

Well no : 7121/ 4-02

Operator : STATOIL

Coordinates : 71 39 26.09 N  
21 03 45.96 E

UTM coord. : 7950918  
502204

Licence no : 99

Permit no : 449

Rig : WEST VANGUARD

Rig type : SEMI-SUB.

Contractor : A/S SMEDVIK DRILLING CO.

Bottom hole temperature : 75 deg.C

Elev. KB : 22 M

Spud. date : 85.01.29

Water depth : 317 M

Compl. date : 85.04.14

Total depth : 2800 M

Spud. class : WILDCAT

Form. at TD : TRIASSIC

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

Prod. form : M. JURASSI

Seisloca : TNG 83 - 366 SP. 805

## LICENSEES

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10.000000 NORSKE CONOCO A/S  
10.000000 NORSK HYDRO PRODUKSJON A.S  
50.000000 DEN NORSKE STATS OLJESELSKAP A.S  
30.000000 TOTAL MARINE NORSK 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>
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CONDUCTOR	30	414.0	36	417.0	
SURF.COND.	20	900.0	26	918.0	1.39
INTERM.	13 3/8	1759.0	17 1/2	1774.0	1.49
INTERM.	9 5/8	2455.0	12 1/4	2460.0	1.86
LINER	7	2797.0	8 1/2	2800.0	

## CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	2463.0 - 2481.0	18.0	100.0	MIDDLE JURASSIC
2	2481.0 - 2499.0	18.0	100.0	M/L JURASSIC
3	2499.0 - 2527.0	28.0	100.0	M/L JURASSIC
4	2527.0 - 2549.0	21.6	98.0	M/L JURASSIC
5	2549.0 - 2555.5	6.5	100.0	M/L JURASSIC
6	2555.5 - 2583.5	28.0	100.0	LOWER JURASSIC
7	2583.5 - 2597.5	13.8	99.0	LOWER JURASSIC

## MUD PROPERTIES

Depth below KB meter	Mud weigh g/cm <sup>3</sup>	Plastic viscosity mPa.s	Mud type
420.000	1.06	7.0	WATER BASED
918.000	1.18	4.7	WATER BASED
941.000	1.08	7.0	WATER BASED
1140.000	1.13	11.0	WATER BASED
1261.000	1.15	13.0	WATER BASED
1384.000	1.20	11.0	WATER BASED
1458.000	1.17	8.0	WATER BASED
1769.000	1.12	11.0	WATER BASED
1774.000	1.17	8.0	WATER BASED
1932.000	1.12	11.0	WATER BASED
2009.000	1.13	15.0	WATER BASED
2123.000	1.20		WATER BASED
2460.000	1.37	15.0	WATER BASED
2463.000	1.23	13.0	WATER BASED
2602.000	1.35	14.0	WATER BASED
2629.000	1.23	11.0	WATER BASED

## DRILL STEM TEST

### INTERVALS AND PRESSURES

Test no	interval meter	Choke size	Pressure (PSI)		
			WHP	BTHP	FFP
1.0	2484.000 - 2493.000	25.4	1334.3	3569.1	

