



Generell informasjon

Brønnbane navn	25/8-10 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	BALDER
Funn	25/8-10 S Ringhorne
Brønn navn	25/8-10
Seismisk lokalisering	ESD96-3 & SP 577
Utvinningsstillatelse	027
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	883-L
Boreinnretning	DEEPSEA TRYM
Boredager	37
Borestart	29.04.1997
Boreslutt	05.06.1997
Frigitt dato	05.06.1999
Publiseringsdato	29.08.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	HERMOD FM
2. nivå med hydrokarboner, alder	PALEOCENE
2. nivå med hydrokarboner, formasjon	HEIMDAL FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	129.0
Totalt målt dybde (MD) [m RKB]	1890.0
Totalt vertikalt dybde (TVD) [m RKB]	1883.9
Maks inklinasjon [°]	10.4
Temperatur ved bunn av brønnbanen [°C]	83
Eldste penetrerte alder	PALEOCENE



Eldste penetrerte formasjon	EKOFISK FM
Geodetisk datum	ED50
NS grader	59° 16' 22.69" N
ØV grader	2° 32' 6.4" E
NS UTM [m]	6570692.44
ØV UTM [m]	473501.58
UTM sone	31
NPDID for brønnbanen	3062

Brønnhistorie

General

Well 25/8-10 S is located north of the Grane Field. The well was drilled and tested to obtain representative fluid samples, production characteristics, and reservoir permeabilities in the Forseti Prospect in the Hermod - Middle Heimdal formation.

Operations and results

Exploration well 25/8-10 S was spudded with semi-submersible drilling installation "Deepsea Trym" on 29 April 1997 and drilled to TD at 1749.5 m in the Late Paleocene Lista Formation. The original 25/8-10 S well was drilled with a slightly deviated profile (+/- 6 degree maximum angle) to a depth of 1749 m MD RKB. Due to a mechanical problem, which occurred after coring at 1722-1749 m, the well was plugged back and a technical sidetrack (25/8-10S T2) was kicked off at 1076 m and drilled to the original geologic objective at a total depth of 1890 m in the Early Paleocene Ekofisk Formation. Well 25/8-10 S was drilled with seawater and bentonite sweeps down to 1091 m and with oil based "Ancovert" mud from 1091 m to TD. The technical sidetrack 25/810 S T2 was drilled with oil based with "Ancovert" mud. The sidetrack penetrated 18 m (net pay) of oil filled sand in the Hermod - Middle Heimdal formation with an OWC, based on logs, at 1755.5 m TVD SS. The pay zone consisted of three sand intervals. One core was cut in the 25/8-10 S wellbore in the interval 1722 m to 1749.65 m (Sele, Hermod, and Lista Formations). A second core was cut in the 25/8-10 S T2 sidetrack in the interval 1749 m to 1786 m. (Lista and Heimdal Formations). After wire line logging the 25/8-10S T2 well a drill stem test of the upper sand interval, in the Hermod Formation, was performed. Fluid samples were taken during the DST. The well was permanently abandoned on 5 June 1997 as an oil and gas discovery, named the 25/8-10 S Ringhorne Discovery.

Testing

The interval from 1727.0 m to 1740.5 m (1698.6 - 1711.9 m TVD SS) in the Hermod Formation was perforated. The test showed an unconsolidated reservoir with high porosity. The GOR at rate 445 Sm³ fluid/day increased roughly from 45 Sm³/Sm³ to 90 Sm³/Sm³ as the wellhead pressure increased from 600 to 800 psia. This was considered consistent with the presence of a gas cap.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1100.00	1890.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1722.0	1749.7	[m]
2	1749.0	1786.0	[m]

Total kjerneprøve lengde [m]	64.7
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1749-1754m



1754-1759m



1759-1764m



1764-1769m



1769-1774m



1774-1779m



1779-1784m



1784-1786m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1110.0	[m]	DC	CGG
1130.0	[m]	DC	CGG
1150.0	[m]	DC	CGG
1160.0	[m]	DC	CGG
1170.0	[m]	DC	CGG
1190.0	[m]	DC	CGG
1200.0	[m]	DC	CGG
1220.0	[m]	DC	CGG



