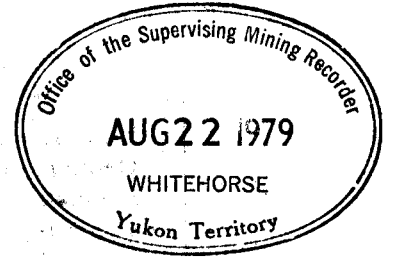




COOT CLAIMS MAGNETOMETER SURVEY

FOR

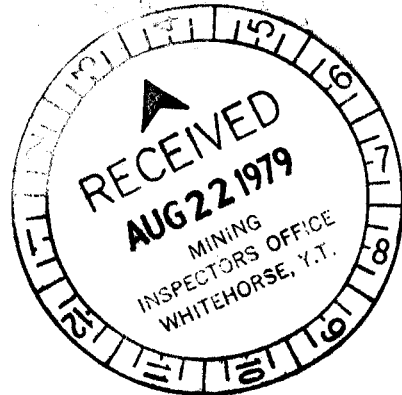


HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

June 13 & 14, 1979

Whitehorse, Y. T.

090488





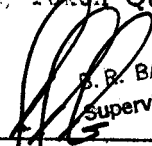
This report has been examined by the  
 Geological Evaluation Unit and is recom-  
 mended to the Commissioner to be consid-  
 ered as representation work in the amount of  
 \$ 5000.00 *Approved*  
J. Amair  
 A/Regional Geologist  
 Resident Geologist for  
 Resident Mining Engineers  
 Considered as representation work under  
 Section 53 (4) Yukon Quartz Mining Act.  
  
 S. R. BAXTER  
 Supervising Mining Recorder  
for Commissioner of Yukon Territory





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(1)

List of Claims

COOT No. 1	YA 23457
COOT No. 2	YA 23458
COOT No. 3	YA 23459
COOT No. 4	YA 23460
COOT No. 5	YA 23461
COOT No. 6	YA 23462
COOT No. 7	YA 23463
COOT No. 8	YA 23464

(2)

Magnetometer Survey Expenditures

Wages.....S. Tufford - June 13 & 14.....	\$ 70.00
B. McTaggart - June 13 & 14.....	\$ 70.00
Camp Costs @ \$15.00/day x 2 men x 2 days.....	\$ 60.00
Helicopter Transport...3.1 hours.....	\$ 1,150.00
Report Preparation....D. Downing 1.5 days.....	\$ 50.00
	<hr/>
Total -	\$ 1,400.00

S. Tufford - Box 4007,  
Whitehorse, Yukon  
Y1A 3S9

B. McTaggart - Box 4007,  
Whitehorse, Yukon  
Y1A 3S9

Introduction

On June 13 and 14, 1979 a magnetometer survey was run over the COOT claims located on claim sheet 115-H-2 at latitude  $61^{\circ}02'30''$  and longitude  $136^{\circ}44'$ . The claims are eight kilometers north west of Moraine Lake covering the end of a low northeast-southwest trending ridge.

A fly camp was set up on the claims with personnel and equipment being mobilized by helicopter from Cracker Creek on the Alaska Highway.

A grid was run on the claims with stations every 25 meters on lines spaced every hundred meters along a northwest-southeast base line. A total of 8.5 kilometers were run using a hand held compass and a belt chain.

A magnetometer survey was conducted over the grid, the results of which are illustrated on the attached map.

Magnetometer Survey

The magnetometer survey was conducted perpendicular to strike over metamorphosed sediments of the Yukon Group. The instrument used was a Scintrex MFZ Fluxgate magnetometer. The survey was run along flagged lines from the southeast to the northwest of the grid.

Magnetic drift was tracked by readings taken three times a day at a base station located in the center of the grid. The average drift per station was added or subtracted from the readings to connect the results to a reference datum.

The results of the survey are illustrated on the enclosed map. A moderate linear magnetic high running parallel to strike is located on claim 4. It closely corresponds to a magnetite, epidote skarn exposed in an old trench. A second much weaker magnetic high is found along the base line between claims 3 and 4. It approximately parallels a thin pyrrhotite, garnet skarn also exposed in an old trench.

