Well no : 30/ 6-16 Operator : HYDRO

Coordinates	: 60 39 31.72 N 02 41 37.64 E	UTM coord.	: 6724982 483260
Licence no	: 53	Permit no	: 442
Rig	: TREASURE SCOUT	Rig type	: SEMI-SUB.
Contractor	: WILHELMSEN OFFSHORE SERVICES		
Bottom hole temperature	: 93 deg.C	Elev. KB	: 23 M
Spud. date	: 84.11.09	Water depth	: 108 M
Compl. date	: 85.01.21	Total depth	: 3300 M
Spud. class	: WILDCAT	Form. at TD	: TRIASSIC
Compl. class	: SUSPENDED. OIL/GAS	Prod. form	: M&E.JURAS
Seisloca	: NH 82 - 344 SP. 300.		

LICENSEES

10.667000	ELF AQUITAINE NORGE A/S
12.250000	NORSK HYDRO PRODUKSJON A.S
8.000000	MOBIL EXPLORATION NORWAY INC.
7.350000	SAGA PETROLEUM A.S.
56.400000	DEN NORSKE STATS OLJESELSKAP A.S
5.333000	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	30	224.0	36	224.0	
SURF.COND.	20	598.0	26	613.0	1.43
INTERM.	13 3/8	1703.0	17 1/2	1715.0	1.65
INTERM.	9 5/8	3285.0	12 1/4	3300.0	

CONVENTIONAL CORES

Core no.	Intervals cored meters		Recovery M	Recovery %	Series
1	2856.0 -	2866.0	10.0	100.0	M/L JURASSIC
2	2866.0 -	2877.1	11.1	89.2	LOWER JURASSIC
3	2878.5 -	2890.0	11.5	100.0	LOWER JURASSIC
4	2890.0 -	2906.0	16.0	94.0	LOWER JURASSIC
5	2923.0 -	2937.4	14.4	100.0	LOWER JURASSIC
6	2937.4 -	2948.4	11.0	95.0	LOWER JURASSIC
7	2982.0 -	2989.8	7.8	98.0	LOWER JURASSIC

MUD PROPERTIES

Depth below KB meter	Mud weigth g/cm3	Plastic viscosity mPa.s	Mud type
224.000	1.05		WATER BASED
302.000	1.08		WATER BASED
613.000	1.10	12.0	WATER BASED
627.000	1.14	19.0	WATER BASED
1231.000	1.16	18.0	WATER BASED
1415.000	1.17	20.0	WATER BASED
1773.000	1.30	24.0	WATER BASED
2000.000	1.40	32.0	WATER BASED
2860.000	1.35	23.0	WATER BASED
2884.000	1.32		WATER BASED
2926.000	1.35	28.0	WATER BASED
3160.000	1.36	29.0	WATER BASED
3300.000	1.35	29.0	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no	interval meter	Choke size	Pressure (PSI) WHP	BTHP	FIPP
1.0	2919.600 - 2943.600	14.3	470.0	1820.0	4914.0
2.0	2855.000 - 2868.000	27.0	594.0	2240.0	3435.0

RECOVERY

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
1.0	183	25500	0.880	0.747	139
2.0	685	124600	0.840	0.760	182

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	230 - 3300	720
Wet Samples	230 - 3300	390

