



Generell informasjon

Brønnbane navn	30/3-9
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	30/3-9
Brønn navn	30/3-9
Seismisk lokalisering	Crossline 1515- Inline 877 St98M7
Utvinningsstillatelse	052
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	972-L
Boreinnretning	WEST ALPHA
Boredager	69
Borestart	24.04.2000
Boreslutt	01.07.2000
Frigitt dato	01.07.2002
Publiseringsdato	18.12.2002
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	NESS FM
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	123.0
Totalt målt dybde (MD) [m RKB]	4015.0
Totalt vertikalt dybde (TVD) [m RKB]	4010.0
Maks inklinasjon [°]	10.74
Temperatur ved bunn av brønnbanen [°C]	142
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DRAKE FM
Geodetisk datum	ED50
NS grader	60° 47' 34.27" N
ØV grader	2° 41' 43.29" E



NS UTM [m]	6739912.52
ØV UTM [m]	483415.22
UTM sone	31
NPDID for brønnbanen	4053

Brønnhistorie

General

The purpose of well 30/3-9 was to prove minimum economical volumes of hydrocarbons in the Brent Group within the C-prospect, and to possibly identify a down flank hydrocarbon/water contact within the Brent Group. The C-prospect is situated within an easterly dipping terrace, north of the Oseberg platform. The 30/3-9 well was the first well drilled on this structural segment.

Operations and results

Wildcat well 30/3-9 was spudded on 24 April 2000 with the semi-submersible installation "West Alpha" and drilled to a total depth of 4015 m in the Early Jurassic Drake Formation. No shallow gas was encountered. The well was drilled with seawater with hi-vis pills and bentonite mud down to 1027 m, and with KCl/polymer/glycol mud ("Glydril" with 3.5 % glycol) from 1027 m to 2466 m. The well was then displaced to oil based "VersaPro" mud and drilled with this mud through the 12 1/4" section to 3712 m. Circulation was lost at 3644 m and 294 m³ "VersaPro" was lost to the formation. The 8 1/2" section (3712 m to TD) was drilled with KCl/polymer/glycol mud ("Glydril" with 2.5 % glycol). Thin gas-charged stringers were encountered at 2113 m (sandstone in the Lista Formation), 2526 m and 2541 m (limestone in the Jorsalfare Formation). The reservoir of the Brent Group was expected to comprise a complete set of formations. However, only the Ness and Oseberg Formations were conclusively present. The absence of the Tarbert Formation is due to erosion. From the image log (FMI), a fault zone was recognized within the Brent Group in the interval between 3900 m and 3909 m. The absence of the Etive/Rannoch Formations (and possibly, the upper part of the Oseberg Formation) is due to faulting. It is possible that the uppermost 3 m of the 19 m thick lower sand (from 3904 to 3907 m) in the reservoir represents the Etive Formation. However, this is not conclusive and the sands are thus assigned to the Oseberg Formation in this report.

The uppermost sandstone layer in the Ness Formation, from 3815 m to 3819 m, contained gas/condensate. This was confirmed by MDT sampling. The remaining sandstones in Ness/Oseberg Formations were water wet. MDT fluid sampling gave water in the Oseberg Formation (3909.3 m), water in the Ness Formation (3838.5 m), and gas/condensate in the Ness Formation (3816.0 m). One core was cut from 3899 m in the Ness Formation. The core jammed after 1 m. 30/3-9 was permanently abandoned on July 1 2000 as a gas/condensate discovery.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1040.00	4015.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3899.0	3900.0	[m]

Total kjerneprøve lengde [m]	1.0
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3899-3900m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3807.0	[m]	SWC	WESTLB
3807.0	[m]	SWC	WESTLB
3813.0	[m]	SWC	WESTLB
3824.0	[m]	SWC	WESTLB
3925.0	[m]	SWC	WESTLB

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST		0.00	0.00	CONDE NSATE		YES



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
141	NORDLAND GP
747	UTSIRA FM
930	HORDALAND GP
1613	GRID FM
1641	NO FORMAL NAME
1968	ROGALAND GP
1968	BALDER FM
2045	SELE FM
2065	LISTA FM
2228	SHETLAND GP
2228	JORSALFARE FM
2550	KYRRE FM
3236	TRYGGVASON FM
3460	BLODØKS FM
3469	SVARTE FM
3619	CROMER KNOLL GP
3619	RØDBY FM
3632	SOLA FM
3637	ÅSGARD FM
3718	VIKING GP
3718	DRAUPNE FM
3735	HEATHER FM
3815	BRENT GP
3815	NESS FM
3904	OSEBERG FM
3923	DUNLIN GP
3923	DRAKE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4053	pdf	0.54





Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4053_1	pdf	1.45

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4053_30_3_9_COMPLETION_LOG	.PDF	64.73
4053_30_3_9_COMPLETION_REPORT	.PDF	52.50

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DITE DSI LDT ACTS GR	2452	3719
DLT MSFL LDT CNT GR	3712	4023
DSI CSI (VSP) GR	1816	3925
DSI LDL LEH QT GR	1020	2459
FMI GR	3687	3949
MDT GR	3809	3919
MSCT GR	3807	3925
MWD - ARC	3712	4015
MWD - CDR	203	3712
VSP	1860	4000

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm ³]	Type formasjonstest
CONDUCTOR	30	201.0	36	201.0	0.00	LOT
INTERM.	20	1019.0	26	1019.0	1.60	LOT
INTERM.	13 3/8	2452.0	17 1/2	2454.0	1.91	LOT
INTERM.	9 5/8	3707.0	12 1/4	3707.0	2.05	LOT
OPEN HOLE		4015.0	8 1/2	4015.0	0.00	LOT





Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
180	1.03			DUMMY	
730	1.60	15.0		GLYDRILL	
737	1.82	22.0		GLYDRILL	
748	1.60	16.0		GLYDRILL	
905	1.82	23.0		GLYDRILL	
950	1.82	25.0		GLYDRILL	
1027	1.20			DUMMY	
1328	1.24	12.0		GLYDRILL	
1879	1.45	18.0		GLYDRILL	
2113	1.60	26.0		GLYDRILL	
2123	1.60	24.0		GLYDRILL	
2159	1.58	19.0		GLYDRILL	
2460	1.60	24.0		GLYDRILL	
2463	1.61	21.0		GLYDRILL	
2542	1.75	50.0		VERSAPRO	
2542	1.78	50.0		VERSAPRO	
2885	1.75	50.0		VERSAPRO	
3438	1.78	51.0		VERSAPRO	
3457	1.78	50.0		VERSAPRO	
3536	1.81	53.0		VERSAPRO	
3707	1.82	48.0		VERSAPRO	
3712	1.82	48.0		VERSAPRO	
3718	1.89	26.0		VERSAPRO	
3808	1.91	31.0		GLYDRILL	
3810	1.91	26.0		GLYDRILL	
3899	1.91	28.0		GLYDRILL	
3909	1.91	32.0		GLYDRILL	
3926	1.91	29.0		GLYDRILL	
3975	1.91	30.0		GLYDRILL	
4015	1.91	28.0		GLYDRILL	

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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.





Dokument navn	Dokument format	Dokument størrelse [KB]
4053 Formation pressure (Formasjonstrykk)	pdf	0.22