### 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	77.5*	0.87	0.769	0.647	11186

\* - CONDENSATE

## DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	420 - 2800	480
Wet Samples	420 - 2799	560

## SHALLOW GAS

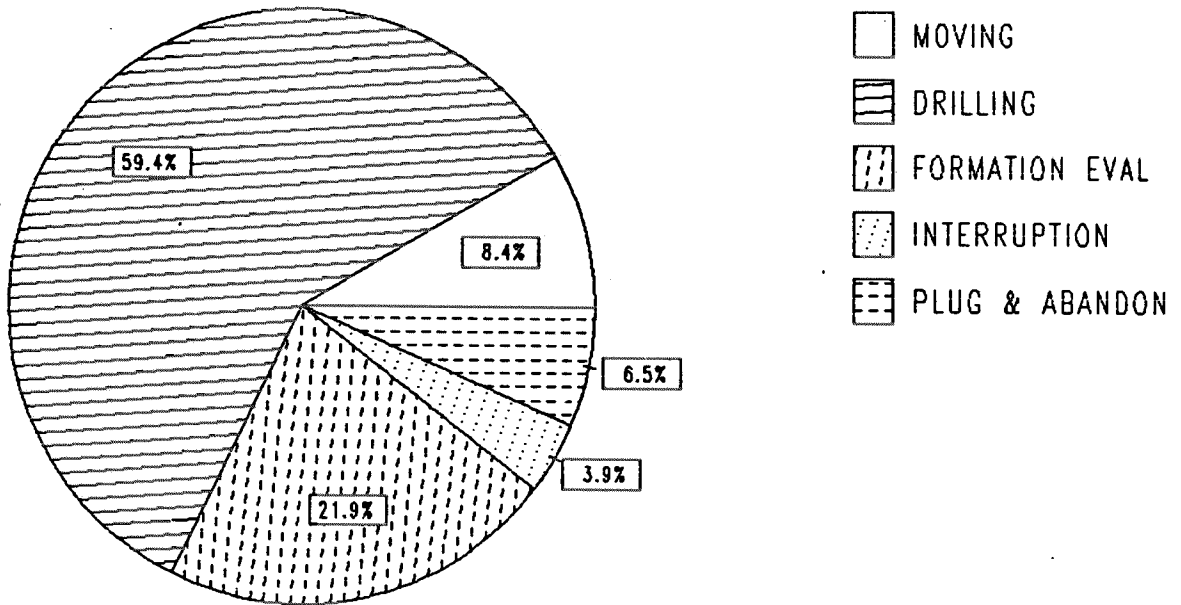
Interval below KB	REMARKS
	NONE

# AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
ISF BHC GR	414 - 2803	X	X
LDL	414 - 918	X	X
LDL	899 - 1772	X	X
LDL	1760 - 2459	X	X
LDL CNL NGS	2457 - 2673	X	X
LDL CNL NGS	2625 - 2803	X	X
DLL SP	2457 - 2668	X	X
CDM	2457 - 2803	X	
CDM AP	900 - 1773	X	X
CDM AP	1760 - 2459	X	X
CDM AP	2458 - 2803	X	X
SHDT	899 - 1773	X	
SHDT	1760 - 2459	X	
NGS	2457 - 2663	X	X
RFT	2481 - 2664	X	
RFT	2673 - 2781	X	
CBL VDL	337 - 1760	X	
CBL VDL	1500 - 2455	X	
CBL VDL	2268 - 2748	X	
MUD	414 - 2800		X
VELOCITY	339 - 2802		X
(+ V.S.P., PLOT 1-13, 10 cm/s,			13 stk)
(+ Synthetic Seismogram, Geogram, 10 cm/s,			4 stk)

# DAILY DRILLING REPORT SYSTEM

Main operation : 7121/04-02



Total : 1992 HRS

Main operation	Minutes	Hours	% of total
MOVING	10050	167.50	8.41
DRILLING	70950	1182.50	59.36
FORMATION EVAL	26130	435.50	21.86
INTERRUPTION	4680	78.00	3.92
PLUG & ABANDON	7710	128.50	6.45

MAIN OPERATIONS WELL : 7121/04-02

MAIN OPERATION: DRILLING

Sub operations	Min	Hrs	% of total
TRIP	16200	270.00	22.83
OTHER	1290	21.50	1.82
DRILL	21570	359.50	30.40
SURVEY	780	13.00	1.10
HOLE OPEN	1080	18.00	1.52
CIRC/COND	6600	110.00	9.30
CASING	10590	176.50	14.93
BOP/WELLHEAD EQ	5850	97.50	8.25
UNDERREAM	3630	60.50	5.12
REAM	2340	39.00	3.30
BOP ACTIVITIES	1020	17.00	1.44
<b>TOTAL</b>	<b>70950</b>	<b>1182.50</b>	

MAIN OPERATION: MOVING

Sub operations	Min	Hrs	% of total
TRANSIT	8580	143.00	85.37
ANCHOR	1200	20.00	11.94
POSITION	270	4.50	2.69
<b>TOTAL</b>	<b>10050</b>	<b>167.50</b>	

