

Well no : 24/ 6-01

Operator : TOTAL

Coordinates : 59 36 00.25 N  
01 55 22.16 E

UTM coord. : 6607519  
439192

Licence no : 88

Permit no : 452

Rig : ZAPATA UGLAND

Rig type : SEMI-SUB.

Contractor : UGLAND ZAPATA OFFSHORE

Bottom hole temperature : 145 deg.C

Elev. KB : 25 M

Spud. date : 85.02.09

Water depth : 122 M

Compl. date : 85.08.25

Total depth : 4937 M

Spud. class : WILDCAT

Form. at TD : E.JURASSI

Compl. class : P&A. OIL/GAS DISC.

Prod. form :

Seisloca : TO 8401 - 106 SP. 370

## LICENSEES

50.000000 DEN NORSKE STATS OLJESELSKAP A.S  
30.000000 TOTAL MARINE NORSK A.S  
20.000000 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 <sup>3</sup>
CONDUCTOR	30	199.0	36	200.0	
SURF.COND.	20	996.0	26	1010.0	
INTERM.	13 3/8	2817.0	17 1/2	2830.0	1.75
INTERM.	9 5/8	4095.0	12 1/4	4110.0	2.08
LINER	7	4533.0	8 1/2	4537.0	
OPEN HOLE			6	4937.0	

## CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	2181.0 - 2182.6	1.6	100.0	PALEOCENE
2	4479.0 - 4497.0	18.0	100.0	MIDDLE JURASSIC
3	4497.0 - 4513.5	16.1	98.0	MIDDLE JURASSIC
4	4623.0 - 4629.0	6.0	100.0	MIDDLE JURASSIC
5	4688.0 - 4701.5	13.5	100.0	MIDDLE JURASSIC

## MUD PROPERTIES

Depth below KB meter	Mud weight g/cm <sup>3</sup>	Plastic viscosity mPa.s	Mud type
175.000	1.03		WATER BASED
200.000	1.07	17.0	WATER BASED
599.000	1.12	23.0	WATER BASED
1010.000	1.11	20.0	WATER BASED
1050.000	1.08	15.0	WATER BASED
1142.000	1.11	22.0	WATER BASED
1319.000	1.12	18.0	WATER BASED
1577.000	1.16	19.0	WATER BASED
1602.000	1.17	19.0	WATER BASED
2181.000	1.19	21.0	WATER BASED
2320.000	1.17	16.0	WATER BASED
2830.000	1.21	18.0	WATER BASED
2834.000	1.26	31.0	OIL BASED
3082.000	1.38	20.0	OIL BASED
3295.000	1.40	22.0	OIL BASED
3401.000	1.48	21.0	OIL BASED
3535.000	1.51	23.0	OIL BASED
3609.000	1.50	23.0	OIL BASED
3878.000	1.56	39.0	OIL BASED
4046.000	1.62	48.0	OIL BASED
4070.000	1.64	55.0	OIL BASED
4110.000	1.65	61.0	OIL BASED
4130.000	1.66	67.0	OIL BASED
4269.000	1.80	92.0	OIL BASED
4333.000	1.81	82.0	OIL BASED
4353.000	1.83	82.0	OIL BASED
4451.000	1.82	58.0	OIL BASED
4479.000	1.86	62.0	OIL BASED
4497.000	1.87	54.0	OIL BASED
4513.000	1.93	64.0	OIL BASED
4513.500	1.92	58.0	OIL BASED
4515.000	1.92	57.0	OIL BASED
4524.000	1.94	54.0	OIL BASED

## DRILL STEM TEST

### INTERVALS AND PRESSURES

Test no	interval meter	Choke size	Pressure (PSI)		
			WHP	BTHP	FFP
1.0	4502.000 - 4537.000	7.9	7025.0		

### RECOVERY

Test no.	Oil Sm <sup>3</sup> /d	Gas M Sm <sup>3</sup> /d	Oil grav. g/cm <sup>3</sup>	Gas grav. rel. air	GOR m <sup>3</sup> /m <sup>3</sup>
1.0	75*	0.425	0.785	0.640	5690

