

elf - r. e.

Nos. A0182

NOTE du Dpt RECHERCHE TECHNIQUE & E

ELF NORGE - 311.A

N° : 4/4-185 - JS/GO

For the attention of M. CARRE.-

Copies: DEPARTEMENT PRODUCTION & TRANSPORTS - 1053  
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Dpt RECHERCHE TECHNIQUE & ETUDES NOUVELLES - 1051

OBJECT : STUDY OF FLUIDS FROM FIT N° 2 OF 25/2-2 -

Please find enclosed the results of the measurements obtained by the FIT N° 2 on 7/7/74 at 25/2-2.

The fluids were transferred under pressure into a gerzat bottle in the field and were systematically measured in the laboratory.

ELF AQUITAINE NORGE A/S RESERVOIR DEPARTMENT	
DATE RECEIVED: 5/10-88	
REG NO: 16182	REG. CODE: un
FIELD/ WELL: E. Fagg	
FILING CODE: FFLU. 1. 1	
LISTINGS:	AUTHORITIES PARTNERS

*J. Savelli*  
J. SAVELLI

P.J. : 3

PRODUCTION DEPARTMENT  
Received 18/9-74

	Info	Analysis	File	Visa
A				
Regist.				
D-11				
Production				
Gen. Contr. Services				
Production				
Secretary				

25/2-2FIT N° 2

Date	7/7/74 of 1 H at 3 H
Sampler depth	1968,2 m
Pressure	198 bars
Température	57,9°C

I - FLUID MEASUREMENTS IN THE LABORATORY -

Oil volume in bottom-hole conditions	9776,7 cm <sup>3</sup>
Water volume in bottom-hole conditions	70,6 cm <sup>3</sup>
Total volume	9847,3 cm <sup>3</sup>

II - CALCULATION OF BUBBLE POINT PRESSURE -

The bubble point pressure at 57,9°C on the rough sample was found at 195 bars. This value was adjusted to bottom-hole pressure by an increase in the volume of gas.

III - CALCULATION OF THE GOR OF THE SATURATED OIL -

The saturated oil at bottom-hole temperature and pressure were flashed to atmospheric pressure and 30°C.

The GOR in relation to degassed oil at atmospheric pressure brought to 15°C is 63.77 m<sup>3</sup>/m<sup>3</sup>.

IV - ANALYSIS OF GAS CONTRACTION -

CONSTITUANT ELEMENTS		MOLAR %
N2		1.070
CO2		0.080
C1		84.400
C2		9.070
C3		0.300
I C4		0.030
N C4		0.040
I C5		0.005
N C5		0.005
C6 +		Traces
Specific gravity		0.609
Density	0/760	0.787
	15/750	0.737
Molar mass		17.58
G M V		10148
Recuperation $\text{g/m}^3$	a 15/750	
	C3 +	7.52
	C4 +	2.00
	C5 +	0.30

V - OIL ANALYSIS -

C7 +	100 %
Density 15 .....	912
Molar mass .....	376
Viscosity 15 .....	173 cSk

VI - COMPOSITION OF THE DEPOSIT FLUID -

CONSTITUANTS ELEMENTS	MOLAR %
N <sub>2</sub>	0.56
CO <sub>2</sub>	0.04
C <sub>1</sub>	46.76
C <sub>2</sub>	4.74
C <sub>3</sub>	0.16
I C <sub>4</sub>	0.02
N C <sub>4</sub>	0.02
I C <sub>5</sub>	0.01
N C <sub>5</sub>	Traces
C <sub>6</sub>	Traces
C <sub>7+</sub>	47.69
Total density	959.398 kg/m <sup>3</sup>
Density at 57.9°C and 197 bars	828.400 kg/m <sup>3</sup>
Total Molar mass	188.12