



Generell informasjon

Brønnbane navn	34/10-49 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GULLFAKS SØR
Funn	34/10-49 S (Alun)
Brønn navn	34/10-49
Seismisk lokalisering	ST9607
Utvinningstillatelse	050
Boreoperatør	Statoil ASA (old)
Boretillatelse	1099-L
Boreinnretning	OCEAN VANGUARD
Boredager	50
Borestart	20.03.2006
Boreslutt	08.05.2006
Frigitt dato	08.05.2008
Publiseringsdato	18.12.2008
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	STATFJORD GP
Avstand, boredekk - midlere havflate [m]	21.5
Vanndybde ved midlere havflate [m]	138.0
Totalt målt dybde (MD) [m RKB]	4563.0
Totalt vertikalt dybde (TVD) [m RKB]	3159.0
Maks inklinasjon [°]	72
Temperatur ved bunn av brønnbanen [°C]	105



Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	AMUNDSEN FM
Geodetisk datum	ED50
NS grader	61° 7' 45.06" N
ØV grader	2° 5' 26.13" E
NS UTM [m]	6777677.93
ØV UTM [m]	451012.40
UTM sone	31
NPDID for brønnbanen	5140

Brønnhistorie

General

Well 34/10-49 S was drilled on a prospect located ca 10 km south-west of the Gullfaks Field in the northern North Sea. The objective of the well was to explore the oil and gas potential in sandstones of Early and Middle Jurassic age. The Brent Group Epidot and the Statfjord Formation Alun prospects were primary targets, while a downfaulted section of the Statfjord Formation, the Spinell prospect was secondary target. The well was the first of three well paths from the 34/10-49 location to explore five different targets.

Operations and results

Wildcat well 34/10-49 S was spudded with the semi-submersible installation Ocean Vanguard on 20 March 2006 and drilled deviated to 4126 m (3079 m TVD RKB) in the Early Jurassic Statfjord Formation. It was drilled vertical down to the 20" casing at 1045.4 m. The inclination increased up to ca 68 deg at top Amundsen Formation and was kept roughly at that inclination down to TD.

The first well bore penetrated the Cretaceous (Shetland Group) at 1972 m with no reservoir or hydrocarbons. The Brent Group, Ness Formation came in at 2497 m (2390 m TVD RKB) with oil-filled sandstones down to 2607 m (2470 m TVD RKB) in the Rannoch Formation. The Statfjord Group came in at 3280 m (2785 m TVD RKB) with oil-filled sandstones down to an OWC at ca 3426 m (2834 m TVD RKB).

The sidetrack penetrated the oil-bearing Statfjord Group sandstones from 3405 m (2740.4 m TVD RKB) to 3480 m (2750.1 m TVD RKB). Otherwise no hydrocarbons were detected in the well bore.

No cores were cut. Wire line fluid samples were taken at 2513 m in the Ness Formation (oil), 2583.5 and 2613 m in Rannoch Formation sandstones (oil), 2624.5 m in Rannoch Formation siltstone (water), 3306 and 3384 m in the Statfjord Formation (oil), and 3425.5 and 3447.5 m in the Statfjord Formation (water).

The well bore was suspended on 8 May 2006 as an oil discovery.

Testing

No drill stem test was performed.

Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
160	NORDLAND GP
974	UTSIRA FM
985	HORDALAND GP
1093	NO FORMAL NAME
1568	NO FORMAL NAME
1738	NO FORMAL NAME
1750	NO FORMAL NAME
1792	ROGALAND GP
1792	BALDER FM
1872	LISTA FM
1972	SHETLAND GP
2488	VIKING GP
2488	HEATHER FM
2497	BRENT GP
2497	NESS FM
2530	ETIVE FM
2557	RANNOCH FM
2627	DUNLIN GP
2627	DRAKE FM
2740	COOK FM
2925	BURTON FM
2980	AMUNDSEN FM
3278	STATFJORD GP
4022	AMUNDSEN FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
PEX MDT GR	2440	3843

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	208.0	36	208.0	0.00	LOT
SURF.COND.	20	1045.0	26	1046.0	1.56	LOT
INTERM.	13 3/8	2019.0	17 1/2	2020.0	1.82	LOT



OPEN HOLE		4655.0	12 1/4	4655.0	0.00	LOT
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Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
672	1.03			SW / POLYMER 2	
1050	1.03			SW / POLYMER 2	
1220	1.38	25.0		PARATHERM	
1482	1.39	29.0		PARATHERM	
1745	1.39	26.0		PARATHERM	
2026	1.39	30.0		PARATHERM	
2400	1.62	35.0		PARATHERM	
2511	1.60	1.0		PARATHERM	
2746	1.60	29.0		PARATHERM	
2785	1.60	39.0		PARATHERM	
3196	1.60	29.0		PARATHERM	

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]
5140_Formalion_pressure_(Formasjonstrykk)	pdf	0.23

