

# 5213

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

93E/14E 93E/14E

REPORT  
ON  
PERCUSSION DRILLING PROGRAMME  
SYLVIA NO. 1 GROUP

5213

by  
D.B. Kilby  
October 18, 1974

CLAIMS: Sylvia Mineral Claims Nos. 1-36

LOCATION: Omineca Mining Division  
Sixty miles southwest of Houston, B.C.  
Latitude 53°47'N Longitude 127°07'W  
NTS 93 E/14

DATES: September 9 to October 5, 1974.

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5213	MAP.....

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STATEMENT OF COSTS INCURREDI ROAD CONSTRUCTION

Bulldozer work was contracted to Claude Perreault, P.O. Box 2677, Smithers, B.C. Slash cutting was done by Gerard Auger, P.O. Box 1055, Smithers, B.C. and by company personnel.

Costs of road construction on the SYLVIA No. 1 Group are as follows:

37 hours bulldozer work at \$25/hour (see invoice)	\$	925.00
2 man days at \$100/day (see invoice)	[	200.00
3 1/2 days at \$75/day	cutting slash [	262.50
4 1/2 days at \$50/day	[	225.00
Room and board 15 man days at \$15/day		225.00
		<u>\$1,837.50</u>

II PERCUSSION DRILLING

Percussion drilling was contracted to L & L Drilling and Explorations Ltd., Box 43, Cache Creek, B.C. (See Appendix)

Costs of drilling done on SYLVIA No. 1 Group are as follows:

920 feet of percussion drilling at \$2.70/foot	\$2,484.00
4 days on water truck at \$30/day	120.00
	<u>\$2,504.00</u>

III GEOCHEMICAL ANALYSIS

Geochemical sample preparation and analysis was conducted by Vancouver Geochemical Laboratories Ltd., 1521 Pemberton Avenue, North Vancouver, B.C. and by Bondar-Clegg & Company Ltd., 1500 Pemberton Avenue, North Vancouver, B.C.

Costs of analysis of percussion drill samples from the SYLVIA No. 1 Group are detailed in enclosed invoice. (See Appendix)

65 percussion drill samples	\$	346.07
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IV PLANNING AND REPORT PREPARATION

The drilling programme layout, spotting and supervision was done by G.I. Hall. Costs are as follows:

Layout, spotting and supervision - 4 days at \$100/day	400.00
Report writing and draughting - 2 days at \$75/day	150.00
	<u>\$ 550.00</u>

V LIST OF PERSONNEL

<u>Name</u>	<u>Position</u>	<u>Days on Project</u>	<u>Rate</u>
G.I. Hall	Geologist	Oct. 1,2,3,4	\$100/day
D.B. Kilby	Geologist	Sept. 24,25 Oct. 3,5,16,17	\$ 75/day
E.A. Schink	Temporary Geologist	Sept. 24,25,30 Oct. 3,5	\$ 50/day
G. Auger	Slash Cutter	Sept. 9,10	\$100/day
Claude Perreault	Bulldozer Operator	Sept. 19,20,23, 24,25	Contractor
Lorne Spence	Driller	Oct. 1,2,3,4	Contractor
Wendell Clarke	Driller's Helper	Oct. 1,2,3,4	Contractor

LIST OF CLAIMS AND DISTRIBUTION OF WORKSYLVIA NO. 1 GROUP

<u>Claim No.</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Years of Work Applied</u>
Sylvia No. 1	126828	July 30	1
2	29	"	1
3	126830	"	1
4	1	"	1
5	2	"	1
6	3	"	1
7	4	"	1
8	5	"	1
9	6	"	1
10	7	"	1
11	8	"	1
12	9	"	1
13	126840	"	1
14	1	"	1
15	2	"	1
16	126843	"	1
17	129380	Oct. 24	-
18	1	"	-
19	2	"	-
20	3	"	1
21	4	"	-
22	5	"	1
23	6	"	-
24	7	"	1
25	8	"	-
26	9	"	1
27	129390	"	-
28	1	"	-
29	2	"	1
30	3	"	1
31	4	"	-
32	5	"	-
33	6	"	1
34	7	"	1
35	8	"	1
36	129399	"	1

## INTRODUCTION:

### General Statement

The Sylvania No. 1 Group is comprised of the Sylvania Nos. 1-36 mineral claims. The claims are owned by Hudson's Bay Oil and Gas Company Limited, 171 Pemberton Avenue, North Vancouver, B.C. Exploration work in 1974 consisted of a percussion drill programme under the supervision of G.I. Hall.

