5669

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

REPORT ON MAGNETOMETER SURVEY

PAM NO. 1 AND PAM NO. 2 GROUPS

by
G.I. Hall

October 14, 1975

#5669

CLAIMS: PAM No. 1 and No. 2 Groups

LOCATION: OMINECA MINING DIVISION
55 miles SW Houston, B.C.
Latitude 53°47'N Longitude 127°00'W
NTS 93 E/14,15 93E/14E, 15W

DATES: June 17, 1975 - July 19, 1975

OWNER: Hudson's Bay Oil and Gas Company Limited

OPERATOR: Hudson's Bay Oil and Gas Company Limited

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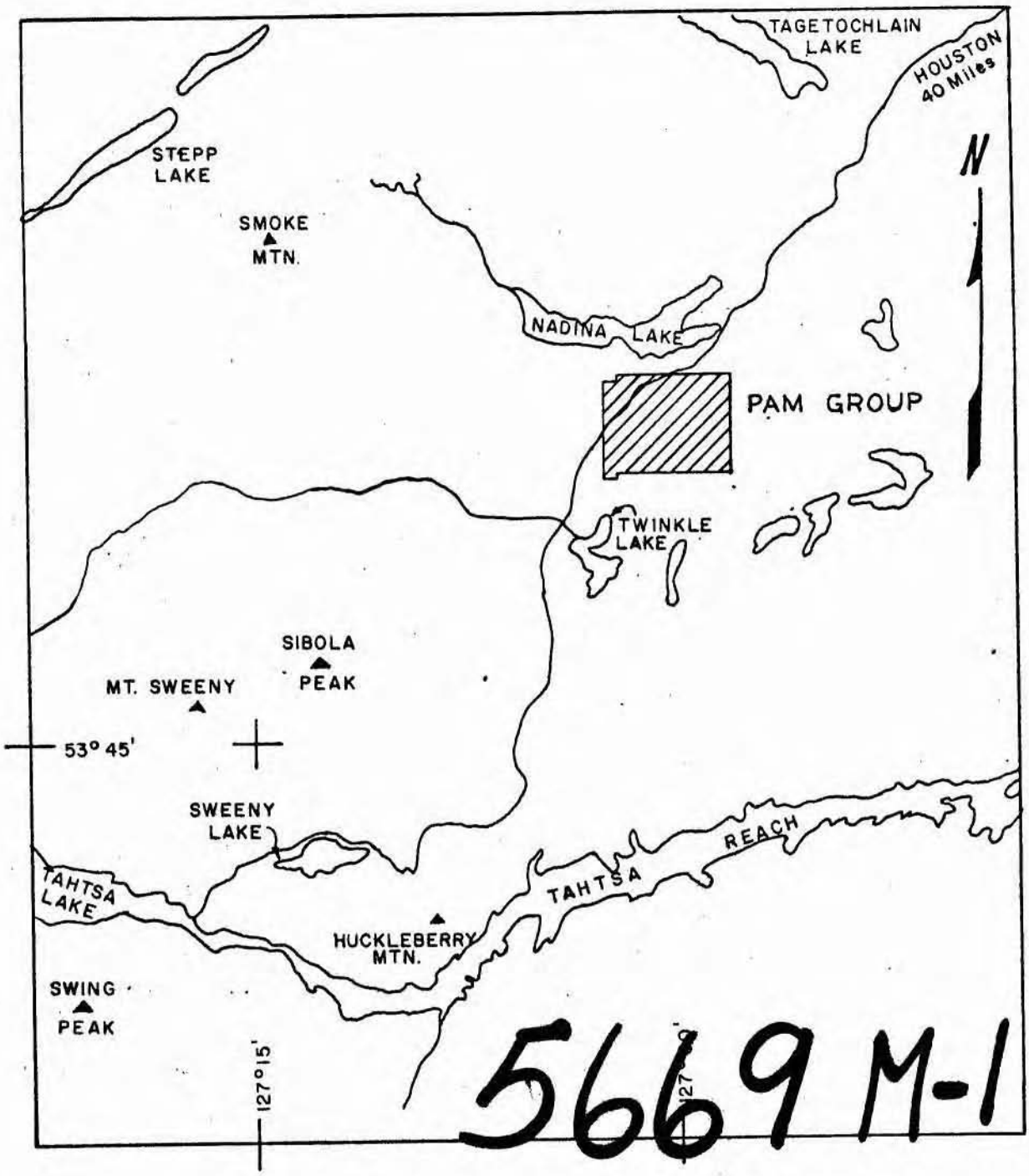
MAPS



