



Generell informasjon

Brønnbane navn	25/8-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	BALDER
Funn	25/8-1 (Ringhorne Forseti)
Brønn navn	25/8-1
Seismisk lokalisering	LINE CS 40.sp 5650
Utvinningstillatelse	027
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	36-L
Boreinnretning	GLOMAR GRAND ISLE
Boredager	68
Borestart	28.04.1970
Boreslutt	04.07.1970
Frigitt dato	04.07.1972
Publiseringsdato	01.08.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	HERMOD FM
Avstand, boredekk - midlere havflate [m]	9.0
Vanndybde ved midlere havflate [m]	129.0
Totalt målt dybde (MD) [m RKB]	2606.0
Temperatur ved bunn av brønnbanen [°C]	71
Eldste penetrerte alder	EARLY PERMIAN
Eldste penetrerte formasjon	ROTLIEGEND GP
Geodetisk datum	ED50
NS grader	59° 15' 2" N
ØV grader	2° 29' 35.41" E
NS UTM [m]	6568213.91



ØV UTM [m]	471091.98
UTM sone	31
NPDID for brønnbanen	173

Brønnhistorie

General

Well 25/8-1 was drilled on the Utsira High in the North Sea. The main purpose was to test an Eocene structural closure, up dip from oil-bearing Eocene sands in Well 25/11-1.

Operations and results

Wildcat well 25/8-1 was spudded with the vessel Glomar Grand Isle on 28 April 1970. Drilling operations were normal down to 2606 m, which became TD in the well, 289 m into the Early Permian Undefined Group. While drilling at this depth the drilling pipe parted. After recovering the upper portion of the drill pipe the top of the portion left in the hole was found to be at 2559. Attempts to recover the fish failed and after logging and taking sidewall cores in the uncased hole the well was prepared for testing. Initial drilling from the sea floor to 378 m was with sea water and gell. Below 378 m to 1311 m, the mud system consisted of sea water, spersene XP-20 salinex. From 1311 m to TD fresh water, spersene XP-20 mud was used.

The well penetrated several Tertiary sands above the Paleocene (Utsira and Skade Formations). These sands were water wet, but some methane was recorded in the upper part of the Utsira Formation. Two Paleocene sands (Hermod Formation at 1754.4 - 1758.1 m and 1759.0 - 1763.0 m) were found. The sands were separated by a thin 1 m shale section. Upon testing, the sands were found to be capable of producing approximately 429 Sm³ of 21.7 deg API gravity, low sulphur (0.77 to 0.80%) oil per day. All other sands or reservoirs penetrated by the well, including the Heimdal Formation at 1777 to 1812 m, were water wet without shows.

Seven cores were cut in the well. Core no 1 was cut from 1676.4 to 1684.9 m in the Balder Formation, cores no 2 to 5 were cut in the interval 1724.3 to 1790.7 m in the Balder/Sele/Hermod/Sele/Lista/Heimdal Formations, core no 6 was cut at 1828.8 to 1847.1 m in the Lista/Våle Formations, and core no 7 was cut at 2359.2 to 2377.4 m in the Undefined Group. FIT wire line fluid samples were taken at 1756.6 m (5.5 gallons oil), 1760.5 m (5 gallons oil), and at 1783.1 m (5 gallons water). The oil gravity was 21.7 and 21.8 deg API with 0.77% and 0.80%, respectively.

The well was permanently abandoned on 4 July 1970 as an oil discovery.

Testing

A production test performed in the interval 1755.0 to 1762.4 m in the Hermod Formation sand. The well was tested in four successive flow periods of increasing drawdown pressures. The final flow period lasted about 19 hours; during this period the average rate was about 429 Sm³/day through a 64/64" choke. The GOR was 23.2 Sm³/Sm³ (130 ft³/barrel), oil gravity was 21 deg API. Only trace quantities of basal sediments and water were produced during the test. No sand was detected in the produced fluid sampled at the surface; however, a small quantity of fine-grain sand was removed from the bottom-hole fluid samplers.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2407.92	2603.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	5500.0	5528.0	[ft]
2	5657.0	5715.0	[ft]
3	5713.0	5770.0	[ft]
4	5770.0	5815.0	[ft]
5	5815.0	5875.0	[ft]
6	6000.0	6060.0	[ft]
7	7740.0	7794.0	[ft]