### Location

The property is located at 53°47'N latitude, 127°07'W longitude, about sixty miles southwest of Houston, B.C. The claims are centred on Glacier Creek about five and one-half miles WSW of where Glacier Creek enters Nadina Lake.

### Access

Access is via sixty miles of forest access road from Houston, B.C. to Twinkle Lake, then by seven and one-half miles of four-wheel drive road to the test area. Access to the drill sites is provided by approximately nine thousand feet of dry weather roads.

### Physiography

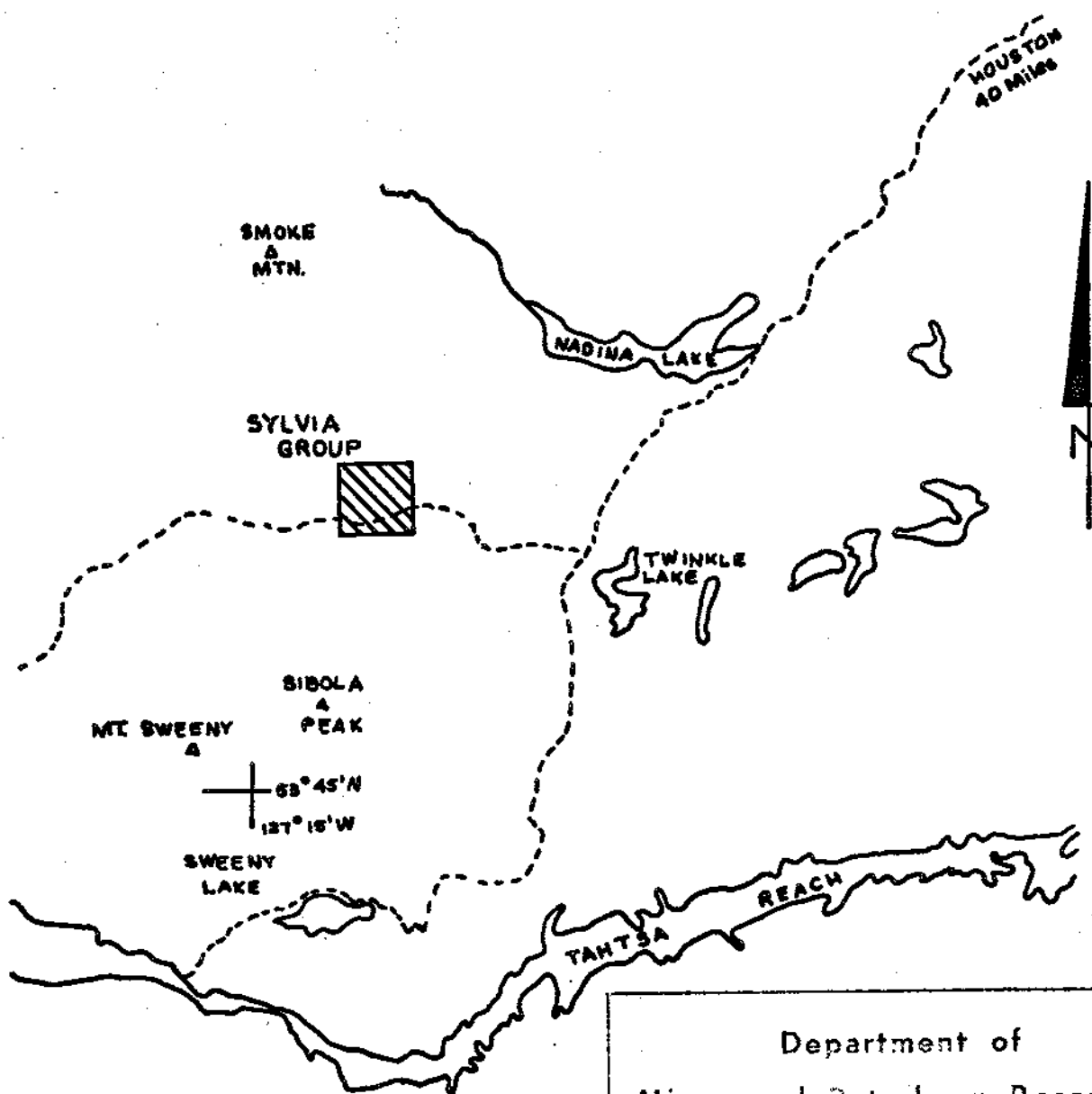
The claims are situated on both sides of and including the valley of Glacier Creek. Overburden depths range from forty feet on the hillsides to over one hundred feet in the valley bottom. Outcrop is scarce and limited to ridge tops.

