

Well no : 6610/ 7-02

Operator : STATOIL

Coordinates	: 66 27 49.61 N 10 10 10.92 E	UTM coord.	: 7372281 N 552123 E
Licence no	: 084	Permit no	: 385
Rig	: WEST VANGUARD	Rig type	: SEMI-SUB.
Contractor	: A/S SMEDVIK DRILLING CO.		
Bottom hole temperature	: 112 deg.C	Elev. KB	: 22 M
Spud date	: 83.08.28	Water depth	: 235 M
Compl. date	: 84.03.14	Total depth	: 4215 M
Spud class.	: WILDCAT	Age at TD	: TRIASSIC
Compl. class.	: P&A. DRY HOLE		
Seis. loc.	: ST 8216 - 115 SP 541		

LICENSEES

 25.000 NORSK AGIP A/S
 25.000 ELF AQUITAINE NORGE 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 ³
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CONDUCTOR	30	321.0	36	321.0	
SURF.COND.	20	701.0	26	715.0	1.53
INTERM.	16	1450.0	22	1465.0	1.78
INTERM.	13 3/8	2143.0	17 1/2	2160.0	1.76
INTERM.	9 5/8	3471.0	12 1/4	3486.0	2.00
OPEN HOLE			8 1/2	4215.0	

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
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1	1498.0 - 1507.5	9.0	94.7	JURASSIC
2	4180.0 - 4195.0	15.0	100.0	TRIASSIC

MUD PROPERTIES

Depth below KB meter	Mud weighth g/cm3	Plastic viscosity mPa.s	Mud type
300.0	1.07	9.0	WATER BASED
700.0	1.10	9.0	WATER BASED
730.0	1.12		WATER BASED
1110.0	1.17		WATER BASED
1135.0	1.25		WATER BASED
1175.0	1.31		WATER BASED
1225.0	1.32	17.0	WATER BASED
1300.0	1.43		WATER BASED
1465.0	1.40	12.0	WATER BASED
2260.0	1.14	18.0	WATER BASED
2295.0	1.19	20.0	WATER BASED
2385.0	1.13	21.0	WATER BASED
2530.0	1.20	22.0	WATER BASED
2795.0	1.21	21.0	WATER BASED
2845.0	1.22	24.0	WATER BASED
2870.0	1.20	30.0	WATER BASED
2890.0	1.19	19.0	WATER BASED
2920.0	1.18	19.0	WATER BASED
3000.0	1.19	22.0	WATER BASED
3140.0	1.20	21.0	WATER BASED
3240.0	1.21	17.0	WATER BASED
3355.0	1.30	23.0	WATER BASED
3450.0	1.35	28.0	WATER BASED

DRILL STEM TEST

NO DST'S WERE PERFORMED IN THIS WELL

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
CUTTINGS	321 - 4215	840
WET SAMPLES	320 - 4212	1120

