Well no:

30/9-11 A

Operator:

HYDRO

Coordinates:

60° 19' 27.89" N

02° 55' 44.00" E

UTM coord.: 668770050 N 49607229 E

Licence no:

VILDKAT EXPLORER

Rig: Contractor:

TRANSNOR RIG AS

Bottom hole temp: Spud. date: Compl. date:

0°C 90.11.20 90.12.29 APPRAISAL

Spud. class: Compl. class:

P&A. DRY HOLE

Seisloca:

NH 8502-187 CDP-LINJE 1508 -

COL 745

Permit no: 658 Rig type: SEMI-SUB.

Elev. KB: Water depth: 108 M

25 M Total depth: 3002 M Form. at TD E.JURASIC

Prod.form.:

LICENSEES

5,000000

CONOCO PETROLEUM NORGE A/S

5,000000

DNO OLJE A/S

30,000000

NORSK HYDRO PRODUKSJON A.S

5,000000

SAGA PETROLEUM A.S.

50,000000

DEN NORSKE STATS OLJESELSKAP A.S

5,000000

NORSK AGIP A/S

CASING AND LEAK-OFF TESTS

Туре	Casing diam.	Depth below KB	Hole diam.	Hole depth below KB	Lot mud cqv. g/cm3
CONDUCTOR	30	243,0	36	245,0	
INTERM.	13 3/8	906,0	17 1/2	922,0	
INTERM.	9 5/8	2394,0	12 1/4	2425,0	1,63
LINER	7		8 1/2	3002,0	•

CONVENTIONAL CORES

Core no.	Intervals cored			Recovery		
	meters			M	%	
1	2545,0	-	2553,0	8,0	100	REMINISTRATION CONTRACTOR CONTRAC
2	2553,0	-	2575,0	22,0	100	
3	2576,0	-	2578,0	2,0	100	
0	2652,0	_	2660.0	80	100	

MUD

Depth	Mud weight	Visc.	Mud type
170,000	1,27		WATER BASED
1037,000	1,42	20,0	WATER BASED
1341,000	1,43	21,0	WATER BASED
1705,000	1,46	22,0	WATER BASED

Depth	Mud	Visc.	Mud type
	weight		
2070,000	1,46	19,0	WATER BASED
2379,000	1,48	23,0	WATER BASED
2419,000	1,47	18,0	WATER BASED
2419,000	1,48	24,0	WATER BASED
2422,000	1,47	19,0	WATER BASED
2422,000	1,44	18,0	WATER BASED
2425,000	1,47	21,0	WATER BASED
3002,000	1,27	11,0	WATER BASED
3002,000	1,33	15,0	WATER BASED
3002,000	1,27	11,0	WATER BASED
3002,000	1,33	15,0	WATER BASED
3002,000	1,27	10,0	WATER BASED
3002,000	1,33	15,0	WATER BASED
3002,000	1,27	14,0	WATER BASED

DRILL BIT CUTTINGS AND WET SAMPLES

Sample type	Interval	Number of	
	below KB	samples	
WET SAMPLES	930 - 3002	210	
CUTTINGS	930 - 3002	330	

SHALLOW GAS

Interval
below KB

Remarks

AVAILABLE LOGS

Log type	Intervals		1/200	1/500	Div.
AMS	905,0	- 2387,0			
AMS	2393,0	- 2985,0			
CDM AP	2395,0	- 2827,0			
DIL LSS GR SP	2393,0	- 2873,0			
DIL LSS SP GR	905,0	- 2407,0			
DIL LSS SP GR	9 05,0	- 2872,0			
DLL GR	2525,0	- 2700,0			
DLL MSFL GR SP	2393,0	- 3000,0			
DLL MSFL SP GR	2993,0	- 3000,0			
DRILLING DATA PRESS.	910,0	- 3002,0			10000
FMS GR	2393,0	- 2828,0			
LDL CNL GR	905,0	- 2406,0			
LDL CNL SGR	2393,0	- 2873,0			

Log type	Intervals		1/200 1/500 Div.	
LDL CNNL GR	905,0	- 2873,0		
MWD MD+TVD	134,0	- 3002,0		
NGS	2393,0	- 2873,0		
PRESSURE SUMMARY	910,0	- 3002,0		10000
RFT HP GR	2552,0	- 2661,0		
SYNTHETIC SEISMOGRAM				
TEMPERATURE DATA	910,0	- 3002,0		5000
VSP				

Main operations for well: 30/9-11 A

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	840	14,0	3,07
BOP/WELLHEAD EQ	210	3,5	0,77
CASING	3120	52,0	11,39
CIRC/COND	480	8,0	1,75
DRILL	12660	211,0	46,22
REAM	270	4,5	0,99
SURVEY	480	8,0	1,75
TRIP	8610	143,5	31,43
WAIT	720	12,0	2,63
Total	27390	456,5	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	180	3,0	1,75
CIRC/COND	570	9,5	5,56
CORE	1260	21,0	12,28
LOG	5520	92,0	53,80
OTHER	30	0,5	0,29
TRIP	2700	45,0	26,32
Total	10260	171,0	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	2250	37,5	14,85
MAINTAIN/REP	2520	42,0	16,63
OTHER	600	10,0	3,96
WAIT	9780	163,0	64,55
Total	15150	252,5	100,00