Vegetation is mainly open stands of pine and spruce. Undergrowth is not thick anywhere on the property.

## PERCUSSION DRILLING PROGRAM:

### Equipment and Sampling Procedure

Equipment used by L & L Drilling and Exploration Limited consisted of a truck mounted, compressed air percussion drill with a two inch bore. Water was used as a cooling medium during drilling. Drill sites and access roads had been cleared by D-6 bulldozer under rental agreement from Claude Perreault of Smithers, B.C.



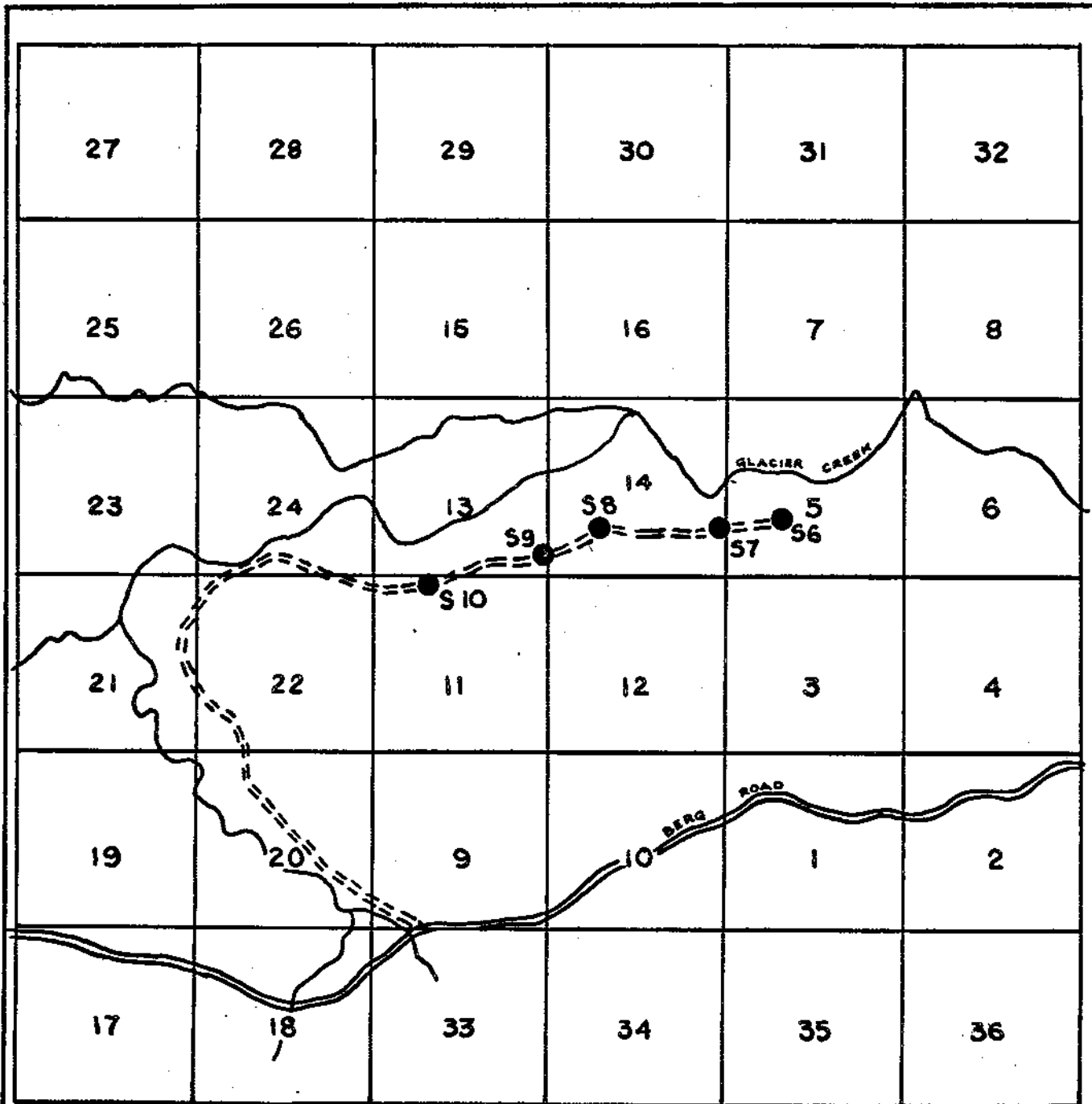
Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. **5213** MAP **#1**