SHALLOW GAS

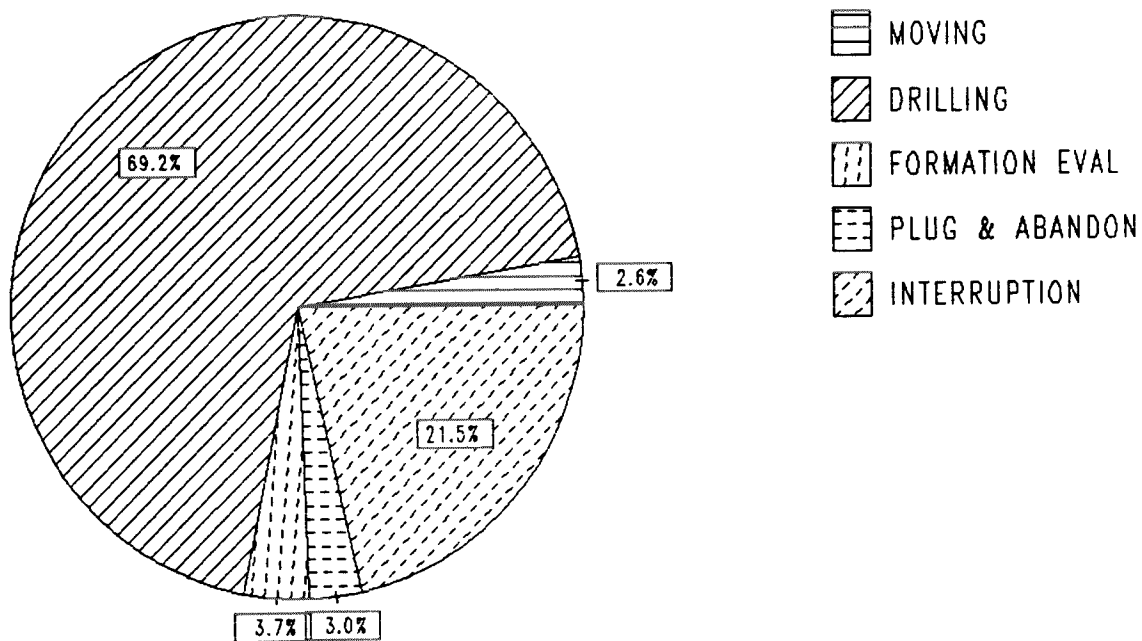
INTERVAL BELOW KB	REMARKS
418 M 639 M	POSSIBLE SHALLOW GAS

AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
ISF BHC MSFL	320 - 713	X	X
ISF BHC	701 - 1465	X	X
ISF BHC MSFL	1449 - 2177	X	X
ISF BHC	2177 - 3305	X	X
ISF BHC	3200 - 3476	X	X
ISF BHC SP	3473 - 4216	X	X
LDL CNL	320 - 714	X	X
LDL CNL	701 - 1466	X	X
LDL CNL	1449 - 2178	X	X
LDL CNL NGS	2960 - 3305	X	X
LDL CNL NGS	2143 - 3476	X	X
LDL CNL NGS	3473 - 4217	X	X
COMP. PLAYBACK (ISF/LDL/CNL)	320 - 4217	1:1000	X
DLL MSFL SP	3472 - 4215	X	X
CDM	701 - 1466	X	
CDM	3473 - 4217	X	
CDM AP	702 - 1465	X	X
CDM AP	3474 - 4216	X	X
SHDT	1449 - 2179	X	
TDT	2300 - 3290	X	X
SLIM HOLE CNT	2140 - 3290	X	X
NGS	1449 - 2168	X	X
NGS	2143 - 3476	X	X
NGS	3473 - 4217	X	X
BGT	701 - 1465	X <==>	X
BGT	701 - 1465	X <==>	X
BGT	1449 - 2159	X <==>	X
BGT	1449 - 2162	X <==>	X
RFT	1490 - 2126		
RFT	3514 - 4200	1:100	
CBL VDL 16" CSG.	259 - 1449	X	
CBL VDL	980 - 2143	X	
CBL VDL CCL	1755 - 3470	X	
MUD	320 - 3536		X
MUD	3112 - 4215		X
VELOCITY	320 - 4216	1:1000	X
(Airgun well velocity surv. and cal. log data			1 stk)

