

Well no : 30/ 7-08R Operator : HYDRO

Coordinates : 60 29 43.08 N UTM coord. : 6707143 N
 02 0 20.56 E 445370 E

Licence no : 040 Permit no : 0269

Rig : TREASURE SEEKER

Contractor : WILHELMSSEN OFFSHORE SERVICES

Bottom hole temperature : 143 deg.C Elev. KB : 25 M

Spud. date : 81.09.23 Water depth : 103 M

Compl. date : 82.01.27 Total depth : 4812 M

Spud. class : WILDCAT Form. at TD : TRIASSIC

Compl. class : P&A. GAS/COND.DISC. Prod. form :

Seisloca : 802 - 61 SP. 87.7

LICENSEES

 28,800 ELF AQUITAINE NORGE A/S
 6,800 NORSK HYDRO A/S
 50,000 DEN NORSKE STATS OLJESELSKAP A/S
 14,400 TOTAL MARINE NORSK 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	30	215,0	36	215,0	
SURF.COND.	20	962,0	26	1011,0	1,52
INTERM.	13 3/8	2633,0	17 1/2	2648,0	1,83
INTERM.	9 5/8	3726,0	12 1/4	3741,0	2,08
LINER	7	4379,0	8 3/8	4394,0	2,24
OPEN HOLE			6	4812,0	

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery M	%	Series
1	4062.4 - 4075.7	13.4	100.8	JURASSIC
2	4075.7 - 4083.0	7.2	98.6	JURASSIC
3	4083.0 - 4093.7	10.7	100.0	JURASSIC
4	4093.7 - 4105.7	12.0	100.0	JURASSIC
5	4105.7 - 4123.9	18.1	99.5	JURASSIC
6	4123.9 - 4139.0	14.0	92.7	JURASSIC
7	4139.0 - 4148.6	9.6	100.0	JURASSIC
8	4148.6 - 4159.3	6.8	63.6	JURASSIC
9	4489.3 - 4502.5	12.5	94.7	JURASSIC
10	4527.1 - 4540.6	13.4	99.3	JURASSIC

DRILL STEM TEST									
TEST NO	DEPTH BELOW KB	CHOKE SIZE mm	RECOVERY					PRESS. (psi)	
			OIL Sm3 /d	GAS M Sm3 /d	OIL GRAV. g/cm3	GAS GRAV. rel. air	GOR m3/m3	FSIP	WHP
			1	4064 - 4070	12.7	445 *	612		

* = CONDENSAT

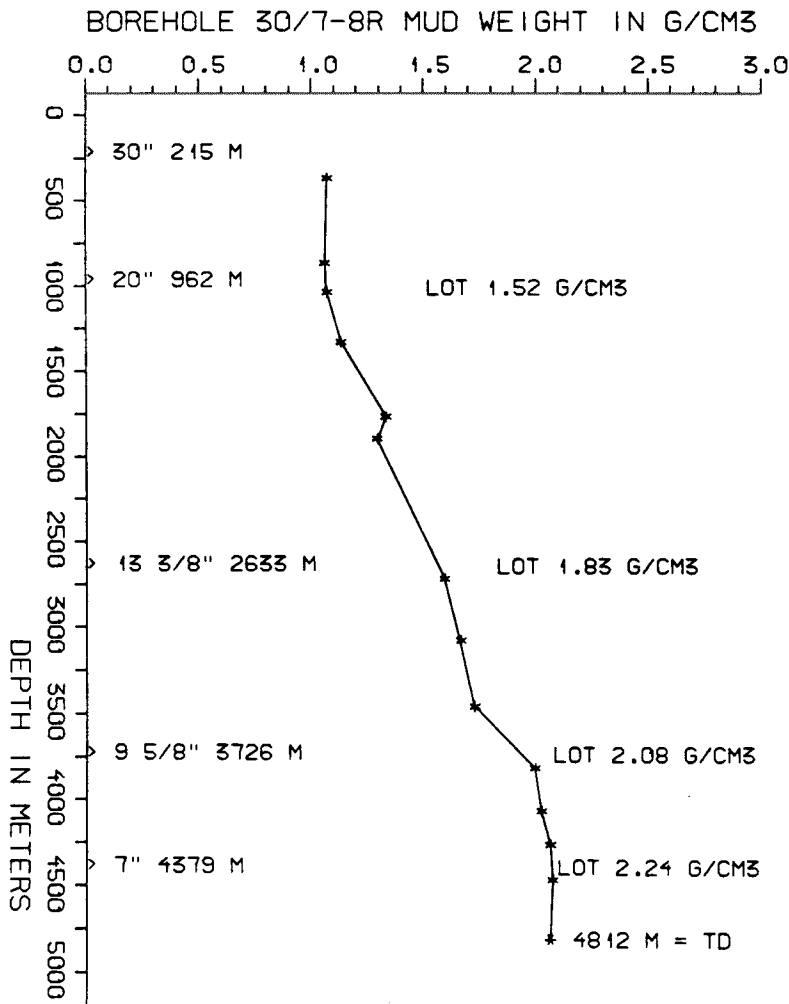
AVAILABLE LOGS			
LOG TYPE	INTERVALS	1/200	1/500
ISF SONIC GR	3721 - 4391	x	
ISF DDBHC MSFL	4379 - 4539	x	
ISF DDBHC MSFL	4475 - 4811	x	
ISF SONIC GR	3721 - 4811		x
FDC CNL	3721 - 4382	x	x
LDT CNL	4379 - 4539	x	x
LDT CNL	4450 - 4811	x	x
DLL MSFL	4050 - 4393	x	x
DLL MSFL	4444 - 4779	x	x
CDM	3721 - 4391	x	
CDM	4376 - 4812	x	
CDM AP	3721 - 4390	x	x
CDM AP	4377 - 4811	x	x
NGT	4000 - 4360	x	x
NGT	4115 - 4370	x	x
RFT	4060 - 4284	x	
RFT	4062 - 4105	x	
RFT	4488 - 4719	x	
CBL VDL	3626 - 4379	x	
CBL VDL	3800 - 4092	x	
DIRECTIONAL SURVEY	3720 - 4810		
MUD	3770 - 4810		x
VELOCITY	215 - 4811	1:1000	x