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

TAHTSA PROJECT  
 LOCATION MAP  
 SYLVIA GROUP



MAP FIG. 1	DATE Oct. 18/74	BY D. B. K.	SCALE 1:250,000	N.T.S. 93E/14
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Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. **5213** MAP # **2**

**SYMBOLS**  
 BULLDOZED ACCESS TRAIL  
 PERCUSSION DRILL HOLE

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

TAHTSA PROJECT  
 PERCUSSION DRILL HOLE LOCATIONS  
 SYLVIA GROUP



MAP Fig. 2	DATE Oct. 18/74	BY D. B. K.	SCALE 1" = 1/4 mi.	N.T.S. 93E/14
---------------	--------------------	----------------	-----------------------	------------------



Samples of drill cuttings were collected for each ten foot run by means of a classifier which separated one-eighth of the total cuttings for each ten foot run. The samples were placed in marked plastic bags and allowed to settle until the majority of the fines were no longer visible. The excess water was decanted and a representative sample of the cuttings was obtained for further examination before final packaging was completed for delivery to the analytical laboratory.

### Analysis

The percussion drill cuttings were analysed by atomic absorption methods at Bondar-Clegg and Company Ltd.'s laboratory and at Vancouver Geochemical Laboratories. Samples were tested for copper, molybdenum, lead, zinc and silver. The sample preparation and analytical procedure is given in Appendix II.

### Results and Conclusions

Results showing metal values are compiled on forms. (See Appendix III) Significant copper values were found only in hole S-8 where two hundred feet of 0.33% copper was found. Accompanying molybdenum and silver values make this an encouraging hole. Holes drilled to the east and west of S-8 however, showed no significant mineralization.

*Daniel B. Kilby*

D.B. Kilby

DBK:kd1

APPENDIX I





# L & L DRILLING and EXPLORATIONS LTD.

Box 43, Cache Creek, B.C. Phone 457-9969 (Evenings)

October 19, 1974

**RECEIVED**

OCT 22 1974

HUDSON'S BAY  
OIL & GAS CO. LTD.

Mr. Kenneth C. Rose,  
Manager-Western Division,  
Minerals Exploration Dept.,  
Hudson's Bay Oil & Gas Company Ltd.,  
171 Pemberton Ave.,  
North Vancouver, B.C.

Dear Mr. Rose:

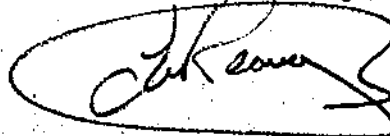
The following is a statement of our account for percussion drilling on your claim group near Twinkle Lake, B.C. during the period Oct. 1 to Oct. 16, 1974.

Hole No.	Bedrock Depth	Feet Cased	Total Depth	
P56	45	30	195'	} Sylvia + 4 days on water truck.
P57	75	30	200'	
P58	20	20	230'	
P59	10	10	230'	
P510	-	50'	65'	
P SE1	110	40	200'	} Slide No. 1 Group + 2 days on water truck.
P SE2	140	60	200'	
P SE3	-	50	85'	
P SE4	-	70'	95'	
P SE5	-	50	55'	
P SW1	45	20	120'	} Pam Group.
P SW2	78	20	80'	
P SW3	50	50	70'	
P 15	10	10	230'	
P 16	10	10	230'	
P 17	70	40	230'	
P 18	-	40	70'	
Oct. 15 and 16 drill results phoned in			245'	
			<u>2830'</u>	

2830 at 2.70 per foot \$ 7,641.00  
 Water truck 13 days at 30.00 per day 390.00  
 Travelling time 1 1/2 hrs./man at 6.00 per hr. 18.00  
 Pulling stuck casing Oct. 14/74 2 hrs. at 32.00/hr 64.00  
 Invoice dated Oct. 3, 1974 7,098.00

\$ 15,211.00

Yours truly,



WESTERN DIVISION LIMITED

WESTERN DIVISION LIMITED
CHARGE TO:
VERIFIED BY
FINAL APPROVAL



VANGEOCHEM LAB LTD.

604-988-2172

1521 PEMBERTON AVE., NORTH VANCOUVER, B.C.  
CANADA

IN ACCOUNT WITH:

Hudson's Bay Oil and Gas,  
171 Pemberton Avenue,  
North Vancouver, B. C.

INVOICE: 3160

DATE: October 16, 1974

TERMS: NET 21 DAYS

FOR REPORT 74-46-014  
Job # 74-274

PROJECT: Tahtsa 4030

ORDER NO.

*Drill cut.*

42 rock samples for preparation	@ \$ 1.00 ✓	\$ 42.00
42 geochem analyses for Mo, Cu, Pb, Zn, Ag	@ \$ 2.80 ✓	117.60
		\$ <u>159.60</u>
Plus shipping charges as per attached waybill # E910012		<u>16.80</u> ✓
	Total	\$ <u>176.40</u> ✓

14 samples	Sylvia	\$ 58.80
28 samples	Slide	\$ 117.60





# BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z6

PHONE: 237-3110

Hudson's Bay Oil & Gas Co. Ltd.  
171 Pemberton Avenue  
North Vancouver, B.C.

8518  
INVOICE: No **8518**  
DATE: Oct. 11, 1974  
REPORT NO: 24 - 790  
PROJECT:  
W.O. NO. 5944

27	Copper Lead Zinc Molybdenum Silver	Analyses @ \$3.00	\$81.00
27	Sample Preparations	@ \$1.00	27.00
	Excess wetness (90lb. @ 20¢/lb.)		18.00
	Shipping Charge		<u>10.95</u>
			<u>\$136.95</u>

*5/26/74*

HBOG MINING LIMITED

WESTERN DIVISION
CHARGE NO: <i>m 276-7076-4030-587</i>
VERIFIED BY
FINAL APPROVAL <i>[Signature]</i>

**RECEIVED**

OCT 15 1974

Hudson's Bay  
OIL & GAS CO. LTD.

dmr



APPENDIX II

# Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE: 604-988-2171

J. R. WOODCOCK  
CONWAY CHUN

**TO:**

Hudson's Bay Oil & Gas Co. Ltd.,  
171 Pemberton Avenue,  
North Vancouver, B.C.

**FROM:**

Mr. Laurie Nicol, Supervisor Chemist  
Vancouver Geochemical Laboratories Ltd.  
1521 Pemberton Avenue  
North Vancouver, B. C.

**SUBJECT:** Analytical procedure used to process acid soluble molybdenum in geochemical samples received from

1. Sample Preparation

- (a) Geochemical soil, silt and rock samples were received in the laboratory in wet-strength  $3\frac{1}{2}$  x  $6\frac{1}{2}$  Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven.
- (c) The dried soil and silt samples were sifted, using an 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (d) The dried rock samples were crushed and pulverized to minus 80-mesh. The pulverized sample was then put in a new bag for later analysis.

2. Methods of Digestion

- (a) 1.00 gram or 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).

Continued . . . .

2. Methods of Digestion (Continued)

(c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

Molybdenum analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 with a molybdenum hollow cathode lamp. The digested samples were aspirated directly into a nitrous oxide acetylene flame. The results were read out on a Photovolt Varicord Model 43 chart recorder. The molybdenum values, in parts per million, were calculated by comparing a set of molybdenum standards.

4. The analyses were supervised or determined by Mr. Conway Chun, or Mr. Laurie Nicol and their laboratory staff.



L.J. Nicol

VANCOUVER GEOCHEMICAL LABORATORIES LTD.

LJN/ati



VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-988-2172

TO:

Hudson's Bay Oil & Gas Co. Ltd.,  
171 Pemberton Avenue,  
North Vancouver, B.C.

FROM: Mr. Laurie Nicol, Supervisor Chemist,  
Vangeochem Lab Ltd.,  
1521 Pemberton Avenue,  
North Vancouver, B. C.

SUBJECT: Analytical procedure used to determine acid soluble  
Cu, Pb, Zn & Ag in geochemical samples received from

1. Sample Preparation

- (a) Geochemical rock, soil, or silt samples were received in the laboratory in 8" x 13" plastic sample bags, in 4½" x 9" cotton mailing bags or in wet-strength 3½ x 6½ Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven.
- (c) The dried soil and silt samples were sifted by using a shaking machine using an 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (d) The dried rock samples were crushed and pulverized to minus 80-mesh. The pulverized sample was then put in a new bag for later analysis.