\* - CONDENSATE

## DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	210 - 4937	790
Wet Samples	210 - 4937	1260

## SHALLOW GAS

Interval below KB	REMARKS
	NONE

# AVAILABLE LOGS

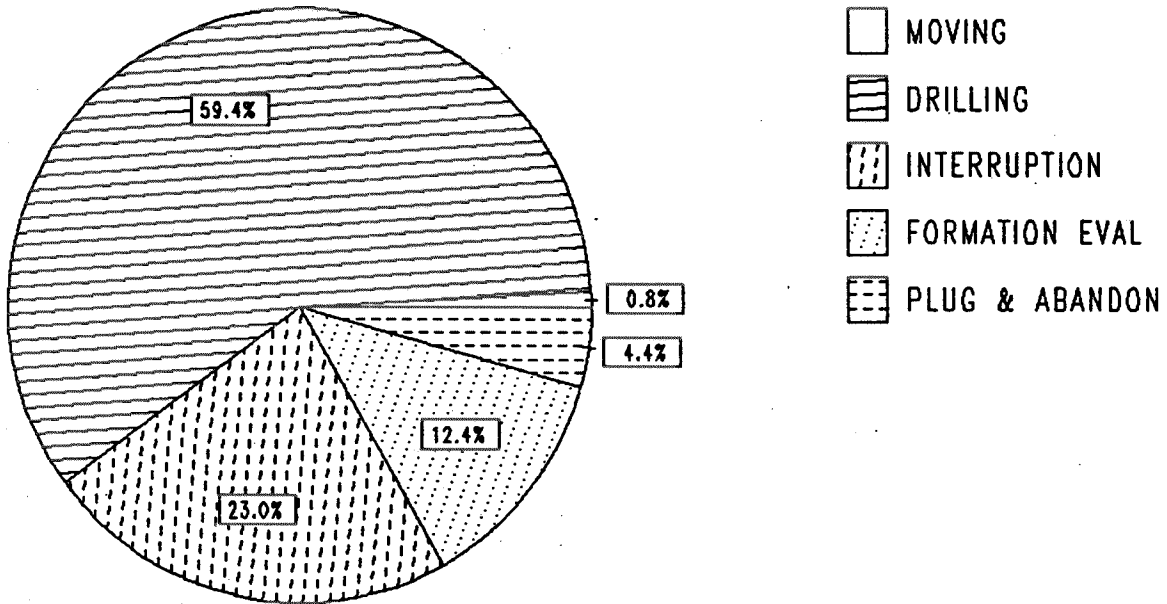
LOG TYPE	INTERVALS	1/200	1/500
DIL LSS GR	200 - 1010	X	X
DIL LSS	996 - 2819	X	X
DIL BHC	2821 - 4074	X	X
DIL BHC	4101 - 4538	X	X
DIL BHC	4539 - 4625	X	X
DIL BHC	4539 - 4940	X	X
DIL BHC	4539 - 4940	X	X
BHC	1600 - 2818	X	X
LDL CNL NGS	1595 - 2821	X	X
LDL CNL NGS	2821 - 4114	X	X
LDL CNL NGS	4101 - 4539	X	X
LDL CNL NGS	4539 - 4941	X	X
CDM	2821 - 4114	X	
CDM	4101 - 4539	X	
CDM	4539 - 4942	X	
CDM AP	4102 - 4545	X	X
CDM AP	4540 - 4941	X	X
SHDT	997 - 2821		1:20
NGS RATIO	1595 - 2811	X	
NGS RATIO	2821 - 4115	X	
NGS RATIO	4101 - 4539	X	
NGS RATIO	4539 - 4931	X	
RFT	3705 - 3709	X	
RFT	3679 - 3859	X	
RFT	3679 - 3859	X	
RFT	3678 - 3748	X	
RFT	4485 - 4520	X	
RFT	4552 - 4788	X	
RFT	4545 - 4680	X	
CBL VDL	348 - 994	X	
CBL VDL	1840 - 2821	X	
CBL VDL	2700 - 4101	X	
CBL VDL CCL	4002 - 4538	X	
CBL VDL	4230 - 4539	X	
MUD	199 - 4937		X
VELOCITY	200 - 4940		X

