

Well no : 6607/05-01

Operator : ESSO

Coordinates : 66 38 09.67 N  
07 32 21.38 E

UTM coord. : 7391750 N  
435359 E

Licence no : 126

Permit no : 549

Rig : VINNI

Rig type : SEMI-SUB.

Contractor : SDS DRILLING

Bottom hole temperature : deg.C

Elev. KB : 26 M

Spud. date : 87.06.09

Water depth : 366 M

Compl. date : 87.09.11

Total depth : 3817 M

Spud. class : WILDCAT

Form. at TD : CRETACEOUS

Compl. class : P&A. DRY HOLE

Prod. form :

Seisloca : AE 86 - 114 SP. 2539

### LICENSEES

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35.000000	ESSO NORGE A.S
15.000000	MOBIL DEVELOPMENT NORWAY A.S.
50.000000	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/cm3
-----	-----	-----	-----	-----	-----
CONDUCTOR	30	440.7	36	915.0	.
SURF.COND.	20	907.0	26	918.0	1.46
INTERM.	13 3/8	2086.0	17 1/2	2296.0	1.85
INTERM.	9 5/8	2886.0	12 1/4	2897.0	2.06

### CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery M	%
.....	.....	.....	.....
1	2975.0-2982.7	13.7	100.0
2	3405.7-3417.0	12.7	100.0

### MUD PROPERTIES

Depth below KB meter	Mud weigth g/cm3	Viscosity	Mud type
-----	-----	-----	-----
915.000	1.03	0.0	WATER BASED
915.000	1.74	0.0	WATER BASED
1060.000	1.15	16.0	WATER BASED
1493.000	1.19	19.0	WATER BASED
1579.000	1.22	18.0	WATER BASED
1588.000	1.24	18.0	WATER BASED
1817.000	1.25	18.0	WATER BASED
1948.000	1.27	18.0	WATER BASED
2039.000	1.29	18.0	WATER BASED
2058.000	1.35	21.0	WATER BASED

2100.000	1.38	19.0	WATER BASED
2330.000	1.58	24.0	WATER BASED
2597.000	1.56	22.0	WATER BASED
2702.000	1.62	23.0	WATER BASED
2340.000	1.61	23.0	WATER BASED
1400.000	1.67	0.0	WATER BASED
1942.000	1.38	10.0	WATER BASED
2502.000	1.61	23.0	WATER BASED
2540.000	1.67	26.0	WATER BASED
2609.000	1.61	27.0	WATER BASED
2717.000	1.73	29.0	WATER BASED
2755.000	1.74	29.0	WATER BASED
2770.000	1.79	29.0	WATER BASED
3387.000	1.73	22.0	WATER BASED
3816.000	1.76	14.0	WATER BASED

### DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
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Cutting		
Wet Samples	920-3816	330
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### SHALLOW GAS

Interval below KB	REMARKS
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### AVAILABLE LOGS

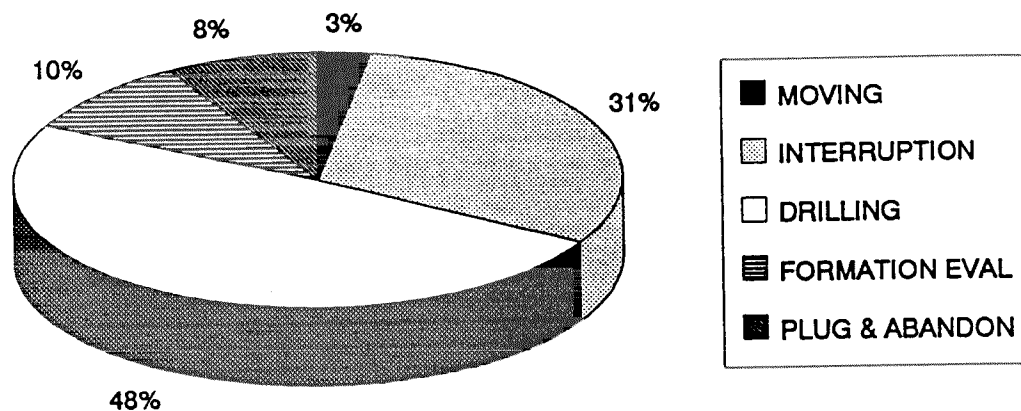
LOG TYPE	INTERVALS	1/200	1/500	Div.
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DIFL LS BHC AC GR	392.000 - 913.000	X	X	
DIFL LS BHC AC GR	905.000 - 2096.000	X	X	
DIFL LSBHC AC GR CA	2085.000 - 2900.000	X	X	
DIFL LS BHC AC GR	2882.000 - 3807.000	X	X	
CDL CNL GR	905.000 - 2078.000	X	X	
CDL CNL GR	2085.000 - 2900.000	X	X	
CDL CNL GR	2882.000 - 3793.000	X	X	
SHDT	2882.000 - 3809.000	X	X	
CDM AP/SHDT 4-ARM	2882.000 - 3809.000	X	X	
FMT	2975.000 - 3394.000			
CBL VDL AC GR	881.000 - 1062.000	X		
ACBL	2472.000 - 2650.000	X		
DRILL.DATA PRESS.	906.000 - 3817.000	1:2500		
MUD	399.000 - 3800.000			X
VELOCITY	715.000 - 3800.000	1:1000	X	
(Velocity, calibration log, 10 cm/s			1 stk.)	
(Velocity, summed data, 10cm/s			1 stk.)	

