



Generell informasjon

Brønnbane navn	34/10-9 R
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	34/10-9
Seismisk lokalisering	3D 163 SP 275
Utvinningstillatelse	050
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	248-L2
Boreinnretning	DEEPSEA SAGA
Boredager	36
Borestart	29.05.1980
Boreslutt	03.07.1980
Plugget og forlatt dato	03.07.1980
Frigitt dato	03.07.1982
Publiseringsdato	15.11.2012
Opprinnelig formål	APPRAISAL
Gjenåpnet	YES
Årsak til gjenåpning	DRILLING/PLUGGING
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	COOK FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	202.0
Totalt målt dybde (MD) [m RKB]	2421.0
Totalt vertikalt dybde (TVD) [m RKB]	2421.0
Maks inklinasjon [°]	4.5



Temperatur ved bunn av brønnbanen [°C]	95
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	61° 12' 55.34" N
ØV grader	2° 15' 0.53" E
NS UTM [m]	6787169.27
ØV UTM [m]	459717.06
UTM sone	31
NPDID for brønnbanen	495

Brønnhistorie

**General**

Well 34/10-9 R is a re-entry of well 34/10-9 on the central part of the Gullfaks Field. Well 34/10-9 drilled to 2200 m in the Early Jurassic Burton Formation and proved oil in the Brent Group and Cook Formation. The objective of the re-entry was to drill further to the Statfjord Formation and to conduct drill stem tests in the Brent Group and Cook Formation.

Operations and results

Appraisal well 34/10-9 was re-entered with the semi-submersible installation Deepsea Saga on 29 May 1980 and drilled from 2200 m to final TD at 2421 m in the Nansen Member of the Early Jurassic Statfjord Formation. Drilling and testing were carried out without any specific problems. The well was drilled with a gel/lignosulphonate mud system from 2200 m to TD.

The Statfjord Formation proved to be water bearing.

Two cores were cut from 2400 m to 2405.5 m in the Nansen Member of the Statfjord Formation with 74% total recovery. No wire line fluid samples were taken.

The well was permanently abandoned 3 July 1980 as an oil appraisal well.

Testing

Three drill stem tests were performed in the re-entry.

DST 1 tested the interval 2103 to 2109 m in the Cook Formation. The well produced 34.2 API oil at unstable conditions. The average flow rate on a 20/64" choke was 42 Sm³/day with a GOR of 69 Sm³/Sm³ and traces of water. The maximum temperature recorded down hole at the gauge was 84.4 deg C.

DST 2 tested the interval 2084 m to 2090 m in the Cook Formation. The test was aborted due to sand plugging and a new test, DST 2A, was conducted from the same interval after changing the initial sandscreen with perforated tubing. DST 2A produced 35.6 API oil at stable conditions. The flow rate on a 32/64" choke was 756 Sm³/day with a GOR of 65 Sm³/Sm³ and with no water. The maximum temperature recorded down hole at the gauge was 83.3 deg C.

DST 3 tested the interval 1904 to 1910 m in the Rannoch Formation. The well produced 32 API oil at stable conditions. The average flow rate on a 32/64" choke was 727 Sm³/day with a GOR of 62 Sm³/Sm³ and no water. The maximum temperature recorded down hole at the gauge was 76.8 deg C.

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2400.0	2400.4	[m]
2	2400.5	2404.2	[m]

Total kjerneprøve lengde [m]	4.1
Kjerner tilgjengelig for prøvetaking?	YES



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
227	NORDLAND GP
946	UTSIRA FM
990	HORDALAND GP
1163	NO FORMAL NAME
1362	NO FORMAL NAME
1510	ROGALAND GP
1510	BALDER FM
1575	LISTA FM
1696	SHETLAND GP
1696	JORSALFARE FM
1767	KYRRE FM
1833	BRENT GP
1833	NESS FM
1836	ETIVE FM
1867	RANNOCH FM
1945	BROOM FM
1957	DUNLIN GP
1957	DRAKE FM
2083	COOK FM
2203	BURTON FM
2214	AMUNDSEN FM
2375	STATFJORD GP
2375	NANSEN FM

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
OPEN HOLE		2424.0	6	2424.0	0.00	LOT

Boreslam



Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
2225	1.69	54.0		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]
495 Formation pressure (Formasjonstrykk)	pdf	0.21