(+ V.S.P., Upgoing Wave,

4 stk)

# DAILY DRILLING REPORT SYSTEM

Main operation: 24/06-01



Total : 4776 HRS

Main operation	Minutes	Hours	% of total
MOVING	2400	40.00	0.84
DRILLING	170185	2836.42	59.39
INTERRUPTION	65870	1097.83	22.99
FORMATION EVAL	35520	592.00	12.40
PLUG & ABANDON	12585	209.75	4.39

MAIN OPERATIONS WELL : 24/06-01

MAIN OPERATION: DRILLING

Sub operations	Min	Hrs	% of total
TRIP	39230	653.83	23.05
WAIT	2985	49.75	1.75
CIRC/COND	8545	142.42	5.02
OTHER	90	1.50	0.05
DRILL	44560	742.67	26.18
CASING	25496	424.93	14.98
SURVEY	4050	67.50	2.38
BOP/WELLHEAD EQ	11359	189.32	6.67
BOP ACTIVITIES	5325	88.75	3.13
UNDERREAM	12990	216.50	7.63
PRESS DETECTION	230	3.83	0.14
REAM	11080	184.67	6.51
HOLE OPEN	4245	70.75	2.49
<b>TOTAL</b>	<b>170185</b>	<b>2836.42</b>	

MAIN OPERATION: MOVING

Sub operations	Min	Hrs	% of total
ANCHOR	1050	17.50	43.75
TRANSIT	1350	22.50	56.25
<b>TOTAL</b>	<b>2400</b>	<b>40.00</b>	

MAIN OPERATION: FORMATION EVAL

Sub operations	Min	Hrs	% of total
LOG	15030	250.50	42.31
CIRC SAMPLES	690	11.50	1.94
CORE	3540	59.00	9.97
CIRC/COND	1275	21.25	3.59
TRIP	3435	57.25	9.67
DST	11550	192.50	32.52
<b>TOTAL</b>	<b>35520</b>	<b>592.00</b>	

