



Generell informasjon





Brønnbane navn	35/8-4
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	35/8-4
Seismisk lokalisering	BPA 9301 SD:IL 4035.XL 5522
Utvinningstillatelse	195
Boreoperatør	BP Norway Limited U.A.
Boretillatelse	959-L
Boreinnretning	WEST ALPHA
Boredager	38
Borestart	04.07.1999
Boreslutt	10.08.1999
Frigitt dato	10.08.2001
Publiseringsdato	29.05.2002
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	376.0
Totalt målt dybde (MD) [m RKB]	3719.0
Totalt vertikalt dybde (TVD) [m RKB]	3718.0
Maks inklinasjon [°]	3.1
Temperatur ved bunn av brønnbanen [°C]	89
Eldste penetrerte alder	LATE JURASSIC
Eldste penetrerte formasjon	SOGNEFJORD FM
Geodetisk datum	ED50
NS grader	61° 21' 32.95" N
ØV grader	3° 30' 20.41" E
NS UTM [m]	6803059.28
ØV UTM [m]	527041.39
UTM sone	31
NPDID for brønnbanen	3791



Brønnhistorie

General

The main objective of well 35/8-4 was to test the stratigraphic upside model of the Upper Jurassic Aurora prospect. The well was targeted at Upper Jurassic marine gravity flow sandstone of the Sognefjord Formation.

Operations and results

Exploration well was spudded on 4 July 1999 by the semi-submersible installation "West Alpha" and drilled to a total depth of 3719 in the Late Jurassic Sognefjord Formation. The well was drilled with seawater and high viscosity bentonite pills through the 36" and 26" hole to 910 m. A water based BARASILC/KCl system was used from 910 m to 3356 m. From 3356 m to TD BARASILC was depleted naturally by replacing with a water based KCl Glycol Enhanced Mud (GEM).

Top reservoir was penetrated at 3639 m. The top reservoir pick was based on a shift in MWD gamma response combined with a small increase in gas and the appearance of sand in the cuttings. Shows were seen in drilled cuttings from depth 3512 m to TD. The best shows were seen in the Draupne Formation and upper part of the Heather Formation. There was no visible stain. Poor shows from cuttings were seen in the lower part of the Heather Formations and the Sognefjord Formation. LWD logs were acquired throughout the well. Data quality was very good and of sufficient quality to replace wireline logging for petrophysical data. Thirty-one attempts to acquire MDT pressure data were made in the reservoir section but the formation was too tight to obtain more than one good and two fairly good pressure readings, and one MDT sample. The pressure data indicated that the Sognefjord Formation is in a different pressure regime and over pressured compared to the nearest well 35/8-3. There were insufficient pressure points of good quality to define a fluid gradient.

Shows in cuttings, gas data, LWD logs and an MDT sample from 3705.2 m confirmed a dry hole with minor gas and oil shows. The reservoir quality and the net to gross in the Sognefjord Formation were poorer than predicted. No cores were cut. The well was plugged and abandoned as a dry hole with minor gas and oil shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
920.00	3488.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
394	NORDLAND GP
815	HORDALAND GP
1528	ROGALAND GP
1528	BALDER FM
1579	LISTA FM
1717	NO FORMAL NAME
1793	VÅLE FM
1810	SHETLAND GP
1810	JORSALFARE FM
1973	KYRRE FM
3200	BLODØKS FM
3206	SVARTE FM
3213	CROMER KNOLL GP
3213	RØDBY FM
3301	ÅSGARD FM
3465	VIKING GP
3465	DRAUPNE FM
3591	HEATHER FM
3639	SOGNEFJORD FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3791	pdf	0.36

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
3791_1	pdf	0.91

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
3791_35_8_4_COMPLETION_DRILLING_REPO RT	.PDF	37.80
3791_35_8_4_COMPLETION_LOG	.pdf	3.49
3791_35_8_4_COMPLETION_REPORT	.pdf	37.05

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DIR	79	473
DIR CDR PWD	910	3356
DIR CDR PWD RAB ADN	3356	3719
MDT GR	376	3708

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	464.0	36	465.0	0.00	LOT
INTERM.	20	898.0	26	915.0	1.41	LOT
INTERM.	13 3/8	2008.0	17 1/2	2014.0	1.55	LOT
INTERM.	9 5/8	3340.0	12 1/4	3360.0	1.93	LOT
OPEN HOLE		3719.0	8 1/2	3719.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
473	1.09	1.0		SPUD MUD	
910	1.29	38.0		BARASILC	
1402	1.31	34.0		BARASILC	
1838	1.32	33.0		BARASILC	
1858	1.33	36.0		BARASILC	
2017	0.00	31.0		BARASILC	

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]
3791 Formation pressure (Formasjonstrykk)	pdf	0.21

