



Generell informasjon

Brønnbane navn	8/9-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	8/9-1
Seismisk lokalisering	LINE C8-9-1 SP.44
Utvinningstillatelse	013
Boreoperatør	Conoco Norway Inc.
Boretillatelse	145-L
Boreinnretning	OCEAN VICTORY
Boredager	51
Borestart	22.12.1975
Boreslutt	10.02.1976
Frigitt dato	10.02.1978
Publiseringsdato	24.09.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	69.0
Totalt målt dybde (MD) [m RKB]	2376.0
Temperatur ved bunn av brønnbanen [°C]	51
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50
NS grader	57° 26' 27.28" N
ØV grader	3° 51' 3.48" E
NS UTM [m]	6366931.10
ØV UTM [m]	551083.27
UTM sone	31
NPDID for brønnbanen	303



Brønnhistorie

General

Well 8/9-1 is located in the Åsta Graben. It was designed to test a salt structure in the central part of the Norwegian-Danish basin. The primary objective was to penetrate Basal Jurassic unconformity sands in a crestal position of the closure. The sands were estimated to have an approximate gross thickness of 60 m and were expected to be Late Jurassic in age.

The well is Reference Well for the Fiskebank Formation.

Operations and results

Wildcat well 8/9-1 was spudded with the semi-submersible installation Ocean Viking on 22 December 1975 and drilled to TD at 2376 m in the Late Permian Zechstein salt. The well was drilled with salt gel down to 411 m and with a lignosulphonate / gypsum mud from 411 m to TD.

The well penetrated fine-grained silty sandstone very rich in glauconite in the interval 1316 m to 1376 m in Paleocene. Net sand for the interval was 60 m and porosities derived from the density log and corrected for clay effects were in the range 16 % to 24 %. In the interval 2124 m to 2149 m in the Late Jurassic a series of interbedded claystones, siltstones and sandstones were penetrated. The only true sandstone interval here existed between 2147 m and 2149 m where porosities ranged from 7 % to 14% calculated from density - neutron cross plot. All other low GR and permeable intervals in the Late Jurassic section indicated porosities substantially less than this and corresponding sidewall cores showed tight siltstones. In the Middle Jurassic the interval 2168.7 m to 2222.6 m was found to contain a sequence of predominantly interbedded sandstones, siltstones, and claystones with occasional thin carbonaceous beds. The caliper indicated a net sand of approximately 25 m out of a gross interval of 54 m. The porosities in this interval were exceedingly variable from one sandstone unit to the next and ranged from 5 % to 26 %. The sands with the highest porosities occurred near the top of the section between 2171 m and 2175 m. The Zechstein Group was encountered at 2247 m. A thin sand was present overlying the Zechstein Group. This sand was fine-grained grading to siltstone being poorly sorted with some medium sized grains. It was light grey and well cemented with a poor visible porosity.

Hydrocarbons in commercial quantities were not encountered in this well. The only indications were found as gas shows in Miocene-Oligocene limestones. While drilling, the total gas detector showed fairly high contents of methane, in one case measured to more than 20%. These limestones are thought to be slightly overpressured and fractured but occur only as thin 30 cm to 60 cm beds in the 8/9-1 well. No shows were encountered in the Jurassic sandstones, which was the primary objective. A bright spot just east of the well indicated possible gas accumulations in Middle Tertiary sands. The corresponding sand in this well was penetrated at 998 m without any significant increase in background gas.

No conventional core was cut and no fluid sample was taken in the well

The well was permanently abandoned as a dry hole on 10 February 1976.

Testing

No drill stem test was performed



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
225.55	2374.33

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2020.0	[m]	DC	PETROSTR
2040.0	[m]	DC	PETROS
2060.0	[m]	DC	PETROS
2100.0	[m]	DC	PETROS
2120.0	[m]	DC	PETROS
2140.0	[m]	DC	PETROS
2180.0	[m]	DC	PETROS
2200.0	[m]	DC	PETROS
2220.0	[m]	DC	PETROS
2260.0	[m]	DC	PETROS

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
93	NORDLAND GP
557	HORDALAND GP
1286	ROGALAND GP
1286	BALDER FM
1307	FISKEBANK FM
1399	LISTA FM
1492	SHETLAND GP
1492	EKOFISK FM
1535	TOR FM
1807	HOD FM
1938	CROMER KNOLL GP
1938	RØDBY FM
1953	SOLA FM
1980	ÅSGARD FM
2103	BOKNFJORD GP
2103	FLEKKEFJORD FM



2123	SAUDA FM
2156	VESTLAND GP
2156	SANDNES FM
2168	BRYNE FM
2247	ZECHSTEIN GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
303	pdf	0.29

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
303_1	pdf	0.66
303_2 interim report on the geochemistry of conoco norway 8 9 1 well norwegian north sea	pdf	0.82

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
303_01_WDSS_General_Information	pdf	0.26

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
303_1_Completion_Report	pdf	4.60

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BGT	166	410





DLL SP GR	980	2254
FDC CNL CAL GR	944	2244
GR	93	410
HDT	991	2245
ISF	402	1007
ISF SONIC SP GR	929	2308
SONIC GR	402	1007

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	166.0	36	166.0	0.00	LOT
SURF.COND.	20	400.0	26	411.0	0.00	LOT
INTERM.	13 3/8	991.0	17 1/2	1005.0	0.00	LOT
OPEN HOLE		2375.0	12 1/4	2375.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
410	1.13	45.0		seawater	
1004	1.25	39.0		seawater	
1391	1.35	49.0		seawater	
1820	1.37	50.0		seawater	
2211	1.37	52.0		seawater	
2375	1.40	51.0		seawater	