



Generell informasjon

Brønnbane navn	35/1-2 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	35/1-2
Seismisk lokalisering	3D seismic NH06M04 inline 4899 & crossline 2832
Utvinningstillatelse	269
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1319-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	99
Borestart	12.09.2010
Boreslutt	19.12.2010
Frigitt dato	01.04.2012
Publiseringsdato	01.04.2012
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	409.0
Totalt målt dybde (MD) [m RKB]	4202.0
Totalt vertikalt dybde (TVD) [m RKB]	4122.0
Maks inklinasjon [°]	19
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	61° 51' 56.18" N
ØV grader	3° 3' 21.37" E
NS UTM [m]	6859374.43
ØV UTM [m]	502942.83
UTM sone	31
NPDID for brønnbanen	6427



Brønnhistorie

General

Well 35/1-2 S was drilled on the Soleie Graben Prospect on the Tampen Spur between the Knarr and Peon discoveries in the northern North Sea. The main objective was to prove commercial hydrocarbon accumulation in the Early Jurassic Cook Formation. Secondary objectives were to drill through leads in the Paleocene Lista Formation and in the Cretaceous Kyrre Formation. The well commitment was to drill 50 m into the Statfjord Formation.

Operations and results

Drilling was performed with the semi-submersible installation Transocean Leader. A pilot hole 35/1-U-1 was drilled first to check for shallow gas. No gas was seen. The main well was spudded 15 m south-east of the pilot and drilled to TD in 26" section. Casing and conductor were run, but due to a leak in the casing the well was abandoned and re-named 35/1-U-2. Wildcat well 35/1-2 S was spudded 15 m north-east of the abandoned on 12 September 2010 and drilled to TD at 4202 m (4122 m TVD) in the Early Jurassic Statfjord Formation. The Lista Formation was drilled with a 17" hole and opened up to 20" after the wire line logging was performed. Due to interbedded clay and hard limestone layers 8 runs were necessary to under ream the section. The well was drilled with sea water down to 1293 m, with Performadril mud from 1293 m to 2358 m, with XP-07 oil based mud from 2358 m to 3698 m, and with Low ECD-HTHP oil based mud from 3698 m to TD.

The tops in the overburden came in within the given uncertainties. Bigger differences were seen below the BCU. Five meters of Cromer Knoll Group were drilled before the Heather Formation was encountered at 3624 m. The Viking Group was thinner than expected and no Brent Group Equivalent was identified, therefore the Heather was directly in contact with the Drake Formation, which then came in 192 m shallower than prognosed. The Cook Formation came in 30 m shallower than prognosed and was thinner than expected, leading to a 75 m shallower top Statfjord Formation than expected. All the potential reservoirs and leads were dry and no hydrocarbon shows were observed.

Only GR-Resistivity-Density-Neutron-Sonic and sidewall cores were run on wire line. Pressure points were taken while drilling. No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 19 December 2010 and classified as dry.

Testing

No drill stem test was performed.

Borekaks i Sökkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1290.00	4201.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
433	NORDLAND GP
1628	HORDALAND GP
2001	ROGALAND GP
2001	BALDER FM
2049	SELE FM
2062	LISTA FM
2151	VÅLE FM
2155	SHETLAND GP
2155	JORSALFARE FM
2277	KYRRE FM
3608	BLODØKS FM
3618	CROMER KNOLL GP
3618	MIME FM
3624	VIKING GP
3624	HEATHER FM
3638	DUNLIN GP
3638	DRAKE FM
3923	COOK FM
3961	BURTON FM
3983	AMUNDSEN FM
4142	STATFJORD GP

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
EMS EDTC GR LEHQT 6-ARM-CAL	1275	2067
GPIT EMS EDTC GR LEHQT 6- ARM-CAL	1275	1751
MSCT	3926	4171
MWD LWD - ARCVRES PP	532	2355
MWD LWD - ARCVRES6 STET TELE	3695	4202



MWD LWD - ARCVRES8 PP STET PD G	2304	3695
MWD LWD - POWERPULSE	432	532
PEX DSI AIT	2304	2869
PEX DSI AIT	3594	4202
PEX HRLA DSI GR	1276	2330
PWX DSI AIT	2849	3695
VSP	567	2325

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	528.0	36	532.0	0.00	LOT
SURF.COND.	20	1276.0	26	1293.0	1.60	LOT
INTERM.	16	2304.0	20	2358.0	1.81	LOT
INTERM.	14	2849.0	17 1/2	2875.0	1.85	LOT
LINER	9 7/8	3694.0	12 1/4	3698.0	2.06	LOT
OPEN HOLE		4202.0	8 1/2	4202.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1243	1.35	17.0		Spud Mud	
1344	1.45	34.0		Performadril	
1620	1.45	34.0		Performadril	
1776	1.45	23.0		Performadril	
2010	1.45	28.0		Performadril	
2264	1.48	28.0		Performadril	
2317	1.43	28.0		XP-07 - #14	
2335	1.45	23.0		Performadril	
2346	1.48	36.0		Performadril	
2355	1.45	25.0		Performadril	
2859	1.41	26.0		XP-07 - #14	
2869	1.43	27.0		XP-07 - #14	
2872	1.41	25.0		XP-07 - #14	
3695	1.79	50.0		XP-07 - #14	
3696	1.79	53.0		XP-07 - #14	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 13.5.2024 - 23:36

3698	1.93	39.0		OBM-Low ECD- HTHP	
4202	1.98	34.0		OBM-Low ECD- HTHP	