DAILY DRILLING REPORT SYSTEM

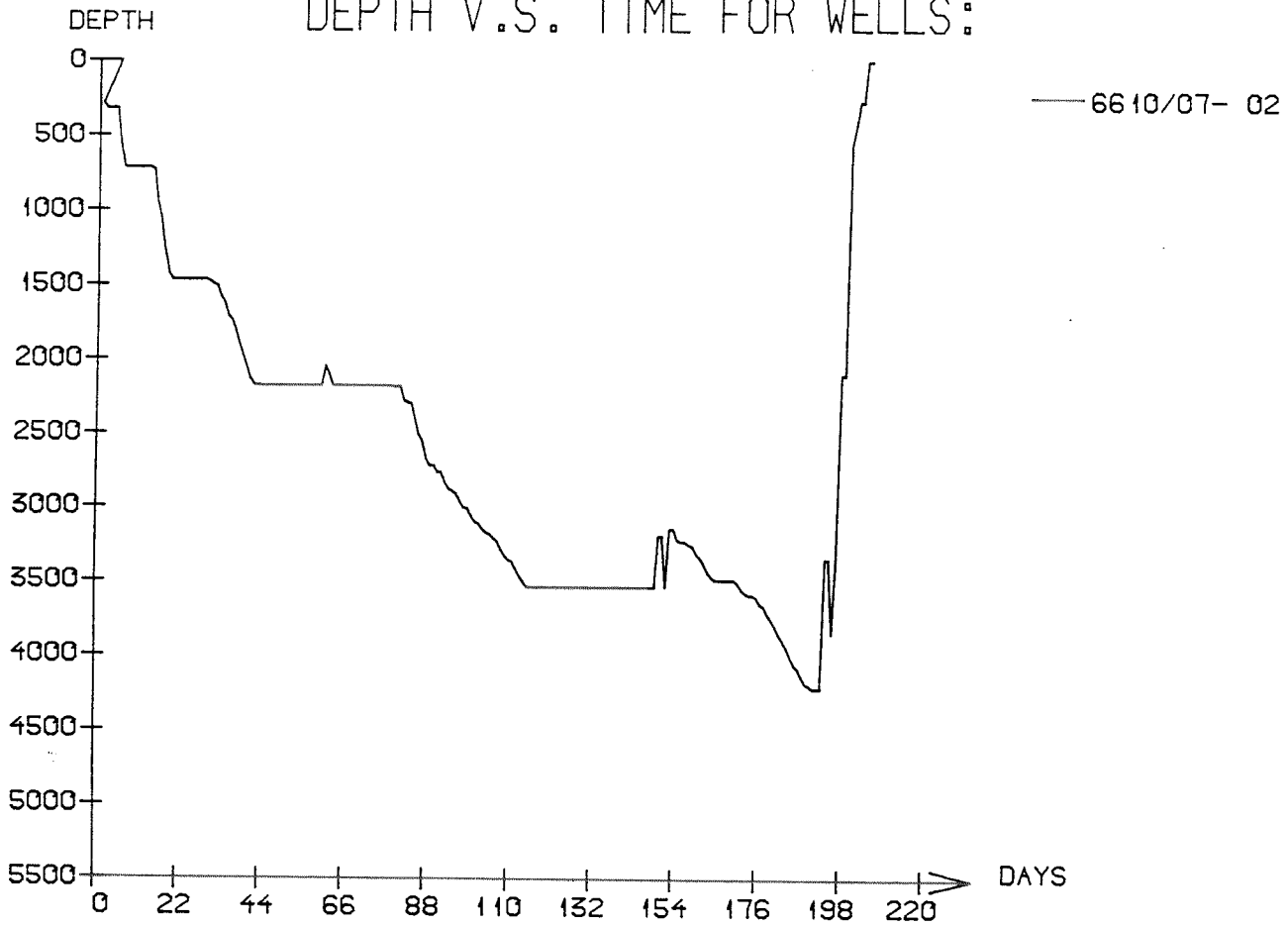
Main operation : 6610/07-02



Total : 4933,50 HRS

Main operation	Hours	% of total
MOVING	130,50	2,65
DRILLING	3413,00	69,18
FORMATION EVAL	181,50	3,68
PLUG & ABANDON	146,00	2,96
INTERRUPTION	1062,50	21,54

DEPTH V.S. TIME FOR WELLS:



