

Well no : 16/10-01

Operator : AGIP

Coordinates : 58 03 23.68 N
02 03 14.05 E

UTM coord. : 6435546 N
444163 E

Licence no : 101

Permit no : 515

Rig : DYVI STENA

Rig type : SEMI-SUB.

Contractor : DYVI OFFSHORE A/S

Bottom hole temperature : deg.C

Elev. KB : 25 M

Spud. date : 86.05.25

Water depth : 84 M

Compl. date : 86.07.14

Total depth : 3151 M

Spud. class : WILDCAT

Form. at TD : PERMIAN

Compl. class : P&A. DRY HOLE

Prod. form :

Seisloca : ST 8315 - 303 SP. 946

LICENSEES

25.000000 NORSK AGIP A/S
 5.000000 DEMINEX (NORGE) A/S
 20.000000 NORSKE FINA 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
CONDUCTOR	30	195.0	36	195.0	.
SURF.COND.	20	505.0	26	522.0	1.61
INTERM.	13 3/8	1409.0	17 1/2	1424.0	1.82
INTERM.	9 5/8	2540.0	12 1/4	2565.0	1.82
OPEN HOLE		3151.0	8 1/2	3151.0	.

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery M %	Series
1	2855.0 - 2873.0	18.0 100.0	
2	2925.0 - 2934.0	9.0 100.0	

MUD PROPERTIES

Depth below KB meter	Mud weight g/cm3	Viscosity	Mud type
196.000	1.10	0.0	WATER BASED
218.000	1.05	0.0	WATER BASED
536.000	1.15	15.0	WATER BASED
715.000	1.16	17.0	WATER BASED
811.000	1.18	18.0	WATER BASED
831.000	1.20	19.0	WATERBASED
918.000	1.22	19.0	WATER BASED
1121.000	1.21	20.0	WATER BASED
1419.000	1.24	28.5	WATER BASED

1424.000	1.23	21.0	WATER BASED
1734.000	1.27	24.0	WATER BASED
1740.000	1.32	23.0	WATER BASED
1988.000	1.37	23.0	WATER BASED
2027.000	1.42	23.0	WATER BASED
2604.000	1.25	15.0	WATER BASED
2782.000	1.30	20.0	WATER BASED
3151.000	1.35	21.0	WATER BASED

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	510-3150	440
Wet Samples	510-3147	550

SHALLOW GAS

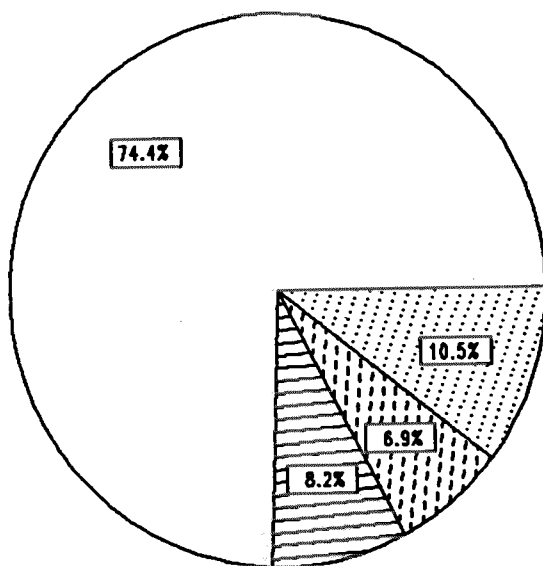
Interval below KB	REMARKS

AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500	Div.
ISF LSS GR	109.300 - 487.200	X	X	
ISF LSS MSFL GR	507.000 - 1410.000	X	X	
ISF LSS GR	1412.000 - 2553.000	X	X	
ISF LSS GR	2542.500 - 3154.000	X	X	
LDL CNL GR	1412.000 - 2558.000	X	X	
LDL CNL GR	2542.500 - 3155.200	X	X	
CDM AP/MSD SHDT	1415.000 - 2555.000	X	X	
SHDT GR	1412.000 - 2556.000	X		
SHDT GR	2542.500 - 3155.600	X		
HRT CCL	50.000 - 1380.000			1:1000X
CBL VDL GR	1050.000 - 2542.500	X		
PHYSICAL FORMATION	109.000 - 3151.000			X
VELOCITY	109.000 - 4280.000			1:1000X
(Geogram, synthetic seismogram, 10cm/s				8 stk.)
(VSP 885-3156m				1 stk.)
(VSP Rigshot, 10cm/s, plot 1-12				12 stk.)