(Air Gun Well Velocity Survey & C.L.D. 1stk)
(Synthetic Seismogram Marine, 10 cm/s, 1stk)
(Synthetic Seismogram b/p-w/t, 10 cm/s, 2stk)
(Two Way Travel Time, 10 cm/s, 1stk)

MUD PROPERTIES			
DEPTH BELOW KB m	WEIGHT g/cm ³	FUNNEL VISC. sec	FILTRATE LOSS cm ³
300	1.04	53	60 PER HOUR
400			
800	1.03	27	
970	1.04	27	
1260	1.10	47	
1700	1.30	46	
1830	1.26	47	
2650	1.56	48	
3010	1.63	50	
3390	1.69	50	
3750	1.96	85	
4000	1.99	55	
4200	2.03	51	
4400	2.04	54	
4812	2.04	59	

DRILL BIT CUTTINGS AND WET SAMPLES		
SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
CUTTINGS	860 - 4513	936
WET SAMPLES	220 - 4813	990

SHALLOW GAS	
DEPTH INTERVAL m KB	REMARKS
336	POSSIBLE SMALL



WELL HISTORY - 30/7-8 R

GENERAL :

Well 30/7-8 R was drilled by "Treasure Seeker". This well is a sidetrack and re-entry from 30/7-8 (see Well Data Summary Sheets Vol. 12). The objectives of the well were to test Jurassic and pre Jurassic reservoirs in the western fault compartment of a structure lying in the north-west corner of block 30/7. The eastern compartment had previously been tested by the wells 30/4-2 (WDSS Vol. 11) and 30/7-6 (WDSS Vol. 9). Both wells had encountered a gas/condensate bearing Brent Group. Secondary objectives were to penetrate the Statfjord and Cook formations. Hydrocarbons were proven in the Tarbert fm. of the Brent Group. The Statfjord fm. is considered waterbearing.

OPERATIONS :

The rig "Treasure Seeker" spudded the well 30/7-8 R on 23.09.81 and sidetracked from the previous well at 3676 m. The 8 3/8" section included the coring of 8 cores. The 6" hole was drilled out of the 7" liner to TD. Two cores were taken in this section. A strike, lasting 8 days, interrupted operations after running the 7" liner.

TESTING :

The well was tested in the interval 4064 - 4070 m. Initial flow and build up lasted respectively 15 and 60 minutes. The main flow period lasted 1500 min. and the main shut-in period lasted 2160 min. Rates and other data from the test can be seen in the table on the previous page. During the main flow, 3 sets of separator recombination samples and 5 x 25 ltr stock-tank fluid samples were taken. Two RFT samples were also taken in the Brent Group, but both chambers had developed a leak before the analyses could be performed.

GEOLOGICAL TOPS

WELL: 30/7-8 + 30/7-8 R

	Depth m (RKB)
Hordaland Group	970 m
Frigg Fm	1782 m
Rogaland Group	1927 m
Balder Fm	1927 m
Lista Fm	1984 m
Montrose Group	2052 m
Heimdal Fm	2052 m
Maureen Fm	2275 m
Shetland Group	2328 m
Cromer Knoll Group	3799 m
Viking Group	3807 m
Draupne Fm	3807 m
Heather Fm	3841 m
Brent Group	4059 m
Tarbert Fm	4059 m
Ness Fm	4153,5 m
Etive Fm	4250,5 m
Rannoch Fm	4283 m
Broom Fm	4295 m
Dunlin Group	4299 m
Cook Fm	4299 m
Burton Fm	4366 m
Amundsen Fm	4398,5
Statfjord Fm	4482 m
Cormorant Group	4687 m

TD = 4812 m