SHALLOW GAS

Interval below KB	REMARKS
	NONE

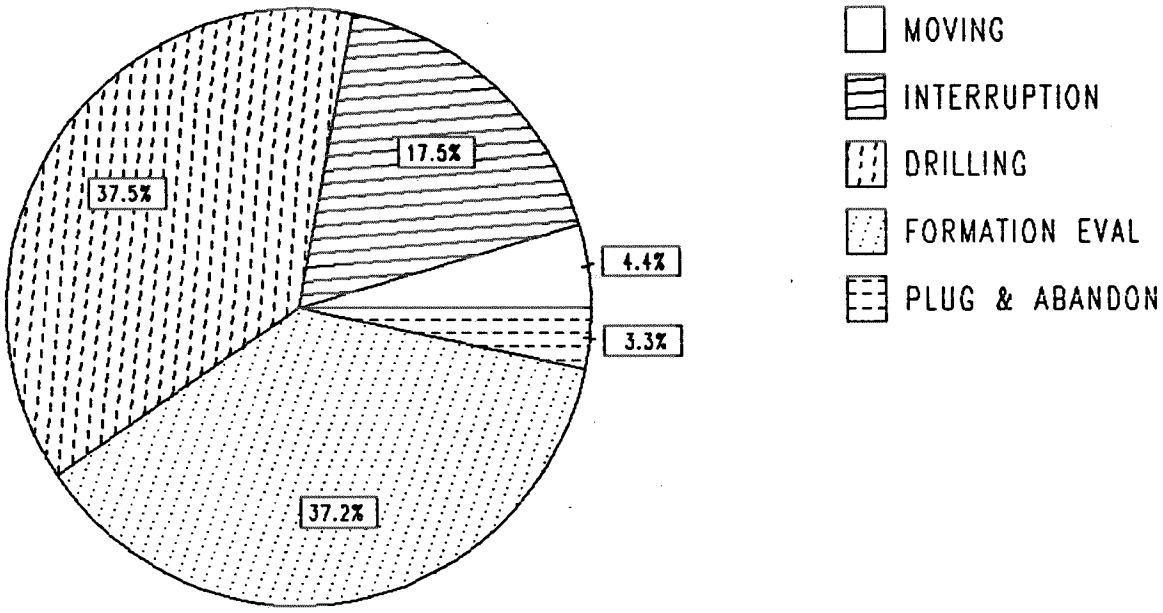
AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
ISF GR	126 - 611	X	
ISF LSS	597 - 1691	X	
ISF LSS	1703 - 2984	X	
ISF MSFL LSS	2840 - 2984	X	
ISF LSS	2820 - 3303	X	
ISF LSS	126 - 3303		X
LDL	597 - 1692	X	
LDL CNL	1703 - 2985	X	
LDL CNL NGS	2820 - 3304	X	
LDL CNL	597 - 3304		X
DLL MSFL	2820 - 3230	X	X
CDM AP	1995 - 3300	X	X
SHDT	2000 - 3305	X	
NGS PLAYBACK	2820 - 3304	X	X
TEMPERATURE DATA	225 - 3300	1:5000	
DRILLING DATA PRESSURE	225 - 3300	1:5000	
DXC NXB	225 - 3300	1:5000	
RFT PRESSURE DATA	2856 - 2862	X	
RFT	2855 - 3246	X	
CBL VDL	400 - 1710	X	
CBL VDL	1500 - 3221	X	
CBL VDL	2335 - 2906	X	
MUD	225 - 3300		X
VELOCITY	125 - 3300		X

(+ Synthetic Seismogram, Geogram, 10 + 20 cm/s, 6 stk)
(+ V.S.P. Stacks Summary, 683 - 3303 1 stk)

DAILY DRILLING REPORT SYSTEM

Main operation : 30/06-16



Total : 1944 HRS

Main operation	*Minutes*	*Hours*	*% of total*
MOVING	*5190*	*86.50*	*4.45*
INTERRUPTION	*20430*	*340.50*	*17.52*
DRILLING	*43740*	*729.00*	*37.50*
FORMATION EVAL	*43380*	*723.00*	*37.19*
PLUG & ABANDON	*3900*	*65.00*	*3.34*

