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REPORT ON AEROMAGNETIC SURVEY
ON SOME T AND MA MINERAL CLAIMS
HOPE AREA, BRITISH COLUMBIA
ON BEHALF OF
MT. AGNES MINES LTD. (N.P.L.)

by

Richard O. Crosby, B.Sc., P.Eng.
January 19, 1968

CLAIMS:

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Titles	Record Numbers
T 1 - 8	19185 - 92
MA 1 - 4	19719 - 22
MA 1 - 20	19699 - 718

LOCATION:

Approximately 7 miles north of Hope,
British Columbia
New Westminster Mining Division
49° 28' N - 121° 23' W

DATES: November to December, 1967

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PLATE (in envelope)	
Magnetic Contour Map - Hope Are	ea # 1 #

SEIGEL ASSOCIATES LIMITED GEOPHYSICAL CONTRACTORS AND CONSULTANTS

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REPORT ON AEROMAGNETIC SURVEY
ON SOME T AND MA MINERAL CLAIMS
HOPE AREA, BRITISH COLUMBIA
ON BEHALF OF
MT. AGNES MINES LTD. (N.P.L.)

INTRODUCTION

During November, 1967, an aeromagnetic survey was flown over some T and MA mineral claims, Hope area, British Columbia, on behalf of Mt. Agnes Mines Ltd. (N.P.L.).

The survey area is centered approximately 49° 28' North,

121° 23' West, about 7 miles north of Hope, British Columbia. It is

approximately 3.3 miles in length northwest-southeast by 2.4 miles in

width northeast-southwest. Lines were flown at 1/8 mile intervals,

oriented due northeast-southwest. Some additional lines were flown up

valleys at various headings. All were at a mean terrain clearance of

300 feet. The topography of the grid is extremely rough with 5000 feet

of relief between the highest and lowest points.

A Sharpe NPM-1 total intensity nuclear precession magnetometer was employed on this survey. It was towed on a cable approximately 75 feet below the helicopter. A 16 mm, single frame camera was employed for positioning purposes and a radar altimeter recorded height above the ground. Flight path receovery was achieved through the use of the camera and photomosaics of the area. Photomosaic scale was 1:7920.

The purpose of the aeromagnetic survey was to obtain information relating to the distribution of intrusive bodies containing magnetite. In the present geological environment these localities could be of interest for copper and nickel mineralization.

The aeromagnetic survey was under the direction of Mr. Richard O. Crosby, P.Eng., with assistance from Mr. Ronald Pollard.

PRESENTATION OF DATA

The basic information is presented as a transparent overlay on a scale of 1:7920 and is titled Hope Area # 1. The planimetry on these sheets has been traced from uncontrolled photomosaics employed for navigation purposes. The magnetic values are shown as total intensity contours with a contour interval of 20 gammas. Corrections have been made for diurnal variations and instrumental drift by means of a recording base station and tie lines. These tie lines consist of lines flown at right angles to the flight lines.

DISCUSSION OF RESULTS

The value of the earth's total magnetic field in the survey area is approximately 58,800 gammas at an inclination of -73° 30' north.

The most prominent magnetic feature on the isomagnetic map is a complex positive anomaly located in the southwestern portion of the area reaching a maximum of about 200 gammas above the general background level. Two anomalies having the same amplitude were measured approximately 1500 feet north and 1500 east of this anomaly. The remainder of the magnetic field is flat except for a steep gradient measured over the western portions of Claims T3, T5 and T7 and a linear magnetic feature reaching a maximum of about 120 gammas on flight line 13 in the extreme eastern part of the survey area.

The positive anomalies are interpreted as the magnetic expressions of basic intrusives underlying the survey area and possibly reflecting to some extent the effects of topography.

The gradient band is interpreted as resulting from the edge of a similar basic rock mass not fully covered by the area included in this report.

CONCLUSIONS AND RECOMMENDATIONS .

Since nickel and copper mineralization is known to be associated with basic intrusives in the vicinity of the survey area, the anomalies indicated by the aeromagnetic survey warrant further investigation.

- The positive magnetic anomalies discussed above should be investigated by detailed geologic mapping and ground magnetic profiling to determine the causative sources.
- 2) Stream beds in the area should also be investigated by taking magnetic readings every 100 feet.
- 3) Additional work will be predicated on the results of recommendations 1 and 2 above.

Respectfully submitted,

SEIGEL_ASSOCIATES LIMITED

Richard O. Crosby, P.Eng.

Geophysicist

Vancouver, B.C. January 19, 1968.