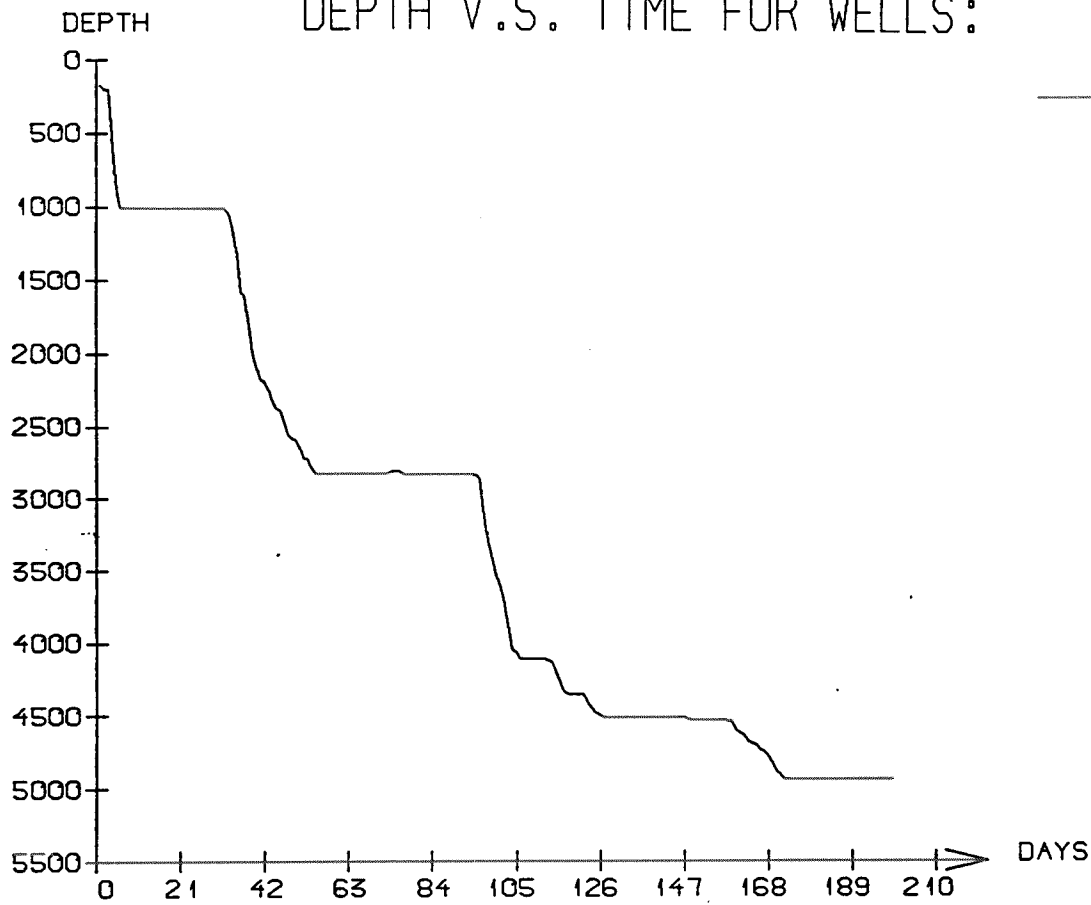
MAIN OPERATION: INTERRUPTION

Sub operations	Min	Hrs	% of total
FISH	1875	31.25	2.85
MAINTAIN/REP	31235	520.58	47.42
WAIT	5790	96.50	8.79
OTHER	165	2.75	0.25
WELL CONTROL	26805	446.75	40.69
<b>TOTAL</b>	<b>65870</b>	<b>1097.83</b>	

