



Generell informasjon

Brønnbane navn	6305/5-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	ORMEN LANGE
Funn	6305/5-1 Ormen lange
Brønn navn	6305/5-1
Seismisk lokalisering	inline 2153 & x-line 4757
Utvinningstillatelse	209
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	900-L
Boreinnretning	OCEAN ALLIANCE
Boredager	73
Borestart	27.07.1997
Boreslutt	07.10.1997
Frigitt dato	07.10.1999
Publiseringsdato	15.11.2001
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	EGGA FM (INFORMAL)
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	888.5
Totalt målt dybde (MD) [m RKB]	3053.0
Totalt vertikalt dybde (TVD) [m RKB]	3052.8
Maks inklinasjon [°]	13
Temperatur ved bunn av brønnbanen [°C]	81
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	NISE FM
Geodetisk datum	ED50
NS grader	63° 32' 27.5" N



ØV grader	5° 20' 14.9" E
NS UTM [m]	7048160.15
ØV UTM [m]	616189.14
UTM sone	31
NPDID for brønnbanen	3144

Brønnhistorie

General

Well 6305/5-1 was an exploration well which was committed to test the reservoir potential on the Tertiary sequence in the 209 license off shore Mid Norway. The targets were Paleocene, with a sand ("Egga Member") in the Tang Formation as the primary target. The objectives were to test the reservoir potential and seals within the prospects, and to obtain critical information on drilling hazards in ooze sediments. Further, the well should provide an optimal seismic tie to the subsurface and to understand the seismic response to the rock properties and fluid fill.

Operations and results

Wildcat well 6305/5-1 was spudded with the semi-submersible installation "Ocean Alliance" on 27 July 1997 and drilled to a total depth of 3053 m in the Nise Formation. The well was drilled water based with KCl brine down to 1544 m and with KCL polymer mud from 1544 m to TD. No problems were experienced in the ooze sediment. Normal pressure was observed through the Brygge Formation. Hole stability problems were experienced in the lower part of the Hordaland Group from 2090 m down to top Tare Formation ("the green shale"). The well proved gas in the "Egga Member" sand, which made it the discovery well for the gigantic Ormen Lange gas discovery. Geochemical analyses of the gas show 95% methane. No potential reservoir sandstone was encountered in the Tare Formation, penetrated at 2327 m. Reservoir sand was encountered in the "Egga Member" of the Tang Formation, penetrated at 2718 m and in the Springar Formation, penetrated at 2780 m. The upper part of the "Egga Member", from 2718 m to 2771 m, consist of a blocky sand. The lower part of the "Egga Member", from 2771 m to 2780 m consists of interbedded sands and mudstone. The upper part of the Springar Formation consists of interbedded sands and mudstones, with a thickening and upwards trend. Six cores were cut through the Tang Formation from 2730 m to 2840.5 m. Five MDT gas samples were taken in the Egga member reservoir sands from 2747 to 2789.1 m. The well was temporarily plugged and abandoned as a gas discovery on 7 October 1997.

Testing

No DST was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1550.00	3055.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2730.0	2748.6	[m]
2	2749.0	2767.0	[m]
3	2767.5	2771.8	[m]
4	2771.8	2783.9	[m]
5	2785.0	2791.9	[m]
6	2792.0	2816.3	[m]

Total kjerneprøve lengde [m]	84.2
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2730-2735m



2735-2740m



2740-2745m



2745-2748m



2749-2754m



2754-2759m



2759-2764m



2764-2767m



2767-2771m



2771-2776m



2776-2781m



2781-2783m



2785-2790m



2790-2792m



2792-2797m



2797-2802m



2802-2807m



2807-2812m



2812-2816m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
0.2	[m]	DC	OD
1550.0	[m]	DC	OD
1560.0	[m]	DC	OD
1570.0	[m]	DC	OD
1574.0	[m]	SWC	RRI
1580.0	[m]	DC	OD
1586.0	[m]	SWC	RRI
1590.0	[m]	DC	OD
1599.0	[m]	SWC	RRI
1600.0	[m]	DC	OD
1610.0	[m]	DC	OD
1611.0	[m]	SWC	RRI
1620.0	[m]	DC	OD
1630.0	[m]	DC	OD
1631.0	[m]	SWC	RRI
1640.0	[m]	DC	OD
1641.0	[m]	SWC	RRI
1650.0	[m]	DC	OD
1654.0	[m]	SWC	RRI
1659.0	[m]	SWC	RRI
1660.0	[m]	DC	OD
1666.0	[m]	SWC	RRI
1670.0	[m]	DC	OD
1676.0	[m]	SWC	RRI
1680.0	[m]	DC	OD
1687.0	[m]	SWC	RRI
1690.0	[m]	DC	OD
1696.0	[m]	SWC	RRI
1700.0	[m]	DC	OD