MAIN OPERATIONS WELL : 30/06-16

MAIN OPERATION: DRILLING

Sub operations	Min	Hrs	% of total
CASING	6720	112.00	15.36
TRIP	8070	134.50	18.45
DRILL	20040	334.00	45.82
CIRC/COND	1110	18.50	2.54
BOP/WELLHEAD EQ	2460	41.00	5.62
PRESS DETECTION	150	2.50	0.34
SURVEY	1290	21.50	2.95
UNDERREAM	1530	25.50	3.50
BOP ACTIVITIES	1770	29.50	4.05
REAM	450	7.50	1.03
OTHER	150	2.50	0.34
TOTAL	43740	729.00	

MAIN OPERATION: MOVING

Sub operations	Min	Hrs	% of total
TRANSIT	2820	47.00	54.34
ANCHOR	2370	39.50	45.66
TOTAL	5190	86.50	

MAIN OPERATION: FORMATION EVAL

Sub operations	Min	Hrs	% of total
LOG	10440	174.00	24.07
CORE	3330	55.50	7.68
CIRC/COND	4035	67.25	9.30
TRIP	8084	134.73	18.64
RFT/FIT	330	5.50	0.76
OTHER	1516	25.27	3.49
CIRC SAMPLES	180	3.00	0.41
WAIT	330	5.50	0.76
DST	10500	175.00	24.20
PROD TEST	4635	77.25	10.68
TOTAL	43380	723.00	

