

## **General information**

TypeEXPLORATIONPurposeWILDCATStatusP&AStatusP&AFacmaps in new windowlink to mapMain areaNORTH SEAFieldOSELVARDiscovery1/3-6 OselvarWell name1/3-6Seismic locationLINJE SH 8902 - 161 SP436Production licence065_Drilling operatorElf Petroleum Norge ASDrilling days104Entered date2.06.1991Completed date2.06.1993Publication date19.12.2007Purpose - plannedWILDCATReentryNOContentGAS/CONDENSATEDiscovery wellboreYES1st level with HC, agePALEOCENE1st level with HC, formationS86.0Final vertical depth (TVD) [m]S86.0Final vertical depth (TVD) [m]S86.0Final vertical depth (TVD) [m]S86.0KillsS65.0Maximum inclination [°]4.5Bottom hole temperature [°C]142Oldest penetrated formationEDSONS degreesS6° 56' 14.92" NEw dagreesS6° 56' 14.92" N </th <th>Wellbore name</th> <th>1/3-6</th>	Wellbore name	1/3-6
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Discovery wellboreYES1st level with HC, agePALEOCENE1st level with HC, formationFORTIES FMKelly bushing elevation [m]25.0Water depth [m]72.0Total depth (MD) [m RKB]3586.0Final vertical depth (TVD) [m RKB]3584.0Maximum inclination [°]4.5Bottom hole temperature [°C]142Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationED50NS degrees56° 56' 14.92'' NEW degrees2° 42' 20.81'' ENS UTM [m]6310606.04	Reentry	NO
1st level with HC, agePALEOCENE1st level with HC, formationFORTIES FMKelly bushing elevation [m]25.0Water depth [m]72.0Total depth (MD) [m RKB]3586.0Final vertical depth (TVD) [m3584.0RKB]4.5Bottom hole temperature [°C]142Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationHOD FMGeodetic datumED50NS degrees56° 56' 14.92'' NEW degrees2° 42' 20.81'' ENS UTM [m]6310606.04	Content	GAS/CONDENSATE
1st level with HC, formationFORTIES FMKelly bushing elevation [m]25.0Water depth [m]72.0Total depth (MD) [m RKB]3586.0Final vertical depth (TVD) [m RKB]3584.0Maximum inclination [°]4.5Bottom hole temperature [°C]142Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationHOD FMGeodetic datumED50NS degrees2° 42' 20.81'' ENS UTM [m]6310606.04	Discovery wellbore	YES
Kelly bushing elevation [m]25.0Water depth [m]72.0Total depth (MD) [m RKB]3586.0Final vertical depth (TVD) [m RKB]3584.0Maximum inclination [°]4.5Bottom hole temperature [°C]142Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationED50NS degrees2° 42' 20.81'' ENS UTM [m]6310606.04	1st level with HC, age	PALEOCENE
Water depth [m]72.0Total depth (MD) [m RKB]3586.0Final vertical depth (TVD) [m RKB]3584.0Maximum inclination [°]4.5Bottom hole temperature [°C]142Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationHOD FMGeodetic datumED50NS degrees2° 42' 20.81'' ENS UTM [m]6310606.04	1st level with HC, formation	FORTIES FM
Total depth (MD) [m RKB]3586.0Final vertical depth (TVD) [m RKB]3584.0Maximum inclination [°]4.5Bottom hole temperature [°C]142Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationHOD FMGeodetic datumED50NS degrees2° 42' 20.81" ENS UTM [m]6310606.04	Kelly bushing elevation [m]	25.0
Final vertical depth (TVD) [m RKB]3584.0Maximum inclination [°]4.5Bottom hole temperature [°C]142Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationHOD FMGeodetic datumED50NS degrees56° 56' 14.92'' NEW degrees2° 42' 20.81'' ENS UTM [m]6310606.04	Water depth [m]	72.0
RKB]4.5Maximum inclination [°]4.5Bottom hole temperature [°C]142Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationHOD FMGeodetic datumED50NS degrees56° 56' 14.92'' NEW degrees2° 42' 20.81'' ENS UTM [m]6310606.04	Total depth (MD) [m RKB]	3586.0
Bottom hole temperature [°C]142Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationHOD FMGeodetic datumED50NS degrees56° 56' 14.92'' NEW degrees2° 42' 20.81'' ENS UTM [m]6310606.04		3584.0
Oldest penetrated ageLATE CRETACEOUSOldest penetrated formationHOD FMGeodetic datumED50NS degrees56° 56' 14.92'' NEW degrees2° 42' 20.81'' ENS UTM [m]6310606.04	Maximum inclination [°]	4.5
Oldest penetrated formationHOD FMGeodetic datumED50NS degrees56° 56' 14.92'' NEW degrees2° 42' 20.81'' ENS UTM [m]6310606.04	Bottom hole temperature [°C]	142
Geodetic datum   ED50     NS degrees   56° 56' 14.92'' N     EW degrees   2° 42' 20.81'' E     NS UTM [m]   6310606.04	Oldest penetrated age	LATE CRETACEOUS
NS degrees   56° 56' 14.92'' N     EW degrees   2° 42' 20.81'' E     NS UTM [m]   6310606.04	Oldest penetrated formation	HOD FM
EW degrees 2° 42' 20.81'' E   NS UTM [m] 6310606.04	Geodetic datum	ED50
NS UTM [m] 6310606.04	NS degrees	56° 56' 14.92'' N
	EW degrees	2° 42' 20.81'' E
EW UTM [m] 482095.98	NS UTM [m]	6310606.04
	EW UTM [m]	482095.98