DAILY DRILLING REPORT SYSTEM

Main operations for well : 0016/10 - 01



- DRILLING
- FORMATION EVAL
- MOVING
- PLUG & ABANDON

Total : 1320.00 hours

Main operation	Minutes	Hours	% of total
DRILLING	58890	981.50	74.36
FORMATION EVAL	6510	108.50	8.22
MOVING	5460	91.00	6.89
PLUG & ABANDON	8340	139.00	10.53

MAIN OPERATIONS FOR WELL : 0016 / 10 - 01

MAIN OPERATION : DRILLING

Sub operations	Minutes	Hrs	% of total
BOP ACTIVITIES	2700	45.00	4.58
BOP/WELLHEAD EQ	2040	34.00	3.46
CASING	5010	83.50	8.51
CIRC/COND	4590	76.50	7.79
DRILL	30870	514.50	52.42
HOLE OPEN	1890	31.50	3.21
OTHER	480	8.00	0.82
PRESS DETECTION	60	1.00	0.10
REAM	930	15.50	1.58
SURVEY	1470	24.50	2.50
TRIP	8610	143.50	14.62
WAIT	240	4.00	0.41
Total	58890	981.50	100.00

MAIN OPERATION : FORMATION EVAL

Sub operations	Minutes	Hrs	% of total
CIRC/COND	150	2.50	2.30
CORE	1440	24.00	22.12
LOG	4020	67.00	61.75
TRIP	900	15.00	13.82
Total	6510	108.50	100.00

MAIN OPERATION : MOVING

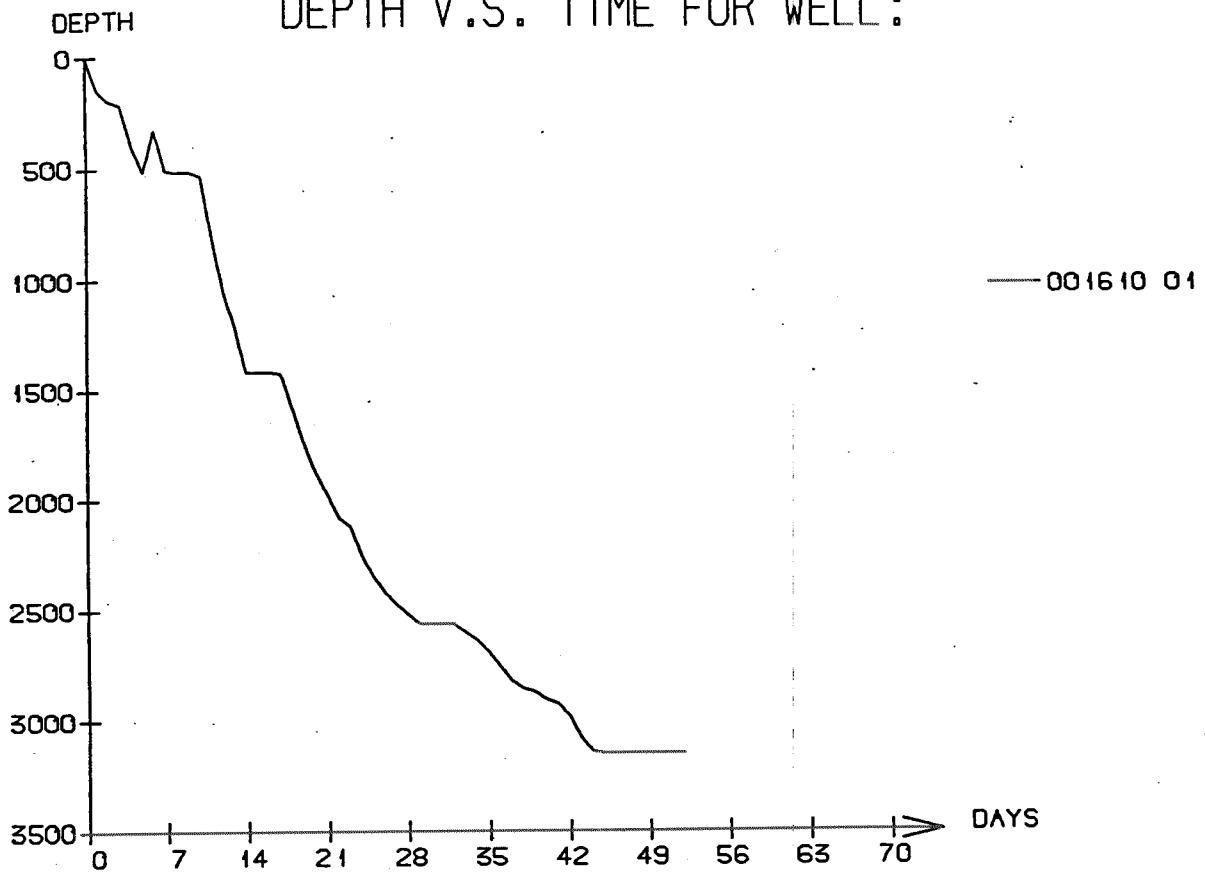
Sub operations	Minutes	Hrs	% of total
ANCHOR	1980	33.00	36.26
TRANSIT	3480	58.00	63.74
Total	5460	91.00	100.00

