

Well no : 34/10-22

Operator : STATOIL

Coordinates : 61 10 33.50 N  
02 11 14.65 EUTM coord. : 6782820 N  
UTM zone 31 456291 E

Licence no : 050

Permit no : 440

Rig : DYVI DELTA

Rig type : SEMI-SUB.

Contractor : DYVI OFFSHORE A/S

Bottom hole temperature : 24 deg.C

Elev. KB : 29 M

Spud date : 84.10.25

Water depth : 135 M

Compl. date : 84.11.05

Total depth : 579 M

Spud class. : APPRAISAL

Age at TD : TERTIARY

Compl. class. : P&amp;A. GAS DISCOVERY

Seis. loc. : 8199407 SP. 102

## LICENSEES

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9.000 NORSK HYDRO PRODUKSJON A.S  
6.000 SAGA PETROLEUM A.S.  
85.000 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 <sup>3</sup>
INTERM.	13 3/8	237.0	17 1/2	241.0	
OPEN HOLE			8 1/2	579.0	

## CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	419.0 - 427.5	0.6	7.5	PLIOCENE
2	427.5 - 428.0	0.1	20.0	PLIOCENE
3	428.0 - 437.0	4.2	47.0	PLIOCENE
4	437.0 - 443.5	0.0	0.0	PLIOCENE
5	443.5 - 447.3	0.5	13.7	PLIOCENE
6	447.3 - 457.0	0.5	13.7	PLIOCENE
7	457.0 - 466.5	1.6	16.8	PLIOCENE
8	466.4 - 474.0	7.5	99.9	PLIOCENE

## MUD PROPERTIES

Depth below KB meter	Mud weight g/cm <sup>3</sup>	Plastic viscosity mPa.s	Mud type
360.0	1.10	8.0	WATER BASED

## DRILL STEM TEST

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 NO DST'S WERE PERFORMED IN THIS WELL  
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## DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
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CUTTINGS		
WET SAMPLES	240 - 580	40
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## SHALLOW GAS

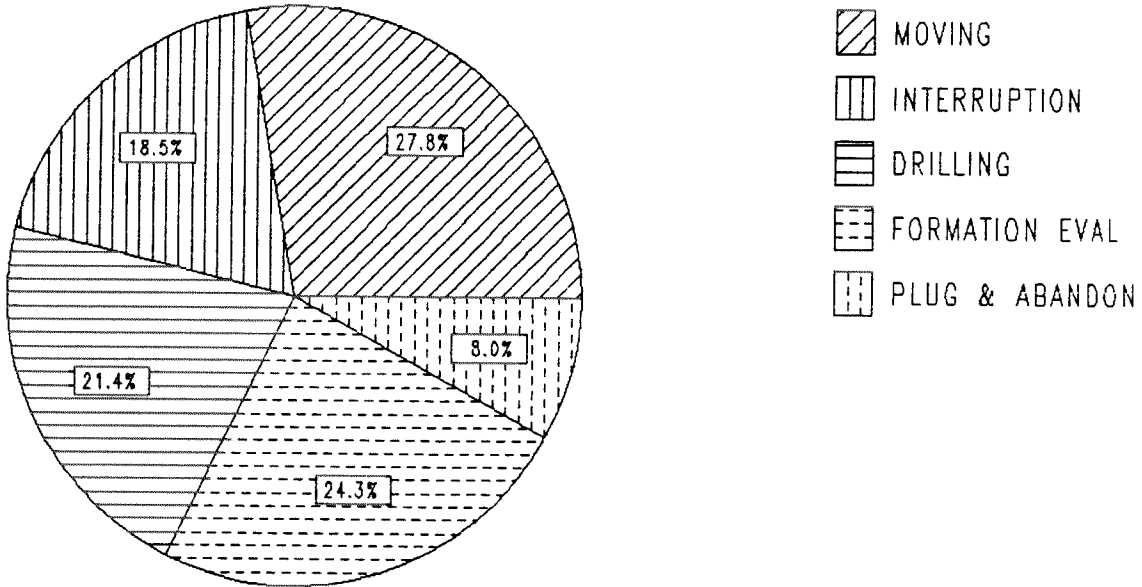
INTERVAL BELOW KB	REMARKS
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339-344 M 422-425 M	50% GAS READINGS ON MUDLOG

## AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
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ISF LSS MSFL GR	237 - 576	X	X
LDL CNL	237 - 578	X	X
DLL MSFL	237 - 577	X	X
CDM AP	240 - 577	X	X
SHDT	237 - 578	X	
MUD	245 - 579		X
VELOCITY	237 - 576		X
(+ Synthetic Seismogram, Geogram, 10 + 30 cm/s,		8 stk)	
(+ Synthetic Seismogram, Geogram, 10 + 30 cm/s,		4 stk)	
Frequency Test,		9 stk)	
(+ VSP, Plot 1-3,			

