

Well no : 7122/06-01

Operator : TOTAL

Coordinates : 71 38 19.32 N UTM coord. : 7949804 N
22 48 42.80 E 563698 E

Licence no : 138 Permit no : 559

Rig : POLAR PIONEER Rig type : SEMI-SUB.

Contractor : POLAR FRONTIER DRILLING A/S

Bottom hole temperature : deg.C Elev. KB : 23 M

Spud. date : 87.09.06 Water depth : 401 M

Compl. date : 87.11.11 Total depth : 2710 M

Spud. class : WILDCAT Form. at TD : TRIASSIC

Compl. class : P&A. GAS/COND. DISC. Prod. form : L.TRIASSIC

Seisloca : FWGS 84-314 SP.1658/TO 8514-04 SP.293.2

LICENSEES

5.000000 AMERADA HESS NORGE A/S
 10.000000 NORSK HYDRO PRODUKSJON A.S
 15.000000 A/S NORSKE SHELL
 50.000000 DEN NORSKE STATS OLJESELSKAP A.S
 20.000000 TOTAL NORGE 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	30	485.0	36	489.0	1.03
SURF.COND.	20	783.0	26	928.0	1.47
INTERM.	13 3/8	1860.0	17 1/2	1875.0	.

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	2019.0 - 2039.0	20.0	100.0	
2	2039.0 - 2064.5	25.0	98.0	
3	2064.0 - 2086.8	22.8	100.0	
4	2087.0 - 2099.0	12.0	100.0	

MUD PROPERTIES

Depth below KB meter	Mud weight g/cm3	Viscosity	Mud type
798.000	1.03	0.0	WATER BASED
1279.000	1.12	8.6	WATER BASED
1639.000	1.13	21.0	WATER BASED
1761.000	1.14	21.0	WATER BASED
1875.000	1.28	21.0	WATER BASED
1891.000	1.20	23.0	WATER BASED
2019.000	1.25	23.0	WATER BASED
2064.000	1.30	26.0	WATER BASED

2417.000	1.31	25.0	WATER BASED
2437.000	1.20	13.0	WATER BASED
2469.000	1.00	13.0	WATER BASED
2471.000	1.20	19.0	WATER BASED
2500.000	1.31	25.0	WATER BASED
2514.000	1.32	21.0	WATER BASED
2710.000	1.30	14.0	WATER BASED
2710.000	1.20	16.0	WATER BASED
2710.000	1.30	18.0	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no	interval meter	Choke size	Pressure (PSI)		
			WHP	BTHP	FFP
1.0	2439.500 - 2449.000	25.4	2488.6	2670.2	2098.0
	Test temperature: 69.9 °C				
2.0	2434.000 - 2424.000	17.5	1867.6	3740.1	3190.6
	Test temperature: 79.8 °C				

RECOVERY

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
1.0	NO FLOW REACHED THE SURFACE				
2.0	66	567850	0.755	0.680	8608

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	800-2710	300
Wet Samples	800-2710	360

SHALLOW GAS

Interval below KB REMARKS

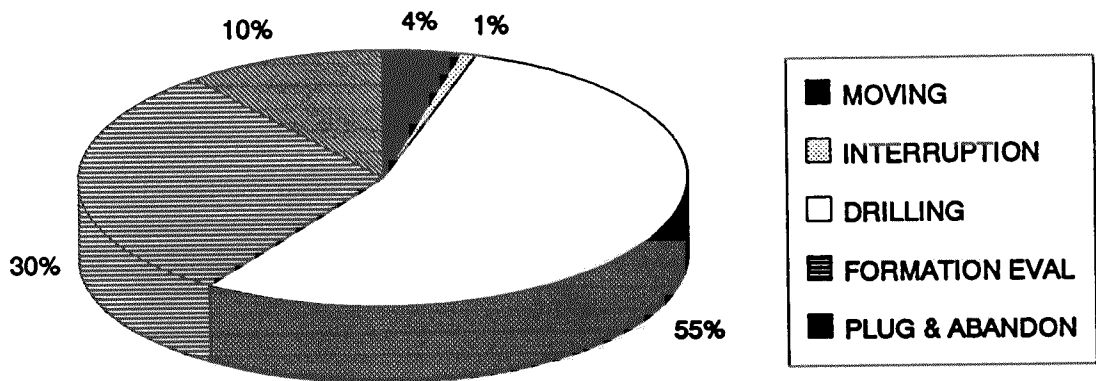
AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500	Div.
DIS LSS GR	485.000 - 794.000	X	X	
DIS LSS	781.000 - 1841.000	X	X	
DITE GR	1860.000 - 2269.000	X	X	
DITE BHC SGR	1860.000 - 2497.000	X	X	
DITE DIS LSS BHC NGS	2450.000 - 2703.000	X	X	
LDL	485.000 - 773.000	X	X	
LDL	781.000 - 1823.000	X	X	
LDL CNL GR	1860.000 - 2253.000	X	X	
LDL CNL SGR	1860.000 - 2481.000	X	X	