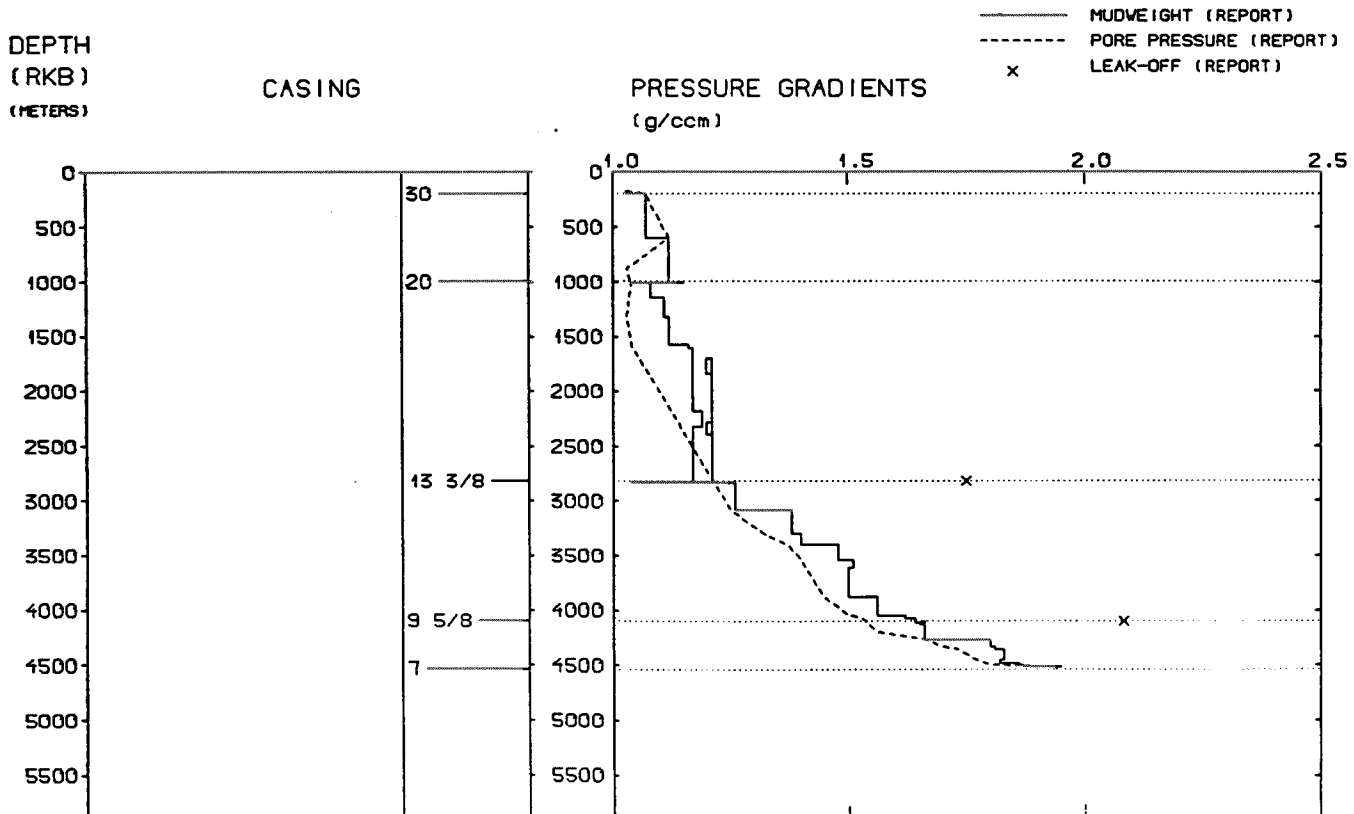
MAIN OPERATION: PLUG & ABANDON

Sub operations	Min	Hrs	% of total
TRIP	6135	102.25	48.75
CIRC/COND	915	15.25	7.27
CEMENT PLUG	1350	22.50	10.73
MECHANICAL PLUG	915	15.25	7.27
PERFORATE	1020	17.00	8.10
EQUIP RECOVERY	660	11.00	5.24
CUT	1470	24.50	11.68
OTHER	120	2.00	0.95
<b>TOTAL</b>	<b>12585</b>	<b>209.75</b>	

# DEPTH V.S. TIME FOR WELLS:



## WELL: 002406 01 PRESSURE COMPOSITE PLOT



# WELL HISTORY 24/6-1

## GENERAL:

Wildcat well 24/6-1 was drilled on a new structure approximately 1.5 km east of the UK-Norwegian median line. The purpose of the well was to test superimposed prospects: Paleocene Heimdal sands, which exhibited a large structural high, and Middle Jurassic Brent sandstones on an intrabasinal high faulted panel, dipping to the west and bounded to the north, east, and south by important normal faults.

## OPERATIONS:

The well was spudded 9 february 1985 by the semi-submersible rig Zapata Uglund. Some problems were experienced while cutting core no 2, due to weak formation below the 9 5/8" shoe. The hole was plugged back to 4460 m, and a cement squeeze was performed. This turned out to be not entirely successful, and the hole was drilled to 4540 m where a 7" liner was set. Further drilling proceeded without problems. Topp of the Brent reservoir came in at 4478 m and the gas/water contact at 4578 m. The discovery is relatively small, but is interesting due to the fields close proximity to the Frigg- and Heimdal Fields.

## TESTING:

One Drill Stem Test was performed in this well.



# GEOLOGICAL TOPS

WELL: 24-6-1

	Depth m (RKB)
<i>Nordland Group</i>	149
<i>Hordaland Group</i>	875
<i>Rogaland Group</i>	2004
<i>Balder Fm.</i>	2004
<i>Sele/Lista Fm.</i>	2049
<i>Heimdal Fm.</i>	2180
<i>Våle Fm</i>	2485
<i>Shetland Group</i>	2801.5
<i>Cromer Knoll Group</i>	4152
<i>Viking Group</i>	4196
<i>Draupne Fm.</i>	4196
<i>Heather Fm.</i>	4204.5
<i>Brent Group</i>	4478
<i>Dunlin Group (lower part)</i>	4788.5
<i>Statfjord Fm.</i>	4915
<i>T.D.</i>	4942