Generell informasjon

Brønnbane navn	36/7-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	36/7-3
Seismisk lokalisering	NH 0069.204/Nh 0069-402
Utvinningstillatelse	153
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	1020-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	26
Borestart	12.12.2001
Boreslutt	06.01.2002
Frigitt dato	06.01.2004
Publiseringsdato	18.03.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	349.0
Totalt målt dybde (MD) [m RKB]	2948.0
Totalt vertikalt dybde (TVD) [m RKB]	2946.8
Maks inklinasjon [°]	2.6
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	HEATHER FM
Geodetisk datum	ED50
NS grader	61° 25' 33.12'' N
ØV grader	4° 2' 59.61'' E
NS UTM [m]	6810837.00
ØV UTM [m]	556023.58
UTM sone	31
NPDID for brønnbanen	4427

Brønnhistorie

General

Well 36/7-3 was drilled to investigate the Hydrocarbon-potential in the Cretaceous on the Hordaplatform northeast of the 35/9-1 Gjøa discovery. The main objective was the C3-E prospect in the Agat formation of the lower Cretaceous. Secondary objectives were the Upper Cretaceous Kyrre formation and the C4 interval with in the Åsgard formation. All objectives were stratigraphic traps.

Operations:

The well was spudded from the semi-submersible rig Transocean Arctic 12 December 2001 and reached TD of 2948 m in the Heather formation 31 December 2001. Rig operations were terminated 7 January 2002.

The well confirmed the reservoir models for all targets: the Agat formation comprised 100m/68m sand gross/net respectively, with average porosity 19%. The Kyrre formation contained two thin sand layers 9 m and 11 m (8.5 m and 7 m net sand) with average porosity 26%, the C4 unit of the Åsgard formation contained a 29 m thick sandstone layer (10 m net sand), with average porosity 15%. None of the three targets contained economical amounts of hydrocarbons - and are regarded as dry. The Kyrre and Agat formation sands were water bearing supposedly due to failure in either up-dip reservoir pinch out or migration concepts. The migration concept is questioned, as there are no signs of migrated hydrocarbons. Analysed samples from inclusions and the mud fraction show only traces of in-situ generated hydrocarbons from terrigenous source rocks.

MWD was run through the whole well. An LWD suite comprising GR, resistivity, density, neutron and sonic was run below 1348m (below 13 3/8? casing)

No wire line logs, VSP or MDT-sampling was collected in the well. No cores or sidewall-cores were cut.

The well was permanently abandoned as a dry well 6 January 2002.

Testing:

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
585.00	2943.00

Borekaks tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
373	NORDLAND GP
602	ROGALAND GP
602	SELE FM
692	NO FORMAL NAME
702	SELE FM
745	NO FORMAL NAME
754	SELE FM
800	LISTA FM
1249	SHETLAND GP
1249	JORSALFARE FM
1304	KYRRE FM
1843	NO FORMAL NAME
1855	KYRRE FM
2264	BLODØKS FM
2290	SVARTE FM
2515	CROMER KNOLL GP
2515	RØDBY FM
2555	AGAT FM
2632	RØDBY FM
2700	ÅSGARD FM
2767	NO FORMAL NAME
2796	ÅSGARD FM
2854	VIKING GP
2854	DRAUPNE FM
2907	HEATHER FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4427	pdf	0.37

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4427_36_7_3_COMLPETION_REPORT	.PDF	5.00

4427_36_7_3_COMPLETION_LOG	.PDF	4.33

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - CDR	577	1355
MWD - CDR ADN ISONIC	1355	2948
MWD - DIR	373	577

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	445.0	36	445.0	0.00	LOT
SURF.COND.	20	572.0	26	577.0	1.39	LOT
INTERM.	13 3/8	1348.0	17 1/2	1355.0	1.52	LOT
INTERM.	9 5/8	2948.0	12 1/2	2948.0	1.55	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
385	1.03			WATER BASED	
388	1.16	17.0		WATER BASED	
445	1.50			WATER BASED	
577	1.50			WATER BASED	
663	1.13	9.0		WATER BASED	
1267	1.16	14.0		WATER BASED	
1330	1.20	13.0		WATER BASED	
2069	1.20	13.0		WATER BASED	
2357	1.16	13.0		WATER BASED	
2823	1.16	18.0		WATER BASED	
2948	1.16	17.0		WATER BASED	