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FLOPETROL

WATER AND OIL ANALYSIS

CLIENT : SHELL DEVELOPMENT AUSTRALIA

WELL : BIGNOSE # 1

ZONE : LOWER AND UPPER CHAMBERS

REPORT : 37/AL/83

W832

DATE : NOVEMBER, 1983

OIL and GAS DIVISION

22 MAR 1984

GRANDVILLE BURN
MY DASHBOARD REPORT.

FLOPETROL
BIGNOSE-1.

M/C Box
B.M. B.

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SUMMARY AND MAIN RESULTS

The present report gives the experimental results of the Water and Oil Analysis from well BIGNOSE #1.

On the Water/Oil sample from RFT #2.1 - Lower Chamber we obtained only 10 cm³ of oil after decantation and centrifugation.

- Gravity of Oil : 0.8055 at 60/60°F
- Pour point : 70°F

MOLECULAR COMPOSITION OF STOCK TANK OIL

RF'T #2.1 DEPTH : 3557.5 M LOWER CHAMBER

<u>COMPONENTS</u>	<u>MOLE PERCENT</u>
Nitrogen	0.00
Carbon Dioxide	0.00
<u>HYDROCARBONS</u>	
Methane	0.00
Ethane	0.00
Propane	0.01
1 - Butane	0.03
N - Butane	0.05
1 - Pentane	0.07
N - Pentane	0.10
Hexanes	0.20
Heptanes	0.71
Octanes	2.98
Nonanes	4.37
Decanes	6.98
Undecanes	7.40
Dodecanes plus	77.10
<u>TOTAL :</u>	<u>100.00</u>

Molecular weight of stock tank liquid : 223
Molecular weight of Dodecanes plus in STO : 248
Stock tank liquid gravity (60/60°F) : 0.8055

WATER ANALYSIS

I. CHEMICAL COMPOSITION

- CATIONS

	MG/L	ME/L	MG/L	ME/L	MG/L	ME/L
Calcium (CA)	65	3.2	56	2.79	57	2.84
Magnesium (MG)	40	3.29	18	1.48	18	1.48
Sodium (NA)	15000	652.50	12900	561.15	12600	548.10
Potassium (K)	420	10.74	375	9.59	370	9.46

- ANIONS

Hydroxide (OH)	0.0	0.0	0.0	0.0	0.0	0.0
Bicarbonate (HCO3)	2640	43.27	2480	40.65	3160	51.79
Nitrate (NO3)	< 4	0.1	< 4	0.0	< 4	0.1
Chloride (CL)	19087	538.30	17000	479.6	16100	452.8
Sulphate (SO4)	3000	62.46	2500	52.05	2160	44.97
Carbonate (CO3)	0.0	0.0	0.0	0.0	0.0	0.0

II. TOTAL BALANCE

Cations		669.80		575.01		561.88
Anions		644.1		572.40		549.6
Sum		1313.8		1147.5		1111.5
Difference		25.7		2.6		12.3
<u>Diff. X 100</u>						
Sum		2.0%		0.2%		1.1%

III. DERIVED - OTHER DATA

- Conductivity (E.C.) Micro-S/CM at 250°C	59000	54000	50000
- Total Dissolved Solids (Calculated(HCO3:CO3))	38915	34092	32820
- Total Hardness as CaCO3	327 mg/l	214 mg/l	216 mg/l
- Carbonate Hardness as CaCO3	327 mg/l	214 mg/l	216 mg/l
- Reaction PH	6.8	6.8	6.8
- Non Carbonate Hardness as CaCO3	< 1	< 1	< 1
- Sodium to Total Cations Ratio	97.40% ME/L	97.59% ME/L	97.55% ME/L
- Total Alkalinity as CaCO3	2164	2035	2588

In making any measurement or interpretation of results, whether in our laboratories or otherwise, or in making any recommendation to our Customer, FLOPETROL's employees will give Customer the benefit of their best judgement ; nevertheless since such services may be subject to errors beyond our control, FLOPETROL cannot and does not warrant the accuracy or correctness of any such measurements, interpretation or recommendation, and cannot assume responsibility for any consequence.

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