



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 15:25

Brønnbane navn	2/3-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	2/3-1 (Løven)
Brønn navn	2/3-1
Seismisk lokalisering	LINE 13.
Utvinningstillatelse	022
Boreoperatør	Norske Murphy Oil Company
Boretillatelse	23-L
Boreinnretning	OCEAN TRAVELER
Boredager	53
Borestart	10.02.1969
Boreslutt	03.04.1969
Frigitt dato	03.04.1971
Publiseringsdato	29.06.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	OLIGOCENE
1. nivå med hydrokarboner, formasjon.	VADE FM
Avstand, boredekk - midlere havflate [m]	27.0
Vanndybde ved midlere havflate [m]	59.0
Totalt målt dybde (MD) [m RKB]	2934.0
Temperatur ved bunn av brønnbanen [°C]	90
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50
NS grader	56° 53' 9.46" N
ØV grader	3° 51' 38.08" E
NS UTM [m]	6305162.64
ØV UTM [m]	552439.87
UTM sone	31
NPDID for brønnbanen	162



Brønnhistorie

General

Well 2/3-1 is located approximately in the centre of the block on the Sørvestlandet High. The aim of the well was to test potential reservoirs in the Tertiary, Cretaceous, Jurassic, and Trias.

Operations and results

Wildcat well 2/3-1 was spudded with the semi-submersible installation Ocean Traveler on 10 February 1969 and drilled to TD at 2934 m in the Late Permian Zechstein Group. Bad weather with wind up to 31 m/s caused the rig to drift up to ca 40 feet off location on several occasions, interrupting drilling operations. The well was drilled with seawater and bentonite down to 463 m. A water based mud system was used in the remaining borehole.

The well encountered gas in two zones in Oligocene. From log analyses most of the reservoir interval from 1623 m to 1636 m, except a shale break, had a porosity around 22% with Sw = 30%. Best part of the second zone had a porosity of 23% with an Sw of 23%, (1597 m to 1600 m). No cores were cut in the well and no fluid samples were taken other than during the tests.

The well was permanently abandoned as a gas discovery on 3 April 1969.

Testing

Seven inch casing was run to 1673 m and two flowing drill stem tests were made successfully. The first test was made from perforations at 1624 m to 1636 m and flowed dry gas at rates of 207000 to 304000 Sm³/day on choke sizes varying from 24/64" to 30/64". The second test flowed dry gas at rates of 40000 to 92000/day on choke sizes varying from 12/64" to 30/64" from perforations at 1588 m to 1600 m.

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
4980.0	[ft]	DC	RRI
5020.0	[ft]	DC	RRI
5100.0	[ft]	DC	RRI
5140.0	[ft]	DC	RRI
5180.0	[ft]	DC	RRI
5220.0	[ft]	DC	RRI
5300.0	[ft]	DC	RRI
5340.0	[ft]	DC	RRI
5380.0	[ft]	DC	RRI
5420.0	[ft]	DC	RRI
5500.0	[ft]	DC	RRI
5540.0	[ft]	DC	RRI



5580.0 [ft]	DC	RRI
5620.0 [ft]	DC	RRI
5700.0 [ft]	DC	RRI
5740.0 [ft]	DC	RRI
5780.0 [ft]	DC	RRI
5820.0 [ft]	DC	RRI
5900.0 [ft]	DC	RRI
5940.0 [ft]	DC	RRI
5980.0 [ft]	DC	RRI
6020.0 [ft]	DC	RRI
6100.0 [ft]	DC	RRI
6140.0 [ft]	DC	RRI
6180.0 [ft]	DC	RRI
6220.0 [ft]	DC	RRI
6300.0 [ft]	DC	RRI
6320.0 [ft]	DC	RRI
6380.0 [ft]	DC	RRI
6420.0 [ft]	DC	RRI
6500.0 [ft]	DC	RRI
6540.0 [ft]	DC	RRI
6580.0 [ft]	DC	RRI
6620.0 [ft]	DC	RRI
6700.0 [ft]	DC	RRI
6740.0 [ft]	DC	RRI
6780.0 [ft]	DC	RRI
6840.0 [ft]	DC	RRI
6880.0 [ft]	DC	RRI
6920.0 [ft]	DC	RRI
7000.0 [ft]	DC	RRI
7040.0 [ft]	DC	RRI
7080.0 [ft]	DC	RRI
7120.0 [ft]	DC	RRI
7180.0 [ft]	DC	RRI
7240.0 [ft]	DC	RRI
7280.0 [ft]	DC	RRI
8360.0 [ft]	DC	SNEA
8420.0 [ft]	DC	SNEA
9020.0 [ft]	DC	SNEA
9140.0 [ft]	DC	SNEA
9250.0 [ft]	DC	SNEA



9330.0	[ft]	DC	SNEA
9420.0	[ft]	DC	SNEA
9510.0	[ft]	DC	SNEA
9560.0	[m]	DC	SNEA

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
84	NORDLAND GP
1330	HORDALAND GP
2135	ROGALAND GP
2135	BALDER FM
2153	SELE FM
2175	LISTA FM
2243	SHETLAND GP
2243	TOR FM
2359	CROMER KNOLL GP
2563	VESTLAND GP
2580	NO GROUP DEFINED
2580	SKAGERRAK FM
2832	SMITH BANK FM
2917	ZECHSTEIN GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
162	pdf	0.31

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
162_01_WDSS_General_Information	pdf	0.19

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
162 1 Completion report	pdf	13.07
162 2 Drilling programme murphy	pdf	4.39
162 3 Drilling programme	pdf	0.46
162 4 Permanent abandonment	pdf	2.73
162 5 Report on wellhead demolition operations	pdf	1.08
162 6 Sea floor search survey	pdf	40.06
162 7 Survey report	pdf	2.48

Dokumenter - Sökkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
162 01 NPD Paper No.17 Lithology Well 2 3 1	pdf	19.10
162 02 NPD Paper No.17 Interpreted Lithology log Well 2 3 1	pdf	46.29

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	1624	1637	11.5
2.0	1588	1601	11.5

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

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0		283100			
2.0		50000			





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DENS	1579	1653
GR SON CAL	107	2930
IEL	275	2924
LL	275	2395
MLL CAL	1158	2865
SNP	1579	1653

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	123.0	36	124.0	0.00	LOT
INTERM.	20	275.0	26	277.0	0.00	LOT
INTERM.	13 3/8	1298.0	17 1/2	1300.0	0.00	LOT
INTERM.	9 5/8	1674.0	12 1/4	1674.0	0.00	LOT
OPEN HOLE		2934.0	8 1/2	2934.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
123	1.02	200.0		spud mud	
463	1.01	108.0		water based	
701	1.11	40.0		water based	
1173	1.30	50.0		water based	
1310	1.37	49.0		water based	
1323	1.37	63.0		water based	
1646	1.44	62.0		water based	
2172	1.41	98.0		water based	