



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 17:51

Brønnbane navn	16/1-6 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	16/1-6 S (Verdandi)
Brønn navn	16/1-6
Seismisk lokalisering	SNST3D-inline4379 & crossline5037
Utvinningstillatelse	167
Boreoperatør	Statoil ASA (old)
Boretillatelse	1066-L
Boreinnretning	BORGLAND DOLPHIN
Boredager	14
Borestart	08.06.2003
Boreslutt	21.06.2003
Frigitt dato	21.06.2005
Publiseringsdato	21.06.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	112.0
Totalt målt dybde (MD) [m RKB]	2194.0
Totalt vertikalt dybde (TVD) [m RKB]	2024.0
Maks inklinasjon [°]	40.5
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	TOR FM
Geodetisk datum	ED50
NS grader	58° 59' 27.95" N
ØV grader	2° 17' 43.07" E
NS UTM [m]	6539424.89
ØV UTM [m]	459501.21
UTM sone	31
NPDID for brønnbanen	4767



Brønnhistorie

General

Well 16/1-6 A is a sidetrack to the 16/1-6 S discovery on the Utsira High in the North Sea. The objective of well 16/1-6A was to penetrate the Heimdal Formation down flank, where a flat event had been mapped, in order to appraise the extent of the gas discovery and possibly penetrate a hydrocarbon - water contact.

Operations and results

Appraisal well 16/1-6 A was spudded with the semi-submersible installation Borgland Dolphin on 8 June 2003. The well was kicked off at 1215 m in 16/1-6 S and drilled to TD at 2194 m in the Late Cretaceous Tor Formation. It was drilled with oil-based mud (Novatec) from kick-off to TD.

Grid sands were penetrated from 1529.5 m (1480.5 m TVD MSL) to 1757 m (m TVD MSL). The Heimdal Formation came in at 2006.5 m (1850.5 m TVD MSL), which was considerably deeper than expected. The Heimdal Formation was also thinner than expected. Wire line and MWD logs showed relatively high resistivity readings combined with high porosity within the uppermost 2 ? 3 m of the Grid sandstone, but no conclusions regarding the presence of hydrocarbons could be drawn from these weak indications. Weak shows in the Heimdal Formation were considered to be residual only. From logs both the Grid and the Heimdal sandstones were concluded to be water wet. One core was attempted in the Grid Formation, but junk in the hole prevented the core from entering the core barrel, hence no recovery. MWD log data were collected from the whole well track, while the majority of the wire line logging, including MDT and VSP, had to be abandoned due to tight, partly collapsed hole.

The well was permanently abandoned on 21 June 2003 as a dry hole.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1220.00	2190.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
143	NORDLAND GP
722	UTSIRA FM
783	NO FORMAL NAME
830	HORDALAND GP



866	SKADE FM
1154	NO FORMAL NAME
1530	GRID FM
1553	NO FORMAL NAME
1629	GRID FM
1638	NO FORMAL NAME
1742	GRID FM
1757	NO FORMAL NAME
1876	ROGALAND GP
1876	BALDER FM
1914	SELE FM
1952	LISTA FM
2007	HEIMDAL FM
2056	LISTA FM
2123	VÅLE FM
2163	SHETLAND GP
2163	EKOFISK FM
2181	TOR FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4767	pdf	0.18

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4767_16_1_6_A_COMPLETION_LOG	.pdf	0.68
4767_16_1_6_A_COMPLETION_REPORT	.PDF	10.94

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MDT GR	1750	1750
MWD - AUTOTRACK MPR	1149	2194
PEX AIT DSI	1190	1730





VSP GR	0	0
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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	203.0	36	203.0	0.00	LOT
SURF.COND.	20	546.0	26	546.0	1.82	LOT
INTERM.	13 3/8	1197.0	17 1/2	1197.0	1.60	LOT
OPEN HOLE		2194.0	8 1/2	2194.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
1480	1.45	20.0		NOVATEC 55	
1698	1.45	17.0		NOVATEC 55	
1867	1.45	20.0		NOVATEC 55	