From core analysis: Level 1 (3786 - 3817 m RKB) Average Ø core: 16,5 % Average K core: 19,4 MD

Level 2 (3819,5 - 3826,5 m RKB) Average Ø core: 13,0 % Average K core: 4,3 MD

Comparing the porosity from the core analysis with the log porosity the core porosity appears 2-4% higher. This may be due to the ground surface decompression.

## 12.2.2 Log Interpretation

The interpretation of the logs was performed using the Schlumberger Coriband program. The main results are:

Level 1: Top : 3786 m RKB (Top of Brent) Bottom : 3817 m RKB Gross : 31 m Net : 15,7 m C : 0,507 Average Ø : 13,4% Average Sw : 17,9%

Level 2: Top : 3819,5 m RKB Bottom : 3826,5 m RKB Gross : 7 m Net : 5 m C : 0.714 Average Ø : 8,7 % Average Sw : 66,9 % BOTTOM HOLE FLUID SAMPLING - RFT / FIT

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Table 1

			FLO	и Data	BUIL	D UP DATA		OBSERVATIONS	
LEVEL	OPERATION	DEPTH (H RKB	TIME (MIN	FINAL PRESSURE (BARG)	TIME (MIN)	FINAL PRESSURE (BARG)	SAMPLING		
1	RFT	3802,5	4.	548,96,2568,310,4 1 Mudfiltrate Surface pressure: 13,8 BARG		2 3/4 gallon chamber			
2 ,	RFT	3823,2	2,5	466 , 1	5,1	10,4 1 Mud + Mudfiltrate and 0,75 1 Mudfiltrate Surface Pressure : 0		2 3/4 gallon'+ 1 gallon CHAMBERS	
3	RFT	3850,2	15,5	133,3	15,9	533,3	3 1 Mudfiltrate 7,4 1 Gas Surface pressure: 134,4BAR	2 3/4 gallon chamber. Gas heated out before chamber was opened.	
2	FIT	3822,5	6	Upper Amerade: 322,9 Lower Amerada: 321,0	. 2,9	Upper Amerada: 564,7 Lower Amerade: 566,1	10,4 1 Mudfiltrate with Gas in solution Surface pressure: 55 BARG	2 3/4 gallon chamber Gas 70 1	
3	ГІТ	3852,5	13	Upper Amerada: 58,7 Lower Amerada: 62,1	76	Upper Amerade: 527,4 Lower Amerada: 528,2	Ca. 5 1 Gas " 3 1 Oil " 24 1 oil/mudfiltrate emulsion Surface pressure: 131 BAR Oil and gas transferred to 20 1 bottle at 37 BARG.	2 3/4 gallon chamber Find B.U. pressure not quite stabil- ized	
4	FIT	3873,5	5	Upper Amerada: Not working Lower Amerada: 529	62	Upper Amerada: Not working Lower Amerada; 530,8	Ca. 3 1 Gas " 4 1 Oil " 3,4 1 Oil/Mudfiltrate Emulsion Surface pressure: 110,3BARG All transferred to 20 1 bottle at 37 BARG	2 3/4 gallon + 600CC Segregated chamber Only small quantities of gas and some mul- filtrate in 600 CC chamber. This was not transferred.	

Note: The samples from FIT No. 1 and FIT No. 2 BIS are considered as representative samples and a PVT analysis will be performed on them.

Level 3: Top : 3849,9 m RKB Bottom : 3854,8 m RKB Gross : 4,9 m Net : 4,9 m ct : 1 Average Ø : 14,3 % Average Sw : 13,9 %

Level 4: Top : 3872,2 m RKB Bottom : 3876,4 m RKB Gross : 4,2 m Net : 4,2 m cd : 1 Average Ø : 14,3 % Average Sw : 22,4 %

The net pay is obtained by consideration of the following cut off values:

Ø < 8% Sw > 60% Vclay > 35%

#### 12.3 Testing

1.

Two runs of RFT, four runs of FIT (including one failure) and 1 DST were performed.

## 12.3.1 RFT

The two runs include 29 pressure pre-tests and three samplings. The sampling did not give any important result as they all recovered mud filtrate except for the gas in the sample from 3850,2 m RKB (which unfortunately leaked out before being recovered due to chamber failure). Results are summarized on table 1.

Table 2

RESULTS - DST NO. 1 - BRENT LEVEL NO. 1								WELL 15/3-4							
}	PRESSURE DATA (BHP FROM SPERRY SUN NO. 2046 - WHP FROM							I DWT) FLOW DATA (SEPARATOR)							
INITIAL FLOW INITIAL B.U. FINAL FLOW							FINAL B.U. INITIAL FLOW FINAL FLOW								
(MIN)	(BARG)	(BARG)	(MIN)	(BARL)	(MIN)	(BARG)	(BARG)	(MIN)	(BARG) BHP	CHOICI	FLOW M3/D	PHOICE	(STM 3/D	CAS (STDM 3/D9	(MJ/MJ
7	490,5	79,3	65	569,3	716	435,5	133,8	1821	565 (T=121 , 7°C)	24/64	596 (Water)	40/84	615	245224	399
FLUID CHARACTERISTICS MEASURED AT THE WELL SITE TEST INTERPRETA									TERPRETATION	RESUI	TS.	•			•
OIL = 0,816 g/cc at $60^{\circ}$ F (after 24 hrs) GAS = 0,803 (air = 1,0) Co2 = 7,5 % H2S = 0							Pi K S PR	P1 = 569,7 BARG (extrapolated from horner plot) K = 24 MD S = + 4.15 PRODUCTIVITY RATION = 0,63							
SURFACE FLUID SAMPLING															
5 x 20 1 GAS 2 x 4 1 OIL 2 x 4 1 OIL 2 x 200. OIL + 4 1 OIL FROM THE STOCK TANK 20 1 GAS 4 1 OIL TAKEN AT THE BEGINNING OF FINAL FLOW IN CASE OF TEST BREAK DOWN															

# 12.3.2 FIT

A FIT fluid sampling together with an Amerada pressure recorder was run in levels 2,3 and 4 (one failure in level 3). Oil and Gas were recovered in levels 3 and 4. In level 2, only mud filtrate and some dissolved gas were recovered. Results are summarized on table 1.

## 12.3.3 DST

A DST was carried out in level 1 with the main purpose of getting information about the nature of the fluid content and the formation productivity. The following zones were perforated:

1) 3789 - 3791 m RKB 2) 3794,5 - 3799,5 m RKB 3) 3800,5 - 3807,5 m RKB

Loggers depth

From the results of the DST in level 1, a build up analysis was performed. From this, an extrapolated initial reservoir pressure was found as well as permeability, skin and productivity ratio. The results are shown in table 2.

### 12.4 Accumulations

The revised estimates are based on isopach maps of the interval between the J2 and J3 markers. The isopach was converted in meters by applying the depth vs time relationship found in the well 15/3-4. Since rock volumes are estimated from time maps, they should be regarded as provisional.

The downdip closure is chosen as 3140 ms (corresponding to a depth of 3987 m MSL).