MAIN OPERATION: FORMATION EVAL

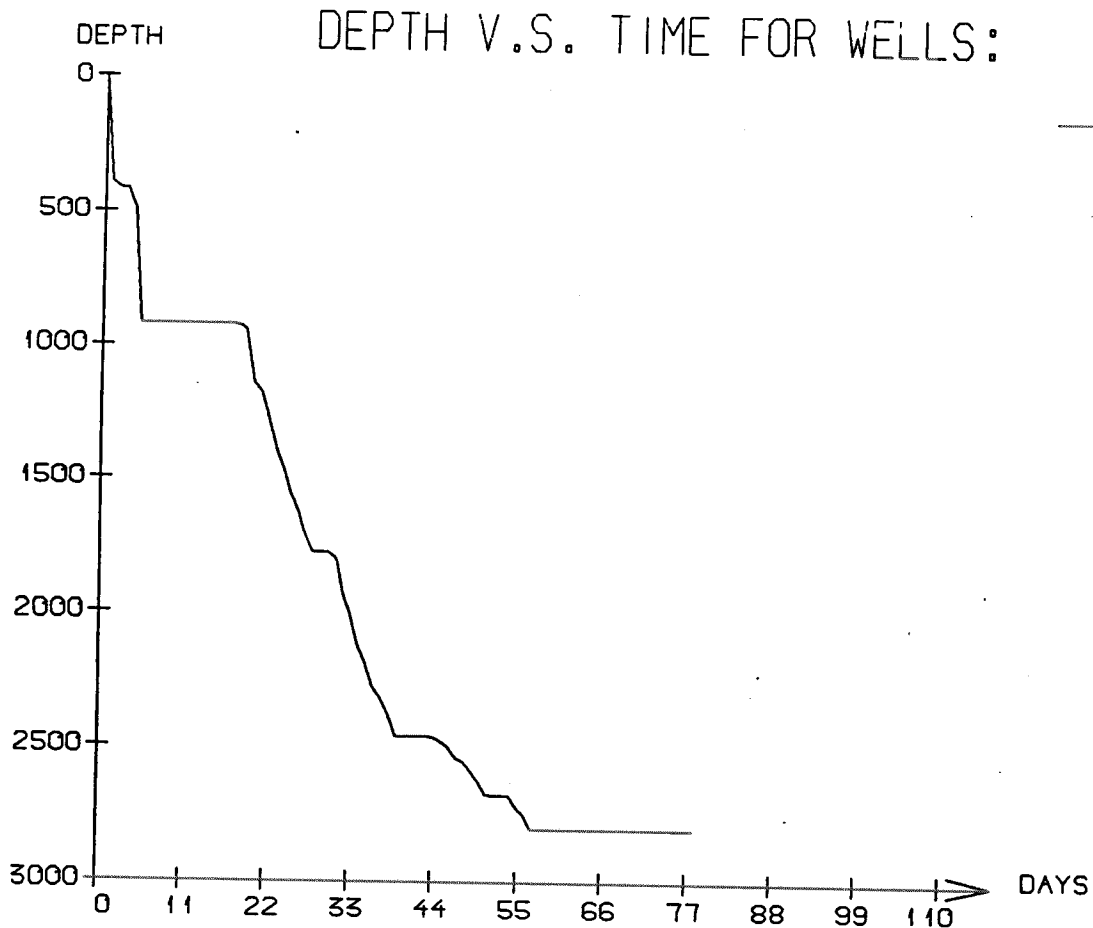
Sub operations	Min	Hrs	% of total
LOG	6990	116.50	26.75
OTHER	90	1.50	0.34
CORE	4080	68.00	15.61
TRIP	3720	62.00	14.24
CIRC/COND	1080	18.00	4.13
RFT/FIT	540	9.00	2.07
DST	9630	160.50	36.85
<b>TOTAL</b>	<b>26130</b>	<b>435.50</b>	

MAIN OPERATION: INTERRUPTION

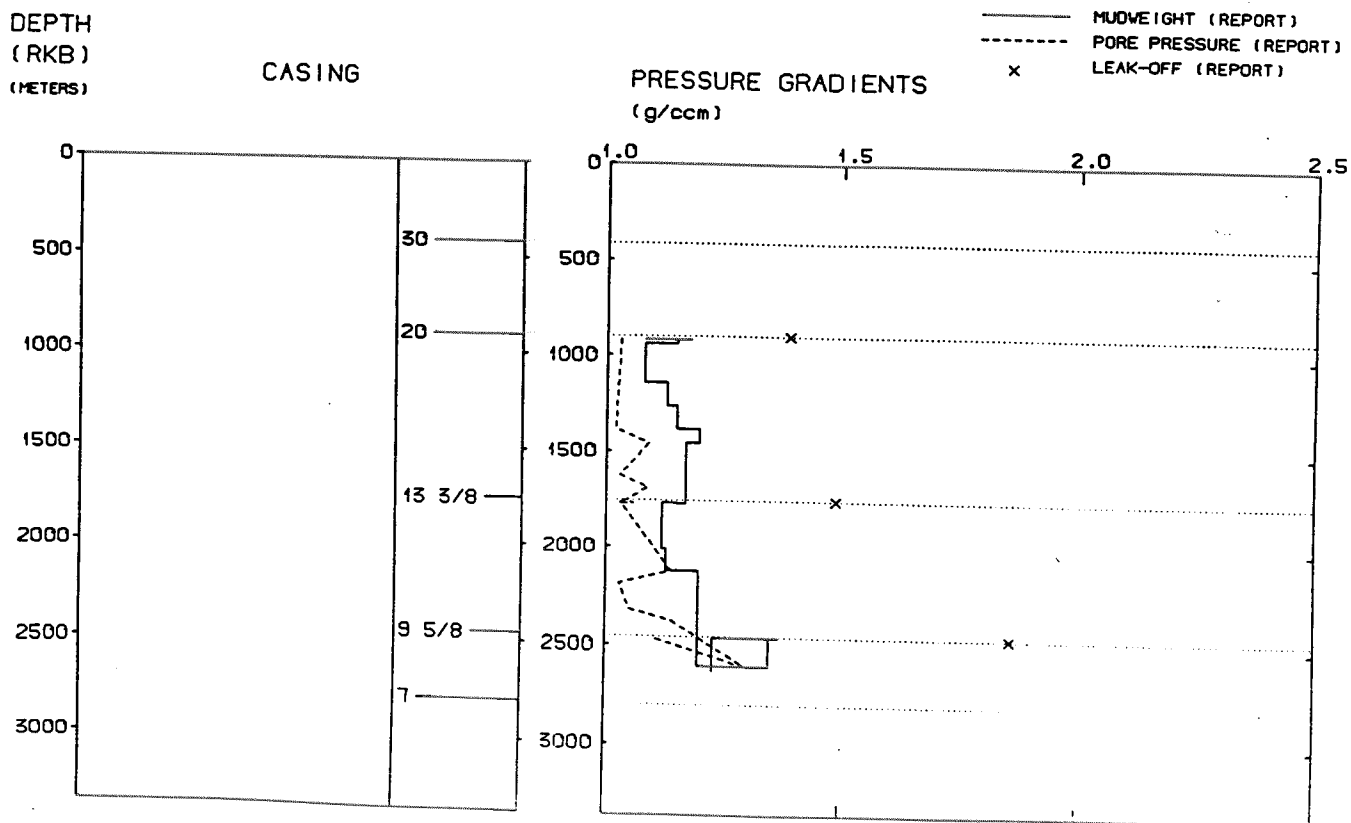
Sub operations	Min	Hrs	% of total
OTHER	600	10.00	12.82
MAINTAIN/REP	1170	19.50	25.00
WAIT	2280	38.00	48.72
WELL CONTROL	120	2.00	2.56
LOST CIRC	510	8.50	10.90
<b>TOTAL</b>	<b>4680</b>	<b>78.00</b>	

