

Well no : 15/ 9-16 Operator : STATOIL

Coordinates : 58 22 09.97 N UTM coord. : 6470535 N  
01 52 43.16 E 434400 E

Licence no : 046 Permit no : 335

Rig : DEEPSEA SAGA

Contractor : K/S DEEP SEA COMPANY A/S

Bottom hole temperature : 77 deg.C Elev. KB : 25 M

Spud. date : 82.06.28 Water depth : 85 M

Compl. date : 82.08.24 Total depth : 3120 M

Spud. class : APPRAISAL Form. at TD : PERMIAN

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

Seisloca : 8122 - 559 SP 140

#### LICENSEES

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 40,000 ESSO NORGE A.S  
 10,000 NORSK HYDRO PRODUKSJON A.S  
 50,000 DEN NORSKE STATS OLJESELSKAP 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	169,0	36	170,0	
SURF.COND.	20	500,0	26	515,0	1,49
INTERM.	13 3/8	1152,0	17 1/2	1167,0	1,78
INTERM.	9 5/8	2638,0	12 1/4	2650,0	1,80
OPEN HOLE			8 1/2	3120,0	

#### CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	2382.0 - 2397.0	13.8	92.0	PALEOCENE
2	2397.0 - 2414.5	17.2	98.3	PALEOCENE
3	2414.5 - 2427.5	13.0	100.0	PALEOCENE
4	2427.5 - 2441.0	12.5	92.6	PALEOCENE
5	2441.0 - 2460.0	19.0	100.0	PALEOCENE
6	2460.0 - 2479.5	19.5	100.0	PALEOCENE
7	2479.5 - 2498.0	18.5	100.0	PALEOCENE/CRETACEOUS

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
	NONE								

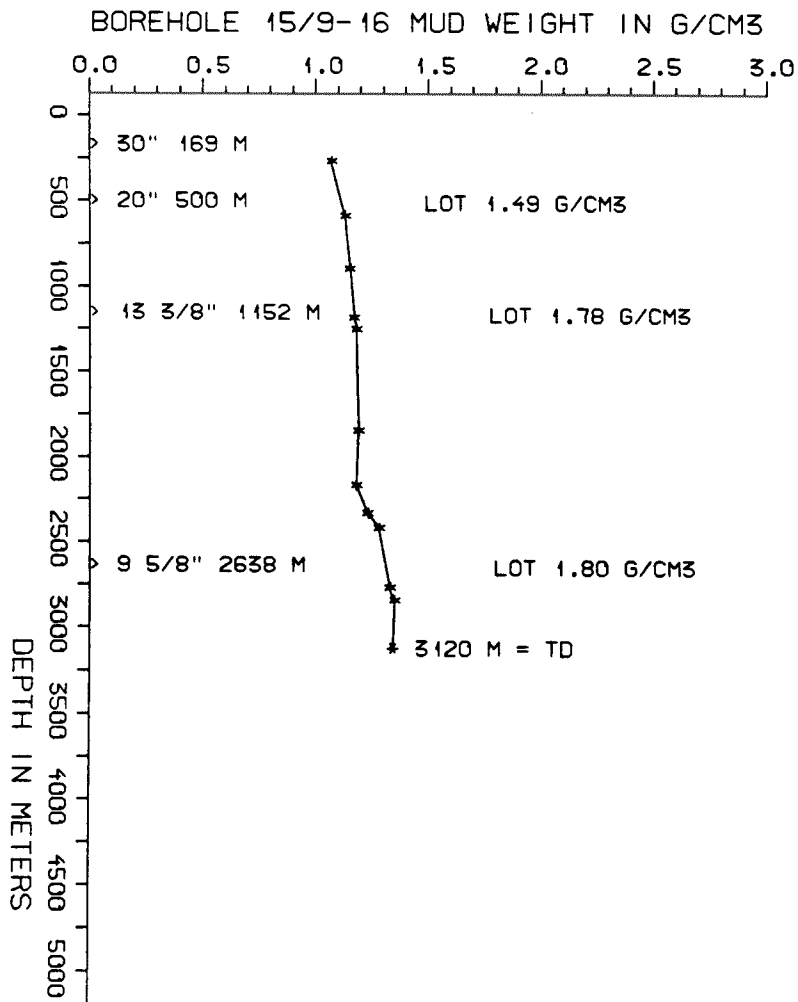
AVAILABLE LOGS			
LOG TYPE	INTERVALS	1/200	1/500
ISF BHC GR	110 - 513	x	x
ISF BHC	500 - 1167	x	x
ISF BHC	1152 - 2651	x	x
ISF BHC MSFL	2637 - 3115	x	x
LDL	500 - 1167	x	x
LDL CNL	1152 - 2651	x	x
LDL CNL	2637 - 3115	x	x
DLL MSFL	2250 - 2550	x	x
CDM	1125 - 2650	x	
CDM	2637 - 3117	x	
CDM AP	1153 - 2650	x	x
CDM AP	2639 - 3117	x	x
GEODIP	2350 - 2500	1:40	
GEODIP	2650 - 2725	1:40	
RFT	2379 - 2484		
RFT	2663 - 3107		
CBL	108 - 1148	x	x
CBL	400 - 2635	x	
CST	2128 - 2381	x	
MUD	175 - 3121		x
VELOCITY (S.C.L.)	110 - 3115		x

