd., Vancouver, has outlined an area on this claim block that would appear favorable to possible mineralization. The presence of mineralization reported in the past is noted, and recommendations made for further work on the property, culminating in a drill program.

INTRODUCTION

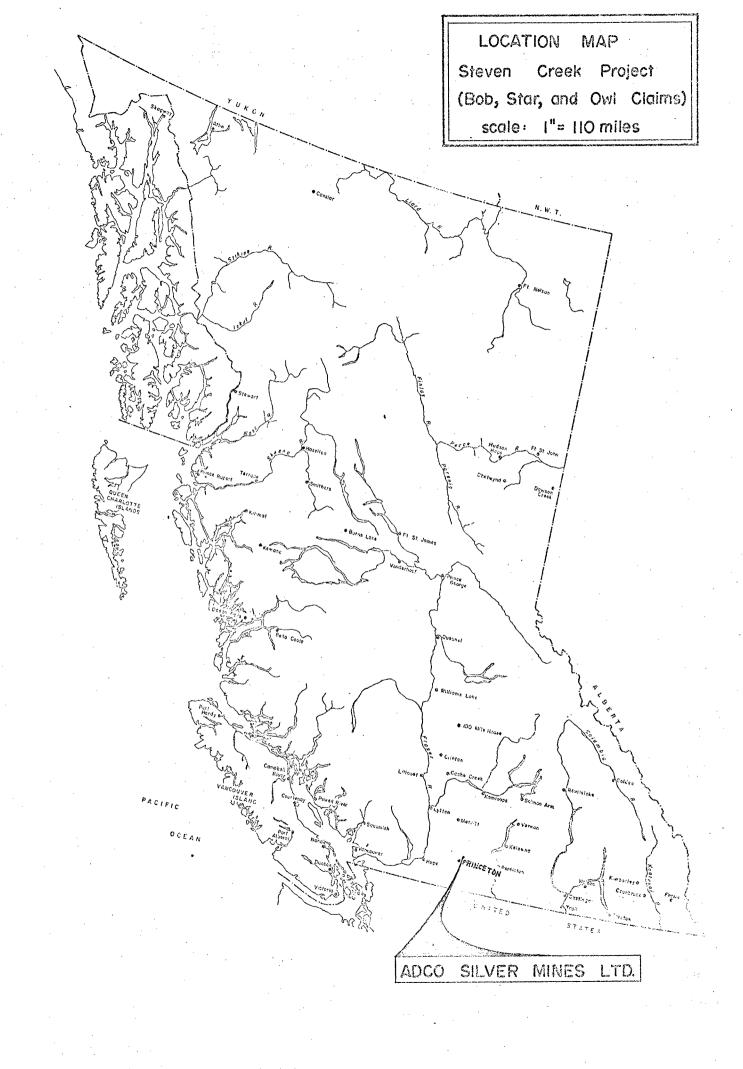
This report is based on an examination of the results of a ground magnetometer survey conducted over the property by Geotronics Surveys Ltd., Vancouver, B. C. under the direct supervision of D. Mark, B.Sc., geophysicist. Reference is also made to a report by J. H. Montgomery, Ph.D., P.Eng. and to H.M.A. Rice, G.S.C. Memoir 243.

PROFERTY DESCRIPTION

The property consists of 42 contiguous claims situate adjacent to the northern headwaters of Stevens Creek, about 2 miles north of the junction of Stevens Creek with the Similkameen River. Access is by passable logging road. The nearest centre is Frinceton, B.C.

TOPOGRAPHY

As noted in Montgomery, p 6, the claims are at an elevation of about 5,300 ft. Overall relief is gentle, and the area offers little problem to a survey program.



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GEOLOGY

The reader is referred to the Montgomery report for details of the geology of the claim group. One point to note, relevant to the present work, is that mineralized veins examined by Montgomery are conformable with the Nicola group underlying the whole claim block, and that is "slightly west of north and steeply dipping". As will be noted in this report, this trend is reflected in the magnetics.

