



Generell informasjon

Brønnbane navn	30/8-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	30/8-2
Seismisk lokalisering	NH 9304-inline 840 & crossline 2490
Utvinningstillatelse	190
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	835-L
Boreinnretning	WEST VANGUARD
Boredager	31
Borestart	15.12.1995
Boreslutt	14.01.1996
Frigitt dato	14.01.1998
Publiseringsdato	01.08.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	99.0
Totalt målt dybde (MD) [m RKB]	2405.0
Totalt vertikalt dybde (TVD) [m RKB]	2405.0
Maks inklinasjon [°]	2.5
Temperatur ved bunn av brønnbanen [°C]	74
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	JORSALFARE FM
Geodetisk datum	ED50
NS grader	60° 27' 24.51" N
ØV grader	2° 21' 47.92" E
NS UTM [m]	6702613.66
ØV UTM [m]	464976.31
UTM sone	31
NPDID for brønnbanen	2723



Brønnhistorie

General

Well 30/8-2 was drilled in the Viking Graben of the North Sea, about mid-way between the Hild and the Oseberg Sør Fields. The objective was to test the hydrocarbon potential of the Tertiary X1 prospect. The main target was a prognosed Heimdal Formation sand within the Lista Formation. Planned TD was at 2404 m in the uppermost Cretaceous.

Operations and results

Wildcat well 30/8-2 was spudded with the semi-submersible installation West Vanguard on 15 December 1995 and drilled to TD at 2405 m in the Late Cretaceous Jorsalfare Formation. Indications of shallow gas was observed as low gamma and high resistivity in a thin sand layer at 386 m. No significant problems were encountered in the operations. The well was drilled with spud mud down to 1542 m and with KCl/polymer mud from 1542 m to TD.

The prognosed Heimdal Formation was not present in the well but a sandstone rich interval assigned to the Hermod Formation was encountered. In the Hermod Formation, a total of 31 m net reservoir sand was calculated between 2075.5 m and 2137.5 m. A Petroleum Geochemistry Study of the reservoir interval indicated significant amounts of migrated hydrocarbons in the Hermod Formation. Traces of migrated hydrocarbons were detected also in thinner sands in the Balder and Våle Formations. The reservoir properties were excellent. An average porosity of approximately 30% has been calculated based on petrophysical evaluation. Permeabilities greater than 3500 mD are measured from core plugs. The hydrocarbon saturation is low and no evidence for moveable hydrocarbons was found in the log data. Fair to weak shows were recorded on cuttings from sandstones and limestone stringers from Top Balder Formation to TD, and good oil shows were recorded on sandstones in the cores.

The interval 2129 m - 2152 m was cored (2 cores). The cores cover the lowermost part of the Hermod Formation, basal Sele Formation, and the upper part of the Lista Formation. An MDT fluid sampling at 2123.0 m recovered 9.7 l water/mud filtrate and some gas. No oil was recovered.

The well was permanently abandoned on 14 January 1996 as a well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1550.00	2405.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sakkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2129.0	2133.6	[m]
2	2135.0	2151.7	[m]

Total kjerneprøve lengde [m]	21.3
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2129-2133m



2135-2140m



2140-2145m



2145-2150m



2150-2151m

Palynologiske preparater i Sakkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1580.0	[m]	DC	STRAT
1604.0	[m]	SWC	STRAT
1640.0	[m]	DC	STRAT
1659.0	[m]	SWC	STRAT
1680.0	[m]	DC	STRAT
1690.0	[m]	DC	STRAT
1710.0	[m]	DC	STRAT
1720.0	[m]	DC	STRAT
1750.0	[m]	DC	STRAT
1770.0	[m]	DC	STRAT
1810.0	[m]	DC	STRAT
1823.0	[m]	SWC	STRAT
1860.0	[m]	DC	STRAT
1887.0	[m]	SWC	STRAT
1910.0	[m]	DC	STRAT
1930.0	[m]	SWC	STRAT
1950.0	[m]	DC	STRAT



1970.0	[m]	DC	STRAT
2007.0	[m]	SWC	STRAT
2019.0	[m]	SWC	STRAT
2035.0	[m]	DC	STRAT
2040.0	[m]	DC	STRAT
2048.0	[m]	SWC	STRAT
2055.0	[m]	DC	STRAT
2063.0	[m]	SWC	STRAT
2075.0	[m]	DC	STRAT
2088.0	[m]	SWC	STRAT
2105.0	[m]	DC	STRAT
2110.0	[m]	DC	STRAT
2115.0	[m]	DC	STRAT
2120.0	[m]	DC	STRAT
2125.0	[m]	DC	STRAT
2131.0	[m]	C	STRAT
2132.0	[m]	C	STRAT
2136.0	[m]	C	STRAT
2137.0	[m]	C	STRAT
2140.0	[m]	C	STRAT
2143.0	[m]	C	STRAT
2144.0	[m]	C	STRAT
2145.0	[m]	C	STRAT
2146.0	[m]	C	STRAT
2149.0	[m]	C	STRAT
2151.0	[m]	C	STRAT
2160.0	[m]	DC	STRAT
2170.0	[m]	DC	STRAT
2208.0	[m]	SWC	STRAT
2225.0	[m]	DC	STRAT
2240.0	[m]	DC	STRAT
2255.0	[m]	DC	STRAT
2270.0	[m]	DC	STRAT
2285.0	[m]	DC	STRAT
2290.0	[m]	DC	STRAT
2295.0	[m]	DC	STRAT
2300.0	[m]	DC	STRAT
2315.0	[m]	DC	STRAT
2338.0	[m]	SWC	STRAT
2352.0	[m]	SWC	STRAT



2357.0	[m]	SWC	STRAT
2367.0	[m]	SWC	STRAT
2382.0	[m]	SWC	STRAT
2395.0	[m]	DC	STRAT
2405.0	[m]	DC	STRAT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
121	NORDLAND GP
600	UTSIRA FM
800	NO FORMAL NAME
818	HORDALAND GP
818	SKADE FM
922	NO FORMAL NAME
1110	NO FORMAL NAME
1196	NO FORMAL NAME
1485	GRID FM
1757	NO FORMAL NAME
1999	ROGALAND GP
1999	BALDER FM
2055	SELE FM
2076	HERMOD FM
2138	SELE FM
2149	LISTA FM
2320	VÅLE FM
2361	SHETLAND GP
2361	JORSALFARE FM

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2723_30_8_2_COMPLETION_REPORT_AND_LOG	pdf	9.81

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CST GR	1604	2392
DLL MSFL DSI NGT D SP AMS	1534	2399
FMS LDL CNL GR CAL AMS	1535	2403
MDT GR AMS	2019	2352
VELOCITY	880	2400

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	181.0	36	182.0	0.00	LOT
SURF.COND.	13 3/8	1534.0	17 1/2	1542.0	0.00	LOT
OPEN HOLE		2129.0	12 1/4	2129.0	0.00	LOT
OPEN HOLE		2405.0	8 1/2	2405.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
182	1.05			water based	
857	1.08			water based	
1325	1.42			water based	
1542	1.20			water based	
1595	1.42	24.0		water based	
2069	1.42	26.0		water based	
2129	1.42	25.0		water based	
2151	1.42	24.0		water based	
2405	1.42	23.0		water based	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
2723 Formation pressure (Formasjonstrykk)	pdf	0.23