1706.0 [m]	SWC	RRI
1710.0 [m]	DC	OD
1716.0 [m]	SWC	RRI
1720.0 [m]	DC	OD
1728.0 [m]	SWC	RRI
1730.0 [m]	DC	OD
1733.0 [m]	SWC	RRI
1736.0 [m]	SWC	RRI
1740.0 [m]	DC	OD
1746.0 [m]	SWC	RRI
1750.0 [m]	DC	OD
1756.0 [m]	SWC	RRI
1760.0 [m]	DC	OD
1766.0 [m]	SWC	RRI
1770.0 [m]	DC	OD
1780.0 [m]	DC	OD
1781.0 [m]	SWC	RRI
1790.0 [m]	DC	OD
1799.0 [m]	SWC	RRI
1800.0 [m]	DC	OD
1810.0 [m]	DC	OD
1814.0 [m]	SWC	RRI
1820.0 [m]	DC	OD
1828.0 [m]	SWC	RRI
1830.0 [m]	DC	OD
1840.0 [m]	DC	OD
1841.0 [m]	SWC	RRI
1846.0 [m]	SWC	RRI
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1880.0 [m]	DC	OD
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1910.0 [m]	DC	OD
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1920.0 [m]	SWC	RRI
1930.0 [m]	DC	OD



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2016.0	[m]	SWC	RRI
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2131.0	[m]	SWC	RRI



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2330.0	[m]	DC	OD



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2590.0	[m]	DC	OD
2600.0	[m]	DC	OD
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2670.0	[m]	DC	OD
2680.0	[m]	DC	OD
2690.0	[m]	DC	OD
2700.0	[m]	DC	OD
2700.0	[m]	DC	RRI
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2710.0	[m]	DC	RRI
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2732.0	[m]	C	RRI
2733.0	[m]	C	RRI
2734.0	[m]	C	RRI
2735.0	[m]	C	RRI
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2744.0	[m]	C	RRI
2745.0	[m]	C	RRI
2745.8	[m]	C	OD
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2751.6	[m]	C	OD
2754.0	[m]	C	RRI
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2764.0	[m]	C	RRI



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 10.5.2024 - 12:43

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2768.5 [m]	C	OD
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2783.0 [m]	C	RRI
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2786.5 [m]	C	OD
2788.0 [m]	C	RRI
2789.2 [m]	C	OD
2789.5 [m]	C	OD
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2794.0 [m]	C	RRI
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2798.0 [m]	C	RRI
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2802.0 [m]	C	RRI
2804.0 [m]	C	RRI
2806.0 [m]	C	RRI
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2825.0 [m]	DC	RRI



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 10.5.2024 - 12:43

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2845.0	[m]	DC	RRI
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2865.0	[m]	DC	OD
2875.0	[m]	DC	OD
2885.0	[m]	DC	OD
2895.0	[m]	DC	OD
2900.0	[m]	DC	RRI
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2915.0	[m]	DC	OD
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3035.0	[m]	DC	OD



3040.0	[m]	DC	RRI
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3045.0	[m]	DC	RRI
3050.0	[m]	DC	RRI
3055.0	[m]	DC	RRI
3055.0	[m]	DC	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
914	NORDLAND GP
914	NAUST FM
1642	KAI FM
1664	HORDALAND GP
1664	BRYGGE FM
2327	ROGALAND GP
2327	TARE FM
2446	TANG FM
2718	EGGA FM (INFORMAL)
2780	SHETLAND GP
2780	SPRINGAR FM
2848	NISE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3144	pdf	0.36

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
3144_1	pdf	1.25
3144_2	pdf	1.32

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
3144_6305_5_1_COMPLETION_REPORT	pdf	18.96

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	2130	2697
CBL VDL GR ACTS	1400	2055
CMR/GR/ACTS	2736	2860
CST GR ACTS	1574	2141
CST GR ACTS	2835	2985
DLL MSFL SDT LDT CNT	1933	2286
FMI DSI NGT ACTS	2137	2303
FMI DSI NGT ACTS	2670	3040
HALS TLD HGNS DSI GP	1513	2143
HALS TLD HGNS GPIT	1933	3040
HALS TLD HGNS GPIT	2137	2303
MDT GR ACTS	2731	2890
MDT GR ACTS	2747	2764
MDT GR ACTS	2770	2790
MDT GR ACTS	2793	2793
MDT/GR/ACTS	2727	2848
MWD GR RES DIR	915	3053
VSP GR	1670	2995

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
CONDUCTOR	30	994.5	36	996.0	0.00	LOT
SURF.COND.	20	1536.0	26	1544.0	1.44	LOT
INTERM.	13 3/8	2137.0	17 1/2	2156.0	1.59	LOT
INTERM.	9 5/8	2726.0	12 1/4	2730.0	0.00	LOT
LINER	7	3053.0	8 1/2	3053.0	0.00	LOT

Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
996	1.20			KCL Brine	30.07.1997
1000	1.06			Spud	27.07.1997
1544	1.20	13.0	15.0	KCL Brine	06.08.1997
1544	1.17	9.0	6.5	KCL Polymer	14.08.1997
1681	1.30	16.0	13.5	KCL Polymer	17.08.1997
2150	1.30	20.0	20.0	KCL Polymer	22.08.1997
2160	1.26	13.0	12.0	KCL Polymer	24.08.1997
3053	1.26	17.0	16.5	KCL Polymer	07.09.1997

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
2350.00	[m]
2789.05	[m]
2736.90	[m]

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
3144 Formation pressure (Formasjonstrykk)	PDF	0.28

