

CONFIDENTIAL

A report on geophysical investigations
on the Hoy mineral claims
by means of a magnetometer reconnaissance
survey.

Dated August 25th., 1955; By: A. Allan

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August 25th., 1955.

Introduction

The Hoy group of mineral claims consists of 32 claims, the Hoy I-24 no's 67391-67414 and the Ted I-8 no's 67383-67390. The group is located about two miles north of the confluence of Blind creek and the Pelly river, a good pack horse trail exists from Prospectors Airways road to the small lake located on the claims. Work consisted of a magnetometer survey on the Hoy claims to determine the extent of the magnetic anomaly discovered during 1954. Work on the Ted group was limited to sufficient trenching to maintain the claims in good standing for two years.

Summary and conclusions

Picket lines were cut out and chained from a base line extending east west across the claims, magnetometer stations were established at 200' intervals along the lines. A Radore vertical intensity magnetometer was used for measuring the vertical component of the magnetic force.

The survey conducted over the claims was essentially a reconnaissance survey with the exception of the Hoy 23 and 24 mineral claims, more detailed work was carried on over these claims to definitely outline the extent of the anomaly found in during routine mapping during 1954.

The anomaly on the Hoy 23 and 24 mineral claims was extended across through the Hoy no's 1 and 2, conforming in general to the strike of the underlying sediments. The highest magnetic intensity measured was in the nature of 3000 gammas over a relatively small area. The western portion of the claims exhibited very little magnetic relief, the readings varied slightly between 700 and 1000 gammas.

Summary and conclusions contd.

The anomaly outlined on the Hoy claims can best be interpreted as a basic dyke striking north west south east and dipping to the north east. The above interpretation is based on the following reasons;

1. The pattern of the anomaly outlines very closely the trace such a dyke would have at surface.

2. The southwestern edge of such a dyke actually outcrops on the west side of the Hoy 24. The vertical intensity starts to rise at this point.

3. The presence of chert along the northeastern edge of the anomaly. This chert was probably formed by the action of the underlying dyke on quartzitic sediments.

4. The highest readings are entirely due to the presence of local concentrations of disseminated magnetite.

In conclusion, the writer feels that the above interpretation is correct and that the anomaly outlined has no economic significance.

Ted group

Rock trenching was carried out on the Ted no.8 sufficient to maintain the claims in good standing for a period of two years.

History

The claims were staked in november 1953, transferred to Alator Corporation in september 1954 and re-transferred to Mr. G. Scott in February 1955. The claims were mapped in the summer of 1954, this work was applied to the claims to maintain them in good standing until 1955.

Geology

The outcrops found on the property during geological mapping in 1954 were few and scattered, the data thus obtained was merely sufficient to indicate that the claims are underlain

Geology contd.

mainly by mica schist, quartzite, interbedded limestone and chert. Prospecting along the magnetometer lines in 1955 failed to add very much in the way of geological information, one outcrop of granodiorite was noted about 700' northeast of the no.1 post on the Hoy 15 M.C.

Topography

The claims lie for the most part on the broad swampy flat between Blind and Vangorda creeks at an elevation of approximately 2250'. This broad flat terminates rather abruptly against a very steep scarp extending east west across the north side of the claims. This precipitous slope extends upwards to about 4400' elevation.

General

A crew of four men were employed to carry out the necessary field work under the direct supervision of A. Allan geologist. Chief of the field party was Mr. G. Peebles.

The baseline was established across the claims with stations chained in at 500' intervals except on the Hoy 23 and 24 where the interval was cut down to 200'. North south lines were cut out from the base stations and magnetometer stations established at 200' intervals.

Every effort was made to insure the accuracy of the magnetometer readings. The Radore vertical intensity magnetometer with scale constant of 9.94 gammas per scale division was calibrated at Prospectors Airways camp to the average reading for the area. A main base station was established at camp lake and the baseline stations were occupied four separate times to determine the mean average reading for each station. Readings were taken at each station on the north south lines and corrected for drift against the baseline stations.

General contd.

The reading thus obtained was recalculated to the main base station and converted to gammas. The final reading thus obtained was plotted on the base map and contours constructed through the points of equal magnetic intensity.

The actual field work was completed in a period of six weeks, an additional ten days were spent on the necessary calculations and preparation of the maps and report.

Recommendations

1. That the work be recorded for the maximum period allowable.
2. That no further work is warranted on the claims.

Acknowledgement

The writer wishes to acknowledge the assistance of Prospectors Airways staff in transmitting radio messages to and from the field crews and in the calibration of the magnetometer.

The field party is to be commended for the expeditious manner in which the field work was carried out and the very excellent quality of the survey in general.

Respectfully submitted,

A.Allan (Geologist).

Exploration Services Ltd.

August 25th., 1955.

