



Generell informasjon

Brønnbane navn	34/10-6
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GULLFAKS
Funn	34/10-1 Gullfaks
Brønn navn	34/10-6
Seismisk lokalisering	ST 37.5 SP 295
Utvinningstillatelse	050
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	231-L
Boreinnretning	BORGNY DOLPHIN
Boredager	71
Borestart	13.11.1979
Boreslutt	22.01.1980
Frigitt dato	22.01.1982
Publiseringsdato	05.12.2012
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	222.5
Totalt målt dybde (MD) [m RKB]	2363.0
Temperatur ved bunn av brønnbanen [°C]	63
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DRAKE FM
Geodetisk datum	ED50
NS grader	61° 14' 37.09" N
ØV grader	2° 13' 43.68" E
NS UTM [m]	6790330.87
ØV UTM [m]	458607.45
UTM sone	31
NPDID for brønnbanen	429



Brønnhistorie

General

Well 34/10-6 was drilled on the northern part of the Delta structure in block 34/10 in the northern North Sea. It was the fifth well drilled on the structure. All four foregoing wells had tested oil in the Brent Group. The primary objective was to test Middle Jurassic Brent Group. Secondary objectives were sandstones of Early Jurassic age.

Operations and results

Appraisal well 34/10-6 was spudded with the semi-submersible installation Borgny Dolphin on 13 November 1979 and drilled to TD at 2362 m. A total of 14.6% of the rig time was lost due to waiting on weather. The other main causes of downtime was technical failure during cementing of the 9 5/8" casing, followed by two squeeze jobs, repair of subsea equipment and lost circulation. The lost circulation was experienced on several occasions when drilling the 8 1/2" hole. The main reason for this was that the 9 5/8" casing (and 13 3/8" casing) were set too high, causing low formation integrity at the casing shoes. The well was drilled with spud mud down to 308 m and with seawater/polymer from 308 m to TD.

The Brent Group sandstones were encountered at 2075 m, about 100 m below the OWC established in the previous wells drilled on the Delta structure. The Brent Group was 215 m thick with 145 m net of good reservoir sands (average porosity = 27.8 %). The Brent Group was water bearing. Oil shows were seen from 1580 m to 1632 m in the Balder Formation, and from 1710 m to 1812 m in the Lista Formation and top Shetland Group, otherwise no evidence of hydrocarbons was seen in the well.

No conventional cores were cut. The RFT tool was run for pressure points, but no wire line fluid samples were taken.

The well was permanently abandoned on 22 January 1980 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
320.00	2362.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet



Prøve dybde	Dybde enhet	Prøve type	Laboratorie
320.0	[m]	DC	RRI
520.0	[m]	DC	RRI
720.0	[m]	DC	RRI
920.0	[m]	DC	RRI
1120.0	[m]	DC	RRI
1220.0	[m]	DC	RRI
1320.0	[m]	DC	RRI
1520.0	[m]	DC	RRI
1711.0	[m]	DC	RRI
1813.0	[m]	DC	RRI
1966.0	[m]	DC	RRI
1990.0	[m]	DC	
1993.0	[m]	DC	
2020.0	[m]	DC	RRI
2068.0	[m]	DC	RRI
2101.0	[m]	DC	RRI

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST		3037.50	0.00		06.04.1991 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
248	NORDLAND GP
946	UTSIRA FM
975	NO FORMAL NAME
1005	HORDALAND GP
1100	NO FORMAL NAME
1155	NO FORMAL NAME
1217	NO FORMAL NAME
1317	NO FORMAL NAME
1347	NO FORMAL NAME
1382	NO FORMAL NAME



1435	NO FORMAL NAME
1455	NO FORMAL NAME
1578	ROGALAND GP
1578	BALDER FM
1638	LISTA FM
1757	SHETLAND GP
1757	JORSALFARE FM
1990	CROMER KNOLL GP
1995	VIKING GP
1995	DRAUPNE FM
1997	HEATHER FM
2075	BRENT GP
2075	TARBERT FM
2105	NESS FM
2165	ETIVE FM
2197	RANNOCH FM
2273	BROOM FM
2290	DUNLIN GP
2290	DRAKE FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
429_GCH_1	pdf	0.43
429_GCH_2	pdf	0.77

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
429_01_WDSS_General_Information	pdf	0.12
429_02_WDSS_completion_log	pdf	0.17

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
429_34_10_6_Palaeontological_Stratigraphical_Final_Report	pdf	2.71





429 34 10 6 Paleontological Study	pdf	0.81
429 34 10 6 Petrophysical Evaluation	pdf	1.47
429 34 10 6 Source Rock Analyses	pdf	0.33

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	500	1805
CBL VDL	1450	1802
CYBERDIP	1803	2361
FDC CNL GR CAL	1801	2362
FDC GR CAL	623	1814
HDT	1802	2363
ISF SON GR SP	222	2362
VELOCITY	475	2355

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	308.0	36	308.5	0.00	LOT
SURF.COND.	20	650.0	26	665.0	1.50	LOT
INTERM.	13 3/8	1558.0	17 1/2	1571.0	1.79	LOT
INTERM.	9 5/8	1802.0	12 1/4	1815.0	2.03	LOT
OPEN HOLE		2363.0	8 1/2	2363.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
283	1.06			waterbased	
950	1.41	41.0		waterbased	
1613	1.50	52.0		waterbased	
1670	1.65	52.0		waterbased	
1818	1.79	56.0		waterbased	
2173	1.76	54.0		waterbased	
2338	1.77	56.0		waterbased	





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]
429 Formation pressure (Formasjonstrykk)	pdf	0.21

