



Generell informasjon

Brønnbane navn	6305/1-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6305/1-1
Seismisk lokalisering	NH 9602- INLINE 2016 & X-LINE 6916
Utvinningstillatelse	209
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	935-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	91
Borestart	18.08.1998
Boreslutt	19.11.1998
Frigitt dato	19.11.2000
Publiseringsdato	18.12.2002
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	839.5
Totalt målt dybde (MD) [m RKB]	4560.0
Totalt vertikalt dybde (TVD) [m RKB]	4546.0
Temperatur ved bunn av brønnbanen [°C]	141
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	LYSING FM
Geodetisk datum	ED50
NS grader	63° 46' 59.72" N
ØV grader	5° 16' 19.57" E
NS UTM [m]	7075028.48
ØV UTM [m]	611981.31
UTM sone	31
NPDID for brønnbanen	3555



Brønnhistorie

General

Well 6305/1-1 is located in the northern part of the Ormen Lange Dome and was the third well drilled on the Ormen Lange Structure, following the two successful wells 6305/5-1 drilled by Hydro in 1997 and 6305/7-1 drilled by BP in 1998. The Egga sand in the Tang Formation was the main target for the well. The sand was predicted to contain gas. The Tare and Lysing Formations were considered as secondary and third target levels, respectively.

Operations and results

Wildcat well 6305/1-1 was spudded in a water depth of 863 m on 18 August 1998 with the semi-submersible installation "Transocean Leader" and drilled to a total depth of 4565 m (4551 m TVD) in Late Cretaceous sediments of the Lysing Formation. Well 6305/1-1 was drilled to 2560 m where hole problems made it necessary to plug the well back and perform a technical, sidetrack from 2467 m. The well was drilled with spud mud down to 1610 m and with "Aquacol" KCl/Polymer mud from 1610 to TD. The Egga Member of the Tang Formation and thin sandstones in the Springar Formation were proven in cores from 2558-2623,5 m. Egga sand was encountered even though the reservoir quality was poorer than prognosed. No moveable hydrocarbons were encountered in well 6305/1-1, but weak residual shows were reported in almost the entire Cretaceous section. The Egga sand in well 6305/1-1 proved to be over pressured compared to wells 6305/5-1 and 6305/7-1. Even though some sand was reported from the mud geologist at the predicted intra Tare level this was not considered as a reservoir sand. At Lysing level some thin sandstone layers were encountered, but not considered as a reservoir. Five cores were cut in the well. Four were cut in the Tang and Springar Formations in the interval 2556 m to 2628 m. Recovery for these varied from 10 % to 95 %. The fifth core was cut in the upper part of the Lysing Formation in the interval 3646 m to 3670.5 m. Recovery for this core was 97 %. An MDT fluid sample was taken at 2567.7 m. It contained formation water. The well was permanently plugged and abandoned as a dry well on 19 November 1998.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1620.00	4555.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2556.0	2573.2	[m]
2	2574.0	2582.2	[m]
3	2601.0	2601.9	[m]
4	2610.0	2623.2	[m]
5	3643.0	3669.6	[m]

Total kjerneprøve lengde [m]	66.0
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2556-2561m