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250,000 0 250,000 500,000

Scale 1: 250,000

Hudson's Bay Oil and Gas Company Limited

MINERALS EXPLORATION

VANCOUVER BRITISH COLUMBIA

TAHTSA PROJECT

LOCATION MAP

PAM CLAIMS

MAP	DATE	BY	SCALE	N.T.S.
FIG. 1	Oct 75	M.L.L.	1: 250,000	93 E 14

INTRODUCTION:

A ground magnetometer survey was completed over all PAM claims along flagged grid lines 150 metres apart. The survey was carried out from June 17 to July 19, 1975.

LOCATION:

The PAM claims are located two miles south of the southeastern arm of Nadina Lake, 55 miles southwest of Houston, B.C. Latitude 53°47'N, Longitude 127°00'W, NTS 93 E/14,15.

ACCESS:

The Tahtsa Forestry Access road passes through the northwestern corner of the claim block. The Dina Forestry Tower access road passes through the northeastern corner of the claim block. Approximately 7 kilometres of drill access trail were constructed in 1974 and 1975 on the claim block.

CHAIN AND COMPASS GRID:

A control grid of approximately 75 line kilometres was established on the PAM claims by means of a chain and compass survey. North-south lines were flagged 150 metres apart, with station spacings measured at 30 metre intervals.

MAGNETOMETER SURVEY:

A. Instrumentation

A proton precession magnetometer model G-816 was used for the survey. The total field is measured to the nearest 10 gammas with the sensing bottle carried on the surveyor's back.

B. Method of Survey

Base stations were established at 150 metre intervals along the control grid base line (50+00W) so that diurnal drift corrections and daily variations in the magnetic field could be made. Readings were taken during the survey at these base stations at intervals not exceeding two hours, and usually less than one hour.

Three readings were taken at each station 30 metres apart along the flagged lines 150 metres apart. The readings were averaged and corrected for diurnal drift and daily variations. The corrected values

in gammas were plotted on the accompanying map. M.L. Legros and J. Bennett conducted the survey.

C. Interpretation

Add 57,000 gammas to the values on the map to obtain the total intensity of the magnetic field at each station.

The values were contoured with a 500 gamma contour interval. The anomalous area in the northeastern part of the claim block is underlain by interbedded andesitic and tuffaceous volcanic rocks that are moderately magnetic, although no magnetite was seen in the fine-grained rocks. The other anomalous zones (above 57,000 gammas) have an east-northeasterly trend conforming to the regional strike of the rocks in the area. Magnetite was observed along fractures in brecciated andesite on line 50+00W just north of the small lake at the southern end of the line. The anomalous zone just north of the base line between lines 29+00W and 38+00W reflects abundant outcrop composed of andesitic volcanics, in part amygdaloidal. No magnetite was observed. The anomalous area to the west is underlain by overburden.

G. I. Hall

G.I. Hall Oct. 21, 1975

GIH:kdl

The work described in this report was done under my general supervision

Kenneth C. Rose

Kenneth C. Rose, P.Eng., B.C.

APPENDIX

LIST OF CLAIMS AND DISTRIBUTION OF WORK

Claim No.	Record No.	Record Date	Years Applied
PAM NO. 1 GROUP			
PAM 3-5	129564-566	October 24	2 (1977)
6	129567	October 24	3 (1978)
7	129568	October 24	2 (1977)
8	129569	October 24	3 (1978)
9	129570	October 24	2 (1977)
10	129571	October 24	3 (1978)
11	129572	October 24	2 (1977)
12	129573	October 24	3 (1978)
13-16	129574-577	October 24	2 (1977)
21	129582	October 24	2 (1977)
22	129583	October 24	3 (1978)
23	129584	October 24	3 (1978)
24	129585	October 24	2 (1978)
25	129586	October 24	2 (1978)
26	129587	October 24	1 (1977)
27	129588	October 24	2 (1978)
28	129589	October 24	1 (1977)
29	129590	October 24	2 (1978)
30	129591	October 24	1 (1977)
31	129592	October 24	1 (1977)
32	129593	October 24	1 (1977)
33	129594	October 24	2 (1977)
34	129595	October 24	2 (1977)
36	129597	October 24	2 (1977)
53	129614	October 24	2 (1977)