UTM zone	31
NPDID wellbore	1521

#### Wellbore history

#### General

Well 1/3-6 is located between the Gyda, Ula, and Blane fields in the Central Graben of the Norwegian North Sea.

The primary objective was Late Jurassic Ula sands deposited as a rim syncline linked to salt diapirism. The Ula sands had been found hydrocarbon bearing in several wells in the surrounding blocks. Secondary objective was Late Paleocene "Cod sands" (Forties Formation), which could be present in the 1/3-6 area and could pinch out towards the diapir. The prognosed TD was 5030 m below MSL. The "Cod sands" were considered a low-probability target.

#### **Operations and results**

Wildcat well 1/3-6 was spudded with the semi-submersible installation Dyvi Stena on 11 March 1991. Drilling performance went on without significant problems but the primary target of the well was not reached. The discovery of a significant hydrocarbon-bearing reservoir in the Paleocene activated the contingency measures of the programme (to set an extra 11 3/4" liner). For safety and technical reasons, and to allow for a proper test of the Paleocene, the well was stopped at 3586 m in the Late Cretaceous Hod Formation. No shallow gas was encountered while drilling. The well was drilled with a KCI polymer mud.

The well encountered 85 m of hydrocarbon bearing Forties sands at 2913.5 m. The pay zone was 44 m thick with a hydrocarbon saturation of 56 %. No hydrocarbon-water contact was found. Apart from the hydrocarbons in the Forties sands oil shows were also recorded from 3519 to 3530 m in the Tor Formation.

One conventional core was cut at 2921 m to 2928.5 m in the Forties sands. Segregated fluid samples were taken at three depths: 2923 m (filtrate and gas), 2937 m (filtrate and gas), and two samples at 2973.5 m (filtrate and gas in one and filtrate only in the other).

The well was permanently abandoned on 22 June 1991 as a gas-condensate discovery.

#### Testing

Three DST tests were performed. DST 1A and DST 1B both tested the interval 2960.5 - 2977 m. Due to packer failure

during DST 1A this test was abnormally terminated and the re-test DST 1B was performed. DST 1B produced 78 Sm3 oil and 93300 Sm3 gas /day through a 44/64" choke in the final flow period. The GOR was 1196 Sm3/Sm3. The bottom hole temperature in this flow was 107.2 deg C.

DST 2 tested the intervals 2913 - 2924 m + 2929 - 2953 m. The final flow in DST 2 was 153 Sm3 oil and 172500 Sm3 gas /day through a 48/64" choke. The GOR was 1131 Sm3/Sm3 and the condensate gravity was measured to 50.47 deg API. The pressure drawdown in this flow was 290 bar and the bottom hole temperature was 112.2 deg C. The maximum temperature in DST 2 was 123.1 deg C and was recorded in the flow with the lowest rates and lowest drawdown. It was believed to be closer to the true formation temperature than the one recorded in DST 1B.



