



Generell informasjon

Brønnbane navn	34/10-19
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	34/10-19
Seismisk lokalisering	ST S3D - 206 SP 293
Utvinningstillatelse	050
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	392-L
Boreinnretning	ROSS ISLE
Boredager	63
Borestart	05.10.1983
Boreslutt	06.12.1983
Frigitt dato	06.12.1985
Publiseringsdato	02.12.2014
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	193.0
Totalt målt dybde (MD) [m RKB]	2218.0
Totalt vertikalt dybde (TVD) [m RKB]	2218.0
Maks inklinasjon [°]	3.5
Temperatur ved bunn av brønnbanen [°C]	70
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	HEGRE GP
Geodetisk datum	ED50
NS grader	61° 11' 10.86" N
ØV grader	2° 15' 30.55" E
NS UTM [m]	6783931.44
ØV UTM [m]	460128.36



UTM sone	31
NPDID for brønnbanen	33

Brønnhistorie

General

Well 34/10-19 was drilled to investigate the southern section of the Gullfaks Phase II area. The primary objective was to penetrate the Cook sandstone above the oil water contact at 2118 m seen in well 34/10-9, and to improve the understanding of the reserve distribution in this part of the Gullfaks field. Secondary objective was the Statfjord sandstone.

Operations and results

Appraisal well 34/10-19 was spudded with the semi-submersible installation Ross Isle on 5 October 1983 and drilled to TD at 2218 m in the Triassic Hegre Formation. Shallow gas was encountered in a sand at 332 to 338 m. A 16" liner was required to stop gas flow between 20" and 30" casings. Several drilling breaks occurred in the 12 1/4" hole and lost circulation occurred in the 8 1/2" hole. The well was drilled with gel/seawater down to 8978 m, with gel/seawater/hi-vis pills from 978 m to 1494 m, and with gel/lignosulphonate/lignite mud from 1494 m to TD.

The upper sandstone part of the Cook formation (unit C3 and C2) was missing due to faulting and erosion. The lower Cook C1 unit was penetrated at 1779 m. This unit consists of dominantly claystones and it was water bearing. The sandstones of the Statfjord Formation were water bearing. Trace shows were recorded in the Hordaland Group on claystones from 960 m to 120 m and on claystone and on limestone from 1340 m to 1470 m. Trace to fair shows on siltstone, claystone and minor sandstones were recorded intermittently below 1470 m and down to 1861 m. No trace of hydrocarbons was seen below this depth.

Three cores were cut; one in the interval from 1763 in the Cromer Knoll Group to 1781.3 m in the Cook Formation, and two in the interval 1847 to 1874.8 m in the Jurassic Dunlin Group. No wire line fluid samples were taken.

The well was permanently abandoned on 6 December 1983 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
300.00	2218.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1763.0	1780.7	[m]
2	1847.0	1855.7	[m]
3	1856.5	1874.4	[m]

Total kjerneprøve lengde [m]	44.3
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1763-1767m



1767-1771m



1771-1775m



1775-1779m



1779-1849m



1849-1853m



1853-1857m



1857-1861m



1861-1865m



1865-1869m



1869-1873m



1873-1875m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
215	NORDLAND GP
930	UTSIRA FM



935	HORDALAND GP
1470	ROGALAND GP
1470	BALDER FM
1532	LISTA FM
1660	SHETLAND GP
1776	CROMER KNOLL GP
1779	COOK FM
1830	BURTON FM
1840	AMUNDSEN FM
2005	STATFJORD GP
2188	HEGRE GP

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
33 01 WDSS General Information	pdf	0.18
33 02 WDSS completion log	pdf	0.22

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
33 34 10 19 Completion log	pdf	1.33
33 34 10 19 Completion Report	PDF	30.23
33 34 10 19 Core Analysis Report	pdf	0.55
33 34 10 19 Petrofysisk Evaluering	pdf	1.21
33 34 10 19 Stratigraphical Paleontological	pdf	11.66

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR CCL	215	1690
HDT	1481	1700
ISF BHC GR	1688	1846
ISF BHC MSFL GR	1481	1700
ISF LSS MSFL GR	214	2216
LDL CNL GR	288	2217
MSFL CNL GR	1687	1874





RFT	1777	2185
RFT	1846	1863
SHDT	1680	2216
TEMP	225	953
VELOCITY	215	2216

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	288.0	36	289.5	0.00	LOT
SURF.COND.	20	969.0	26	978.0	1.56	LOT
LINER	16	1073.0	19 3/4	1073.0	1.59	LOT
INTERM.	13 3/8	1483.0	17 1/2	1494.0	1.86	LOT
INTERM.	9 5/8	1689.0	12 1/4	1700.0	2.06	LOT
OPEN HOLE		2218.0	8 1/2	2218.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
310	1.06	53.0		waterbased	
550	1.10	44.0		waterbased	
1050	1.10	42.0		waterbased	
1370	1.30	46.0		waterbased	
1640	1.77	49.0		waterbased	
1940	1.85	58.0		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]
33 Formation pressure (Formasjonstrykk)	pdf	0.21

