well no : 30/2-01 operator : STATOIL

Coordinates : 60 52 05.42 N UTM coord. : 6748314 N

02 38 49.16 E 480827 E

Licence no : 051 Permit no : 0328

Rig : DYVI DELTA

Contractor : DYVI OFFSHORE A/S

Bottom hole temperature : 152 deg.C Elev. KB : 29 M

Spud. date : 82.05.17 Water depth : 125 M

Compl. date : 82.10.12 Total depth : 4243 M

Spud. class : WILDCAT Form. at TD : JURASSIC

Compl. class : SUSP. GAS/COND. DISC Prod. form :

Seisloca : 701 162 SP 840

LICENSEES

50,000 DEN NORSKE STATS OLJESELSKAP A.S

25,000 TENNECO OIL COMPANY NORSK A/S

25,000 UNOCAL NORGE A/S

CASING AND LEAK-OFF TESTS

Type	Casing diam.	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm
CONDUCTOR	<i>30</i>	216,0	36	219,0	
SURF. COND.	20	1020,0	26	1035,0	1.70
INTERM.	13 3/8	2152,0	17 1/2	2155,0	1,94
INTERM.	9 5/8	3491,0	12 1/4	3501,0	1,99
LINER	7	<i>3834,0</i>	8 1/2	3836,0	2.05
OPEN HOLE			6	4243,0	

CONVENTIONAL CORES

Core no.	Intervals cored	Recovery		Series	
	meters	M	~		
1	1952.0 - 1954.0	2.0	100.0	PALEOCENE	
2	1954.0 - 1969.5	14.1	91.0	PALEOCENE	
3	3696.0 - 3701.0	4.8	96.0	M.JURASSIC	
4	3701.0 - 3712.0	7.3	66.4	M.JURASSIC	
5	3712.0 - 3717.0	4.4	88.0	M.JURASSIC	
6	3717.0 - 3733.6	16.6	100.0	M.JURASSIC	
7	3733.6 - 3735.8	1.0	45.5	M. JURASSIC	
8	<i>3735.8 - 3751.5</i>	15.7	100.0	M.JURASSIC	
9	3751.5 - 3758.0	6.5	100.0	M.JURASSIC	
10	3758.0 - 3776.0	18.0	100.0	M.JURASSIC	
11	3776.0 - 3794.0	18.0	100.0	M.JURASSIC	

DRILL STEM TEST									
TEST	TEST DEPTH		RECOVERY				PRESS.		
NO		CHOKE SIZE mm	OIL Sm3	Sm3 M Sm3 GRAV. GRAV			GOR m3/m3	(psi)	
KB					rel. air		FSIP	WHP	
1 2	3785 - 3792 3761 - 3771	12.7 19.05	307 * 417 *	677 1030	0.804 0.807	0.695 0.695	2205 2470		4970 3520
3	3720 - 3728	19.05	1 1	1016	0.814	0.692	2565		3490

* = CONDENSAT

AVAILABLE LOGS								
LOG TYPE	INTERVALS	1/200	1/500					
ISF BHC MSFL GR	216 - 1033	x	x					
ISF DDBHC MSFL	1020 - 2017	X	x					
ISF DDBHC MSFL	1900 - 2155	X	х					
ISF DDBHC MSFL	2152 - 3502	X	X					
ISF DDBHC MSFL	3491 - 3700	X	х					
ISF DDBHC MSFL	3700 - 3838	X	x					
ISF DDBHC MSFL	3837 - 4191	X	X					
ISF DDBHC MSFL	3837 - 4243	x	х					
FDC CNL	1020 - 2019	X	x					
FDC CNL	1900 - 2156	X	x					
FDC CNL	2152 - 3503	X	x					
FDC CNL	3491 - 3837	X	x					
FDC CNL	3838 - 4221	X	x					
FDC CNL RECOMPUTED	3838 - 4244	X	x					
DLL	3600 - 3829	x	x					
CDM	3491 - 3831	X						
CDM	3837 - 4244	х						
CDM AP / CYBERDIP	3491 - 3831	X						
CDM AP	3840 - 4244	x	x					
GEODIP	4060 - 4244	1:40						
CDM SP	3624 - 4244							
CDM PP	3624 - 4244							
NGT	3600 - 3834	X	x					
NGS	3600 - 3840	X						
RFT (TEST 1-7)	1942 - 1972	1:100						
RFT	3675 - 3685		x ?					
RFT	3682 - 3795	x						
CBL VDL BI	820 - 2152	х						
CBL VDL BI	2350 - 3491	x						
CBL VDL BI	2905 - 3775	x						
CBL VDL BI	3675 - 3793	x						
CBL VDL BI	3775 - 3837	x						
TEMPERATURE DATA	219 - 4243	1:5000)					
MUD	219 - 4243]	x					
VELOCITY (S.C.L.)	216 - 4243		x					
i		, ,						