#### **Cuttings at the Norwegian Offshore Directorate**

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]		
1220.00	3585.00		
Cuttings available for sampling?	YES		

### **Cores at the Norwegian Offshore Directorate**

Core sample number	Core sample - top depth	Core sample - bottom depth	
1	2921.0	2928.5	[m ]

Total core sample length [m]	7.5
Cores available for sampling?	YES

## Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
97	NORDLAND GP
1600	HORDALAND GP
2823	ROGALAND GP
2823	BALDER FM
2836	SELE FM
2914	FORTIES FM
2999	<u>VÅLE FM</u>
3103	SHETLAND GP
3103	EKOFISK FM
3201	TOR FM
3530	HOD FM

#### **Geochemical information**

Document name	Document format	Document size [MB]
<u>1521 1</u>	pdf	0.14
<u>1521_2</u>	pdf	0.82



### Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

Document name	Document format	Document size [MB]
1521 01 WDSS General Information	pdf	24.16
1521_02_WDSS_completion_log	pdf	0.19

## Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
1521_1_3_6_COMPLETION_LOG	pdf	2.54
1521 1 3 6 COMPLETION REPORT	pdf	33.95

## Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	2961	2977	17.5
2.0	2913	2953	15.8

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0		3.000		107
2.0		6.800		112

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3 ]
1.0	78	93300	0.780	0.780	1196
2.0	153	172500	0.771	0.735	1131

### Logs

Log type	Log top depth [m]	Log bottom depth [m]
DIT-D SLS MSFL GR	2860	3153
DIT-E SLS GR	2860	3590





# Factpages Wellbore / Exploration

DLL MSFL GR	2860	3100
FMS GR	2860	3591
LDL CNL GR	2860	3591
LDL CNL GR	2860	3155
LDL CNL GR	2902	3017
MWD - GR RES DIR	186	3586
RFT-B GR	2915	2961
RFT-B HP GR	2916	3360
VSP	905	3575

## Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	183.0	36	185.0	0.00	LOT
INTERM.	20	2000.0	26	2003.0	1.80	LOT
INTERM.	13 3/8	2861.0	17 1/2	2864.0	2.13	LOT
LINER	9 5/8	3062.0	12 1/4	3065.0	0.00	LOT

## **Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]		Date measured
361	1.03			WATER BASED	
550	1.03			WATER BASED	
857	1.55	20.0		WATER BASED	
1255	1.39	38.0		WATER BASED	
1573	1.50	37.0		WATER BASED	
1600	1.55	22.0		WATER BASED	
1820	1.70	41.0		WATER BASED	
1925	1.74	56.0		WATER BASED	
1930	1.75	52.0		WATER BASED	
2070	1.75	63.0		WATER BASED	
2210	1.75	72.0		WATER BASED	
2263	1.75	47.0		WATER BASED	
2356	1.75	40.0		WATER BASED	
2503	1.75	43.0		WATER BASED	
2589	1.75	55.0		WATER BASED	
2651	1.75	58.0		WATER BASED	



# Factpages Wellbore / Exploration

2673	1.75	46.0	WATER BASED
2680	1.75	52.0	WATER BASED
2683	1.75	35.0	WATER BASED
2715	1.55	28.0	WATER BASED
2731	1.75	48.0	WATER BASED
2800	1.75	48.0	WATER BASED
2846	1.75	62.0	WATER BASED
2850	1.75	27.0	WATER BASED
2851	1.75	45.0	WATER BASED
2859	1.43	4.0	WATER BASED
2863	1.75	53.0	WATER BASED
2870	1.75	45.0	WATER BASED
2880	1.75	25.0	WATER BASED
2888	1.43	4.0	WATER BASED
2921	1.75	33.0	WATER BASED
2928	1.75	34.0	WATER BASED
2958	1.43	4.0	WATER BASED
2958	1.43	4.0	WATER BASED
2959	1.43		WATER BASED
2994	1.75	30.0	WATER BASED
3015	1.40		WATER BASED
3060	1.55	46.0	WATER BASED
3061	1.75	43.0	WATER BASED
3064	1.55	33.0	WATER BASED
3110	1.75	44.0	WATER BASED
3150	1.55	23.0	WATER BASED
3157	1.75	28.0	WATER BASED
3176	1.64	25.0	WATER BASED
3200	1.55	30.0	WATER BASED
3210	1.60	24.0	WATER BASED
3270	1.55	29.0	WATER BASED
3300	1.55	33.0	WATER BASED
3326	1.55	30.0	WATER BASED
3344	1.55	31.0	WATER BASED
3388	1.55	30.0	WATER BASED
3391	1.55	30.0	WATER BASED
3465	1.55	34.0	WATER BASED
3529	1.55	32.0	WATER BASED
3554	1.55	34.0	WATER BASED
3573	1.55	42.0	WATER BASED



# Factpages Wellbore / Exploration

3586 1.50	WATER BASED	
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#### **Pressure plots**

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

	Document format	Document size [MB]
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