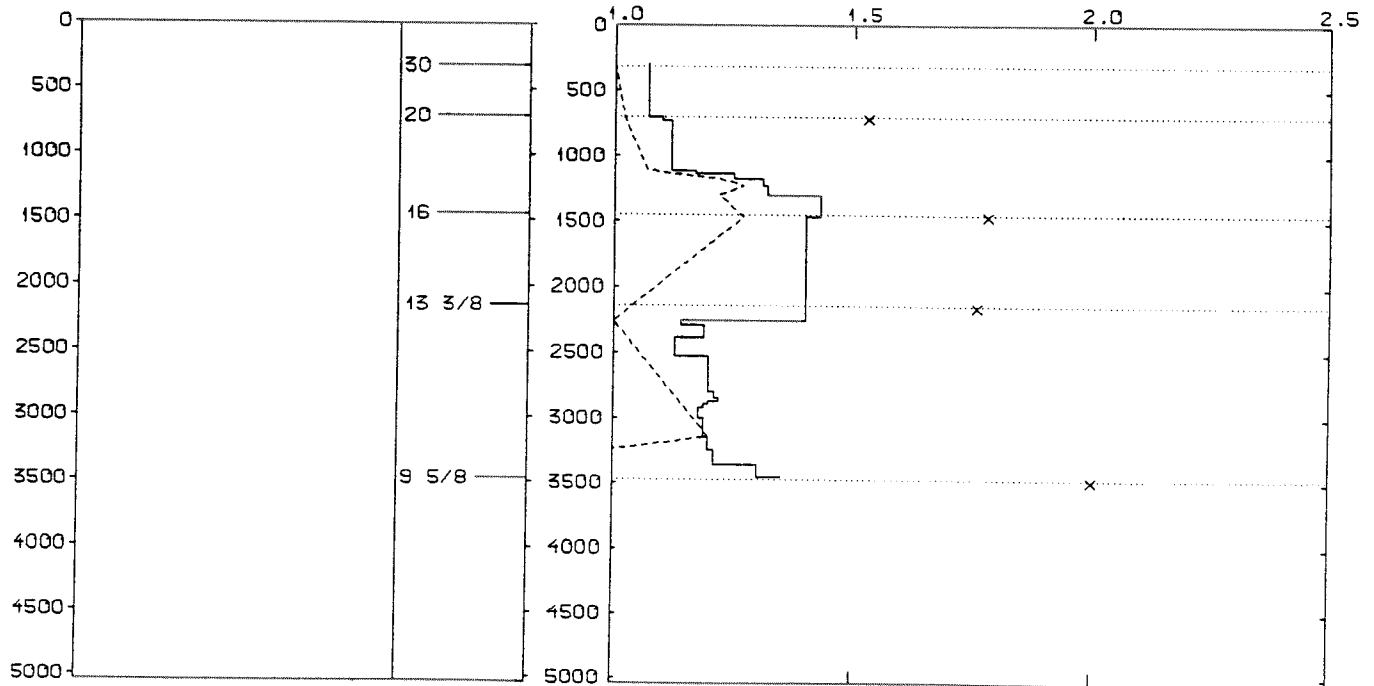
WELL: 661007 02 PRESSURE COMPOSITE PLOT

DEPTH
(RKB)
(METERS)

CASING

PRESSURE GRADIENTS
(g/ccm)

— MUDWEIGHT (REPORT)
 - - - PORE PRESSURE (REPORT)
 x LEAK-OFF (REPORT)



WELL HISTORY - 6610/7-2

GENERAL:

The main objective of the wildcat 6610/7-2 was to test the hydrocarbon potential of the structure to be drilled. The primary target was sandstones of Lower Jurassic and Upper Triassic age. Secondary objectives were to gather information about the stratigraphy and hydrocarbon potential down to approximately 4200 m. The well did not encounter any hydrocarbon bearing intervals.

OPERATIONS:

The well was spudded 28.03.83 by the semi-submersible rig West Vanguard. Two cores were cut, one in the Lower Jurassic sequence and one in the Middle to Lower Triassic. Excessive reaming of tight spots had to be done during drilling of the 22" hole section. In all the four first hole sections a pilot hole was drilled before underreaming. 19 kg junk was recovered from the hole after drilling out of the 13 3/8" casing shoe. Several problems with stuck pipe occurred below 3000 m. At 3526 m the pipe was stuck and had to be backed off at 3315 m. A cement plug was set from 3292 to 3148 m. The hole was sidetracked from 3212 m. Large problems with tight hole was experienced down to 3361 m. The well was drilled using water based mud. In the 12 1/4" hole oil based mud was used.

TESTING:

The well was not tested.

GEOLOGICAL TOPS

WELL: 6610/ 7-02

	<i>Depth m (RKB)</i>
<i>Nordland Group</i>	<i>257.000</i>
<i>Naust Fm</i>	<i>257.000</i>
<i>Rogaland Group</i>	<i>992.000</i>
<i>Tare Fm</i>	<i>992.000</i>
<i>Tang Fm</i>	<i>1147.000</i>
<i>Shetland Group</i>	<i>1262.000</i>
<i>Cromer Knoll Group</i>	<i>1455.000</i>
<i>Båt Group</i>	<i>1500.000</i>
<i>Tilje Fm</i>	<i>1500.000</i>
<i>Åre Fm</i>	<i>1533.000</i>
<i>Triassic</i>	<i>1726.000</i>
<i>"Grey Beds" Fm</i>	<i>1726.000</i>
<i>TD =</i>	<i>4215.000</i>