Main operation: MOVING

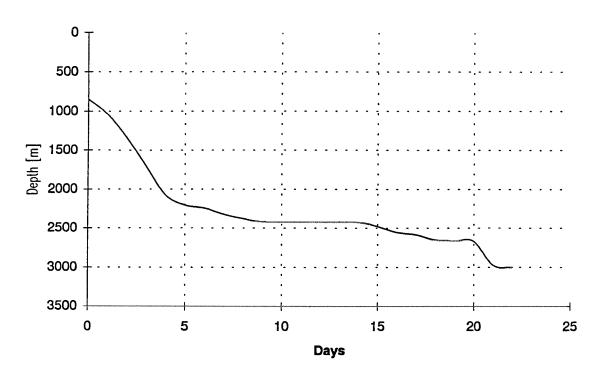
Sub operation:	Minutes:	Hours:	% of total:
TRANSIT	1230	20,5	100,00
Total	1230	20.5	100.00

Main operation: PLUG & ABANDON

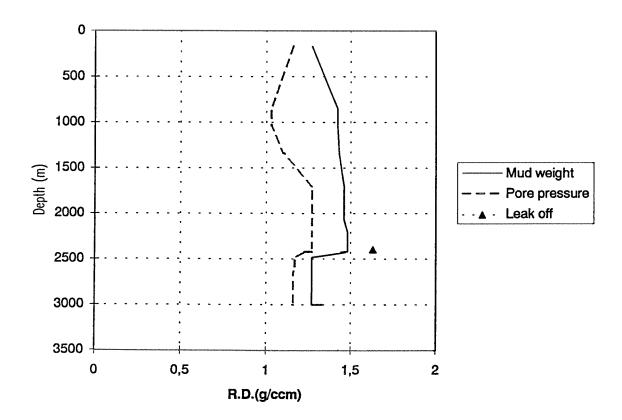
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	90	1,5	1,78
CIRC/COND	120	2,0	2,37
CUT	1110	18,5	21,89
EQUIP RECOVERY	1950	32,5	38,46
MECHANICAL PLUG	210	3,5	4,14
OTHER	870	14,5	17,16
TRIP	720	12,0	14,20
Total	5070	84,5	100,00

Total time used: 985,0 Hours

Depth vs time for well: 30/9-11 A



Composite plot for well: 30/9-11 A



Well History 30/9-11 A.

General:

Well 30/9-11 A was designed as a sidetrack of well 30/9-11 on the J-East structure with kickoff at 920 m RKB. The target location was chosen to penetrate the top of the Brent Group in a downflank position where the Brent reservoir was expected to be least eroded, and to confirm as deep oil filling of the J-Central compartment as possible. The sidetrack results would give the opportunity for a quick assessment of the overall remaining resource potential of the J-Area. The main objectives of the well were to:

verify the seismic mapping of the J-Central area. verify the Brent reservoir model for the area. verify communication and pressure relationship with the J-West compartment. penetrate the Cook formation to verify structural mapping and hydrocarbon potential. early assessment of resource potential.

The chosen location also gave the best resolution and seismic tie for the Brent interval.

Operations:

Appraisal well 30/9-11 A was spudded 20 November 1990 by the semi-submersible rig Vildkat Explorer, and completed 29 Desember 1990 at a depth of 3002 m RKB in rocks of Early Jurassic age. A total of four cores were cut in the well whereof cores 1 to 3 was cut in the interval 2545 to 2582 m RKB and core no 4 from 2652 to 2660 m RKB. 30 sidewall cores were attemted in one run, and resulted in a 100% recovery. The Brent Group was found water bearing, and came in 61 m deeper than prognosed. Statfjord formation came in at 2973 m RKB. Apart from some thigth hole experiences, drilling went without any significant problems to TD. The well was permanently plugged and abandoned as a dry hole, with negligible shows.

Testing:

No DST tests were performed in this well.

Geological Tops.

Well:30/9-11 A

		Depth m (RKB).
Nordland Group		
Hordaland Group	Kickoff point.	910,0
Rogaland Group		2092,0
Balder Fm		2092,0
Sele Fm		2113,0
Lista Fm		2195,0
Våle Fm		2360,0
Shetland Group		2365,0
Cromer Knoll Group		2498,0
Viking Group		2513,0
Heather Fm		2513,0
Brent Group		2551,0
Tarbert Fm		2551,0
Ness Fm		2553,0
Etive/Rannoch		2667,0
Oseberg Fm		2679,0
Dunlin Group		2680,0
Drake Fm		0(00.0
Burton Fm		2680,0
Amundsen Fm		2836,0
Statfjord Fm		2874,0
Statijoi u Fill		2973,0
T. D.		2005 -
T.D.		3002,0