



Generell informasjon





Brønnbane navn	31/4-12
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	31/4-12
Seismisk lokalisering	NH9204:inline 1800 & crossline 1200
Utvinningstillatelse	055
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	1090-L
Boreinnretning	DEEPSEA TRYM
Boredager	37
Borestart	06.02.2005
Boreslutt	14.03.2005
Frigitt dato	14.03.2007
Publiseringsdato	28.02.2008
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	210.0
Totalt målt dybde (MD) [m RKB]	2226.0
Totalt vertikalt dybde (TVD) [m RKB]	2226.0
Maks inklinasjon [°]	3.7
Temperatur ved bunn av brønnbanen [°C]	92
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	FENSFJORD FM
Geodetisk datum	ED50
NS grader	60° 35' 45.4" N
ØV grader	3° 9' 51.96" E
NS UTM [m]	6717952.80
ØV UTM [m]	509006.70
UTM sone	31
NPDID for brønnbanen	5051



Brønnhistorie

General

Wildcat well 31/4-12 is located just east of the Brage Field on the Bjørgvin Arch in the Northern North Sea. The main objective of the well was to prove hydrocarbon volume of economic interest in the Sognefjord formation of the Viking Group within the Idun Prospect in block 31/4. The secondary objective was to investigate the stratigraphic distribution and the reservoir potential of the Fensfjord formation.

Operations and results

Well 31/4-12 was spudded with the semi-submersible installation Deepsea Trym on 6 February 2005 and drilled to TD at 2226 m in late Middle Jurassic sediments of the Fensfjord Formation. The well had 26% downtime due mainly to rough weather and problems with the BOP. Otherwise no significant problems were encountered in the operations. The well was drilled with bentonite mud down to 1184 m and with "Aqua-drill" glycol mud from 1184 m to TD.

Both Draupne Formation sands and Sognefjord Formation sand were penetrated. A total of 20 m of the main reservoir Sognefjord Formation sand was penetrated in the well. Approximately 17 m of this interval was reservoir sand with excellent quality (close to the P10 values simulated in H-risk). The Draupne sands were dated to Kimmeridgian age, while the Sognefjord sand was of Oxfordian age. The lower Fensfjord Formation reservoir sand, penetrated close to TD of the well, was of Late Callovian - Early Oxfordian age. All sands were water bearing, and no shows were observed. The MDT pressure tests showed that the Draupne / Sognefjord reservoir was depleted by approximately 10 bar indicating a common aquifer with a producing reservoir, most likely the Brage Nord Sognefjord reservoir.

The wire line logging programme was reduced as no commercial discovery was made. No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 14 March 2005 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1190.00	2226.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
235	NORDLAND GP
767	UTSIRA FM
895	HORDALAND GP
1719	ROGALAND GP
1719	BALDER FM
1775	SELE FM
1821	LISTA FM
1904	VÅLE FM
1977	SHETLAND GP
1977	JORSALFARE FM
1995	CROMER KNOLL GP
1995	RØDBY FM
2025	ÅSGARD FM
2043	VIKING GP
2043	DRAUPNE FM
2089	SOGNEFJORD FM
2125	HEATHER FM
2172	FENSFJORD FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSI	1778	2221
MDT GR	2081	2215
MWD LWD - DIR	235	308
MWD LWD - DIR GR RES	308	2226
PEX HRLA ECS DSI	2057	2228
VSI GR	1378	2150
VSP	1378	2209

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	308.0	36	308.0	0.00	LOT
SURF.COND.	13 3/8	1178.0	17 1/2	1184.0	1.81	LOT
INTERM.	9 5/8	2056.0	12 1/4	2062.0	1.77	LOT



OPEN HOLE		2226.0	8 1/2	2226.0	0.00	LOT
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Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
310	1.50			WATER BASED	
500	1.54	20.0		WATER BASED	
1184	1.39	19.0		WATER BASED	
1670	1.50	20.0		WATER BASED	
2052	1.20	16.0		WATER BASED	
2226	1.16	16.0		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]
5051 Formation pressure (Formasjonstrykk)	pdf	0.19