DAILY FLIGHT REPORT

rob: M	t. Agnes	Mines	DATE: Nov. 4/67			
REA:	Норе	, B.C.	OPERATOR: R. Pollard			
URVEY T	YPE: Ai	irborne	PILOT: _ L. Beecroft			
SENSITIVITY: 10 gammas/S.D.						FLIGHT No.
	_					
	-	FIDUCIALS TIME			LINE	
INE NO.		The second state of the se	START		LENGTH	REMARKS
1 N	0001	0035	0825	0828		
1 N	0037	0190	0830	0839	3.3	
2 S	0193	0283	0840	0844	3.3	
3 N	0286	0355	0847	-		Circled to gain altitude
3 N	0396	0524	-	0855	3.3	
4 S	527	0618	0856	0900	3.3	
	-					
	-				-	
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DAILY FLIGHT REPORT

JOB: 1	ft. Agnes Mines Ltd.	DATE: November 6/67
AREA:	Hope, B.C.	OPERATOR: R. Pollard
SURVEY TYPE:	Airborne Magnetometer	PILOT: L. Beecroft
SENSITIVITY:	10 gammas/S.D.	FLIGHT No 1

	FIDUC	IALS.	TIN	TIME			
LINE NO.	START	END	START	END	LENGTH	REMARKS	
4 S	0619	0728	1356	1400	3.3		
5 N	0731	0866	1403	1408	3.3		
6 S	0869	0927	1410	-		Circle to gain altitude	
6 S	0955	1023	-	1417	3.3		
7 N	1026	1147	1419	1423	3.3		
8 S	1150	1302	1425	1431	3.3		
9 N	1305	1345	1432	-		Circle to gain altitude	
9 N	1377	1441	-	1437	3.3	The state of the s	
10 S	1444	1564	1439	1445	3.3		
11 N	1567	1671	15-	1514	3.3		
12 S	1674	1809	1515	1521	3.3		
13 N	1812	1936	1522	1528	3.3	Í .	
14 S	1939	2078	1529	1534	3.3		
15 S	2081	2241	1542	1549	3.3		
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DAILY FLIGHT REPORT

JOB: _	Mt. Agn	es Mines Ltd.	DATE: Nove	ember 8, 1967
AREA:	• Но	ppe, B.C.	OPERATOR:	R. Rilard
SURVEY	TYPE:	Airborne Magnetometer	PILOT:	L. Beecroft
SENSIT	IVITY:	10 gammas/S.D.	FLIGHT No.	1

	FIDUCIALS		TIME		LINE	
LINE NO.		END	START	END	LENGTH	REMARKS
16 N	0001	0125	0853	0858	3.3	
17 S	0128	0290	0849 .	0906	3.3	
18 N	0293	0404	0907	0911	3.3	
19 S	0407	0560	0913	0919	3.3	
20 N	0563	0673	0920	0925	3.3	
	-					
					-	
	-			-	-	
		-		1		

TOTAL MILES FLOWN ----

DAILY FLIGHT REPORT

JOB: Mt. A	gnes Mir	nes Ltd		DATE: November 21/67				
AREA: _	Hope, B.	.c.		OPERATOR: R. Pollard				
SURVEY TYPE: Airborne Magnetometer						PILOT: L. Beecroft		
SENSITIV	ENSITIVITY: 10 gammas/S.D.					FLIGHT No. 1		
	FIDUC	CIALS	TIM	ΜE	LINE			
LINE NO.	START	END	START	END	LENGTH	REMARKS		
R 1-N	0001	0061	0322	0325	1.1			
R 2-S	0065	0173	0329	0333	1.4			
R 2-N	0177	0265	0334	0338				
R 3-S	0269	0453	0345	0354	3.3			
R 4-N	0457	0623	0357	0407	3.3	Last part repeated to get on scal		
V 1-W	0627	0698	0412	0415	-6	Line in valley with drillings		
					-			

DAILY FLIGHT REPORT

JOB: Mt.	ignes Mines Ltd.	DATE: November 26, 1967
AREA:	Hope, B.C.	OPERATOR: R. Bllard
SURVEY TYPE:	Airborne Magnetometer	PILOT: T. Scheer
SENSITIVITY:	10_cammas/S_D	FLIGHT No.

LINE NO.	FIDUC	CIALS	TIME		LINE	
	START	END	START	END	LENGTH	REMARKS
R8-W	822	889	1410	1414	3.3	
R9-E	893	943	1414	1416	3.3	
R11-W	947	992	1423	1425	3.3	
R6-S	996	1070	1429	1432	3.3	
R7-N	1074	1135	1433	1435	3.3	
C1-W	1139	1239	1436		3.3	
				-		
14.				-		
	-			-	-	

TOTAL MILES FLOWN ----

DOMINION OF CANADA:

PROVINCE OF BRITISH COLUMBIA.

To WIT:

In the Matter of a geophysical survey on behalf of Mt. Agnes Mines Ltd. (N.P.L.)

Richard O. Crosby

of 115 - 744 West Hastings Street, Vancouver

in the Province of British Columbia, do solemnly declare that an aeromagnetic survey has been executed on some A, I, T and MA claims in the Hope area of British Columbia between November and December, 1967. The following expenses were incurred:

(1) Line Mile Charges 22 line miles @ \$45/line mile

\$ 990.00

(2) Subsistence & Quarters

88.00

repard O. Croshy

\$1078.00

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

day of

1968 , A.D.

L deamotte

A Commissioner for taking Affidavits within British Columbia or A Notary Public in and for the Province of British Columbia.

Sub-mining Recorder

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