



Generell informasjon

Brønnbane navn	31/2-5 R2
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	TROLL
Funn	31/2-1 (Troll Vest)
Brønn navn	31/2-5
Seismisk lokalisering	79421 SP.274
Utvinningstillatelse	054
Boreoperatør	A/S Norske Shell
Boretillatelse	263-L3
Boreinnretning	BORGNY DOLPHIN
Boredager	32
Borestart	22.03.1984
Boreslutt	22.04.1984
Plugget og forlatt dato	22.04.1984
Frigitt dato	22.04.1986
Publiseringsdato	07.11.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	YES
Årsak til gjenåpning	TESTING
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	SOGNEFJORD FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	333.0
Totalt målt dybde (MD) [m RKB]	2525.0
Totalt vertikalt dybde (TVD) [m RKB]	2525.0
Maks inklinasjon [°]	1.5
Temperatur ved bunn av brønnbanen [°C]	79
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	HEGRE GP



Geodetisk datum	ED50
NS grader	60° 46' 16.2" N
ØV grader	3° 25' 53.46" E
NS UTM [m]	6737535.76
ØV UTM [m]	523507.71
UTM sone	31
NPDID for brønnbanen	501

Brønnhistorie

General

Wildcat well 31/2-5 is located in the southern part of the oil province in the Troll West area, some 6 km west of the discovery well 31/2-1, in a downthrown fault block. It was drilled in 1980 and tested in the re-entry 31/2-5 R in 1981. The objective of the second re-entry was to test and quantify the water mobility (oil-water coning behaviour) in the aquifer zone underlying the oil column to provide input for the Field Development Plan of the Troll Field.

Operations and results

Wildcat well 31/2-5 R was re-entered (31/2-5 R2) with the semi-submersible installation Borgny Dolphin on 22 March 1984. The cement suspension plug (1261 m to 1450 m) was drilled out and a test was carried out.

The well was permanently abandoned on 22 April 1984.

Testing

A 3 m interval directly above the oil-water contact (1566-1569 m SS) was production tested. The test was conducted in three periods, a cleanup period (PT-2A), a period before acid treatment (PT-2B), and a period after acid treatment (PT-2C) The oil sample available from the NPD was sampled in PT-2B. The well produced up to 1002 Sm³ (6300 bbl) liquid /day. The water cut decreased in two days from high initial values (> 40%) to a stable value of 20%, independent of the liquid rate. The stable water cut was apparently controlled exclusively by the relative mobilities of oil and water. The rate dependence of the Productivity Index, significant before the acid job, almost disappeared after acidizing.

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST		1591.00	1594.00	OIL	13.04.1984 - 00:02	YES



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
358	NORDLAND GP
781	HORDALAND GP
781	NO FORMAL NAME
808	NO FORMAL NAME
1338	ROGALAND GP
1338	BALDER FM
1389	SELE FM
1419	LISTA FM
1526	SHETLAND GP
1529	VIKING GP
1529	SOGNEFJORD FM
1610	HEATHER FM
1686	FENSFJORD FM
1782	KROSSFJORD FM
1853	HEATHER FM
1950	BRENT GP
2063	DUNLIN GP
2063	DRAKE FM
2194	COOK FM
2270	AMUNDSEN FM
2301	JOHANSEN FM
2380	AMUNDSEN FM
2397	STATEFJORD GP
2464	HEGRE GP

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
501_01_WDSS_General_Information	pdf	0.15

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1591	1594	50.8





Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningsstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				66

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0	668	125584	0.880	0.631	188

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	443.0	36	446.0	0.00	LOT
SURF.COND.	20	809.0	26	820.0	1.55	LOT
INTERM.	13 3/8	1470.0	17 1/2	1480.0	1.60	LOT
INTERM.	9 5/8	1801.0	12 1/4	1812.0	1.69	LOT
OPEN HOLE		2525.0	8 1/2	2525.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
500	1.05	36.0		water based	
1030	1.21	51.0		water based	
1510	1.25	60.0		water based	
1870	1.50	48.0		water based	
1940	1.15	51.0		water based	
1960	1.25	49.0		water based	
2110	1.15	46.0		water based	