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 10.5.2024 - 04:27

1230.0	[m]	DC	CGG
1240.0	[m]	DC	CGG
1250.0	[m]	DC	CGG
1260.0	[m]	DC	CGG
1270.0	[m]	DC	CGG
1280.0	[m]	DC	CGG
1290.0	[m]	DC	CGG
1300.0	[m]	DC	CGG
1310.0	[m]	DC	CGG
1320.0	[m]	DC	CGG
1330.0	[m]	DC	CGG
1340.0	[m]	DC	CGG
1350.0	[m]	DC	CGG
1360.0	[m]	DC	CGG
1370.0	[m]	DC	CGG
1380.0	[m]	DC	CGG
1390.0	[m]	DC	CGG
1410.0	[m]	DC	CGG
1420.0	[m]	DC	CGG
1430.0	[m]	DC	CGG
1440.0	[m]	DC	CGG
1460.0	[m]	DC	CGG
1470.0	[m]	DC	CGG
1480.0	[m]	DC	CGG
1500.0	[m]	DC	CGG
1510.0	[m]	DC	CGG
1520.0	[m]	DC	CGG
1530.0	[m]	DC	CGG
1540.0	[m]	DC	CGG
1560.0	[m]	DC	CGG
1570.0	[m]	DC	CGG
1580.0	[m]	DC	CGG
1590.0	[m]	DC	CGG
1600.0	[m]	DC	CGG
1612.0	[m]	DC	CGG
1618.0	[m]	DC	CGG
1624.0	[m]	DC	CGG
1630.0	[m]	DC	CGG
1636.0	[m]	DC	CGG
1642.0	[m]	DC	CGG



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 10.5.2024 - 04:27

1648.0 [m]	DC	CGG
1654.0 [m]	DC	CGG
1660.0 [m]	DC	CGG
1662.0 [m]	DC	CGG
1672.0 [m]	DC	CGG
1684.0 [m]	DC	CGG
1690.0 [m]	DC	CGG
1702.0 [m]	DC	CGG
1705.0 [m]	DC	CGG
1711.0 [m]	DC	CGG
1717.0 [m]	DC	CGG
1722.7 [m]	C	CGG
1723.0 [m]	C	CGG
1725.8 [m]	C	CGG
1726.0 [m]	C	CGG
1727.0 [m]	C	CGG
1728.1 [m]	C	CGG
1729.0 [m]	C	CGG
1730.0 [m]	C	CGG
1731.4 [m]	C	CGG
1732.0 [m]	C	CGG
1733.7 [m]	C	CGG
1735.0 [m]	C	CGG
1735.5 [m]	C	CGG
1738.0 [m]	C	CGG
1738.3 [m]	C	CGG
1739.0 [m]	C	CGG
1741.0 [m]	C	CGG
1744.0 [m]	C	CGG
1747.0 [m]	C	CGG
1750.0 [m]	C	CGG
1753.0 [m]	C	CGG
1756.0 [m]	C	CGG
1759.0 [m]	C	CGG
1761.0 [m]	C	CGG
1765.0 [m]	C	CGG
1768.0 [m]	C	CGG
1771.0 [m]	C	CGG
1774.0 [m]	C	CGG
1777.0 [m]	C	CGG



1778.0	[m]	C	CGG
1779.0	[m]	C	CGG
1780.9	[m]	C	CGG

Oljeprøver i Sakkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
FMT		0.00	0.00			YES
MDT		0.00	0.00			YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
154	NORDLAND GP
629	UTSIRA FM
692	NO FORMAL NAME
757	HORDALAND GP
757	SKADE FM
900	NO FORMAL NAME
910	SKADE FM
1100	NO FORMAL NAME
1645	ROGALAND GP
1645	BALDER FM
1708	SELE FM
1725	HERMOD FM
1741	LISTA FM
1761	HEIMDAL FM
1765	LISTA FM
1777	HEIMDAL FM
1827	SHETLAND GP
1827	EKOFISK FM

Spleisede logger





Dokument navn	Dokument format	Dokument størrelse [KB]
3062	pdf	0.28

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3062_25_8_10_S_COMPLETION_REPORT	pdf	87.99

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	1727	1740	14.4

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0	4.000	4.000	4.000	70

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	413	15	0.900	0.680	

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - GR RES DIR	228	1086
MWD - GR RES DIR	1076	1707

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	227.0	36	228.0	0.00	LOT
SURF.COND.	13 3/8	1076.0	17 1/2	1091.0	0.00	LOT





OPEN HOLE		1890.0	8 1/2	1890.0	0.00	LOT
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Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
228	1.03			SPUD MUD	
890	1.32	31.0		OIL (REGULAR)	
1000	1.06			SPUD MUD	
1050	1.32	32.0		OIL (REGULAR)	
1091	1.43	60.0		LO-TOX OBM	
1150	1.32	28.0		LO-TOX OBM	
1244	1.32	26.0		LO-TOX OBM	
1518	1.32	28.0		LO-TOX OBM	
1751	1.32	29.0		LO-TOX OBM	
1786	1.32	30.0		LO-TOX OBM	
1890	1.32	30.0		OIL (REGULAR)	

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]
3062_Formation_pressure_(Formasjonstrykk)	pdf	0.19

