well no: 29/9-01 operator: HYDRO

Licence no : 040 Permit no : 390

Rig : TREASURE SEEKER Rig type : SEMI-SUB.

Contractor : WILHELMSEN OFFSHORE SERVICES

Bottom hole temperature : 153 deg.C Elev. KB : 25 M

Spud date : 83.09.23 Water depth : 104 M

Compl. date : 84.02.24 Total depth : 4703 M

Spud class. : WILDCAT Age at TD : JURASSIC

Compl. class. : P&A. GAS DISCOVERY

Seis. loc. : CDP 239276 (NH 8101)

LICENSEES

28.800 ELF AQUITAINE NORGE A/S

6.800 NORSK HYDRO PRODUKSJON A.S

50.000 DEN NORSKE STATS OLJESELSKAP A.S

14.400 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/cm3
CONDUCTOR	<i>30</i>	213.5	36	215.0	
SURF.COND.	20	1040.5	26	1057.0	1.54
INTERM.	13 3/8	2724.0	17 1/2	2751.0	1.91
INTERM.	9 5/8	3927.0	12 1/4	3950.0	2.19
LINER	7	4546.0	8 3/8	4703.0	

CONVENTIONAL CORES

Core no.	ore no. Intervals cored		very	Series	
	meters	М	%		
1	4386.0 - 4404.0	17.7	98.3	MIDDLE JURASSIC	
2	4404.0 - 4418.0	13.4	95.7	MIDDLE JURASSIC	
3	4418.0 - 4436.0	18.0	100.0	MIDDLE JURASSIC	

MUD PROPERTIES

Depth below KB meter	Mud weigth g/cm3	Funnel viscosity s/qt	Mud type
250.0	1.06	48.0	WATER BASED
450.0	1.10	48.0	WATER BASED
565.0	1.04	30.0	WATER BASED
905.0	1.06	32.0	WATER BASED
1050.0	1.11	47.0	WATER BASED
1250.0	1.12	<i>53.0</i>	WATER BASED
1550.0	1.13	50.0	WATER BASED
1750.0	1.14	47.0	WATER BASED
1920.0	1.20	49.0	WATER BASED
2000.0	1.25	49.0	WATER BASED
2120.0	1.26	46.0	WATER BASED
2220.0	1.32	45.0	WATER BASED
2250.0	1.38	52.0	WATER BASED
2300.0	1.39	52.0	WATER BASED
2400.0	1.38	52.0	WATER BASED
2750.0	1.42	56.0	WATER BASED
3700.0	1.50	45. 0	WATER BASED
3810.0	1.53	46.0	WATER BASED
3860.0	1.80	52.0	WATER BASED
3950.0	1.97	47.0	WATER BASED
4050.0	1.98	30.0	WATER BASED
4150.0	2.02	26.0	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test	Interval	Choke		Pressure	(PSI)
no.	meter	size	FSIP	BHP	WHP
1 0	4405 0 - 4394 0	12.7		 1280.0	120.0

RECOVERY

Test	Oil Sm3/d	Gas M Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
					-
10		10		0.774	

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
CUTTINGS	220 - 4703	1400
WET SAMPLES	220 - 4703	960

SHALLOW GAS

INTERVAL BELOW KB REMARKS

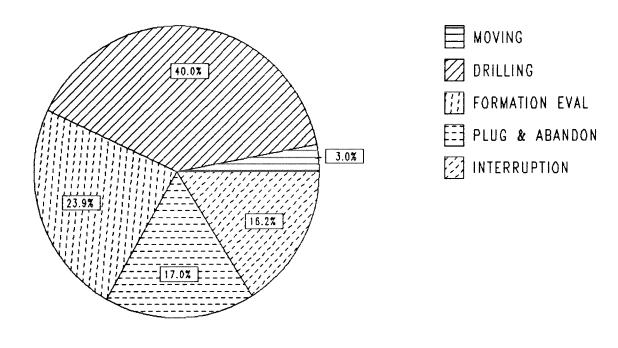
NONE

AVAILABLE LOGS

LOG TYPE	INTERVAL .	1/200	1/500
ISF LSS MSFL	1039 - 2752	X V	
ISF LSS	2721 - 2052	X	
ISF BHC	3929 - 4556	A V	
ISF LSS	3929 - 4703	v v	
ISF LSS GR (GR:115-213M) ISF LSS MSFL ISF LSS ISF BHC ISF LSS ISF LSS ISF LSS	213 - 4703	A	X
LDL CNL LDL CNL LDL CNL LDL CNL LDL CNL LDL CNL	1039 - 2752	X	
LDL CNL	2720 ~ 3955	X	
LDL CNL	<i>3927 - 4557</i>	X	
LDL CNL	4450 - 4703	X	
LDL CNL PLAYBACK	1039 - 4703		X
DLL MSFL	4200 - 4554	X	
DLL MSFL	4358 - 4704	X	X
CDM			
CDM	1760 - 2749	X	
SHDT	2720 - 3955 3927 - 4557	X	
SHDT	3927 - 4557	X	
	4525 - 4701	X	
	1748 - 2744	X	X
SHDT AP	2723 - 3955	X	X
	3850 - 4600	X	X
SHDT AP	4350 - 4700	X	X
MWD	1950 - 4220		X
CBL VDL	1857 - 2717	Y	
CBL VDL	2715 - 3925	X	
WIND IN THE STATE OF THE STATE			
DELLING DATA	134 - 4703	1:2000	
DRILLING DATA PRESSURE	134 - 4703	1:2000	
TEMPERATURE DATA DRILLING DATA PRESSURE DXC NXB	134 - 4703	1:2000	
MUD (FORMATION EVALUATION)	215 - 4703		x
VELOCITY (L.T.S.)	213 - 4703	1:1000	X
(+ Airgun Well Velocity Survey	% C.L.D.	1 st)	k)
(+ VSP, 10 cm/s, proc:Apr-84.		11 st)	
(+ T.W.T.T, 10 cm/s, 250-4700m	1,	1 st	
(+ Listing of two way time in	sec., velocities	- J()	> /
in m/sec, reflection coeffi	cients, m.m.	1 st	c)