FIELD SURVEY

The instrumentation for this survey was a portable fluxgate magnetometer Model G-100 manufactured by Geotronics Instruments Ltd.,

Vancouver, B.C. Lines were run by chain and compass, with lines
approximately 500 ft. apart and stations at 100 ft. intervals. Stations
were flagged and marked with the appropriate identification. A total
of 20 line miles were surveyed, the data being recorded in standard
field note books. Corrections were made for diurnal variations, and
the data plotted on a base map at a scale 1 in. = 500 ft.; the data
was then contoured at an interval of 200 gamma.

INTERFRETATION

Although a mathematical analysis of the data has not been done, the average background for the area appears to be about 5500 gamma; the maximum magnetic relief is 2470 gamma with a minimum of 4360 and



maximum of 6830 gamma. No correction has been made for regional gradient, nor is anything known about remanent magnetization in these rocks.

The contour map indicates a general trend for the claim area that is most likely reflecting the trend of the underlying geology noted in the Montgomery report. In particular, a series of anomalies of greater than 6000 gamma lies roughly parallel to the Owl location line; the anomalies themselves are centred on Owl 4, Owl 6 and at approximately the junction of Owl 5, 6, 7 and 8. This latter anomaly is not closed as data is not available from the area covered by Owl 5 and Owl 6 claims. The three anomalies have been labelled as A, B and C on the accompanying contour map and have been profiled (see Figs. 1, 2 and 3).

One other area that appears to show interesting features is on the east side of claims Star 2, 4 and 8 with values up to 5800 gamma. Although not as magnetically high as the values on the Owl claims, these areas are adjacent to shafts and trenching work and may therefore be associated with the mineralization referred to in Montgomery.

The easternmost part of the property shows the same general magnetic trend, although values are on the average generally low and magnetically "flat".

ANOMALY A

This anomaly appears to be double peaked, with a maximum of 6300 gamma



on the western peak. A low of 4850 gamma flanks the eastern end of this anomaly. The western peak of the anomaly is elongated, trending towards anomalies B and C, i.e. it runs parellel to the local trend and apparently to the structure of the underlying Nicola group.

ANOMALY B

This anomaly lies to the NNE of anomaly A and may well be associated with it. It peaks at 6100 gamma and appears to be flanked on the west by another anomaly which may go higher in magnetic value. This is unfortunately on the very edge of the survey area so data is not available to close this anomaly in the western direction.

ANOMALY C

This anomaly includes the highest magnetic value for the property and is completely unclosed to the west. The profile shows a peak of 6700 gamma; the width of the anomaly is unknown because of the lack of data mentioned above.

The important feature here is the fact that the three anomalies analyzed are aligned in a direction parellel to the geologic structure.

CONCLUSIONS

A ground magnetometer survey of 20 line miles has indicated at least one area over which further work should be done. Although any definite



conclusions at this stage of the program would be speculative, there is the possibility that the anomalies A, B and C lie along the contact between the Nicola group and the coast intrusion surrounding the claim block. The presence of this contact and of mineralization in a shaft adjacent to anomaly C, indicates a zone of possibility extending some 3000-4000 ft., covering claims Owl 4, 6 and 8 and part of Star 3.