MAIN OPERATION: PLUG & ABANDON

Sub operations	Min	Hrs	% of total
TRIP	3120	52.00	40.47
CIRC/COND	330	5.50	4.28
MECHANICAL PLUG	570	9.50	7.39
SQUEEZE	360	6.00	4.67
CEMENT PLUG	240	4.00	3.11
PERFORATE	420	7.00	5.45
CUT	600	10.00	7.78
EQUIP RECOVERY	1860	31.00	24.12
OTHER	210	3.50	2.72
<b>TOTAL</b>	<b>7710</b>	<b>128.50</b>	



### WELL: 712104 02      PRESSURE COMPOSITE PLOT



## Well History 7121/ 4-2.

### General:

The wildcat well 7121/4-2 was drilled North of the Snøhvit Field on a separate structure, the Beta-structure, in the Hammerfest Basin. The main objective of the well was to test possible hydrocarbon accumulations in Middle- to Lower Jurassic sandstones. Prognosed T.D. at 2800 m. in rocks of Triassic age.

### Operations:

Wildcat well 7121/4-2 was spudded by Smedvigs semi-submersible rig West Vanguard at a water depth of 317 m, and completed 14 April 1985 at 2800 m. Drilling proceeded without any significant problems to depth of 2460 m, in the middle of an Oxfordian shale, where cavings through Jurassic deposits caused some tight spot problems while setting casing. Rough weather caused some delay in the drilling schedule.

Reservoir top was encountered at 2480 m RKB, and interpretations from logs indicated an oilzone of 37 m. RFT tests displayed a similar column of gas. Gas/water contact at 2517 m RKB.

An additional small gaszone was encountered at 2701.5- to 2705 m RKB. The Triassic Sst of Rhaetian age was encountered at 2737- to 2800 m RKB. Basement is not seen.

7 m cores were cut in the interval between 2463- and 2597.5 m RKB.

### Testing:

One drillstem test was performed. The interval 2484- to 2493 m RKB were perforated and production tested.



# GEOLOGICAL TOPS

WELL: 7121-4-2

	<i>Depth m (RKB)</i>
<i>Nordland Group</i>	339
<i>Sotbakken Group</i>	418
<i>Torsk Fm.</i>	418
<i>Ny-Grunnen Group</i>	1068
<i>Kvitting Fm.</i>	1068
<i>Kveite Fm.</i>	1110
<i>Nordvest-Banken Group</i>	1112
<i>Kolmule Fm.</i>	1112
<i>Kolje Fm.</i>	1885
<i>Knurr Fm.</i>	2226
<i>Teisten-Grunnen Group</i>	2338
<i>Hekkingen Fm.</i>	2338
<i>Fuglen Fm.</i>	2450
<i>Realgrunnen Group</i>	2480
<i>Stø Fm.</i>	2480
<i>Nordmela Fm.</i>	2558
<i>Tubåen Fm.</i>	2641
<i>Fruholmen Fm.</i>	2737
<i>T.D.</i>	2800

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