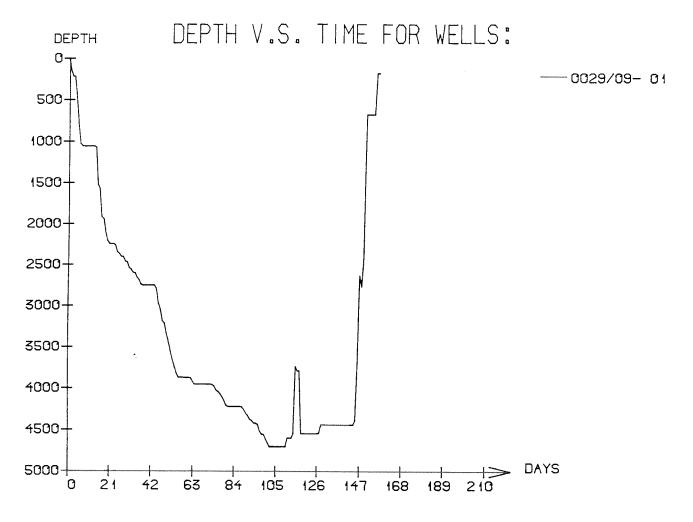
DAILY DRILLING REPORT SYSTEM

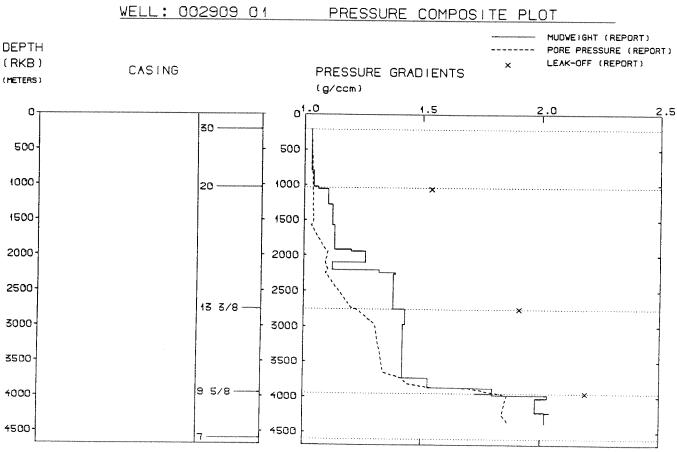
Main operation: 29/09-01



Total : 3825,75 HRS

Main operation	Hours	% of total	
MOVING DRILLING FORMATION EVAL PLUG & ABANDON INTERRUPTION	115,00 1530,00 913,00 649,50 618,25	3,01 39,99 23,86 16,98 16,16	





WELL HISTORY - 29/9-1

GENERAL:

The main objectives of the wildcat 29/9-1 were to obtain information about the presence of hydrocarbons and stratigraphy and reservoir parameters of the Middle and Lower Jurassic sequence. The well encountered hydrocarbons in the Middle Jurassic Brent Group and in the upper part of the Tertiary Frigg Formation.

OPERATIONS:

The well was spudded 23.09.83 by the semi-submersible rig Treasure Seeker. Three cores were cut in the Middle Jurassic sequence. During drilling of the 17 1/2" hole, tight hole problems were experienced. The 9 5/8" casing had to be run twice due to problems with the casing hanger seal. Due to high temperature and lack of circulation the mud in the 7" liner gelled up and had to be replaced several times. This caused difficulties operating the testing tool. The well was drilled using water based mud.

TESTING:

One DST was performed in the Brent Group. There were some problems operating the down hole testing tool due to gelling mud in the liner. Small amounts of gas were produced.

GEOLOGICAL TOPS

WELL: 29/ 9-01

	Depth m	(RKB)
Nordland Group	128	.000
Hordaland Group	935	.000
Frigg Fm	1782	.000
Rogaland Group	1981	.000
Balder/Sele Fm	1981	.000
Lista Fm	2015	.000
Heimdal Fm	2074	.000
Våle Fm	2310	.000
Shetland Group	2355	.000
Ekofisk Fm	2355	.000
Jorsalfare Fm	2398	.000
Kyrre Fm	2633	.000
Tryggvason Fm	3604	.000
Blodøks Fm	3770	.000
Svarte Fm	3785	.000
Cromer Knoll Group	3906	.000
Viking Group	3980	.000
Draupne Fm	3980	.000
Heather Fm	4049	.000
Brent Group	4386	.500
Ness Fm	4386	.500
Etive Fm	4393	.500
Rannoch Fm	4405	.500
Broom Fm	4415	.000
Dunlin Group	4421	.000
Drake Fm	4421	.000
Cook Fm	4487	.000
Burton Fm	4530	.000
Amundsen Fm	4562	.000
Statfjord Fm	4640	.000
Nansen Member	4640	.000
Eiriksson Member	4685	.000
TD =	4703	.000