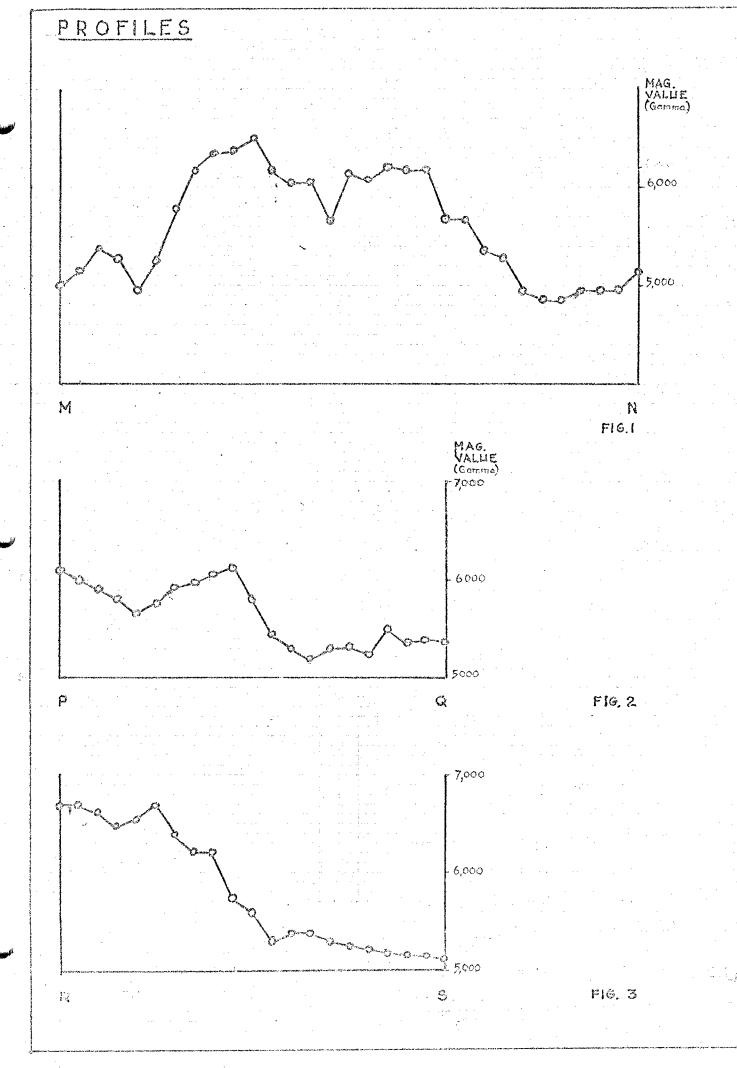
The writer feels that the following program should be carried out:

- Completion of the ground magnetometer survey over claims Owl 1, 3,
 and 7 in order to properly close off the magnetic anomalies
 mentioned and to ascertain the full width of the anomalous zone.
- 2. Detailed geologic mapping of the Cwl claims (a scale of 1 in. to 500 ft. would be suitable, with details of 1 in. to 50 ft. in mineralized zones, as suggested in Montgomery).
- 3. Clearing of the old shafts and trenches, and a proper program of sampling and assaying of all mineralized zones, and
- 4. Following the above, the drilling of test holes with core logging along the axis of the zone outlined above. The purpose of the drilling would be twofold: to obtain detailed geologic information of the underlying rock, and to confirm the presence or absence of possibly economic mineralization.

Respectfully submitted,

R. H. Parker, B. Sc. Geophysicist

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REFERENCES

- Montgomery, J. H., Report on Owl 1-14, Star 1-18 and Bob 1-10
 Mineral Claims, Steven Creek, Similkameen M.D.,
 22 December 1969.
- 2. Rice, H.M.A., Geology and Mineral Deposits of the Frinceton Map-Area, British Columbia, G.S.C. Memoir 243, 1960.



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RESUME OF ROBERT H. FARKER, B. Sc.

- 1. Graduated from The University of British Columbia in 1961 with B. Sc. in mathematics and physics.
- 2. Total seven years teaching first year university physics.
- 3. Total three years teaching geophysical prospecting methods at the British Columbia Institute of Technology.
- 4. Summer 1966 Design and construction of earth resistivity meter, Geophysics Department, U.B.C.
- 5. Summer 1967 Design and construction of E.M. model experiment, Geophysics Department, U.B.C.
 - Magnetometer survey, Geo-X Surveys Ltd., Vancouver, B.C.
- 6. 1967 1968 Geo-X Surveys Ltd., part time during winter(while teaching), full time during summer exploration season; airborne and ground magnetometer and geochemical surveys.
- 7. From June 1, 1969 Geotronics Surveys Ltd., Vancouver, B.C.
- 8. Member of American Association of Physics Teachers, Canadian Association of Physicist, B.C. Geophysical Society.
- 9. P. Eng. applied for with Association of Professional Engineers of B.C.



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RESUME OF TECHNICAL AND FIELD EXPERIENCE OF DAVID MARK, B,SC.

EDUCATION:

Graduate of University of British Columbia in Science (B.Sc.) in Geophysics.

EXFERIENCE IN INDUSTRY

- 1. Frospecting and geological evaluation for New Taku Mines Ltd. during exploration season of 1965.
- 2. Field supervisor for georhysical and geochemical work and prospecting for Mastadon Highland Bell Mines Ltd. during exploration season of 1966.
- 3. Field supervisor in geochemical work and geological mapping for Anaconda (Can.)
 Company during exploration season of 1967.
- 4. Field geophysicist for Geo-X Surveys Ltd. during exploration season of 1968.
- 5. Presently geophysicist for Geotronics Surveys Ltd., Vancouver, B.C.
- 6. Experience in various geophysical instrument surveys; magnetometer, electromagnetic, self potential, gravity, induced polarization, restivity and seismic methods.
- 7. Member of British Columbia Geophysical Society.
- 8. P. Eng. applied for with Association of Frofessional Engineers of B.C.