## DAILY DRILLING REPORT SYSTEM

Main operation: 34/10-22



Total : 336.00 HRS

Main operation	Minutes	Hours	% of total
MOVING	5610	93.50	27.8
INTERRUPTION	3720	62.00	18.4
DRILLING	4320	72.00	21.4
FORMATION EVAL	4890	81.50	24.2
PLUG & ABANDON	1620	27.00	8.0

## MAIN OPERATION: MOVING

Sub operations	Min	% of total
ANCHOR	4380	78.07
SKID	120	2.14
JACK	360	6.42
TRANSIT	750	13.37
TOTAL	5610	100.00

## MAIN OPERATION: INTERRUPTION

Sub operations	Min	% of total
WAIT	1950	52.42
OTHER	1770	47.58
TOTAL	3720	100.00

## MAIN OPERATION: DRILLING

Sub operations	Min	% of total
TRIP	600	13.89
DRILL	1350	31.25
CIRC/COND	390	9.03
CASING	1560	36.11
BOP/WELLHEAD EQ	420	9.72
TOTAL	4320	100.00

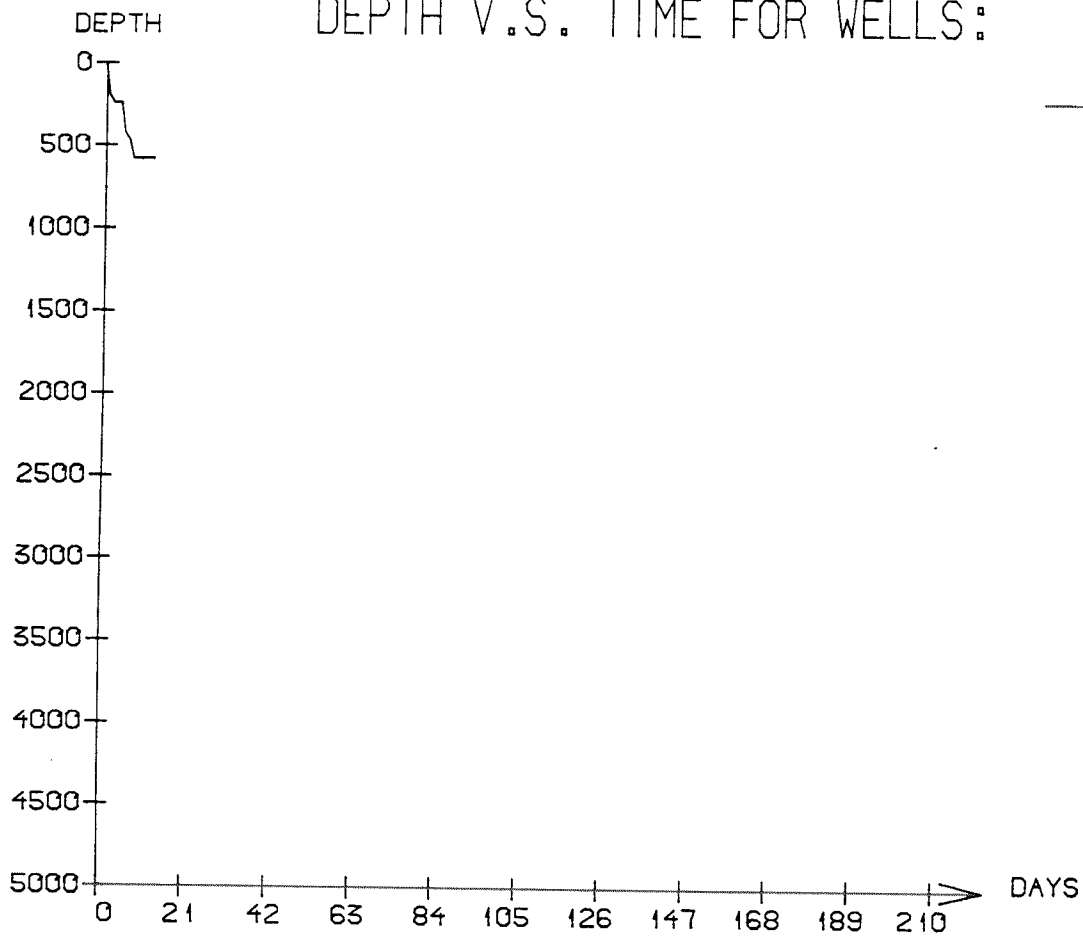
## MAIN OPERATION: FORMATION EVAL

Sub operations	Min	% of total
LOG	2790	57.06
TRIP	1110	22.70
CORE	930	19.02
CIRC/COND	60	1.23
TOTAL	4890	100.00