(cased hole processing)

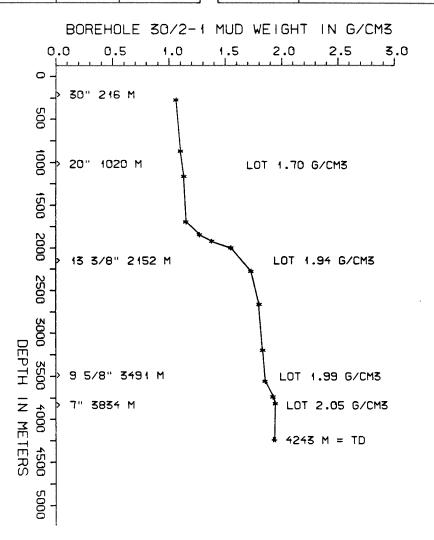
(Synthetic Seismogram, 1/2 & 1/1 scale, 2stk)
(Two Way Travel Time log, 10 cm/s 1stk)
(Geogram Synthetic Seismogram, min/zero phase normal/reverse polarity, 236 - 4214m, 5stk)

PRESSURE EVALUATION
DRILLING DATA PRESSURE
WIRELINE DATA PRESSURE
ALL FROM 219 - 4243 M.

MUD PROPERTIES						
DEPTH BELOW KB m	WEIGHT g/cm3	FUNNEL VISC. sec	FILTRATE LOSS cm3			
210 260 1100 1630 1780 1860 1935 2210 2600 3130 3490 3670 3750	1.03 1.06 1.10 1.12 1.24 1.35 1.52 1.70 1.77 1.80 1.82 1.91	100 70 33 42 41 56 59 51 52 58 55				

DRILL BIT C	JTTINGS AND	WET SAMPLES
SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
CUTTINGS	220 - 4243	780
WET SAMPLES	220 - 4243	1310

SHALLOW GAS				
DEPTH INTERVAL m KB	REMARKS			
	NONE			



WELL HISTORY - 30/2-1

GENERAL:

The primary objective of well 30/2-1 were sandstones of Middle Jurassic age. Secondary objectives were sandstones of Paleocene and Late/Early Triassic age. The well encountered hydrocarbons in the Brent Group. The well reached TD at 4243 m in the Statfjord formation.

OPERATIONS :

Well 30/2-1 was spudded 17.05.82 by the drilling rig "Dyvi Delta". Drilling of the 36",26" and 17 1/2" holes were without incident. The 13 3/8" casing got stuck at 1998 m while running in. In the 12 1/4" section problems were encountered with high gas readings and tight hole. The pipe stuck at 3486 m. 9 cores were taken in the 8 1/2" section. Circulation was lost while drilling below 3688 m. It was decided to pull out of the hole and run a 7" liner. An influx occured when running in to 3180 m. After this probleme was solved the drill string got stuck. A total of 9 days were spent on hole problems in this section. The 6" hole was drilled to 4243 m with minor problems with tight hole and sticking in the lower part of the hole. The hole was temporarily abandoned after 3 successfull DST's.

TESTING :

Three DST's were performed in this well. All three tests produced gas and condensate. 2 % CO was measured during DST no. 1. H S was not encountered. The well was flowed initially for one minute before the initial build-up which lasted 68 minutes. After an eleven minute clean-up flow, the well flowed for 668 minutes and was shut-in 1450 minutes. DST no. 2 consisted of a 826 minute flow with various chokes and a 1598 minute build-up. The CO content was measured to 4 %. DST no. 3 consisted of a 7782 minute flow with various chokes followed by a 1457 minute build-up period. 6 ppm H S and 4 % CO were measured during this test. Sand production was not observed on any of the tests. 5 RFT runs were made resulting in 3 sample chambers being recovered.

GEOLOGICAL TOPS

well: 30/2-1

	Depth	m (RKB
Nordland Group		154	l m
Utsira Fm		847	
		'	
Hordaland Group		957	m
Rogaland Group	1	917	7 m
Balder Fm		917	
Sele Fm	I	993	m
Lista Fm	2	2105	m
Shetland Group	2	2159	m
	_		* ***
Cromer Knoll Group	3	8605	5 m
Viking Group	.3	3636	m
Draupne Fm		8636	
Heather Fm		8657	
Brent Group	7	8675	ī m
Ness FM		675	
Etive Fm		720	
Rannoch Fm	_	778	
Dunlin Group	3	793	m
Drake Fm	_	793	
Cook Fm	_	962	
Burton Fm / Amundsen Fm	4	000	m
Statfjord FM	4	110	m
	TD = 4	243	m