MAIN OPERATION : PLUG & ABANDON

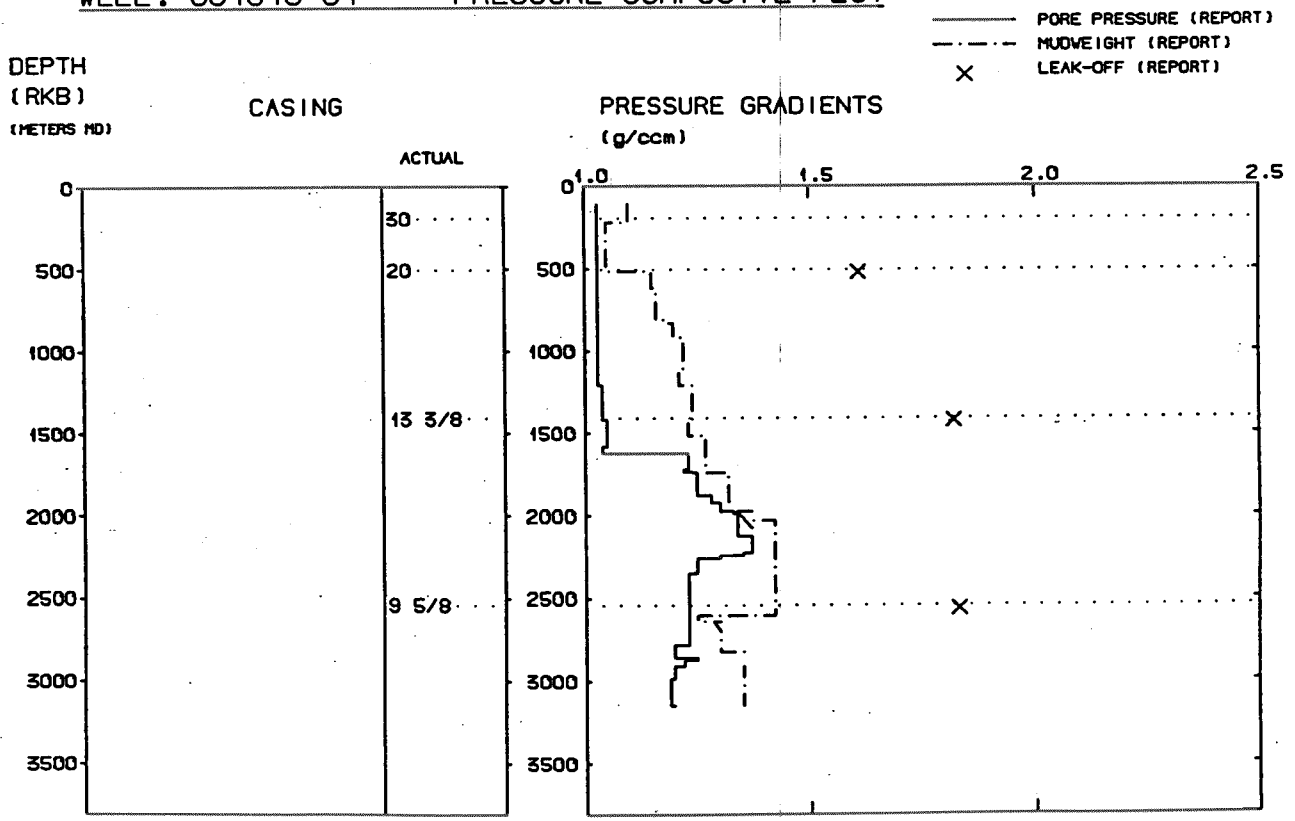
Sub operations	Minutes	Hrs	% of total
CEMENT PLUG	840	14.00	10.07
CIRC/COND	630	10.50	7.55
CUT	870	14.50	10.43
EQUIP RECOVERY	3510	58.50	42.09
MECHANICAL PLUG	90	1.50	1.08
OTHER	540	9.00	6.47
PERFORATE	360	6.00	4.32
TRIP	1500	25.00	17.99
Total	8340	139.00	100.00