LDL CNL SGR	2450.000 - 2696.000	X	X
DLL BHC MSFL GR	1860.000 - 2702.000	X	X
SHDT	781.000 - 1845.000	X	
SHDT GR	1860.000 - 2490.000	X	
SHDT	2475.000 - 2705.000	X	
CDM AP/SHDT MSD	785.000 - 1845.000	X	X
CDM AP/SHDT MSD	1865.000 - 2499.000	X	X
DUAL CALI	781.000 - 1845.000	X	
SHDT CALI	1860.000 - 2490.000		X
DUAL CALI	1860.000 - 2702.000		X
RFT HP GAUGE	2012.000 - 2231.000		
RFT HP GAUGE	2186.000 - 2448.000		
RFT HP GAUGE	2186.000 - 2488.000		
RFT HP GAUGE	2433.000 - 2655.000		
RFT STRAIN GAUGE	2012.000 - 2231.000		
RFT STRAIN GAUGE	2186.000 - 2448.000		
RFT STRAIN GAUGE	2186.000 - 2655.000		
RFT GR	2433.000 - 2655.000		
NGS	1860.000 - 2472.000	X	X
NGS	2450.000 - 2686.000	X	X
CBL VDL GR	600.000 - 1853.000	X	
MUD	800.000 - 2655.000		X
VELOCITY	490.000 - 2700.000		X
(VSP, rigshot, plot 1-8			8 stk.)
(VSP, 3D utsnitt power spectrum in db.			1 stk.)
(VSP, run 4A, 700-2497 m			1 stk.)
(Geogram, synthetic seismogram, 10 cm/s			4 stk.)
(Frequency test, 10cm/s			4 stk.)

DAILY DRILLING REPORT SYSTEM

MAIN OPERATIONS FOR WELL: 7122/06-01



Main operation	Minutes	Hrs	% of total
MOVING	4440	74,0	4,40
INTERRUPTION	750	12,5	0,74
DRILLING	55020	917,0	54,58
FORMATION EVAL	30120	502,0	29,88
PLUG & ABANDON	10470	174,5	10,39
<i>Total</i>	100800	1680,0	100,00

SUB OPERATIONS FOR WELL: 7122/06-01

MAIN OPERATION: MOVING

Sub operation	Minutes	Hrs	% of total
TRANSIT	1255	20,9	28,27
ANCHOR	3185	53,1	71,73
<i>Total</i>	4440	74,0	100,00

MAIN OPERATION: INTERRUPTION

Sub operation	Minutes	Hrs	% of total
MAINTAIN/REP	450	7,5	60,00
FISH	300	5,0	40,00
<i>Total</i>	750	12,5	100,00

MAIN OPERATION: DRILLING

Sub operation	Minutes	Hrs	% of total
BOP/WELLHEAD EQ	4230	70,5	7,69
TRIP	7620	127,0	13,85
DRILL	29070	484,5	52,84
CIRC/COND	2120	35,3	3,85
CASING	7660	127,7	13,92
HOLE OPEN	1680	28,0	3,05
BOP ACTIVITIES	1900	31,7	3,45
REAM	610	10,2	1,11
SURVEY	100	1,7	0,18
PRESS DETECTION	30	0,5	0,05
<i>Total</i>	55020	917,0	100,00