2561-2566m



2566-2571m



2571-2573m



2574-2579m



2579-2582m



2601-2602m



2610-2615m



2615-2620m



2620-2623m



3643-3648m



3648-3653m



3653-3658m



3658-3663m



3663-3668m



3668-3670m



Palynologiske preparater i Søkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1630.0	[m]	DC	RRI
1649.0	[m]	SWC	RRI
1660.0	[m]	DC	RRI
1667.5	[m]	SWC	RRI
1690.0	[m]	DC	RRI
1715.0	[m]	SWC	RRI
1720.0	[m]	DC	RRI
1730.0	[m]	DC	RRI
1739.0	[m]	SWC	RRI
1753.0	[m]	SWC	RRI
1778.0	[m]	SWC	RRI
1793.0	[m]	SWC	RRI
1813.0	[m]	SWC	RRI
1850.0	[m]	DC	RRI
1879.0	[m]	SWC	RRI
1880.0	[m]	DC	RRI
1912.0	[m]	SWC	RRI
1935.0	[m]	SWC	RRI
1948.0	[m]	SWC	RRI
1956.0	[m]	SWC	RRI
1965.0	[m]	SWC	RRI
1977.0	[m]	SWC	RRI
1990.0	[m]	DC	RRI
2008.0	[m]	SWC	RRI
2015.0	[m]	SWC	RRI
2024.0	[m]	SWC	RRI
2053.0	[m]	SWC	RRI
2060.0	[m]	SWC	RRI
2071.5	[m]	SWC	RRI
2078.0	[m]	SWC	RRI
2087.0	[m]	SWC	RRI
2103.0	[m]	SWC	RRI
2112.0	[m]	SWC	RRI
2117.0	[m]	SWC	RRI
2142.0	[m]	SWC	RRI
2149.0	[m]	SWC	RRI



2165.0 [m]	SWC	RRI
2198.0 [m]	SWC	RRI
2208.0 [m]	SWC	RRI
2225.0 [m]	SWC	RRI
2235.0 [m]	SWC	RRI
2470.0 [m]	DC	RRI
2500.0 [m]	DC	RRI
2525.0 [m]	DC	RRI
2535.0 [m]	DC	RRI
2540.0 [m]	DC	RRI
2542.0 [m]	DC	RRI
2545.0 [m]	DC	RRI
2547.0 [m]	DC	RRI
2552.0 [m]	DC	RRI
2650.0 [m]	DC	RRI
2675.0 [m]	DC	RRI
2690.0 [m]	DC	RRI
2705.0 [m]	DC	RRI
2715.0 [m]	DC	RRI
2725.0 [m]	DC	RRI
2730.0 [m]	DC	RRI
2770.0 [m]	DC	RRI
2820.0 [m]	DC	RRI

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
863	NORDLAND GP
863	NAUST FM
1734	KAI FM
1740	HORDALAND GP
1740	BRYGGE FM
2172	ROGALAND GP
2172	TARE FM
2355	TANG FM
2558	EGGA FM (INFORMAL)
2606	SHETLAND GP
2606	SPRINGAR FM
2827	NISE FM



3048	KVITNOS FM
3640	CROMER KNOLL GP
3640	LYSING FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3555	pdf	0.57

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3555 6305 1 1 COMPLETION REPORT	.pdf	182.80
3555 6305 1 1 T2 COMPLETION REPORT	.pdf	6.65

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR GR	2540	2645
CST GR	2432	4550
CST GR AMS	1628	2235
DSI FMI CAL	1900	2544
FMI HNGS AMS	2414	3011
HALS TLD HGNS DSI GPIT AMS	839	2235
HALS TLD HGNS DSI GPIT AMS	2350	4550
MDT GR	2557	2864
MWD-MPRLITE/DPR	863	4560
VSP	1840	4560

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	942.0	36	942.0	0.00	LOT
INTERM.	20	1605.0	26	1605.0	1.47	LOT
INTERM.	13 3/8	2414.0	17 1/2	2414.0	1.63	LOT





INTERM.	9 5/8	3004.0	12 1/4	3004.0	1.68	LOT
OPEN HOLE		4560.0	8 1/2	4560.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
889	1.10			WATER BASED	
945	1.10			WATER BASED	
946	1.20			WATER BASED	
1600	1.38	18.0		WATER BASED	
1610	1.20			WATER BASED	
1615	1.32	16.0		WATER BASED	
2415	0.00	15.0		WATER BASED	
2418	1.30	17.0		WATER BASED	
2556	1.45	24.0		WATER BASED	
2561	1.42	17.0		WATER BASED	
2685	1.45	20.0		WATER BASED	
2900	1.46	21.0		WATER BASED	
2950	1.48	24.0		WATER BASED	
3010	1.50	25.0		WATER BASED	
3372	1.47	19.0		WATER BASED	
4313	1.47	22.0		WATER BASED	
4438	1.47	18.0		WATER BASED	
4560	1.47	21.0		WATER BASED	

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 brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
3555 Formation pressure (Formasjonstrykk)	PDF	0.27