E. P. SHEPPARD & ASSOCIATES LTD.

CONSULTING GEOLOGISTS

314-402 WEST PENDER STREET, VANCOUVER 3. B.C.

April 21, 1970

Mr. Tom Rolston Geotronics Surveys 517-602 W. Hastings Street Vancouver, B. C.

Dear Mr. Rolston:

At your request I have reviewed the references listed below and examined the report prepared by employees of your Company, "Geophysical Report, Adco Silver Mines Ltd. Owl, Star & Bob Claims, Steven Creek, Similkameen Mining District, B.C."

The 42-claim group is located 11 miles northeast of Princeton. Latitude 49%. longitude 120% SE; elevation approximately 5300 feet. A logging road provides access to the property.

Geology. The claim area is mainly underlain by sedimentary and volcanic members of the Nicola Group, of Upper Triassic age. These rocks form part of a large septum surrounded by intrusive rocks forming part of the Coast Range batholith. The mineralized zones examined by Montgomery (Report, December 22, 1969), are quartz-filled fissures containing galena, sphalerite and chalcopyrite. The attitude of the veins, slightly west of north and steeply dipping, is conformable with that of the underlying Nicola Group.

Magnetic Survey. The ground magnetometer survey covered 20 line miles and outlined three anomalies of over 6000 gamma intensity. These are designated as "A". "B" and "C" on the contour map. Another area of magnetically high values lies on the east side of claims Star 2. 4 and 8. It is adjacent to shafts and trenching

work and may be associated with the mineralization described earlier.

The general trend indicated over the claim area most likely reflects the geology of the underlying Nicola Group.

It is concluded that further work should be done on this property, as follows:

- 1) Complete the magnetometer survey,
- 2) Map geology and sample the showings,
- 3) Conduct an I. P. survey over anomalous areas, followed by diamond drilling of indicated anomalies.

The geophysical report and maps submitted by your Company show careful preparation and professional presentation. I am satisfied that the field work performed was of the same high quality as that carried out on assignments where your crews were under my direct supervision.

Respectfully submitted,

E. Percy Sheppard, P. Eng.

Consulting Geologist

REFERENCES

Montgomery, J.H., Report on Owl 1-14, Star 1-18 and Bob 1-10 Mineral Claims, Steven Creek, Similkameen M.D., 22 December 1969

Rice, H.M.A., Geology & Mineral Deposits of the Princeton Map-Area, B.C., G.S.C., Memoir 243, 1960.





Breakdown of Personnel & Costs, January 22 to February 5, 1970 15 Days.

Geophysical Survey (Magnetometer) and Line Culting

Line Cutting Crew . Wages

T.	Coyne	15	Days	0	\$40.00	per	day	\$600,00
	Coyne, Jr.	15	Days	0	\$40.00	per	day	600.00
O.	MeInroy	15	Days	0	\$40.00	per	day	600.00
C.	MeInroy	15	Days	0	\$40.00	per	day	600,00

Geophysical Survey Crew - Wages

R. Simpson, Supervisor & Instrument Operator
15 Days @ \$75.00 per day \$1,120.00

P. Coyne, Geophysical Assistant

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	***	•	•		\$4,120.00	
4 Wheel Drive Vehicle	Rental					
15	Days @	\$25.00 per	day	375.00		
Skidoo Rental 15	Days @	\$15.00 per	day	225.00		
Survey & Lineculing		,		100.00		
Magnacioneier Rental				150.00		
Geophysicist Mapping				400.00		
Engineering Fees	:			804.00	2.054.00	
The state of the s		•			SA.174.00	

And I make this sciemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by write of the "Canada Evidence Act."

Jun Ralator

Declared before me at the Cuty
of Vancouver, in the
Province of British Columbia, this 21
day of April 1970, AD

for Guener

SUB - MINING RECORDER