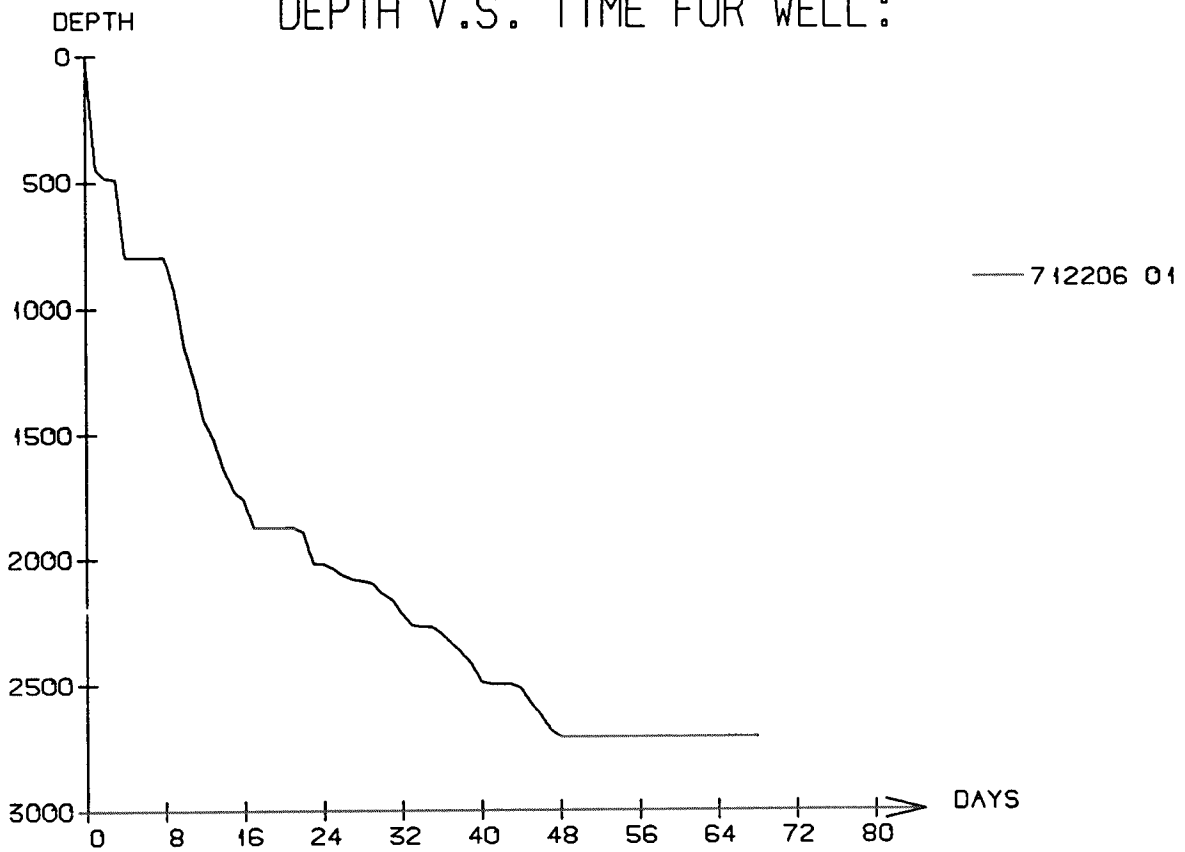
MAIN OPERATION: FORMATION EVAL

Sub operation	Minutes	Hrs	% of total
LOG	8500	141,7	28,22
CIRC SAMPLES	1490	24,8	4,95
TRIP	4390	73,2	14,58
CIRC/COND	590	9,8	1,96
CORE	4350	72,5	14,44
OTHER	1080	18,0	3,59
RFT/FIT	2820	47,0	9,36
PROD TEST	930	15,5	3,09
DST	5970	99,5	19,82
<i>Total</i>	30120	502,0	100,00