(VSP, zero offset, 10cm/s  
(Synthetic seismogram, 10cm/s

1 stk.)  
1 stk.)

# DAILY DRILLING REPORT SYSTEM

MAIN OPERATIONS FOR WELL: 6607/05-01



Main operation	Minutes	Hrs	% of total
MOVING	3870	64,5	2,80
INTERRUPTION	42735	712,3	30,91
DRILLING	67650	1127,5	48,94
FORMATION EVAL	13155	219,3	9,52
PLUG & ABANDON	10830	180,5	7,83
<i>Total</i>	138240	2304,0	100,00

## SUB OPERATIONS FOR WELL: 6607/05-01

### MAIN OPERATION: MOVING

Sub operation	Minutes	Hrs	% of total
TRANSIT	195	3,25	5,04
ANCHOR	3675	61,25	94,96
<i>Total</i>	<i>3870</i>	<i>64,50</i>	<i>100,00</i>

### MAIN OPERATION: INTERRUPTION

Sub operation	Minutes	Hrs	% of total
MAINTAIN/REP	10965	182,8	25,66
SIDETRACK	25365	422,8	59,35
FISH	3150	52,5	7,37
LOST CIRC	2550	42,5	5,97
WELL CONTROL	315	5,3	0,74
OTHER	390	6,5	0,91
<i>Total</i>	<i>42735</i>	<i>712,3</i>	<i>100,00</i>

### MAIN OPERATION: DRILLING

Sub operation	Minutes	Hrs	% of total
TRIP	13290	221,5	19,65
BOP/WELLHEAD EQ	3255	54,3	4,81
DRILL	24930	415,5	36,85
PRESS DETECTION	210	3,5	0,31
CIRC/COND	5070	84,5	7,49
WAIT	1065	17,8	1,57
HOLE OPEN	1425	23,8	2,11
CASING	13680	228,0	20,22
REAM	660	11,0	0,98
BOP ACTIVITIES	2550	42,5	3,77
SURVEY	1470	24,5	2,17
OTHER	45	0,8	0,07
<i>Total</i>	<i>67650</i>	<i>1127,5</i>	<i>100,00</i>

