



Generell informasjon

Brønnbane navn	8/12-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	8/12-1
Seismisk lokalisering	LINE C 8-6. SP.70
Utvinningstillatelse	014
Boreoperatør	Conoco Norway Inc.
Boretillatelse	56-L
Boreinnretning	MÆRSK EXPLORER
Boredager	54
Borestart	31.05.1971
Boreslutt	23.07.1971
Frigitt dato	23.07.1973
Publiseringsdato	24.09.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	34.0
Vanndybde ved midlere havflate [m]	62.0
Totalt målt dybde (MD) [m RKB]	2875.0
Temperatur ved bunn av brønnbanen [°C]	82
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	57° 13' 18.6" N
ØV grader	3° 46' 45.13" E
NS UTM [m]	6342491.38
ØV UTM [m]	547054.64
UTM sone	31
NPDID for brønnbanen	193



Brønnhistorie

General

Well 8/12-1 is located in the Åsta Graben. It was drilled on a salt dome with about 122 m of vertical closure over an area of about 23 km². The well was programmed to test all porous formations from the Miocene to the Triassic. The main objectives were the Palaeocene Danian, Middle Jurassic, and Triassic sections. Secondary possibilities were seen in the Oligocene - Miocene, Late Cretaceous, and Early Cretaceous.

The well is Reference Well for the Bryne Formation.

Operations and results

Wildcat well 8/12-1 was spudded with the jack-up installation Maersk Explorer on 31 May 1971 and drilled to TD at 2875m in the Skagerrak Formation. Some difficulties were encountered with over-pressured shales from 853 m to 1113 m before setting 13-3/8" casing, cementing the 13-3/8" casing, and with lost returns immediately below the 9-5/8" casing set at 1903 m. The well was drilled with a Seawater/gel/IMCO-RD-333 mud system with 3 % to 5 % oil.

Methane gas in quantities up to 12% was recorded on the mud-gas detector during drilling of the Miocene and Oligocene clays. No significant reservoir sections were encountered in this section, and the gas was most probably released directly from the richly organic clays. Two very weak oil shows were obtained in the Middle Jurassic sandstones. In porous sandstones from core No.3, where one of these shows was observed, up to 9.4% residual oil was measured. However, evaluation of the logs showed that all porous intervals penetrated were water bearing. The formation water in the Middle Jurassic sandstones was calculated to have a salinity of 140,000 ppm NaCl.

Three conventional cores were cut in the intervals 6181 feet - 6237 feet (1884.0 m - 1901.0 m), 8811 feet - 8817 feet (2685.6 m - 2687.4 m), and 8919 feet - 8969 feet (2718.5 m to 2733.8 m). One fluid sample was taken on wire line at 2666 m. The tool was opened for 10 min and recovered 100 cc of salt water (55,000 ppm NaCl).

The well was permanently abandoned on 23 July 1971 as a dry hole with weak shows.

Testing

A DST was run over the interval 1902.6 m to 1950.7 m. Recovery in addition to the 457 m water cushion was 87 m of rat mud and 26 m of salt water cut mud. All pressure instruments indicated a low permeability zone that was depleted during the test period.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
106.68	2871.22

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	6181.0	6235.0	[ft]
2	8811.0	8817.5	[ft]
3	8919.0	8996.5	[ft]

Total kjerneprøve lengde [m]	42.1
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
8440.0	[ft]	DC	PETROSTR
8460.0	[ft]	DC	PETROS
8470.0	[ft]	DC	PETROS
8490.0	[ft]	DC	PETROS
8510.0	[ft]	DC	PETROS
8530.0	[ft]	DC	PETROS
8550.0	[ft]	DC	PETROS
8580.0	[ft]	DC	PETROS
8590.0	[ft]	DC	PETROS
8610.0	[ft]	DC	PETROS
8630.0	[ft]	DC	PETROS
8650.0	[ft]	DC	PETROS
8670.0	[ft]	DC	PETROS
8690.0	[ft]	DC	PETROS
8720.0	[ft]	DC	PETROS
8740.0	[ft]	DC	PETROS
8770.0	[ft]	DC	PETROS
8790.0	[ft]	DC	PETROS
8810.0	[ft]	DC	PETROS
8817.0	[ft]	C	STRAT
8830.0	[ft]	DC	PETROS
8850.0	[ft]	DC	PETROS
8870.0	[ft]	DC	PETROS
8890.0	[ft]	DC	PETROS
8919.0	[ft]	C	STRAT
8925.0	[ft]	C	STRAT
8928.0	[ft]	C	STRAT



8930.0	[ft]	C	STRAT
8940.0	[ft]	C	STRAT
8946.0	[ft]	C	STRAT
8952.0	[ft]	C	STRAT
8958.0	[ft]	C	STRAT
8964.0	[ft]	C	STRAT
8968.0	[ft]	C	STRAT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
97	NORDLAND GP
1040	HORDALAND GP
1089	VADE FM
1091	NO FORMAL NAME
1289	VADE FM
1291	NO FORMAL NAME
1303	VADE FM
1305	NO FORMAL NAME
1595	ROGALAND GP
1595	BALDER FM
1604	FISKEBANK FM
1694	LISTA FM
1822	VÅLE FM
1894	SHETLAND GP
1894	EKOFISK FM
1927	TOR FM
2262	HOD FM
2293	BLODØKS FM
2300	HIDRA FM
2340	CROMER KNOLL GP
2340	RØDBY FM
2368	SOLA FM
2423	ÅSGARD FM
2574	BOKNFJORD GP
2574	FLEKKEFJORD FM
2607	SAUDA FM
2661	TAU FM
2663	VESTLAND GP



2663	SANDNES FM
2711	BRYNE FM
2813	NO GROUP DEFINED
2813	SKAGERRAK FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
193	pdf	0.33

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
193 1	pdf	0.98
193 2 preliminary results of petroleum geo chemical studies of the 8 12 1 well	pdf	0.86

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
193 01 WDSS General Information	pdf	0.16

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
193 1 Completion Report	pdf	20.51

Dokumenter - Sjøkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
193 01 NPD Paper No.31 Lithology Norwegian Danish Basin Well 8 12 1	pdf	33.18





193 02 NPD Paper No.31 Correlation chart 3 Well 8 12 1	pdf	0.64
193 03 NPD Paper No.31 Correlation chart 3 II Well 8 12 1	pdf	0.49

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC GR	320	2872
FDC	1601	2874
GR	91	320
HDT	1902	2874
IES	333	2874
LL-7	1902	2872
PROX ML	762	2872
SNP	1900	2874

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	114.0	36	114.0	0.00	LOT
SURF.COND.	20	333.0	26	347.0	0.00	LOT
INTERM.	13 3/8	1070.0	17 1/2	1082.0	0.00	LOT
INTERM.	9 5/8	1903.0	12 1/4	1911.0	0.00	LOT
OPEN HOLE		2875.0	8 1/2	2875.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
346	1.07	50.0		seawater	
480	1.61	54.0		seawater	
1082	1.49	53.0		seawater	
1883	1.65	50.0		seawater	
1950	1.65	54.0		seawater	
2225	1.65	50.0		seawater	
2645	1.62	49.0		seawater	
2874	1.62	50.0		seawater	





Tynnslip i Søkeldirektoratet

Dybde	Enhet
6185.00	[m]
6232.00	[m]

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]
193 Formation pressure (Formasjonstrykk)	pdf	0.22