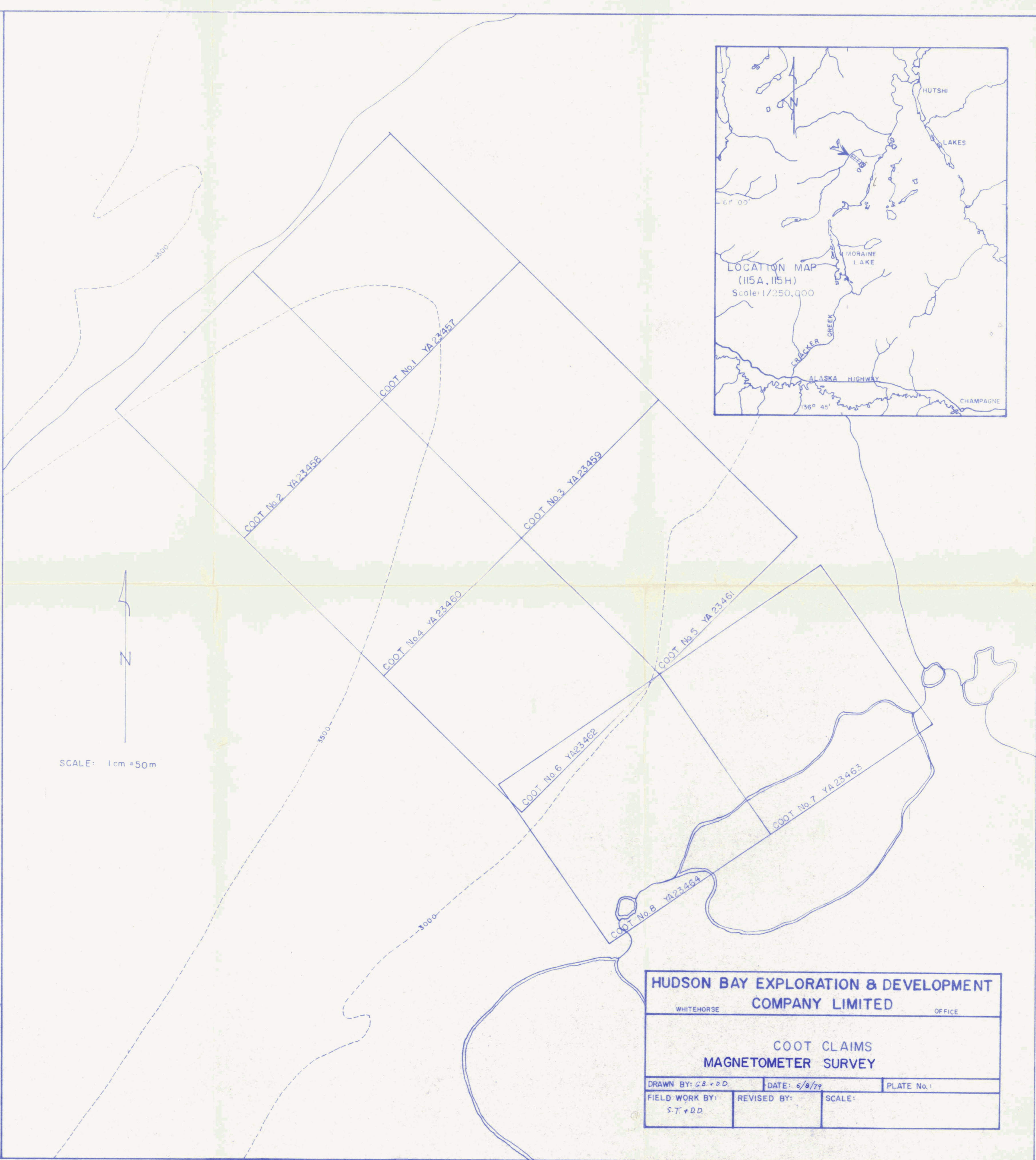
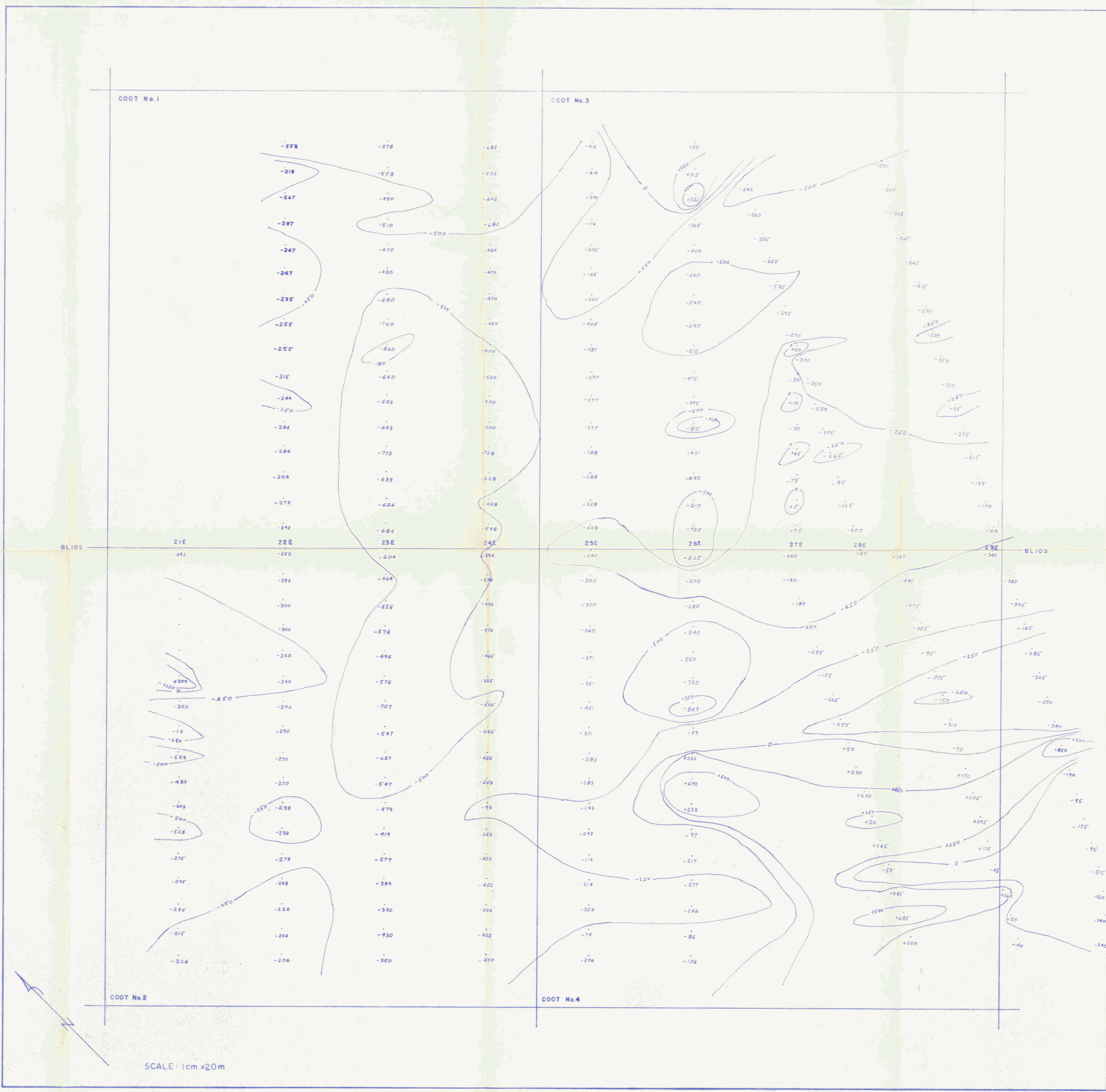
(5)

Conclusions and Recommendations

Two magnetic highs, parallel to strike, reflect magnetite and/or pyrrhotite bearing skarns. It is recommended that a detailed magnetic survey be run over the claims in conjunction with detailed geological mapping in order to evaluate the extent of the skarn zones.

A handwritten signature in black ink, appearing to read 'D. Downing', with a long horizontal flourish extending to the right.

D. Downing,  
Geological Engineer.



HUDSON BAY EXPLORATION & DEVELOPMENT COMPANY LIMITED		
WHITEHORSE	OFFICE	
COOT CLAIMS MAGNETOMETER SURVEY		
DRAWN BY: C.B. + P.D.	DATE: 6/8/79	PLATE No.:
FIELD WORK BY: S.T. + P.D.	REVISED BY:	SCALE: