



CORE LABORATORIES CANADA LTD
 PETROLEUM RESERVOIR ENGINEERING
 EDMONTON CALGARY REGINA
WATER ANALYSIS



File CBH-2-844

Company Banff Oil Ltd
 Well Name Sogopet Aquit Kaskattama Prov. #1 Sample No 1
 Formation Pagwa Fm. Depth to 1174
 Location _____ Field Wildcat Province Manitoba
 Date Sampled Oct. 3, 1966 Date Analyzed Oct. 25, 1966 Analyst BV JK
 Sampled From Flowing Well Flare Line By _____
 Recovery _____ Elevation KB 30.0', Grd. 15.3'

Constituents

1 Total Solids 21,064 mg/liter 2 pH 8.66 3 Sp Gr 1.0153 @60°F
 4 Resistivity 0.342 Ohm-meters @ 72 °F 5 H₂S Absent

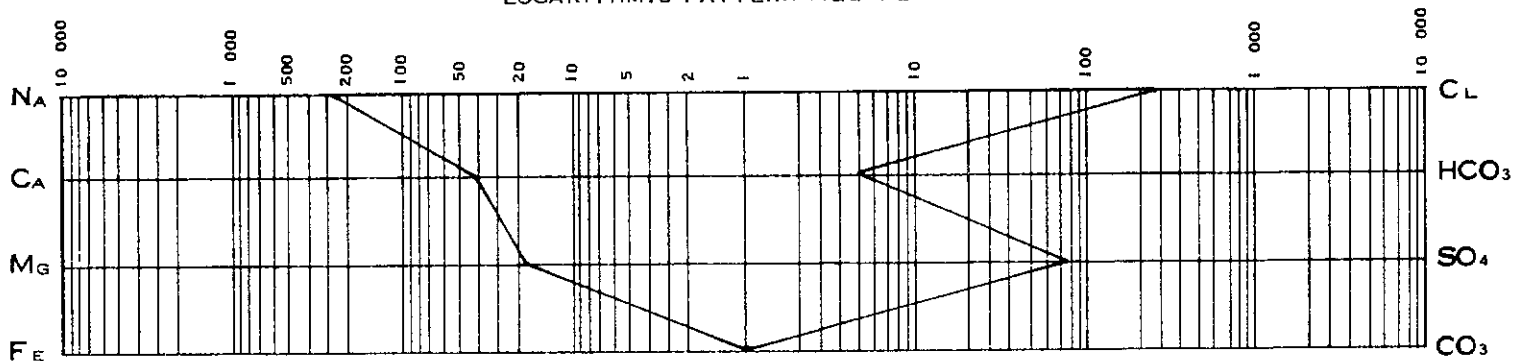
MILLIGRAMS PER LITER

NA & K	CA	MG	FE	BA		CL	HCO ₃	SO ₄	CO ₃	OH	
6580	860	225	Absent	Absent		9452	305	3620	22	Absent	

MEQ PER LITER

286.1	42.9	18.5	Absent	Absent		266.5	50	75.3	0.7	Absent	
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LOGARITHMIC PATTERN MEQ PER LITER





CORE LABORATORIES CANADA LTD
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WATER ANALYSIS



File CBH-2-844

Company Banff Oil Ltd

Well Name Sogopet Aquit Kaskattama Prov. #1 Sample No 2

Formation Pagwa Fm. Depth to 1174

Location _____ Field Wildcat Province Manitoba

Date Sampled Oct. 3, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Flowing Well Flare line By _____

Recovery _____ Elevation KB 30.0', Grd. 15.3'

Constituents

- 1 Total Solids 20,989 mg/liter 2 pH 8.62 3 Sp Gr 1.0148 @60°F
 4 Resistivity 0.336 Ohm-meters @ 72 °F 5 H₂S Absent

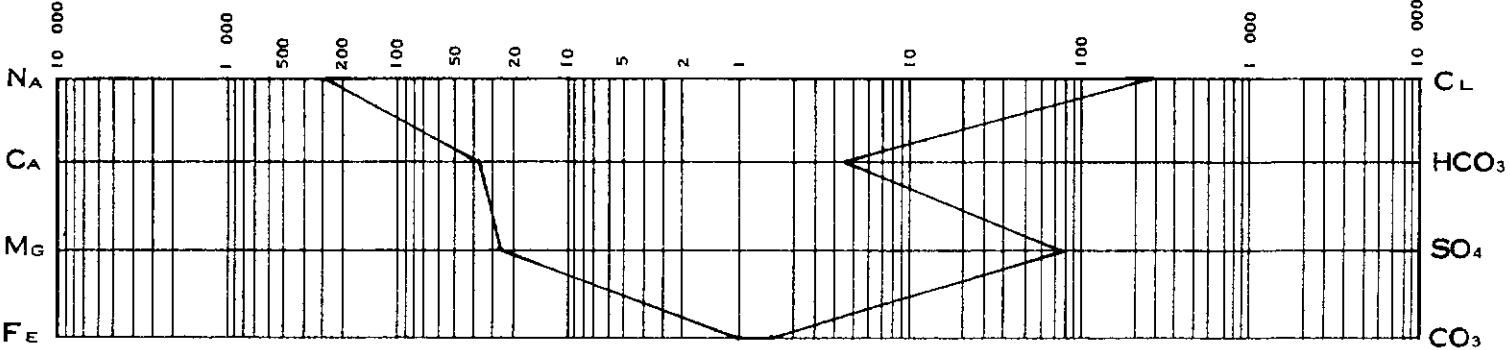
MILLIGRAMS PER LITER

NA & K	CA	Mg	FE	BA		CL	HCO ₃	SO ₄	CO ₃	OH	
6509	779	323	Absent	Absent		9566	264	3500	48	Absent	

MEQ PER LITER

283	38.9	26.6	Absent	Absent		269.8	4.3	72.8	1.6	Absent	
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LOGARITHMIC PATTERN MEQ PER LITER





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 EDMONTON CALGARY REGINA
WATER ANALYSIS



File CBH-2-844

Company Banff Oil Ltd.
 Well Name Sogopet Aquit Kaskattama Prov. #1 Sample No 3
 Formation Pagwa Fm. Depth to 1174
 Location _____ Field Wildcat Province Manitoba
 Date Sampled Oct. 3, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK
 Sampled From Flowing Well Flare line By _____
 Recovery _____ Elevation KB 30 0', Grd. 15.3'

Constituents

1 Total Solids 20,258 mg/liter 2 pH 8.52 3 Sp Gr 1.0149 @60°F
 4 Resistivity 0.357 Ohm-meters @ 72 °F 5 H₂S Absent

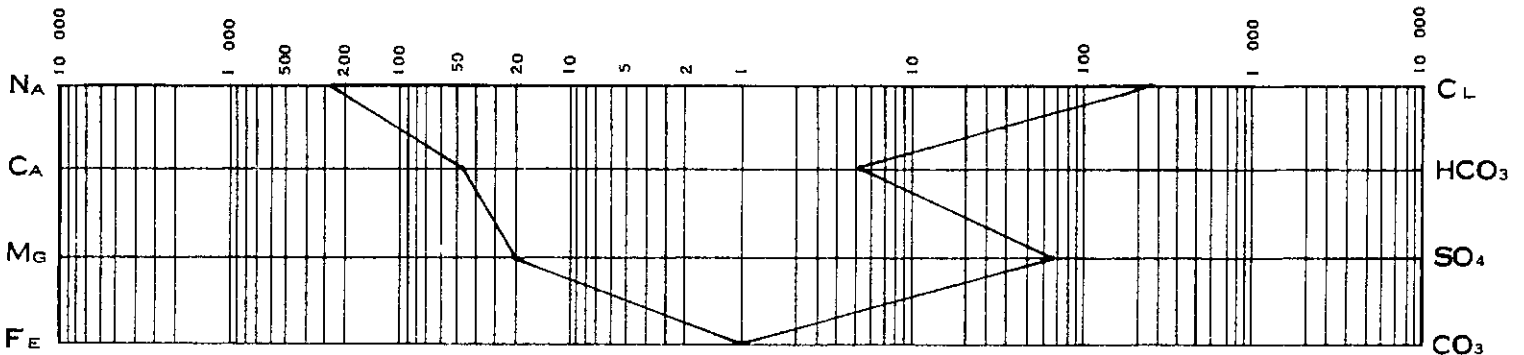
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO ₃	SO ₄	CO ₃	OH	
6199	925	249	Absent	Absent		9352	314	3190	29	Absent	

MEQ PER LITER

269.5	46.2	20.5	Absent	Absent		263.7	5.1	66.4	1.0	Absent	
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LOGARITHMIC PATTERN MEQ PER LITER





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 EDMONTON CALGARY REGINA
WATER ANALYSIS



File CBH-2-844

Company Banff Oil Ltd.

Well Name Sogopet Aquit Kaskattama Prov. # 1 Sample No 4

Formation Pagwa Fm. Depth to 1081

Location _____ Field Wildcat Province Manitoba

Date Sampled Sept. 30, 1966 Date Analyzed Oct. 25, 1966 Analyst BV JK

Sampled From Flowing Well Flare line By _____

Recovery _____ Elevation KB 30.0', Grd. 15.3'

Constituents

1 Total Solids 20,414 mg/liter 2 pH 8.78 3 Sp Gr 1.0143 @60°F
 4 Resistivity 0.365 Ohm-meters @ 72 °F 5 H₂S Absent

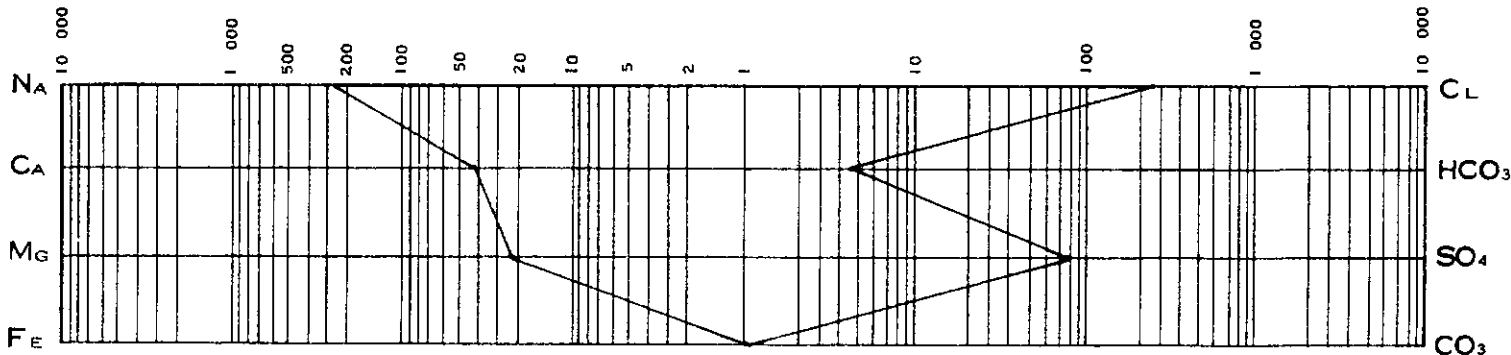
MILLIGRAMS PER LITER

NA & K	CA	MG	FE	BA		CL	HCO ₃	SO ₄	CO ₃	OH	
6261	845	274	Absent	Absent		9009	283	3730	22	Absent	

MEQ PER LITER

272.2	42.2	22.5	Absent	Absent		254	46	77.6	0.7	Absent	
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LOGARITHMIC PATTERN MEQ PER LITER





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 EDMONTON CALGARY REGINA
WATER ANALYSIS



File CPH-2-844

Company Banff Oil Ltd.
 Well Name Sogopet Aquit Kaskattana Prov. # 1 Sample No 5
 Formation Pagwa Fm Depth to 1081
 Location _____ Field Wildcat Province Manitoba
 Date Sampled Sept. 30, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK
 Sampled From Flowing Well flare line By _____
 Recovery _____ Elevation KB 30.0'

Constituents

1 Total Solids 20,400 mg/liter 2 pH 8.96 3 Sp Gr 1.0144 @60°F
 4 Resistivity 0.370 Ohm-meters @ 72 °F 5 H₂S Absent

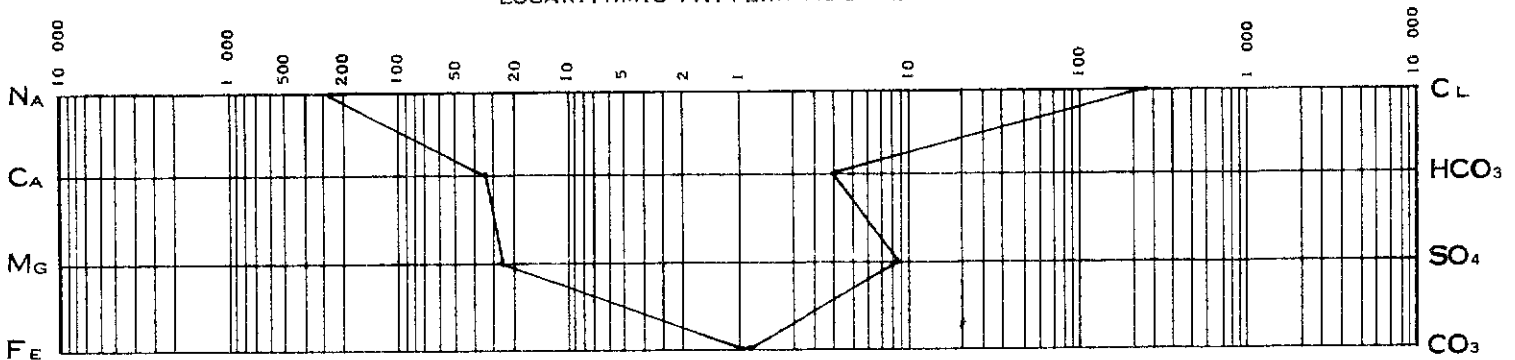
MILLIGRAMS PER LITER

NA & K	CA	Mg	FE	BA		CL	HCO ₃	SO ₄	CO ₃	OH	
6307	690	334	Absent	Absent		8781	239	4015	34	Absent	

MEQ PER LITER

274.2	34.4	27.5	Absent	Absent		247.6	3.9	83.5	1.1	Absent	
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LOGARITHMIC PATTERN MEQ PER LITER





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WATER ANALYSIS



File CRH-2-844

Company Banff Oil Ltd.

Well Name Sogopet Aquit Kaskattama Prov. # 1 Sample No 6

Formation Pagwa Fm. Depth to 1081

Location _____ Field Wildcat Province Manitoba

Date Sampled Sept. 30, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Flowing Well flare line By _____

Recovery _____ Elevation KB 30.0, Grd. 15.3'

Constituents

- 1 Total Solids 20,210 mg/liter 2 pH 8.76 3 Sp Gr 1.0146 @60°F
 4 Resistivity 0.399 Ohm-meters @ 72 °F 5 H₂S Absent

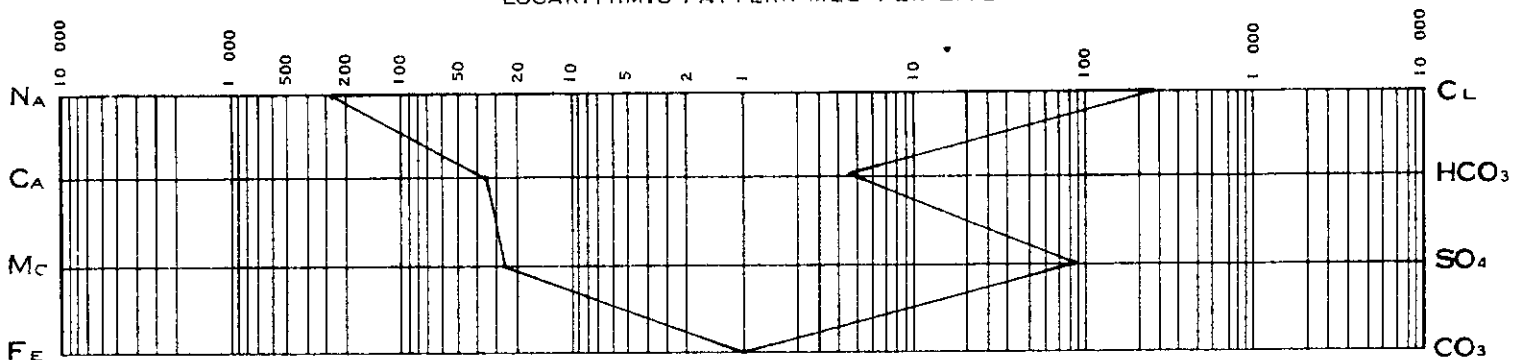
MILLIGRAMS PER LITER

NA & K	CA	Mg	FE	BA		CL	HCO ₃	SO ₄	CO ₃	OH	
6233	688	337	Absent	Absent		8710	273	3945	24	Absent	

MIQ PER LITER

271	34.3	27.7	Absent	Absent		245.6	4.5	82.1	0.8	Absent	
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LOGARITHMIC PATTERN MEQ PER LITER





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WATER ANALYSIS



File CBH-2-844

Company Banff Oil Ltd.
 Well Name Sogopet Acuit Kaskattama Prov. # 1 Sample No 7
 Formation Pagwa Fm Depth to 1081
 Location _____ Field Wildcat Province Manitoba
 Date Sampled Sept. 30, 1966 Date Analyzed Oct 27, 1966 Analyst BV JK
 Sampled From Flowing Well flare line By _____
 Recovery _____ Elevation KB 30.0', Grd. 15.3'

Constituents

1 Total Solids 20,038 mg/liter 2 pH 8.70 3 Sp Gr 1.0144 @60°F
 4 Resistivity 0.585 Ohm-meters @ 72 °F 5 H₂S Absent

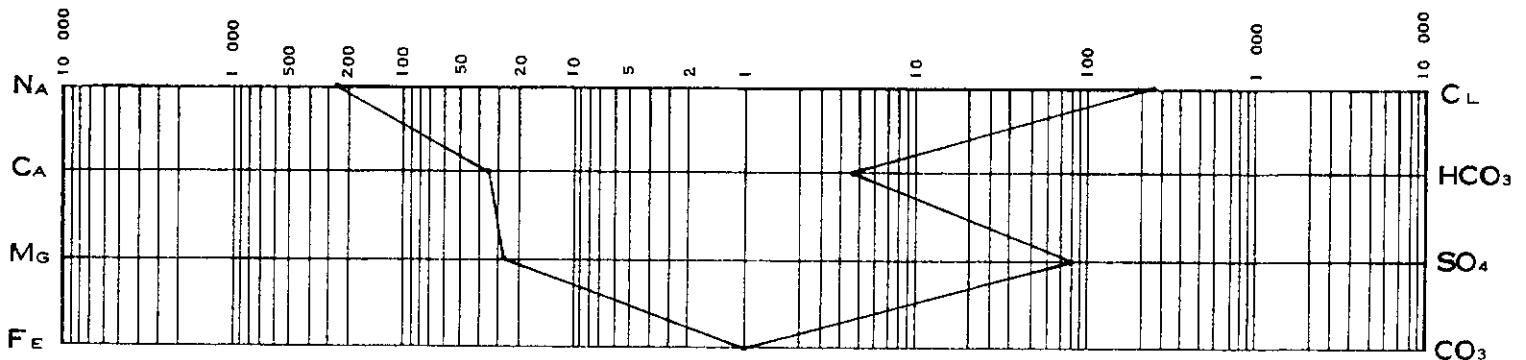
MILLIGRAMS PER LITER

NA & K	CA	Mg	FE	BA		CL	HCO ₃	SO ₄	CO ₃	OH	
6173	688	341	Absent	Absent		8745	271	3800	20	Absent	

MLQ PER LITER

268.4	34.3	28.0	Absent	Absent		246.6	4.4	79.0	0.7	Absent	
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LOGARITHMIC PATTERN MEQ PER LITER





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WATER ANALYSIS



File CBH-2-844

Company Banff Oil Ltd.
 Well Name Sogopet Aquif Kaskattama Prov. # 1 Sample No 8
 Formation _____ Depth _____
 Location _____ Field Wildcat Province Manitoba
 Date Sampled Oct. 14, 1966 Date Analyzed Oct. 25, 1966 Analyst BV JK
 Sampled From Sea Water By _____
 Recovery _____ Elevation _____

Constituents

1 Total Solids 21,043 mg/liter 2 pH 6.82 3 Sp Gr 1.0185 @60°F
 4 Resistivity 0.260 Ohm-meters @ 72 °F 5 H₂S Absent

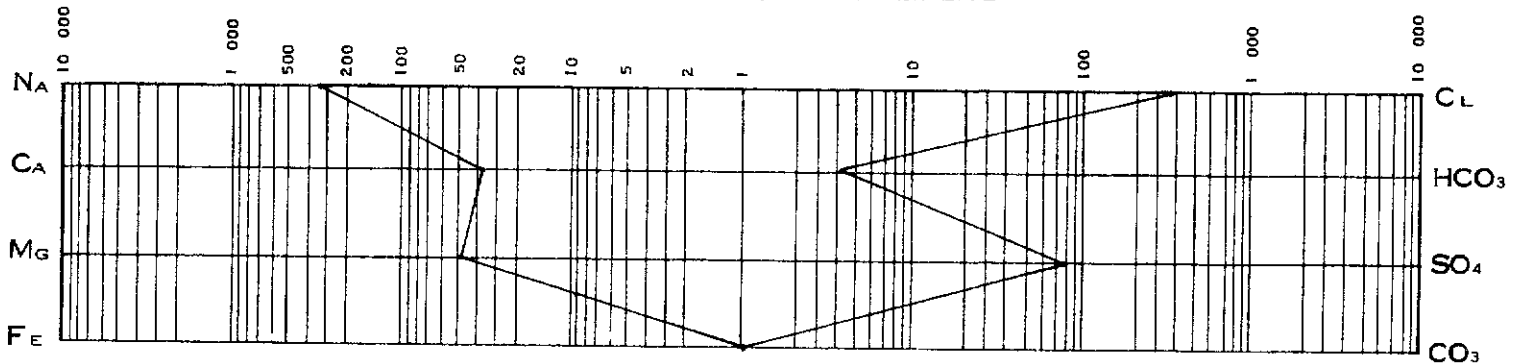
MILLIGRAMS PER LITER

NA & K	CA	MG	FE	BA		CL	HCO ₃	SO ₄	CO ₃	OH	
843.4	776	607	Absent	Absent		13214	252	3730	30	Absent	

MEQ PER LITER

336.7	38.7	49.9	Absent	Absent		372.6	4.1	77.6	1.0	Absent	
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LOGARITHMIC PATTERN MEQ PER LITER



Sea water off the beach on Hudson's Bay, approximately 4 miles N.W. of
 Kaskattama River



CORE LABORATORIES CANADA LTD
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 EDMONTON CALGARY REGINA
WATER ANALYSIS



File CEH-2-344

Company Banff Oil Ltd.

Well Name Sogopet Aquit Kaskattama Prov. # 1 Sample No 9

Formation _____ Depth _____

Location _____ Field Wildcat Province Manitoba

Date Sampled Oct. 14, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Sea Water By _____

Recovery _____ Elevation _____

Constituents

1 Total Solids 25,967 mg/liter 2 pH 8.72 3 Sp Gr 1.0187 @60°F
 4 Resistivity 0.289 Ohm-meters @ 72 °F 5 H₂S Absent

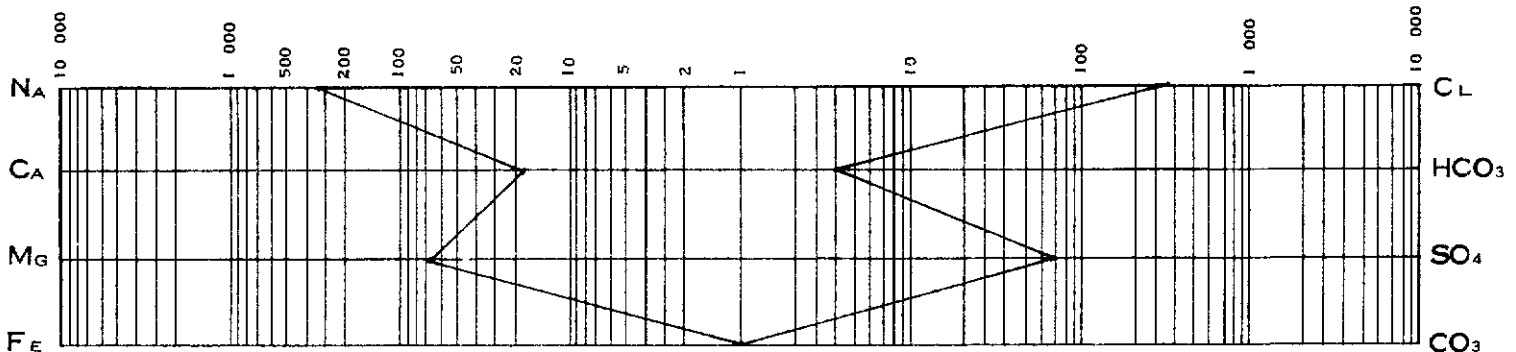
MILLIGRAMS PER LITER

NA & K	CA	Mg	FE	BA	CL	HCO ₃	SO ₄	CO ₃	OH
8134	357	847	Absent	Absent	13,150	240	3200	19	Absent

MEQ PER LITER

354.5	17.8	69.6	Absent	Absent	370.8	3.9	66.6	0.6	Absent
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LOGARITHMIC PATTERN MEQ PER LITER



Sea Water off the beach on Hudson's Bay, approximately 4 miles N W of
 Kaskattama River



CORE LABORATORIES CANADA LTD

PETROLEUM RESERVOIR ENGINEERING
EDMONTON CALGARY REGINA



WATER ANALYSIS

File CUH-2-844

Company Barff Oil Ltd

Well Name Sogopet Aquit Kaskattama Prov. # 1 Sample No 10

Formation _____ Depth _____

Location _____ Field Wildcat Province Manitoba

Date Sampled Oct. 14, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Sea Water By _____

Recovery _____ Elevation _____

Constituents

1 Total Solids 26,188 mg/liter 2 pH 8.93 3 Sp Gr 1.0186 @60°F

4 Resistivity 0.264 Ohm-meters @ 72 °F 5 H₂S Absent

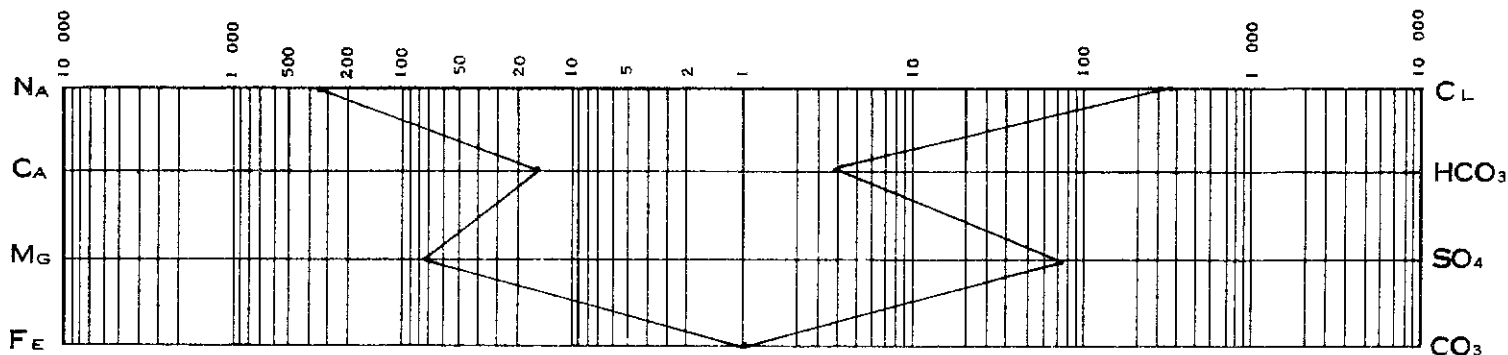
MILLIGRAMS PER LITER

NA & K	CA	MG	FE	BA	CL	HCO ₃	SO ₄	CO ₃	OH
8229	323	874	Absent	Absent	13064	224	3450	24	Absent

MEQ PER LITER

357.8	16.1	71.8	Absent	Absent	368.4	3.7	71.8	0.8	Absent
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LOGARITHMIC PATTERN MEQ PER LITER



Sea Water off the beach on Hudson's Bay, approximately 4 miles N.W. of Kaskattama River



CORE LABORATORIES CANADA LTD
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 EDMONTON CALGARY REGINA
WATER ANALYSIS



File CBH-2-1020

Company Banff Oil Ltd.
 Well Name Sogepet Aquit Kaskattama Prov #1 Sample No 1
 Formation Ordovician Depth 2777'
 Location 9009' 00" WL Field Wildcat Province Manitoba
 Date Sampled Dec. 1/66 Date Analyzed Dec. 24/66 Analyst J.K.
 Sampled From Flowing Well By _____
 Recovery _____ Elevation _____

Constituents

1 Total Solids 431,989 mg/liter 2 pH 5.22 3 Sp Gr 1.3259 @60°F
 4 Resistivity .007 Ohm-meters @ 75 °F 5 H₂S Absent

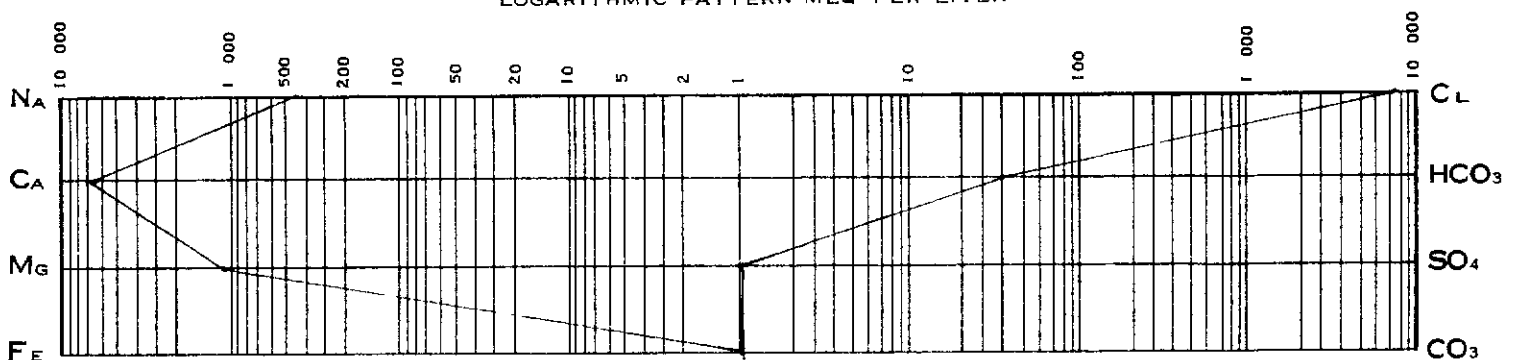
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	BA	CL	HCO ₃	SO ₄	CO ₃	OH
10697	128308	12546	Absent	Absent	279643	795	Absent	Absent	Absent

MEQ PER LITER

465.1	6402.5	1031.3	Absent	Absent	7885.9	13.0	Absent	Absent	Absent
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LOGARITHMIC PATTERN MEQ PER LITER



BANFF OIL LTD.

550 SIXTH AVENUE S W
CALGARY ALBERTA CANADA

TRANSMITTAL FORM

DEPARTMENT OF MINES
& NATURAL RESOURCES
JAN 12 1967
PETROLEUM ENGINEERING
DIVISION
Date January 9, 1967

To Department of Mines and Minerals

Address Virden, Manitoba

Attention

Well Name Sugarbush Aquifer Kaskattama Prov. No. 1 Location

Enclosed as follows —

No of Copies	Description	No of Copies	Description
2	Water Analysis CBH-2 1020		

REMARKS CONFIDENTIAL

Received by

Date

DEPARTMENT OF MINES
& NAT RESOURCES
Mines Branch
JAN 11 1967
Petroleum Eng. Division
VIRL B.N.

Signed

Dept

ORIGINAL SIGNED
C V KLOEPFER

Production