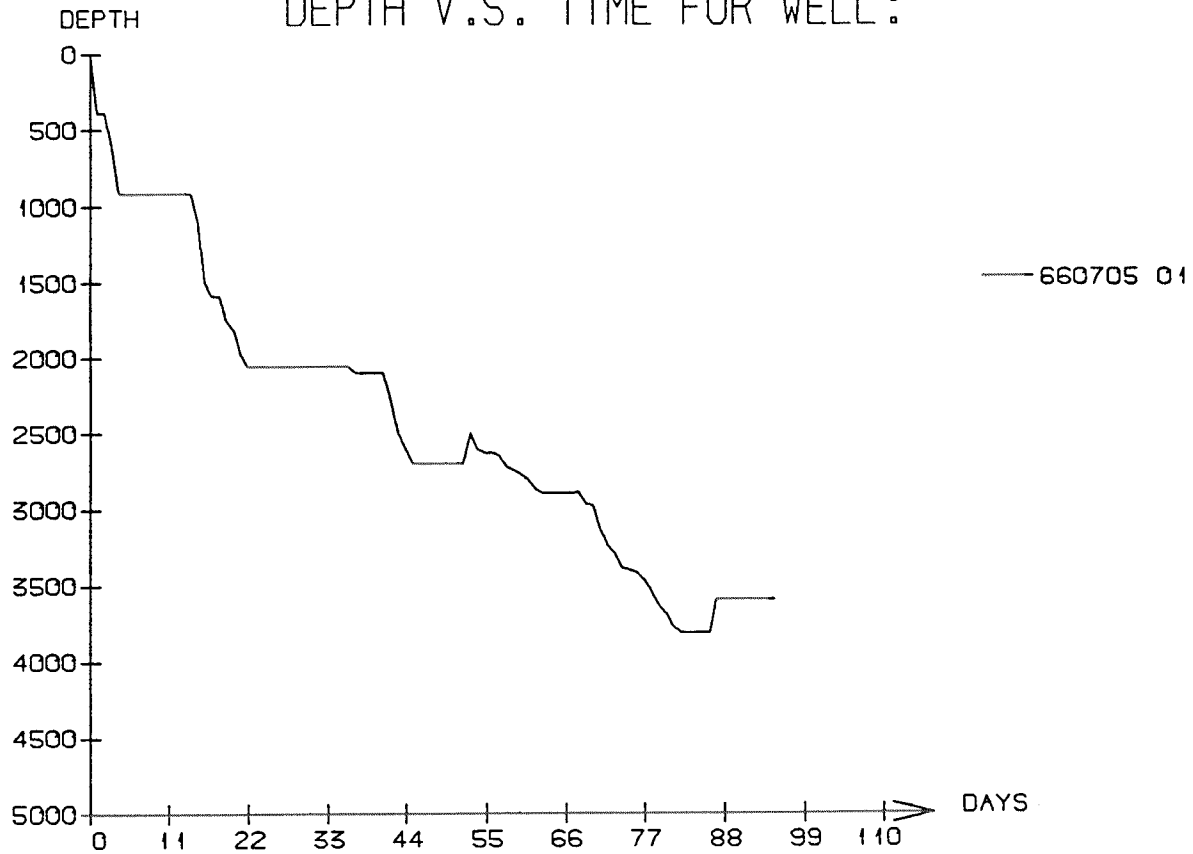
### MAIN OPERATION: FORMATION EVAL

Sub operation	Minutes	Hrs	% of total
LOG	5745	95,8	43,67
TRIP	3255	54,3	24,74
CIRC/COND	2325	38,8	17,67
CIRC SAMPLES	735	12,3	5,59
CORE	1035	17,3	7,87
RFT/FIT	60	1,0	0,46
<i>Total</i>	<i>13155</i>	<i>219,3</i>	<i>100,00</i>

