7/11-09 Operator : HYDRO Well no :

: 6340308 N : 57 12 11.79 N UTM coord. Coordinates 02 24 50.18 E 464590 E

: 491 : 70 Permit no Licence no

: DEEPSEA DRILLER : SEMI-SUB. Rig type Rig

: DOLPHIN SERVICES A/S Contractor

25 M Bottom hole temperature : 0 deg.C Elev. KB

91 M Water depth : 85.11.26 Spud. date

: 4272 M Total depth Compl. date : 86.03.09

Form. at TD : TRIASSIC : WILDCAT Spud. class

Prod. form Compl. class : P&A. DRY HOLE

: NH CN 82 - 308 SP. 713 Seisloca

## LICENSEES

7.500000 NORSKE CONOCO A/S

25.000000 NORSK HYDRO PRODUKSJON A.S 7.500000 MOBIL DEVELOPMENT NORWAY A.S. 10.000000 SAGA PETROLEUM A.S. 50.000000 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/cm3
		<b></b>			
CONDUCTOR	<i>30</i>	190.0	36	192.0	•
SURF. COND.	20	708.0	26	723.0	2.14
INTERM.	13 3/8	2195.0	17 1/2	2212.0	2.00
INTERM.	9 5/8	3932.0	12 1/4	3947.0	•
LINER	7	4255.0	8 1/2	4272.0	•

## CONVENTIONAL CORES

Core no	Core no Intervals cored		very
	meters	M	* *
1	4166.0 - 4179.0	13.0	100.0
2	4179.0 - 4190.0	11.0	100.0
3	4191.0 - 4209.7	18.7	100.0

## MUD PROPERTIES

Depth below KB meter	Muđ weigth g/cm3	Viscosity	Mud type
192.000	1.20	0.0	WATER BASED
192.000	1.07	0.0	WATER BASED
635.000	1.10	5.0	WATER BASED
723.000	1.11	5.0	WATER BASED
723.000	1.10	10.0	WATER BASED
723.000	1.16	10.0	WATER BASED
723.000	1.15	15.0	WATER BASED

830.000	1.16	16.0	WATER BASED
1355.000	1.26	20.0	WATER BASED
1863.000	1.58	30.0	WATER BASED
2212.000	1.60	34.0	WATER BASED
2212.000	1.63	32.0	WATER BASED
2212.000	1.66	23.0	WATER BASED
2233.000	1.60	26.0	WATER BASED
3159.000	1.57	24.0	WATER BASED
3347.000	1.56	23.0	WATER BASED
3696.000	1.60	23.0	WATER BASED
3719.000	1.7 <del>4</del>	26.0	WATER BASED
4015.000	1.60	30.0	WATER BASED
4025.000	1.83	47.0	WATER BASED
4128.000	1.89	34.0	WATER BASED
4133.000	1.74	<i>25.0</i>	WATER BASED
4214.000	1.89	30.0	WATER BASED
4241.000	1.60	25.0	WATER BASED
4260.000	1.89	30.0	WATER BASED
4271.000	1.74	32.0	WATER BASED
		A	

## DRILL STEM TEST

#### INTERVALS AND PRESSURES

Test	interval	Choke	Pr	essure ()	PSI)
	meter	size	WHP	BTHP	FFP
1.0	4169.500 - 4182.500 Test temperature: 156	44.45 °C	18.9	9914.9	8711.6

#### RECOVERY

Test	Oil	Gas	Oil grav.	Gas grav.	GOR
no.	Sm3/đ	Sm3/d	g/cm3	rel. air	m3/m3
1.0	0	• 0	0.000	0.000	0

# DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES	
Cutting	210-4271	1050	
Wet Samples	210-4260	570	

# SHALLOW GAS

Interva.	L
below K	B

REMARKS

netom vp

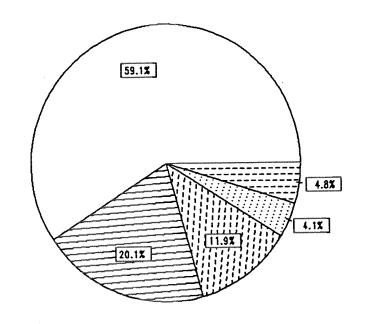
# AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200 1/50	O Div.
ISF LSS GR	97.000 - 720.000	<i>x x</i>	
DIS LSS COMPOSITE	97.000 - 4272.000	x x	•

