



Generell informasjon

Brønnbane navn	16/11-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	16/11-2
Seismisk lokalisering	LINE PS 5811
Utvinningstillatelse	016
Boreoperatør	Phillips Petroleum Company Norway
Boretillatelse	86-L
Boreinnretning	OCEAN VIKING
Boredager	38
Borestart	16.06.1973
Boreslutt	23.07.1973
Frigitt dato	23.07.1975
Publiseringsdato	24.09.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	27.0
Vanndybde ved midlere havflate [m]	70.0
Totalt målt dybde (MD) [m RKB]	2378.0
Totalt vertikalt dybde (TVD) [m RKB]	2372.0
Maks inklinasjon [°]	12
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50
NS grader	58° 11' 7.2" N
ØV grader	2° 28' 9.2" E
NS UTM [m]	6449614.03
ØV UTM [m]	468787.06
UTM sone	31
NPDID for brønnbanen	336



Brønnhistorie

General

The Anchovy (16/11-2) well was drilled on a semi-domal structure, about 5 miles long and 4 miles wide situated in the Danish-Norwegian Basin. It was estimated that at Paleocene depth there would be 12 square miles of closure with 150 m vertical relief and at Jurassic depth, 9 square miles of closure with 370 m vertical relief. The principal objective horizons were the Jurassic and Paleocene sands.

Operations and results

Wildcat well 16/11-2 was spudded with the semi-submersible installation Ocean Viking and drilled to TD at 2378 m in Late Permian Zechstein salt.

No Paleocene sands were encountered. As expected the Danian Chalk section was missing in the well. The Upper Cretaceous Limestone was tight with no shows. The Jurassic sand top was encountered at 2202 m with the main sand development beginning at 2207 m. The net sand thickness was 35 m, but on testing was found to be tight and unproductive. The total Jurassic section was about 244 m thinner than anticipated. The Triassic was missing. An 11.5 m Dolomite section was developed from 2250 m to 2261.5 m at the top of the Permian succession. This was also tested, but found to be tight and unproductive. Thus the well was terminated in the Zechstein higher than planned. Except for the reduced Jurassic sequence and absence of Triassic sediments causing the higher position of the Zechstein, the structure and stratigraphy were as predicted in the prognosis. Geochemical analyses of shales from the Late Jurassic Tau Formation proved excellent source potential, but the kerogen is immature to marginally mature in the well location. No cores were cut. The well was permanently abandoned as a dry well on 23 July 1973.

Testing

Two intervals in the Sandnes Formation were perforated and tested, 2261 m to 2251 m and 2242 m to 2231 m. Both intervals were found tight and unproductive and no hydrocarbons were produced during the tests.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1405.13	2359.15

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
97	NORDLAND GP
912	UTSIRA FM



931	HORDALAND GP
1532	ROGALAND GP
1532	BALDER FM
1573	SELE FM
1606	LISTA FM
1640	VÅLE FM
1656	SHETLAND GP
1656	EKOFISK FM
1697	TOR FM
1819	HOD FM
1897	CROMER KNOLL GP
1897	RØDBY FM
1917	SOLA FM
1963	ÅSGARD FM
2127	BOKNEFJORD GP
2127	TAU FM
2202	VESTLAND GP
2202	SANDNES FM
2269	ZECHSTEIN GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
336	pdf	0.22

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
336 1	pdf	0.31
336 2 Source rock potential of the 16 11 2 well	pdf	4.08

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
336 01 WDSS General Information	pdf	0.25





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
336_1_Completion_Report_and_Completion_I og	pdf	10.70

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
2.0	2251	2262	0.0
3.0	2231	2242	0.0

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

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
2.0					
3.0					

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC	449	1399
BHC C	1387	2374
CBL	1317	2327
CDM	1388	2377
CDM AP	1388	2377
CDM PP	1388	2377
CDR	1388	2377
GR	70	449





IES	449	1401
IES	1388	2376
LL-9	1890	2372

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	133.0	36	202.0	0.00	LOT
SURF.COND.	20	449.0	26	459.0	0.00	LOT
INTERM.	13 3/8	1387.0	17 1/2	1402.0	0.00	LOT
INTERM.	9 5/8	2378.0	12 1/4	2378.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
131	1.05			seawater	
457	1.06			seawater	
1402	1.14	45.0		Gyp-seawate	
3657	1.31	50.0		seawater	