## MAIN OPERATION: PLUG &amp; ABANDON

Sub operations	Min	% of total
CEMENT PLUG	570	35.19
CIRC/COND	60	3.70
TRIP	420	25.93
OTHER	90	5.56
MECHANICAL PLUG	120	7.41
CUT	150	9.26
EQUIP RECOVERY	210	12.96
TOTAL	1620	100.00

# DEPTH V.S. TIME FOR WELLS:



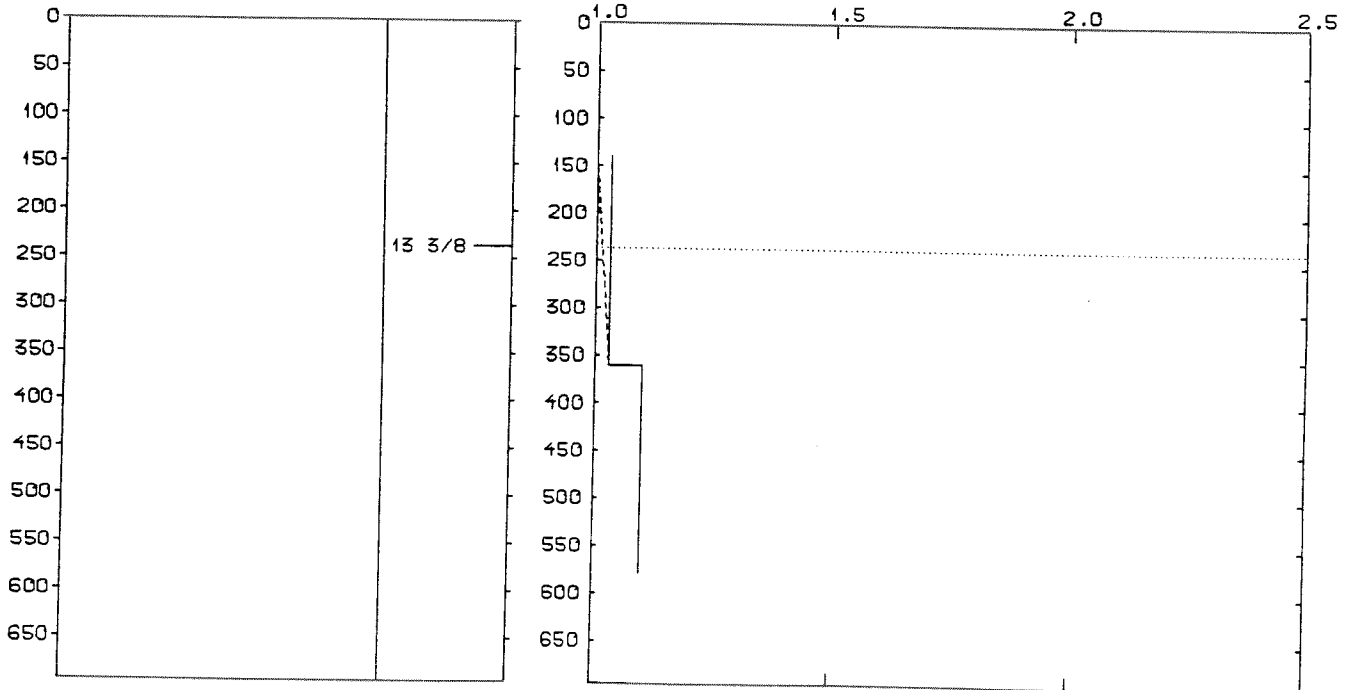
## WELL: 003410 22 PRESSURE COMPOSITE PLOT

DEPTH  
(RKB)  
(METERS)

CASING

PRESSURE GRADIENTS  
(g/ccm)

— MUDWEIGHT (REPORT)  
- - - PORE PRESSURE (REPORT)



## WELL HISTORY - 34/10-22

### GENERAL:

The main objective of the appraisal well 34/10-22 was to test for possible shallow gas around the planned position of the Gullfaks A platform. The well encountered four sandlayers, two of them were gas bearing.

### OPERATIONS:

The well was spudded 25.10.84 by the semi-submersible rig Dyvi Delta. Eighth cores were cut, four of them were successfully recovered. No major problems occurred due to drilling. The well was drilled using water based mud.

### TESTING:

The well was not tested.

GEOLOGICAL TOPS

WELL: 34/10-22

*Depth m (RKB)*

*Nordland Group*

*164.000*

*TD =*

*579.000*