LDL CNL COMPOSITE	708.000 - 4265.000	x	X
DLL MSFL SP	3933.000 - 4258.000	x	X
SHDT SHDT	2770.000 - 3951.000 3933.500 - 4274.000 3935.000 - 4275.000	X	x
CDM AP/SHDT MSD NGS	3933.000 - 4275.000 3933.000 - 4256.000		•
RFT GR HP	4169.500 - 4181.000 4169.000 - 4180.000		
CBL VDL GR CBL VDL	508.000 - 2190.000 1600.000 - 3933.000	X X	
MUD	106.000 - 4271.000		X
VELOCITY	97.000 - 4272.000		x
(Geogram, synthetic (VSP.Rigshot, 10cm, (VSP.Run 4A, 864-4)	c seismogram, plot 3-8 /s.Plot 1-15 271m	15	stk.) stk.) stk.)

# DAILY DRILLING REPORT SYSTEM

Main operations for well: 0007/11 - 09



DRILLING

FORMATION EVAL

[] INTERRUPTION

MOVING

PLUC & ABANDON

Total: 2568.00 hours

Main operation	Minutes	Hours %	of total
DRILLING	91080	1518.00	59.11
FORMATION EVAL	30990	516.50	20.11
INTERRUPTION	18300	305.00	11.88
MOVING	6300	105.00	4.09
PLUG & ABANDON	7410	123.50	4.81

MAIN OPERATIONS FOR WELL: 0007 / 11 - 09

MAIN OPERATION	:	DRILLING
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Sub operations	Minutes	Hrs	% of total
BOP ACTIVITIES BOP/WELLHEAD EQ CASING CIRC/COND DRILL PRESS DETECTION REAM SURVEY TRIP UNDERREAM WAIT	3120 3420 14850 2790 43110 330 2520 2070 15990 1860 1020	52.00 57.00 247.50 46.50 718.50 42.00 34.50 266.50 31.00	3.43 3.75 16.30 3.06 47.33 0.36 2.77 2.27 17.56 2.04 1.12
Total	91080	1518.00	100.00

### MAIN OPERATION : FORMATION EVAL

Sub operations	Minutes	Hrs	% of total
CIRC SAMPLES CIRC/COND CORE DST LOG OTHER TRIP WAIT	270 720 1470 17220 6660 150 3210 1290	4.50 12.00 24.50 287.00 111.50 53.50 21.50	0.87 2.32 4.74 55.57 21.49 0.48 10.36 4.16
Total	30990	516.50	100.00

### MAIN OPERATION: INTERRUPTION

Sub operations	Minutes	Hrs	% of total
FISH MAINTAIN/REP OTHER WAIT	7680 6090 180 4350	128.00 101.50 3.00 72.50	41.97 33.28 0.98 23.77
Total	18300	305.00	100.00