Personnel employed

Chief of field party.....	George Peebles.....	\$ 375.00/mo.
Labour.....	H. Skiesna.....	\$ 10.00/day.
Labour.....	J. Laurier.....	\$ 10.00/day.
Labour.....	A. Roberts.....	\$ 10.00/day.
A.Allan	Supervision.....	\$ 20.00/day

Cost summary

Preparation of base maps and preliminary layout.....	\$ 150.00
Line cutting...108,000 ft.....	\$1250.00
Surveying stations and magnetometer readings.....	\$1250.00
Transportation air.....	\$1050.00
Camp and food supplies.....	\$ 675.00
Magnetometer rental @ \$150.00/mo.....	\$ 225.00
Supervision, final report, preparation of maps.....	\$ 440.00

Total	\$5040.00
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A. Allan

A. Allan.

Exploration Services Ltd.

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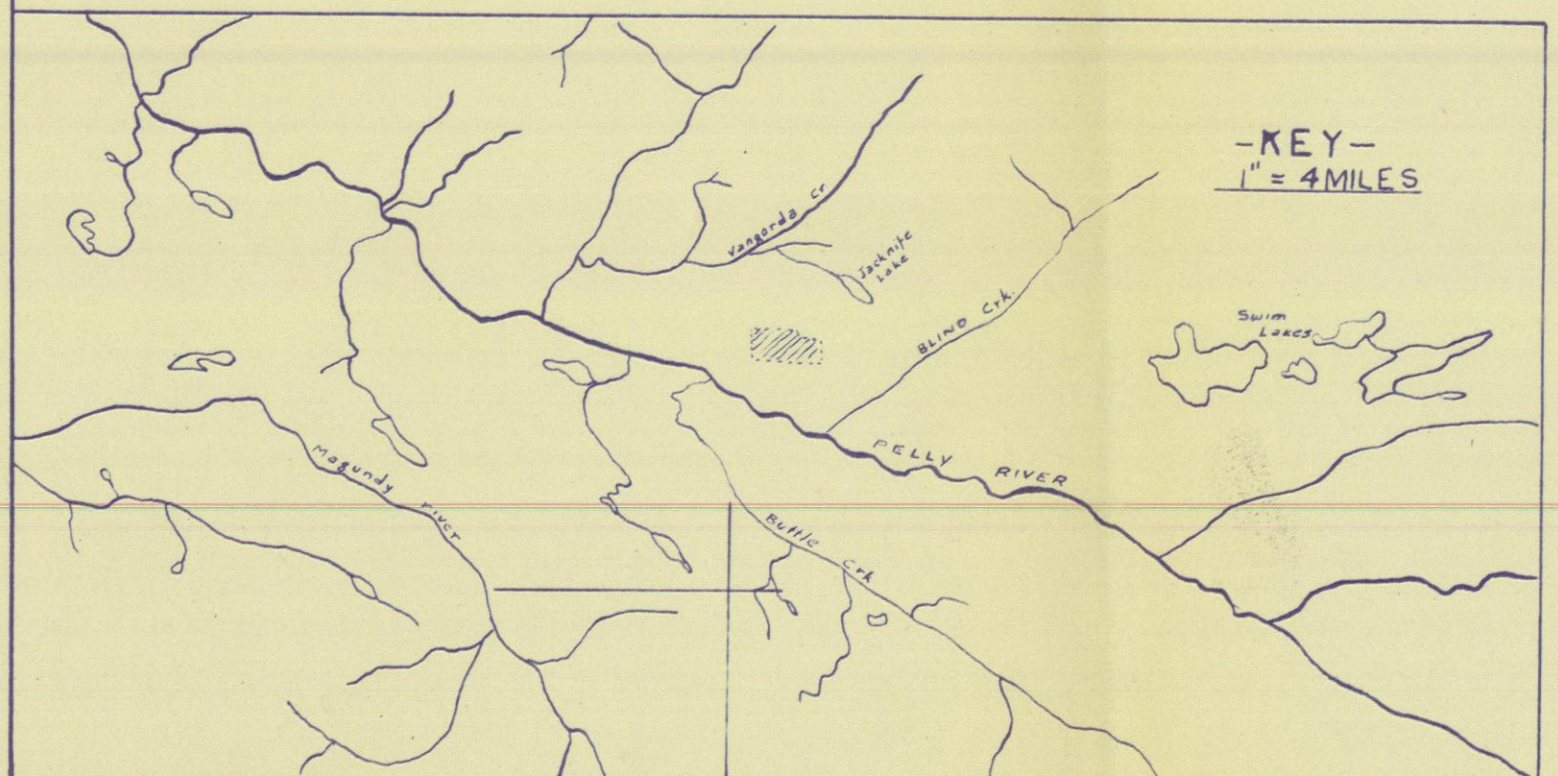
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Commissioner



LEGEND

	LIMESTONE
	SCHIST
	QUARTZITE
	ALTITUDE
	CONGLOMERATE
	BRECCIA
	CHELT, GREENSTONE
	DIORITE OR ANDESITE
	MAGNETOMETER STA.



MAGNETOMETER SURVEY
 HOY GROUP
 PELLY RIVER DISTRICT
 Y.T.
 SCALE 1" = 400'
 BY A. ALLAN
 AUG. 1955