



Generell informasjon

Brønnbane navn	34/10-7 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	34/10-7
Seismisk lokalisering	S 30 - 180 SP. 328
Utvinningstillatelse	050
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	237-L2
Boreinnretning	ROSS ISLE
Boredager	45
Borestart	31.05.1983
Boreslutt	14.07.1983
Plugget og forlatt dato	14.07.1983
Frigitt dato	14.07.1985
Publiseringsdato	14.11.2012
Opprinnelig formål	APPRAISAL
Gjenåpnet	YES
Årsak til gjenåpning	TESTING/PLUGGING
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	COOK FM
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	STATFJORD GP
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	204.0
Totalt målt dybde (MD) [m RKB]	2247.0
Totalt vertikalt dybde (TVD) [m RKB]	2247.0
Maks inklinasjon [°]	1.5



Temperatur ved bunn av brønnbanen [°C]	90
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	LUNDE FM
Geodetisk datum	ED50
NS grader	61° 12' 13.44" N
ØV grader	2° 16' 28.56" E
NS UTM [m]	6785858.02
ØV UTM [m]	461016.27
UTM sone	31
NPDID for brønnbanen	496

Brønnhistorie



General

Well 34/10-7 R is a re-entry of well 34/10-7 on the eastern segment of the Gullfaks Field. Well 34/10-7 found oil in the Cook and Statfjord formations and performed a drill stem test from the Cook Formation. The objective of the re-entry was to perform two more drill stem tests in the main reservoir, the Cook Formation.

Operations and results

Well 34/10-7 was re-entered with the semi-submersible installation Ross Isle on 31 May 1983.

No wire line fluid samples were taken. Cores were cut in the primary well bore.

After testing the well was permanently abandoned on 14 July 1983 as an oil and gas appraisal well.

Testing

The Cook Formation was perforated and tested at two levels.

DST 2 tested the interval 1833.4 to 1863.4 m. Towards the end of the main flow it produced 812 Sm³ oil and 99 000 Sm³ gas /day through a 40/64" choke. The GOR was 123 Sm³/Sm³, the oil density was 0.826 g/cm³ and the gas gravity was 0.68 (air = 1). The maximum temperature recorded at perforation depth was 76.2 deg C. After production testing DST 2 included also a seawater injection test and a seawater with surfactant injection test. Injection rates of up to 1600 m³/day of seawater were recorded during the final stages of the injection sequence. Due to fracturing of the reservoir during the first phase of injection no conclusions regarding the effects of the surfactant in the second phase could be made.

DST 3 tested the interval 1807 to 1821 m. Towards the end of the main flow it produced 829 Sm³ oil and 110500 Sm³ gas /day through a 32/64" choke. The GOR was 133 Sm³/Sm³, the oil density was 0.829 g/cm³ and the gas gravity was 0.68 (air = 1). The maximum temperature recorded at perforation depth was 73.3 deg C.

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
226	NORDLAND GP
892	UTSIRA FM
931	NO FORMAL NAME
962	HORDALAND GP
1012	NO FORMAL NAME
1060	NO FORMAL NAME
1097	NO FORMAL NAME
1127	NO FORMAL NAME



1177	NO FORMAL NAME
1305	NO FORMAL NAME
1512	ROGALAND GP
1512	BALDER FM
1565	LISTA FM
1663	SHETLAND GP
1663	JORSALFARE FM
1747	KYRRE FM
1807	DUNLIN GP
1807	COOK FM
1934	BURTON FM
1942	AMUNDSEN FM
2050	STATFJORD GP
2050	NANSEN FM
2137	RAUDE FM
2177	HEGRE GP
2177	LUNDE FM

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1858	1865	15.9
2.0	1835	1865	15.9
3.0	1810	1824	12.7

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				
2.0				
3.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0	473	59000	0.832	0.642	124
2.0	810	99000	0.826	0.680	122
3.0	830	110000	0.830	0.680	133



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	291.0	36	292.0	0.00	LOT
SURF.COND.	20	823.0	26	845.0	1.51	LOT
LINER	16	1346.0	19 1/2	1415.0	1.77	LOT
INTERM.	13 3/8	1565.0	18	1572.0	1.90	LOT
INTERM.	9 5/8	1692.0	12 1/4	1700.0	2.02	LOT
LINER	7	1977.0	8 1/2	1990.0	2.05	LOT
OPEN HOLE		2247.0	6	2247.0	0.00	LOT

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]
496 Formation pressure (Formasjonstrykk)	PDF	0.11