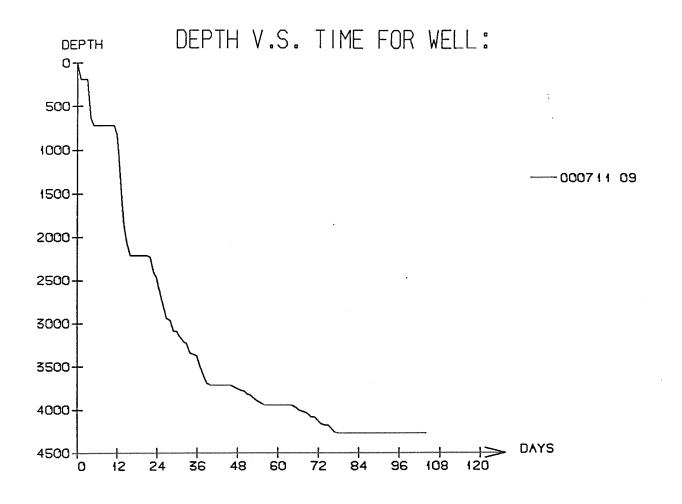
#### MAIN OPERATION : MOVING

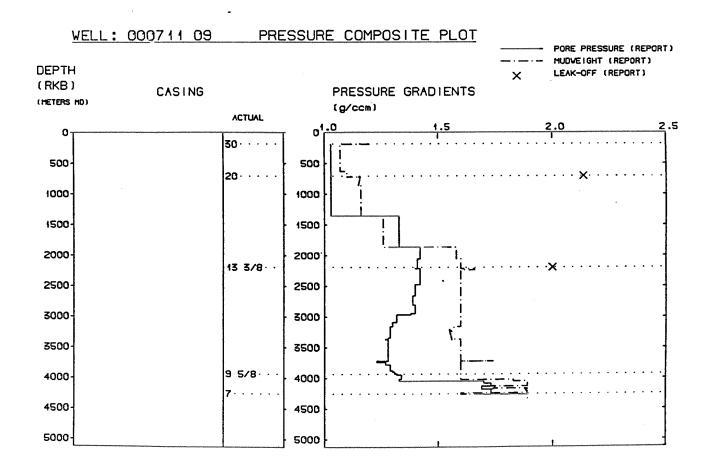
Sub operations	Minutes	Hrs	% of total
ANCHOR TRANSIT	3120 3180	52.00 53.00	49.52 50.48
Total	6300	105.00	100.00

## MAIN OPERATION : PLUG & ABANDON

Sub operations	Minutes	Hrs	% of total
CEMENT PLUG CIRC/COND CUT EQUIP RECOVERY MECHANICAL PLUG OTHER PERFORATE SQUEEZE TRIP	270 210 600 1230 390 180 240 240 4050	4.50 3.50 10.00 20.50 6.50 4.00 4.00 67.50	3.64 2.83 8.10 16.60 5.26 2.43 3.24 54.66
Total	7410	123.50	100.00

Total time used 2568.00 hrs





## WEll History 7/11-9.

#### GENERAL:

Well 7/11-9 was drilled in the Northern part of the block on the B-South structure. The well was designed to test the sedimentary sequences containing the Ula sands, that were seismically correlateable with well 7/11-5 on the A-structure south of this location. The closure of the B-South was dependent on pinchout of thr Ula sands and sealing Triassic rocks over the faults to the east and west.

Prognosed top of the Ula sands was at 4119 m, and the thickness 90 m. Prognosed TD. at 4260 m in Triassic rocks.

#### **OPERATIONS:**

Wildcat well 7/11-9 was spudded 11 November 1985 by Dolphin Services semi-submersibel rig Byford Dolphin and completed 9 March 1986. The well terminated at a depth of 4275 m RKB in Triassic rocks, the Smith Bank Fm.

Top Lst came in at 3120 m RKB, and top Jurassic at 4027 m RKB. At 4093 m RKB a change in formation character appeared from shale to grey/brownish siltstone, the Farsund Formation.

Ula sand came in at 4168,5 m RKB, and three cores were cut in the interval 4165- 4208,7 m RKB. The cores indicated top Triassic rocks at 4182,5 m RKB, and a 13 m column of shows. RFT-tests were run and showed very low permeability which was confirmed by the DST-test. The well produced water only, no hydrocarbons were produced, and the well was plugged and abandoned as a dry hole.

#### TESTING:

One DST-test was performed in the interval between 4168,4 - and 4182,5 m RKB.

# GEOLOGICAL TOPS

# WELL: 7/11-9

	Depth m (RKB)
Nordland Croun	106.0
Nordland Group	108.0
Hordaland Group	1451.5
Rogaland Group	2965.5
Balder Fm.	2965.5
Sele Fm.	2993.0
Lista Fm.	3008.5
Forties Fm. Equiv.	3034.0
Maureen Fm.	3093.5
Shetland Group	3162.0
Ekofisk Fm.	3162.0
Tor Fm.	3228.5
Hod Fm.	3624.5
$Blod\phi ks$ Fm.	3871.5
Hidra Fm.	3873.5
Cromer Knoll Group	3899.0
Rødby Fm.	3899.0
Åsgard Fm.	3925.0
Tyne Group	4027.0
Mandal Fm.	4027.0
Farsund Fm.	4093.0
Ula Fm.	4168.5
Triassic Group	4182.5
Smith Bank Fm.	4182.5
T.D.(LD)	4275.0