Continued . . . . .

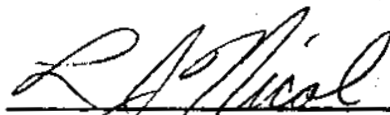
2. Methods of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).
- (c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

Cu, Pb, Zn & Ag analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with their respective hollow cathode lamp. The digested samples were aspirated directly into an air and acetylene flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit.

- 4. The analyses were supervised or determined by Mr. Conway Chun, or Mr. Laurie Nicol and their laboratory staff.



L. J. Nicol

VANGEOCHEM LAB LTD.

LJK/bjs

BONDAR-CLEGG & COMPANY LTD.

Method of Determination for Cu, Pb, Zn, Mo, Ni, Co, Cd, Fe,  
and Mn (semi-quant.).

Samples are:

1. Dried in infra-red driers
2. Sieved to -80 mesh
3. Weighed on 0.5 gm.
4. Digested in LeFort aqua regia for three hours or per arrangement with clients.
5. Bulked to 20% acid concentration and homogenized.
6. Allowed one hour setting time
7. Analyzed by atomic absorption in constant comparison with both synthetic and matrix standards.
8. Permanently recorded on chart paper.

Ken Bright, Geol. E.

APPENDIX III







HUDSON'S BAY OIL & GAS COMPANY LIMITED

D R I L L L O G

HOLE NO. 74 S-8 TYPE PERCUSSION PROPERTY SYLVIA

LOCATION on SYLVIA 14 Claim 500 feet NE of #1 Post.

BEGAN October 3, 1974 COMPLETED October 3, 1974 DEPTH 230'

ANGLE -90° SAMPLES LOGGED BY G.I. Hall DATE October 16, 1974

INTERVAL	LITHOLOGY	ALTERATION	A S S A Y					
			Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm	
0-23 feet	Overburden							
23-30	No sample							
30-40			2200	45	9	60	2.6	
40-50			3400	130	9	65	4.6	
50-60			5100	500	11	89	6.2	
60-70			5500	1320	31	104	15.0	
70-80			4550	400	17	111	6.8	
80-90			2850	260	13	93	4.3	
90-100			1600	285	23	102	2.5	
100-110			950	181	14	48	1.8	
110-120			1280	173	19	79	2.2	
120-130			2000	260	14	84	3.3	
130-140			2700	112	10	78	3.8	
140-150			6350	96	10	100	8.2	
150-160			4550	63	10	96	5.3	
160-170			3500	54	11	98	4.6	
170-180			3000	42	16	98	5.4	
180-190			3500	49	11	100	4.7	
190-200			5550	54	14	103	7.2	
200-210			2400	30	13	90	3.4	
210-220			3300	29	13	89	4.7	
220-230	END OF HOLE		2650	46	10	64	3.1	

HUDSON'S BAY OIL & GAS COMPANY LIMITED

D R I L L L O G

HOLE NO. 74 S-9 TYPE PERCUSSION PROPERTY SYLVIA

LOCATION on SYLVIA 13 Claim, 150 feet north of #1 Post

BEGAN October 3, 1974 COMPLETED October 4, 1974 DEPTH 230'

ANGLE -90° SAMPLES LOGGED BY G.I. Hall DATE October 16, 1974.

INTERVAL	LITHOLOGY	ALTERATION	A S S A Y				
			Cu	Mo	Pb	Zn	Ag
			ppm	ppm	ppm	ppm	ppm
0-20 feet	Overburden	No sample					
20-30			248	7	6	81	1.1
30-40			190	6	11	77	1.0
40-50			258	4	7	75	1.1
50-60			104	2	6	73	1.0
60-70			85	9	7	76	1.0
70-80			140	5	10	67	1.0
80-90			87	4	8	76	1.1
90-100			122	3	15	82	3.8
100-110			240	3	15	85	2.0
110-120			85	3	15	95	1.9
120-130			77	5	22	99	1.7
130-140			365	6	32	125	2.8
140-150			155	4	145	115	2.8
150-160			105	5	60	90	2.4
160-170			90	4	35	85	1.9
170-180			115	5	30	100	2.0
180-190			85	4	23	75	1.6
190-200			70	3	15	65	1.2
200-210			65	4	15	60	1.0
210-220			65	6	42	110	1.6
220-230			100	5	28	85	2.0

END OF HOLE

