

Well no : 15/ 6-06 Operator : ESSO

Coordinates : 58 31 14.57 N UTM coord. : 6487513 N
01 44 53.78 E 427087 E

Licence no : 029 Permit no : 308

Rig : GLOMAR BISCAY II

Contractor : GLOBAL MARINE DRILLING COMPANY

Bottom hole temperature : 110 deg.C Elev. KB : 25 M

Spud. date : 82.04.10 Water depth : 105 M

Compl. date : 82.06.09 Total depth : 3760 M

Spud. class : APPRAISAL Form. at TD : TRIASSIC

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

Seisloca : ST 8010 - 118 SP 345

LICENSEES

100,000 ESSO 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	30	196,0	36	197,0	
SURF.COND.	20	447,0	26	465,0	1,54
INTERM.	13 3/8	1203,0	17 1/2	1218,0	1,67
INTERM.	9 5/8	2778,0	12 1/4	2794,0	1,72
LINER	7	3686,0	8 1/2	3760,0	

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	3591.0 - 3609.5	18.5	100.0	M.JURASSIC
2	3609.5 - 3625.5	16.0	100.0	M.JURASSIC
3	3625.5 - 3644.4	18.8	99.5	M.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	3568 - 3578	22.2	278 *	835		

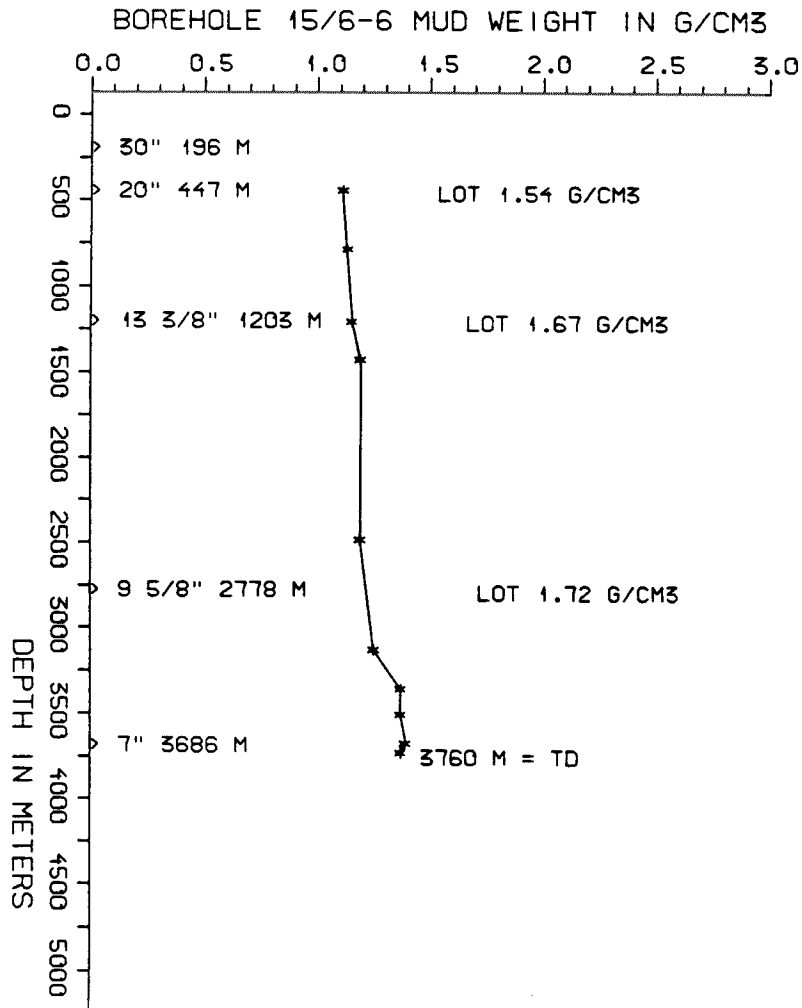
* = CONDENSAT

AVAILABLE LOGS			
LOG TYPE	INTERVALS	1/200	1/500
IEL BHC GR	190 - 462	x	x
IEL BHC	386 - 1200	x	x
IEL BHC	1150 - 2773	x	x
IEL BHC	2730 - 3753	x	x
FDC CNL	1180 - 2781	x	x
FDC CNL	2763 - 3754	x	x
DLL MSFL	3500 - 3750	x	x
CDM	1150 - 3749	x	
CDM AP	1150 - 3749	x	x
TEMPERATURE	195 - 1174		x
TEMPERATURE	1500 - 2754		x
CALIPER	160 - 424	x	x
FMT	3569 - 3716		
CBL	2446 - 3628	x	
MUD	203 - 3760		x
VELOCITY (S.C.L.)	190 - 3753		x
(+ Geogram Synthetic Seismogram,		2stk)	
(+ Seismic log,		1stk)	

MUD PROPERTIES			
DEPTH BELOW KB m	WEIGHT g/cm ³	FUNNEL VISC. sec	FILTRATE LOSS cm ³
380	1.08	41	
720	1.10	40	
1140	1.12	49	
1360	1.16	49	
2420	1.16	51	
3060	1.22	41	
3290	1.34	45	
3340	1.35	48	
3440	1.34	47	
3580	1.35	47	
3610	1.36	42	
3660	1.34	47	

DRILL BIT CUTTINGS AND WET SAMPLES		
SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
CUTTINGS	200 - 3760	450
WET SAMPLES	210 - 3760	710

SHALLOW GAS	
DEPTH INTERVAL m KB	REMARKS
	NONE



WELL HISTORY - 15/6-6

GENERAL :

Well 15/6-6 was drilled to provide needed structural control and to establish a gas/water contact for the north eastern flank of the Alpha structure in block 15/6. The well proved sands in the Utsira, Frigg, Heimdal and Sleipner formations to be water bearing. The Jurassic Hugin fm. sand was gas bearing.

OPERATIONS :

"Glomar Biscay II" spudded the well 10.04.82. The 36" hole had to be reamed several times due to ledging. This also occurred in the top of the 26" section. 46 BBL's of fluid were lost to the formation during cementing of the 13 3/8" casing. The mud weight in this section was 1.68 which is lower than the previous Sleipner wells. This and the fluid loss can possibly be related to an unconsolidated sand interval from 1185 to 1199 m. Minor hole problems were encountered in the 12 1/4" section. The drillstring was temporarily stuck at 1627 after making a connection. Three cores were taken in the Middle Jurassic interval in the 8 1/2" section.

TESTING :

The well was tested in the interval 3568 - 3578 m. Pertinent information from the test can be found in the enclosed table. The CO₂ content was 5 % and the gas also contained 7.5 ppm H₂S.²

GEOLOGICAL TOPS

WELL: 15/6-6

	Depth m (RKB)
Nordland Group	130 m
Utsira Fm	807 m
Hordaland Group	1043 m
Frigg Fm	1918 m
Rogaland Group	2205 m
Balder Fm	2205 m
Sele Fm	2260 m
Lista Fm	2329 m
Montrose Group	2353 m
Heimdal Fm	2353 m
Maureen Fm	2647 m
Chalk Group	2740 m
Ekofisk Fm	2740 m
Tor Fm	2778 m
Hod Fm	3050 m
Plenus Marl Fm	3290 m
Hydra Fm	3354 m
Cromer Knoll Group	3377 m
Viking Group	3398 m
Draupne Fm	3398 m
Heather Fm	3418 m
Vestland Group	3563 m
Hugin Fm	3563 m
Sleipner Fm	3621 m
"Triassic Group"	3655 m

TD = 3760 m