LIST OF CLAIMS AND DISTRIBUTION OF WORK

Claim No.	Record No.	Record Date	Years Applied
PAM NO. 2 GROUP			
PAM 39-42	129600-603	October 24	1 (1976)
43-50	129604-611	October 24	1 (1977)
51-52	129612-613	October 24	1 (1976)
59	129620	October 24	1 (1976)
61	129622	October 24	1 (1976)
63	129624	October 24	1 (1976)
65	129626	October 24	1 (1976)
67	129628	October 24	1 (1976)
69	129630	October 24	1 (1976)

STATEMENT OF COSTS

Establish grid system of N-S lines
150 metres apart. Total 75 line km.

18 days @ $100/day	$1800
18 days @ $75/day	1350
24 days @ $40/day	960
Ground Magnetometer Survey	
75 Line km.	
23 days @ $40/day	920
Accommodation	
83 man days @ $15/day	1245
Vehicle Costs	
41 days @ $20/day	820
Flagging Tape	
200 rolls @ $1.00/roll	200
	$7295

LIST OF PERSONNEL

Name	Position	Days on Project	Rate
G.I. Hall	Geologist	June 8-16, 18-22, 24-27 (GRID)	$100/day
D.B. Kilby	Geologist	June 8-16, 18-22, 24-27 (GRID)	$ 75/day
M.L. Legros	Technician	June 8-13, 15-18, 27-28 (GRID) June 19-22, 24-26 (MAG) July 15-17, 19 (MAG)	$ 40/day
J. Bennett	Technician	June 8-13, 15-18, 27-28 (GRID) June 19-22, 24-26 (MAG) July 15-19 (MAG)	$ 40/day

STATEMENT OF QUALIFICATIONS

G.I. Hall Geologist	B.Sc., Geology, 1965	Michigan Technical University Houghton, Michigan
	M.S. Geology, 1970	University Wisconsin-Milwaukee Milwaukee, Wisconsin
M.L. Legros Technician	Mining Technology, 1973	B.C.I.T., Vancouver,
J. Bennett Technician	Mining Technician, 1970	Haileybury School of Mines

LEGEND

PAM NO.1 GROUP

PAM NO. 2 GROUP

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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
5669 MAP 2

to accompany REPORT ON MAGNETOMETER SURVEY
Pam No 1 and Pam No 2 Groups
by G.I. HALL Oct 14, 1975

Scale in Metres

50 foot contour interval

Hudson's Bay Oil and Gas Company Limited
MINERALS EXPLORATION
VANCOUVER BRITISH COLUMBIA

TANTSA PROJECT
PAM CLAIMS

MAP	DATE	BY	SCALE	N.T.S.
Fig 2	Oct 1975	M.L./J.S.B.	1" = 500 ft	93E/14-15

PAM NO 1 GROUP

PAM NO 2 GROUP

71+00N
68+00N
65+00N
62+00N
59+00N
56+00N
53+00N
50+00N
47+00N
44+00N
41+00N
38+00N
35+00N

62+00W
60+50W
59+00W
57+50W
56+00W
54+50W
53+00W
51+50W
50+00W
48+50W
47+00W
45+50W
44+00W
42+50W
41+00W
39+50W
38+00W
36+50W
35+00W
33+50W
32+00W
30+50W
29+00W
27+50W
26+00W
24+50W
23+00W
21+50W

127°03'
127°02'
127°01'
127°00'
126°59'
126°58'

53°52'
53°51'

LEGEND

1000 Magnetic susceptibility in gammas (add 57,000 for total field values)

1500 Magnetic contour in gammas Contour interval 500 gammas

Claim block outline

Drill access road

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5669 MAP 3

to accompany Report on Magnetometer Survey Pam No. 1 and Pam No. 2 Groups by G.L. Hall Oct. 16, 1975

500 250 0 500 1000 1500
Scale in Feet

100 50 0 100 200 300 400
Scale in Metres

50 foot contour interval

Grid co-ordinates in metres.

G. L. Hall

Hudson's Bay Oil and Gas Company Limited
MINERALS EXPLORATION
VANCOUVER BRITISH COLUMBIA

TAHTSA PROJECT

PAM CLAIMS

MAGNETOMETER SURVEY RESULTS
CONTOUR MAP

MAP	DATE	BY	SCALE	N.T.S.
Fig 3	Oct. 1975	M.L.L./J.S.B.	1" = 500 ft	93E/14-15