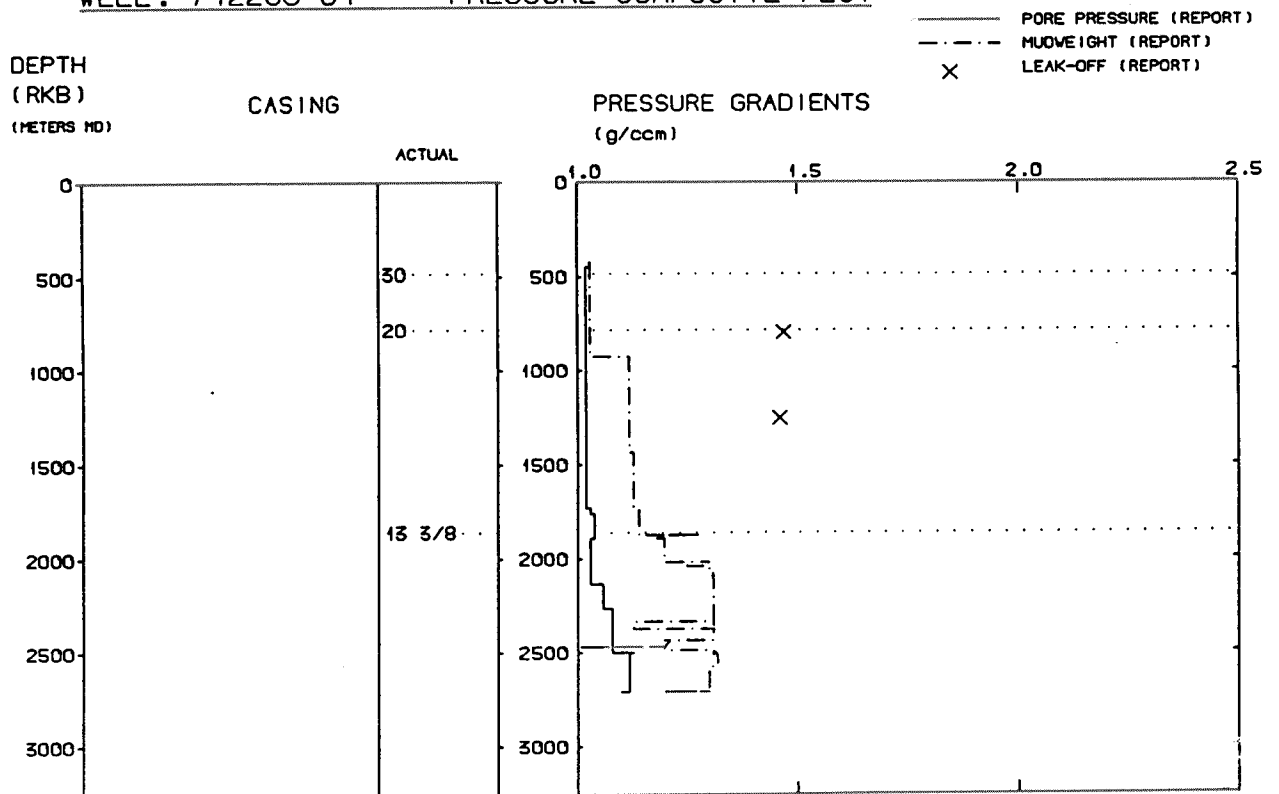
MAIN OPERATION: PLUG & ABANDON

Sub operation	Minutes	Hrs	% of total
TRIP	3020	50,3	28,84
CIRC/COND	930	15,5	8,88
CEMENT PLUG	1380	23,0	13,18
MECHANICAL PLUG	300	5,0	2,87
PERFORATE	240	4,0	2,29
OTHER	220	3,7	2,10
SQUEEZE	60	1,0	0,57
WAIT	300	5,0	2,87
CUT	1650	27,5	15,76
EQUIP RECOVERY	2370	39,5	22,64
<i>Total</i>	10470	174,5	100,00

DEPTH V.S. TIME FOR WELL:



WELL: 712206 01 PRESSURE COMPOSITE PLOT



Well History 7122/6-1.

GENERAL:

Well 7122/6-1 was designed to drill a prospect located in the central part of the block, which is located in the eastern part of the Hammerfest Basin and belongs to the Finnmark West acreage. The prospect is formed by tilted blocks dipping southwards, and closing against a major WNW-ESE trending fault system that could be an extension of the Trollfjord-Komagelv Fault Zone in the Hammerfest Basin.

Primary objectives was to test potential reservoirs below the base Upper Jurassic unconformity in the Middle Jurassic, which is the prime objective in the western Hammerfest basin, and the Upper Triassic series.

OPERATIONS:

Wildcat well 7122/6-1 was spudded by Polar Frontier Drilling semi-submersibel rig Polar Pioneer 5 September 1987 and completed 12 November 1987 at a depth of 2707 m RKB in Late Triassic rocks.

A thin hydrocarbon bearing zone was encountered at top of Stø Formation, and another hydrocarbon bearing reservoir in the Upper Triassic Snadd Formation. A total of 4 cores were cut in the interval between 2019 m- and 2099 m RKB.

Top of the main markers have been encountered higher than prognosed: top Stø Formation came in 71 m higher, and top Trias came in 183 m higher than expected.

Plugged and abandoned as a gas/condensate discovery.

TESTING:

Two DST-tests within the Snadd Formation were performed in this well.

GEOLOGICAL TOPS

WELL: 7122/6-1.

	<i>Depth m (RKB)</i>
<i>Nordland Group</i>	424,0
<i>Sotbakken Group</i>	546,5
<i>Nygrunnen Group</i>	759,0
<i>Kvitingen Fm</i>	759,0
<i>Nordvestbanken Group</i>	827,5
<i>Kolmule Fm</i>	827,5
<i>Kolje Fm</i>	1649,0
<i>Knurr Fm</i>	1884,0
<i>Teistengrunnen Group</i>	1931,0
<i>Hekkingen Fm</i>	1931,0
<i>Realgrunnen Group</i>	2015,0
<i>Stø Fm</i>	2015,0
<i>Nordmela Fm</i>	2039,0
<i>Tubåen Fm</i>	2052,0
<i>Fruholmen Fm</i>	2063,0
<i>Ingøydjupet Group</i>	2191,0
<i>Snadd Fm</i>	2191,0
<i>TD=</i>	2707,0