(Geogram Synthetic Seismogram, 10 cm/s, 5stk)

MUD PROPERTIES			
DEPTH BELOW KB m	WEIGHT g/cm <sup>3</sup>	FUNNEL VISC. sec	FILTRATE LOSS cm <sup>3</sup>
200	1.04	75	
520	1.10	65	
830	1.12	61	
1115	1.14	58	
1180	1.15	60	
1780	1.16	69	
2100	1.15	57	
2265	1.20	50	
2350	1.25	51	
2700	1.30	45	
2770	1.32	52	

DRILL BIT CUTTINGS AND WET SAMPLES		
SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
CUTTINGS	180 - 3120	500
WET SAMPLES	180 - 3120	588

SHALLOW GAS	
DEPTH INTERVAL m KB	REMARKS
	NONE



## WELL HISTORY - 15/9-16

### GENERAL :

Well 15/9-16 was drilled to delineate the hydrocarbon accumulations in the Heimdal fm. and in the sandstones of Jurassic/Triassic age in the 15/9 gamma structure. This was the fourth well drilled on this structure. The Heimdal fm. proved thinner than expected. The formation is however gas and condensate bearing. The prognosed sandstones of Jurassic/Triassic age were not present.

### OPERATIONS :

Well 15/9-16 was spudded 28.06.82 by the drilling rig "Deepsea Saga". Drilling of the well down to TD at 3120 m. was successful. 7 cores were taken in the 12 1/4" section. The 9 5/8" casing had a leak at 522 m. This was squeezed twice before it held a reduced pressure. The 9 5/8" casing was then regarded as a liner with top at 522 m.

### TESTING :

The well was not tested due to technical difficulties and the fact that this was the fourth well on the structure. Logging and RFT measurements and samples had given valid information.

# GEOLOGICAL TOPS

WELL: 15/9-16

	Depth m (RKB)
Nordland Group	110 m
Utsira Fm	842 m
Hordaland Group	1088 m
Rogaland Group	2157 m
Balder Fm	2157 m
Sele Fm	2210 m
Lista Fm	2275 m
Montrose Group	2378 m
Heimdal Fm	2378 m
Maureen Fm	2467 m
Chalk Group	2488,5 m
Tor Fm	2488,5 m
Hod Fm	2586 m
Plenus Marl Fm	2643 m
Triassic Group	2705 m
Smith Bank Fm	2705 m
Zechstein Group	3011 m
Rotliegend Group	3057,6 m

TD = 3120 m