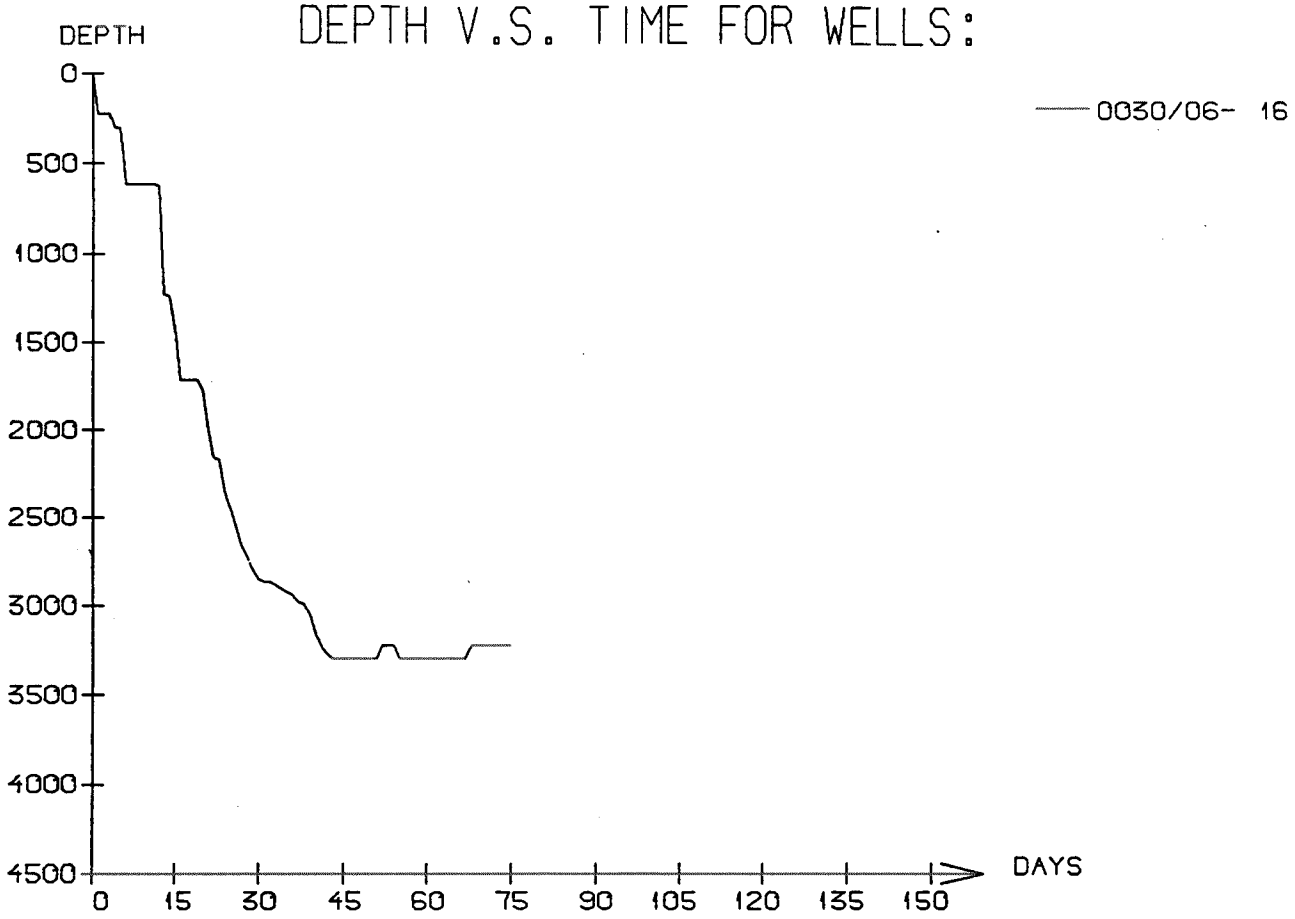
MAIN OPERATION: INTERRUPTION

Sub operations	Min	Hrs	% of total
WAIT	11730	195.50	57.42
MAINTAIN/REP	7230	120.50	35.39
OTHER	60	1.00	0.29
FISH	1410	23.50	6.90
TOTAL	20430	340.50	

