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only 1 copy

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 339 MAP.....

APPENDIX "A"

Statement of Qualifications of Alex Burton,
Askania Magnetometer Operator on the
Shot Claim Group Survey

Graduate, University of British Columbia.

Degree: B.A. (Geology)

Experience: Four years geophysical surveying
and geological mapping, Noranda
Explorations, Limited, Vancouver, B.C.

APPENDIX "B"

Statement of Costs of Survey

November 25th, 1960.

I N V O I C E

Prospectors Airways Ltd.,
1111 West Georgia Street,
Vancouver, B. C.

Cost of Askania Magnetometer Survey made by
Alex Burton for Rod McRae of Prospectors Air-
ways Ltd., covering mineral claims:-

Shot	- 1 to 8	
J.J.M.	- Fr. No. 1	
J.A.H.	- Fr. No. 2	
Nora	- Fr. No. 6	
Nora	- Fr. No. 7	
Car Rental		\$ 268.45
Labour - 11 days @ \$15.00/day		165.00
Labour - 17 days @ \$35.00/day		595.00
Equipment Rental - Magnetometer		
17 days @ \$10.00/day		170.00
Gas - 1790 miles @ .03 /mile		<u>53.70</u>
TOTAL		<u>\$1,252.15</u>

Rod McRae

PROSPECTORS AIRWAYS CO. LTD.
MAGNETOMETER SURVEY AND REPORT
of the
SHOT CLAIM GROUP

Introduction:

The 12-claim Shot Group was staked for J.J. McMahon and sold to Donald S. Paterson in July, 1960. The Group was optioned by Prospectors Airways Co. Ltd. in October of the same year and a sensitive Magnetometer survey was done during November and December.

Description:

The Shot Claim Group occupies an area in the dry belt in B.C. Vegetation is sparse and under brush is non-existent. The claims cover river terraces on the west side of Guichon Creek at an elevation of approximately 2500 feet and the soil and gravel cover is probably extremely heavy; there are no rock outcrops within the claim boundaries.

The Shot Group is located in The Nicola Mining Division, about 7 miles north-west of Merritt, on the east side of Craigmont Mine, and can be reached via a gravel road along the west boundary of the group.

Geology:

Since there are no exposures of bedrock within the claim boundaries, the sub-surface geology can only be inferred from

geological mapping of the adjoining claim groups. Surface mapping north-west of this claim block has located intrusive rocks of the Guichon batholith; some exposures of the Nicola volcanics and sediments and other sediments identified as the Kingsvale argillites. It can be inferred from a diamond drill hole drilled approximately a claim and a half north of the Shot Group, that Nicola volcanics lie in contact with quartz diorites of the Guichon batholith in the vicinity of the west boundary of the group. This drill hole was drilled for over 190 feet through recent gravels before intersecting bedrock.

Reasons for this Survey:

A Magnetometer survey using an Askania instrument was selected as the most likely geophysical survey that might record any concentrations of magnetic material on the Shot Claim Group. This type of survey had proved successful on the Graigmont property to the west.

Details of the Magnetometer Survey:

Procedure: A Grid pattern for the survey was established with a transit. A true east-west baseline near the south boundary of the claims and survey lines in a true north-south direction were established by picket-lines at intervals of 400 feet. Test stations every hundred feet were surveyed by chain and compass on the north-south grid pattern. Magnetic drift was recorded at the start of each day's work, at

mid day, and at the end of each day of survey. Readings were corrected for the average drift; the instrument recorded 2.4 gammas per scale division. A map was constructed; the instrument readings were converted to gammas and plotted on a scale of 400 feet to 1 inch. Maps enclosed with this report show the results of the readings taken at each station.

Approximately 53,000 feet of magnetic survey was completed on the Shot Claims. Gamma values varied between 6458 and 7470 gammas; 95% of the readings recorded occurred between 6600 and 7000 gammas. A topographic map of the area of the claims constructed from aerial photos on the same scale as the magnetic map, with contours at 25 feet intervals compared with gamma contour map.


