Denne rapport tilhører

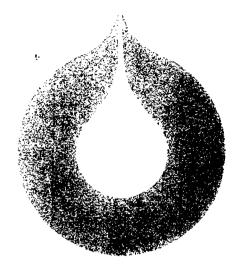
STATOIL

UND DOK.SENTER

L.NR. 92056019

KODE WU 30/2-1

Returneres etter bruk



statoil

RFT REPORT

1982

WELL 30/2-1

PL 051

ENGINEER: B. HULTBERG

Den norske state oljessiskap a.s



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General Well Data

Licence

: PL 051

Well

: 30/2-1

Location

: 60° 52' 05.42" N

02[°] 38' 49.16" E

Rig

: Dyvi Delta

Spudded

: 17/5-82

Rig released

: 14/10-82

RKB elevation

: 30 m

Water depth

: 125 m

Total depth

: 4243 driller

ocar depch

4245 logger

Objectives

: Middle and lower Jurassic sandstones

RFT Logging Dates

run 1: 820607

run 2: 820723

Iun 2. 020725

run 3: 820804

run 4: 820907

run 5: 820911

Status

: Temporarily plugged and abandoned



General

Well 30/2-1 was the first well drilled on this block.

The well was drilled to a TD of 4243 m RKB.

Logging and testing of the well showed gas accumulations under high pressure. Five RFT-runs were performed; two of these gave good results while the others failed.

Three sampling chambers were recovered with formation fluids from Etive and Rannoch.



RFT RUNS

RFT Run No. 1

A total of 11 pressure points were run between 1941 m - 1972 m (Paleocene) and all points were considered tight.

RFT Run No. 2

A total of 10 pressure tests were performed in this run (3675 - 3685, Ness). Out of these 7 failed and 3 were regarded as useful.

RFT Run No. 3

Twentyone pressure tests were carried out in this run (3682 m - 3791, Brent). 18 were reported as successful while 3 failed.

Sampling was carried out at 3791 m (Rannoch). One 2 3/4 gallon and one 1 gallon chamber were filled, and at 3763 m (Etive) one 2 3/4 gallon was filled.

Sampling at 3707 m (Ness) failed.

RFT Run No. 4

In this run (3966 m - 4157 m, Cook and Statfjord) 13 pressure points were attempted which all failed due to either seal failure or tight formation.

RFT Run No. 5

15 pressure tests were performed in this run (3966 m - 4160 m, Cook and Statfjord). Also here they all failed due to either tight formation or seal failure.



RFT Sampling Data

Date : 4.8.82

Run no. : 6
Sample no. : 1

Depth : 3791 m

Type of sample : segregated Max. recorded temp.: 134.4° C

2 3/4 Gallon Chamber

Flowing time : 230 sek. 379/setc:

Minium flowing pressure : 330 bar
Shut in pressure : 672.5 bar
Opening pressure : 97.5 bar

Recoveries : 9500 cc filtrate, 0.137 m³ gas

The gas was analysed on the rig and contained:

 C_1 : 91%, C_2 : 6%, C_3 : 2.2%, IC_4 : 0.5%, NC_4 : 0.3%

1 Gallon Chamber

Flowing time : 220 sek.
Minimum flowing pressure: 290.5 bar
Shut-in pressure : 672 bar
Opening pressure : 75 bar

Recoveries : 3265 cc filtrate



RFT Sampling Data

Date : 4.8.82

Run no. : 6
Sample no. : 2

Depth : 3763 m

2 3/4 Gallon Chamber

Flowing time : 485 sek.
Minimum flowing pressure: 663 bar
Shut-in pressure : 673 bar

Opening pressure : 230 bar

Recoveries : 850 cc condensate



Results

It was only possible to get good pressure values in the Brent formation.

In the Paleocene, Cook and Statfjord formations all the pressure points failed due to either tight spots or the tool failed to seal off properly.

The reason for all these bad pressure tests is unknown.

The pressure points in the Brent formation gives a gradient of $0.35~\mathrm{g/cc}$. The pressure gradient does not give any indication of a gas-watercontact in Brent.

Conclusion

The Brent formation contains hydrocarbons with a density of $0.35\,$ g/cc.

No gas-water contact was observed. The Brent formation at the well location is hence filled with hydrocarbons.

1

nb. numeration)	Remarks	no seal		good perm.	medium perm.	no seal	tight	tight	no seal	tool unstable	partially plugged	4				
Formation's Brent RFT DATA Run no.5 (Schlumb.numeration)	Cor.hydr.pr. after test (q/cc)	1.913	1.914	1.914	1.913	1.913	1.912	1.914	1.914	1.912	1.912					
RFT DATA	Cor.hydr.pr. after test bar	689.87	690.97	691.25	691.04	691.52	689.45	690.08	689.94	691.04	06.069					
	on Cor.formation pres. (g/cc)	1	1	1.861	1.861	 				1 1 1	1.863	-				
rent	Cor.formation pres. bar	1	1 1	672.25	672.18	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		 	1 1 1	673.22					
Formation's	Cor.hydr.pr before test (g/cc)	1.914	1.914	1.915	1.913	1.913	1.912	1.914	1.914	1.913	1.912					
	Or hydr.pr. before test bar	690.01	691.04	691.66	691.11	691173	689.45	80.069	80.069	691.39	06.069					
	Depth	3675.5	3681	3682	3683	3685.5	3677	3676	3675.5	3685	3684.5	Ü				
	Test no	-	2	m .	4.	Ŋ			8	0	10	@				

Well 30/2-1