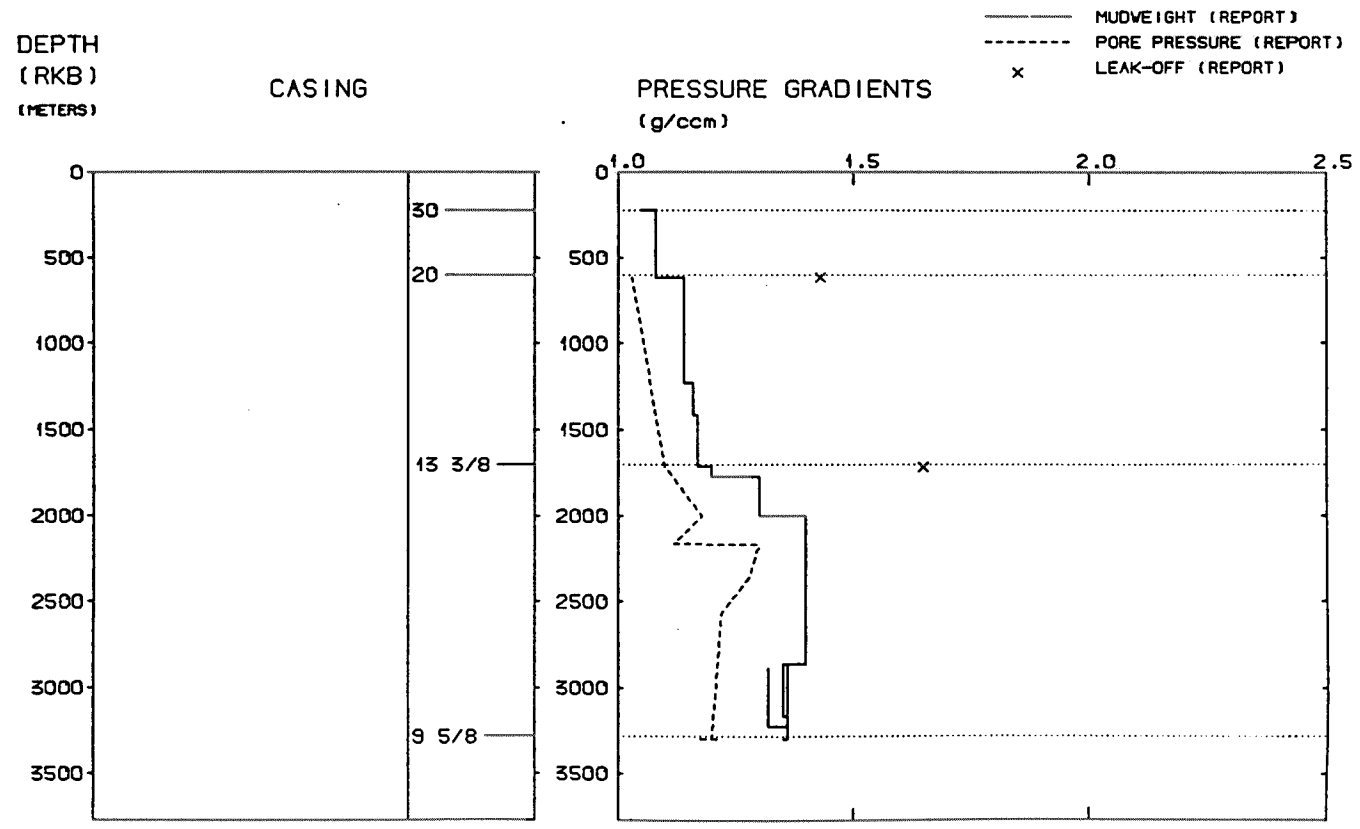
MAIN OPERATION: PLUG & ABANDON

Sub operations	Min	Hrs	% of total
MECHANICAL PLUG	180	3.00	4.62
TRIP	480	8.00	12.31
SQUEEZE	690	11.50	17.69
PERFORATE	540	9.00	13.85
OTHER	420	7.00	10.77
CUT	330	5.50	8.46
EQUIP RECOVERY	1170	19.50	30.00
CEMENT PLUG	90	1.50	2.31
TOTAL	3900	65.00	

DEPTH V.S. TIME FOR WELLS:



WELL: 003006 16 PRESSURE COMPOSITE PLOT



WELL HISTORY 30/6-16

GENERAL:

Wildcat well 30/6-16 was drilled on the Theta-structure, northwest in the block, between the Alpha North and the Delta-structure.
The structure is a northeast-southwest trending fault block complex, which is rotated towards east-northeast.
It is separated from the adjoining fault blocks Alpha North to the southeast, and Delta to the north by faults trending in a generally northeast-southwest direction.
The main objective of the well was hydrocarbons in the Statfjord Formation.

OPERATIONS:

The well was spudded 9 November 1984 by the semi-submersible rig Treasure Scout.
No significant problems were experiences during drilling of the well.
Oil was encountered in the Middle Jurassic Etive Formation, and the Lower Jurassic Cook Formation.
The Etive Formation, 12 m, was found to be oil bearing over the entire interval. This was also the case i the Cook Formation, where the oil column was 26 m.
The Statfjord Formation was found to be water bearing.
No oil/water contacts could be established.
Seven cores were cut in the well.

TESTING:

Two Drill Stem Tests were performed. One each in the Etive and the Cook Formations. Both produced oil and gas.
A rapid decrese in production rate and well head pressure in the Etive Formation test indicate that the reservoir is of very limited size.

GEOLOGICAL TOPS

WELL: 30/06-16

	Depth m (RKB)
Nordland Group	*137,0*
Utsira Fm	*684,0*
Hordaland Group	*902,0*
Rogaland Group	*2001,0*
Balder Fm	*2001,0*
Sele Fm	*2088,0*
Lista Fm	*2178,0*
Våle Fm	*2282,0*
Shetland Group	*2301,0*
Cromer Knoll Group	*2852,0*
Brent Group	*2856,0*
Etive Fm	*2856,0*
Dunlin Group	*2868,0*
Drake Fm	*2868,0*
Cook Fm	*2920,0*
Burton Fm	*2946,0*
Statfjord Fm	*2960,0*
Hegre Group	*3224,0*
TD=	*3300,0*