Total time used 1320.00 hrs

DEPTH V.S. TIME FOR WELL:



WELL: 001610 01 PRESSURE COMPOSITE PLOT



Well History 16/10-1.

GENERAL:

Well 16/10-1 was designed to drill a structure called "Alpha" in the south western part of the block, and was the first well to be drilled on this lisenche. The reason for this choice was the presence of a deep basin to the south west of the block who yield mature material and have been generating hydrocarbons since the Cretaceous. The techtonic evolution of the structure is probably of pre-Cretaceous age, well before hydrocarbon generation started.

The purpose of the well was to explore all main reservoir in Jurassic and Triassic sands. Jurassic sands were expected to come in at 2850 m, Triassic at 2880 m. Prognosed TD. at 3175 m.

OPERATIONS:

Wildcat well 15/10-1 was spudded 25 May 1986 by Dyvi Offshore A/S semi-submersibel rig Dyvi Stena, and completed 14 July 1986 at a depth of 3151 in Permian rocks. Drilling proceeded without any significant problems. No shallow gas was encountered.

Jurassic Sst came in at 3005 m RKB, and Triassic Sst came in at 3053 m RKB. Two cores were cut, the first 2855- 2873 m RKB, and the second from 2925- 2934 m RKB. The well was plugged and abandoned as a dry hole.

TESTING:

No DST-tests were performed in this well.

GEOLOGICAL TOPS

WELL: 16/10-1

Depth m (RKB)

<i>Nordland Group</i>	109.0
<i>Hordaland Group</i>	1196.5
<i>Rogaland Group</i>	2119.5
<i>Balder Fm.</i>	2119.5
<i>Sele Fm.</i>	2135.5
<i>Lista Fm.</i>	2189.0
<i>Maureen Fm.</i>	2245.0
<i>Shetland Group</i>	2280.0
<i>Ekofisk Fm.</i>	2280.0
<i>Tor Fm.</i>	2349.0
<i>Hod Fm.</i>	2569.0
<i>Blodøks Fm.</i>	2683.0
<i>Hidra Fm.</i>	2690.0
<i>Cromer Knoll Group</i>	2750.0
<i>Viking Group</i>	2794.0
<i>Draupne Fm.</i>	2794.0
<i>Heather Fm.</i>	2853.0
<i>Vestland Group</i>	3005.0
<i>Hugin Fm.</i>	3005.0
<i>Sleipner Fm.</i>	3038.0
<i>Triassic Group</i>	3053.0
<i>Skagerak Fm.</i>	3053.0
<i>Zechstein Group</i>	3116.0
<i>T.D.</i>	3151.0