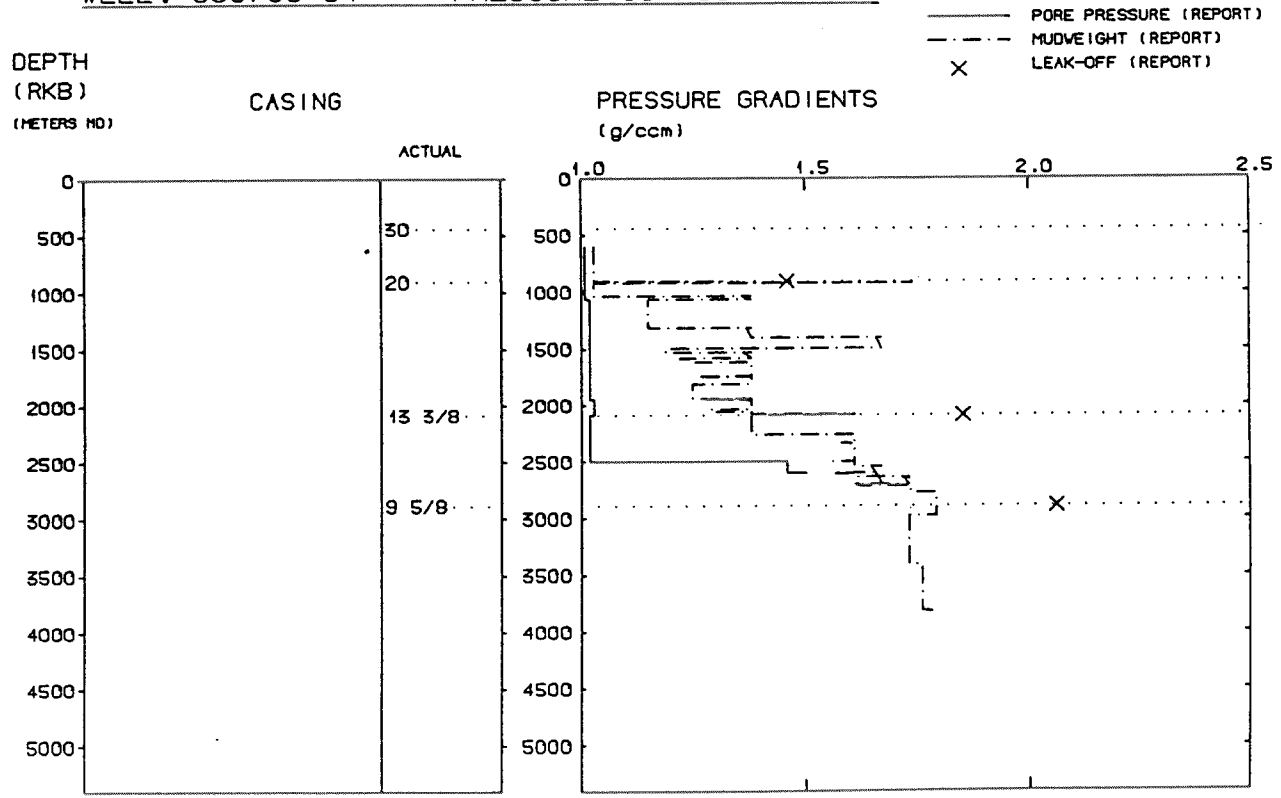
### MAIN OPERATION: PLUG & ABANDON

Sub operation	Minutes	Hrs	% of total
TRIP	2595	43,3	23,96
CIRC/COND	570	9,5	5,26
CEMENT PLUG	675	11,3	6,23
WAIT	690	11,5	6,37
MECHANICAL PLUG	450	7,5	4,16
EQUIP RECOVERY	4935	82,3	45,57
OTHER	870	14,5	8,03
SQUEEZE	45	0,8	0,42
<i>Total</i>	<i>10830</i>	<i>180,5</i>	<i>100,00</i>

# DEPTH V.S. TIME FOR WELL:



## WELL: 660705 01 PRESSURE COMPOSITE PLOT



# Well History 6607/5-1.

## GENERAL:

Well 6607/5-1 was designed to test the reservoir potential in the Amundsen prospect on a tilted faultblock at the crest of the Bodø High. Middle to Lower shallow marine sandstones of Båt- and Fangst Group, were the primary objectives.

The main source rock interval was expected to be the Spekk Formation "hot shale". In addition the Åre Formation was expected to have source rock potential.

Cretaceous and Tertiary claystones/shales were prognosed to provide the main top seal on the underlying sandstones. Possible absence of the Middle-Lower Jurassic reservoir was considered the major risk for the Amundsen prospect. Adequacy of source was considered a second major risk. TD was prognosed to 3800 m RKB.

## OPERATIONS:

Wildcat well 6607/5-1 was spudded by SDS Drilling semi-submersible rig Vinni 9 June 1987, and completed 11 September 1987 at a depth of 3817 in Late Cretaceous rocks.

Drilling proceeded without any significant problems. Shallow gas was encountered within Pleistocene sediments over the interval 966- 1040 m RKB, which correlates well with a strong seismic anomaly which was picked predrill at 977 m RKB. Minor shows was encountered at the interval 3384-3444 m RKB, and at 3537-3568 m RKB. The porous sands proved to be water bearing.

Two cores were cut in the Shetland Group. The primary objects were not penetrated, as the reflectors interpreted as Jurassic, turned out to be of Cretaceous age. The well was plugged and abandoned as a dry well.

## TESTING:

No DST-test were performed in this well.

# GEOLOGICAL TOPS

WELL: 6607/5-1

Depth m (RKB)

<i>Nordland Group</i>	395.0
<i>Naust Fm.</i>	395.0
<i>Kai Fm.</i>	2215.0
<i>Rogaland Group</i>	2450.0
<i>Tare Fm.</i>	2450.0
<i>Shetland Group</i>	2512.0
<i>Springar Fm.</i>	2512.0
<i>Nise Fm.</i>	2968.0
<i>Kvitnos Fm.</i>	3076.0
<i>T.D.</i>	3817.0