



Generell informasjon

Brønnbane navn	35/12-3 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	35/12-3
Seismisk lokalisering	MN9201SG9603M06 survey-IL3656-XL2743-3027
Utvinningstillatelse	378
Boreoperatør	Wintershall Norge ASA
Boretillatelse	1333-L
Boreinnretning	SONGA DELTA
Boredager	55
Borestart	24.12.2010
Boreslutt	16.02.2011
Frigitt dato	14.11.2012
Publiseringsdato	14.11.2012
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	352.0
Totalt målt dybde (MD) [m RKB]	2807.0
Totalt vertikalt dybde (TVD) [m RKB]	2758.0
Maks inklinasjon [°]	23
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	ETIVE FM
Geodetisk datum	ED50
NS grader	61° 5' 19.99" N
ØV grader	3° 44' 56.37" E
NS UTM [m]	6773079.85
ØV UTM [m]	540398.01
UTM sone	31
NPDID for brønnbanen	6516

**Brønnhistorie****General**

Well 35/12-3 S was drilled on the Gnatcatcher prospect in license PL 378. The Gnatcatcher prospect is located on the East flank of the Sogn Graben in the Northern North Sea, with a number of nearby fields and discoveries (Grosbeak, Fram East, Fram West, Gjøa, and Troll). The primary objective was to test the hydrocarbon potential in sandstones of the Late Jurassic Sognefjord Formation. Hydrocarbons in sandstones in of the Middle Jurassic Fensfjord Formation and Brent Group were secondary objectives.

Operations and results

Wildcat well 35/12-3 S was spudded with the semi-submersible installation Songa Delta on 24 December 2011 and drilled to TD at 2807 m in the Middle Jurassic Etive Formation. No significant problem was encountered during drilling and logging operations. Sixteen day were spent as WOW after logging at TD before anchors could be pulled and the well abandoned. The well was drilled wit bentonite mud down to 523 m and with Aquacol KCl/polymer mud with 6% glycol from 523 m to TD.

All major stratigraphic units were encountered within their uncertainty. The Draupne Formation was encountered at 2019 m. The Heather Formation was penetrated from 2033 m down to top Brent Group at 2717 m. It consisted of five siltstone/claystone units separated by four major sandstone units: the Sognefjord Formation with sandstone from 2046.5 to 2058.0 m, an upper Fensfjord Formation sandstone from 2165 to 2269 m and a lower Fensfjord Formation from 2340 to 2547 m, and the Krossfjord Formation from 2594 to 2716 m. In the Brent Group, the Ness Formation showed minor sands developed whereas thick sand was encountered in the Etive Formation. All sands were water bearing.

Inconclusive hydrocarbon shows without increased gas values were seen in the Sognefjord Formation sandstone: "very weak dull yellow direct fluorescence and strong slow blue yellow cut fluorescence in the uppermost part of the interval, thereafter no direct fluorescence, slow, occasionally moderate fast, moderate strong blue yellowish blue cut fluorescence. All samples show yellowish white fluorescent residue". Organic geochemical analyses of cores samples from the shows interval gave a hydrocarbon fingerprint that suggested very low maturity, probably derived from organic matter in local Heather Formation siltstone.

Two cores totalling 39 m were cut from 2040.00 m to 2078.5 m in the Heather Formation including the entire Sognefjord Formation sandstone. The core depths and loggers depths were equal. RCI water samples were taken at 2054.5 m in Sognefjord Formation sandstone and at 2453.4 m in the Fensfjord Formation.

The well was permanently abandoned on 16 February as a dry well.

Testing

No drill stem test was performed.

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Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
530.00	2806.50

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2040.0	2059.7	[m]
2	2062.0	2080.0	[m]

Total kjerneprøve lengde [m]	37.6
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
381	NORDLAND GP
548	UTSIRA FM
570	HORDALAND GP
1120	ROGALAND GP
1120	BALDER FM
1169	SELE FM
1239	LISTA FM
1638	VÅLE FM
1747	SHETLAND GP
1747	JORSALFARE FM
1792	KYRRE FM
1842	TRYGGVASON FM
1923	BLODØKS FM
1930	SVARTE FM
1980	CROMER KNOLL GP
1980	RØDBY FM
2019	VIKING GP



2019	DRAUPNE FM
2033	HEATHER FM
2046	SOGNEFJORD FM
2164	FENSFJORD FM
2269	HEATHER FM
2340	FENSFJORD FM
2594	KROSSEFJORD FM
2716	BRENT GP
2716	NESS FM
2748	ETIVE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - DI	381	523
MWD - GR RES DI PWD	381	523
MWD - GR RES DI PWD DEN NEU CAL	1150	1894
MWD - GR RES DI PWD SON	523	1150
MWD - RAB GR RES DI PWD	1894	2040
MWD - RAB GR RES DI PWD DEN NEU	1981	2807
RCI	2050	2783
STAR	1886	2775
VSP	1140	2780

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	437.0	36	437.0	0.00	LOT
SURF.COND.	20	521.0	26	523.0	0.00	LOT
PILOT HOLE		523.0	9 7/8	523.0	0.00	LOT
INTERM.	13 3/8	1144.0	17 1/2	1150.0	0.00	LOT
INTERM.	9 5/8	1886.0	12 1/4	1894.0	0.00	LOT
OPEN HOLE		2807.0	8 1/2	2807.0	0.00	LOT

Boreslam



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 13.5.2024 - 09:59

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
410	1.05			BENTONITE MUD	
500	1.28	16.0		AQUACOL KCL/POLYMER/GLY COL	
523	1.05			BENTONITE MUD	
599	1.17	10.0		AQUACOL KCL/POLYMER/GLY COL	
1150	1.30	13.0		AQUACOL KCL/POLYMER/GLY COL	
1216	1.32	14.0		AQUACOL KCL/POLYMER/GLY COL	
1894	1.32	18.0		AQUACOL KCL/POLYMER/GLY COL	
2062	1.25	19.0		AQUACOL KCL/POLYMER/GLY COL	
2560	1.28	16.0		AQUACOL KCL/POLYMER/GLY COL	
2807	1.28	9.0		AQUACOL KCL/POLYMER/GLY COL	