Total kjerneprøve lengde [m]	110.3
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
6360.0	[ft]	DC	RRI
6400.0	[ft]	DC	RRI
6440.0	[ft]	DC	RRI
6480.0	[ft]	DC	RRI
6500.0	[ft]	DC	RRI
6510.0	[ft]	DC	RRI
6520.0	[ft]	DC	RRI
6530.0	[ft]	DC	RRI
6540.0	[ft]	DC	RRI
6550.0	[ft]	DC	RRI
6560.0	[ft]	DC	RRI
6570.0	[ft]	DC	RRI
6600.0	[ft]	DC	RRI



6610.0	[ft]	DC	RRI
6640.0	[ft]	DC	RRI
6650.0	[ft]	DC	RRI
6680.0	[ft]	DC	RRI
6700.0	[ft]	DC	RRI
6720.0	[ft]	DC	RRI
6760.0	[ft]	DC	RRI
6760.0	[ft]	DC	RRI
6800.0	[ft]	DC	RRI
6800.0	[ft]	DC	RRI
6840.0	[ft]	DC	RRI
6880.0	[ft]	DC	RRI
6920.0	[ft]	DC	RRI
6960.0	[ft]	DC	RRI
7000.0	[ft]	DC	RRI
7040.0	[ft]	DC	RRI
7080.0	[ft]	DC	RRI
7120.0	[ft]	DC	RRI
7160.0	[ft]	DC	RRI
7200.0	[ft]	DC	RRI

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	TEST1	1762.00	1755.00		30.06.1970 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
138	NORDLAND GP
607	UTSIRA FM
716	NO FORMAL NAME
750	HORDALAND GP
750	SKADE FM
970	NO FORMAL NAME
991	SKADE FM



1015	NO FORMAL NAME
1062	SKADE FM
1093	NO FORMAL NAME
1663	NO FORMAL NAME
1665	ROGALAND GP
1665	BALDER FM
1736	SELE FM
1754	HERMOD FM
1763	SELE FM
1767	LISTA FM
1777	HEIMDAL FM
1812	LISTA FM
1841	VÅLE FM
1846	SHETLAND GP
1846	EKOFISK FM
1853	TOR FM
1897	HOD FM
1915	BLODØKS FM
1923	HIDRA FM
1936	CROMER KNOLL GP
1981	VIKING GP
1981	DRAUPNE FM
1987	STATFJORD GP
2158	NO GROUP DEFINED
2317	UNDEFINED GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
173_1	pdf	4.96
173_2	pdf	1.40
173_3	pdf	0.64
173_4	pdf	2.44

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
173_01_WDSS_General_Information	pdf	0.18





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
173 25 8 1 Completion log	pdf	1.55
173 25 8 1 Completion report	pdf	38.47

Dokumenter - Søkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
173 01 NPD Paper No.28 Lithology Balder area Well 25 8 1	pdf	18.56
173 02 NPD Paper No.28 Interpreted Lithology log Well 25 8 1	pdf	1.40
173 03 NPD Paper No.28 Lithologic Correlation chart Well 25 8 1	pdf	0.48
173 04 NPD Paper No.28 Log Correlation chart Profile NE-SW Well 25 8 1	pdf	0.41

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	1755	1762	25.4

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningsstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	429	9965	0.930		23

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC SON GR CAL	389	2540
DIP	389	2083
FDC	1328	2540
GR	134	389
IES	389	2548
MLL CAL	389	1915
VELOCITY	135	2600

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	163.0	36	165.0	0.00	LOT
SURF.COND.	20	390.0	26	405.0	0.00	LOT
INTERM.	13 3/8	1330.0	18	1346.0	0.00	LOT
INTERM.	9 5/8	1881.0	12 1/4	1903.0	0.00	LOT
OPEN HOLE		2606.0	8 1/2	2606.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
378	1.05			seawater	
1310	1.07			sw/sper	
2619	1.04			fw/sper	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
1754.00	[m]
1754.00	[m]
1755.00	[m]
1756.00	[m]
1754.00	[m]
5866.00	[ft]
5845.00	[ft]
5862.00	[ft]



5875.00	[ft]
6042.50	[ft]
5776.50	[ft]
5869.00	[ft]
5836.00	[ft]
5773.00	[ft]
5825.50	[ft]
7767.00	[m]
7740.00	[ft]

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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
173 Formation pressure (Formasjonstrykk)	pdf	0.21