Results of the Survey:

No significant magnetic anomaly was found on the Shot Claim Group. Contouring of the magnetic values obtained from the survey were compared with the topographical map and it is apparent the gamma values obtained at each station simply recorded variations in topographic elevations with a few exceptions. These exceptions are as follows:

The 'magnetic high' recorded on Shot No.2 Mineral Claim and the gamma values obtained along Line 9200 are interpreted as defining the surface and underground drainage pattern of the areas of these 'highs'. These anomolous readings may be

due to a minor concentration of placer magnetite in the surface and sub-surface drainage channels. On Line 9200 east, the similarity between the magnetic contours opening eastward and the surface draws draining towards Guichon Creek are interpreted as due to slight concentrations of magnetite in the overburden in this area. The source of this magnetite is believed to be the result of erosion of the intrusives to the north-west of the Claim Group where magnetite is a common constituent.

Respectfully submitted,


Roderick Macrae, P. Eng.

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA:

To Wit:

In the Matter of: The Geophysical Survey on
Shot 1 to 8 mineral claims, and Nora No 6 Fr,
and JJM Nos 1 and 2 Frs fractional mineral
claims:

I, Roderick Macrae, Field Engineer, Prospectors Airways Company Limited,
of Vancouver, British Columbia,

in the Province of British Columbia, do solemnly declare that the following expenditures
were incurred in making this survey:

Car rental		\$ 268.45
Labour - 11 days @ \$ 15.00/day		\$ 165.00
Labour - 17 days @ \$ 35.00/day		595.00
Equipment Rental - Magnetometer		
17 days @ \$ 10.00/day		170.00
Gas - 1790 miles @ .03/mile		<u>53.70</u>
total		\$1,252.15

And I make this solemn 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 virtue of the "Canada Evidence Act."

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *25*
day of *January* *1961*, A.D.

Roderick Macrae

Julie Turner

~~Sub-jury Recorder~~
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

In the Matter of

The Geophysical Survey on

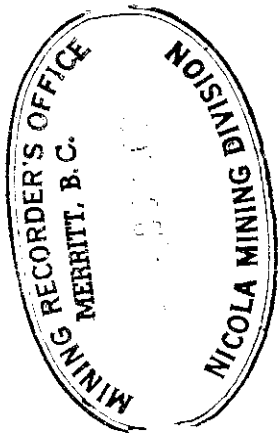
Shot 1 to 8 mineral claims,

and Nora No 6 Fr, and JJM Nos

1 & 2 Frs, fractional mineral claims

Statutory Declaration

(CANADA EVIDENCE ACT)



B. 21
(approx.)

DDH BY OTHERS
260'

HAZEL N° 3

SANDY N° 4

SANDY N° 3

NICOLA-MAMEET

HAZEL N° 4

HAZEL N° 2

HAZEL N° 1

HAZEL N° 5

HAZEL N° 6

72

71

70

69

68

70

69

68

67

66

ETTA N° 1

J.J.M. N° 1 FR

SHOT N° 6

SHOT N° 2

SHOT N° 3

SHOT N° 5

SHOT N° 4

SHOT N° 1 FR

SHOT N° 8

SHOT N° 7

68

67

PRTRICIA FR

OK N° 5 FR

OK N° 2

OK N° 1

NORA N° 1

RRH N° 8

NORA N° 4

NORA N° 3

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 339 MAP 1

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PROSPECTORS AIRWAYS CO LTD
SHOT GROUP
MERRITT, B.C.
MINING DIV: NICOLA
ASKANIA MAGNETOMETER SURVEY
CONTOUR INTERVAL 100 γ READINGS IN GAMMAS.
FIELD WORK by ALEX BURTON : DEC: 1960
SCALE: 1 INCH = 400 FT.
Dec 29/1960