



Generell informasjon

Brønnbane navn	34/10-33 CR
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GULLFAKS SØR
Funn	34/10-2 Gullfaks Sør
Brønn navn	34/10-33
Seismisk lokalisering	ST 8134 - 156 SP.329
Utvinningstillatelse	050
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	614-L2
Boreinnretning	DEEPSEA BERGEN
Boredager	63
Borestart	24.02.1990
Boreslutt	27.04.1990
Frigitt dato	27.04.1992
Publiseringsdato	01.01.2012
Opprinnelig formål	APPRAISAL
Gjenåpnet	YES
Årsak til gjenåpning	TESTING/PLUGGING
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	134.0
Totalt målt dybde (MD) [m RKB]	3752.0
Totalt vertikalt dybde (TVD) [m RKB]	3587.0
Maks inklinasjon [°]	46.1
Temperatur ved bunn av brønnbanen [°C]	129
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DRAKE FM
Geodetisk datum	ED50



NS grader	61° 7' 34.44" N
ØV grader	2° 12' 57.1" E
NS UTM [m]	6777262.00
ØV UTM [m]	457756.18
UTM sone	31
NPDID for brønnbanen	1530

Brønnhistorie



General

Well 34/10-33 CR was the last in a cluster well bores drilled to appraise the Gullfaks South discovery beginning with well 34/10-33. Well 34/10-33 CR is the re-entry of well 34/10-33 C, which served as a host well for the long-term production test 34/10-T-33 C. In this test the production logging tools failed and the bottom hole pressure recorders were only partly functioning in the long-term production test. Furthermore, an unexpected increase in GOR occurred during the test, and this could not be interpreted based on the available data. Therefore the programme for the re-entry included a new test from the same perforation interval. A further objective of the re-entry was to retrieve and read two pressure recorders that were left in the well 34/10-33 C after the test production. The mean reservoir pressure should be estimated from these data. After testing the well bore would be permanently abandoned.

Operations and results

Appraisal well 34/10-33C was re-entered with the semi-submersible installation Deepsea Bergen on 24 February 1990.

The pressure recorders were retrieved, but both had failed to work.

No cores were cut and no wire line fluid samples were taken.

After testing the well was permanently abandoned on 27 April 1990 as an oil and gas appraisal well.

Testing

Three drill stem tests were attempted from perforations in the interval 3448 to 3517 m (3347.3 to 3395.4 m TVD MSL).

DST 1 was not initiated due to technical reasons.

DST1 A was terminated mid-way due to stuck wire line tools. This test produced 1624 Sm3 oil and 313300 Sm3 gas/day through a 52/64" choke in the clean-up flow. The GOR was 193 Sm3/Sm3. The flowing BHP was 40234 kPa and the flow temperature was 124.3 deg C.

DST1 B was a complete test with PLT logging in the main flow period. It produced at maximum flow 1634 Sm3 oil and 305558 Sm3 gas through a 52/64" choke. The duration of this flow was 19.6 hours. The GOR was 187 Sm3/Sm3, slightly lower than in the periods with more restricted flow. The flowing BHP was 40454 kPa and the flow temperature was 125.0 deg C. Final shut-in BHP was 44061 kPa.

Litosstratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
157	NORDLAND GP
909	UTSIRA FM
950	NO FORMAL NAME
974	HORDALAND GP
1029	NO FORMAL NAME
1139	NO FORMAL NAME
1247	NO FORMAL NAME
1514	NO FORMAL NAME
1562	NO FORMAL NAME
1610	NO FORMAL NAME
1821	ROGALAND GP
1821	BALDER FM
1897	LISTA FM
2048	SHETLAND GP
2048	JORSALFARE FM
2340	KYRRE FM
3008	CROMER KNOLL GP
3008	MIME FM
3012	VIKING GP
3012	DRAUPNE FM
3045	HEATHER FM
3215	BRENT GP
3215	TARBERT FM
3345	NESS FM
3601	ETIVE FM
3617	RANNOCH FM
3722	DUNLIN GP
3722	DRAKE FM

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1530_34_10_33_CR_Completion_report	pdf	20.62

Borestrengtester (DST)





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 19.5.2024 - 23:26

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	3448	3517	20.6
1.2	3448	3517	0.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0	23.000	16.000	42.000	124
1.2				125

Test nummer	Olje produksjon [Sm ³ /dag]	Gass produksjon [Sm ³ /dag]	Oljetetthet [g/cm ³]	Gasstyngde rel. luft	GOR [m ³ /m ³]
1.0	1635	313300	0.859	0.680	193
1.2					

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BO CCL	91	180
BP CCL	340	2425
BP CCL	3365	3385
GR CCL	3157	3393
GR CCL	3160	3351
GR CCL PLT	3428	3537
PERF CCL	3100	3180
PLT GR CCL	3428	3537