



Generell informasjon

Brønnbane navn	30/4-3 S
Type	EXPLORATION
Formål	WILDCAT
Status	RE-CLASS TO DEV
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	MARTIN LINGE
Funn	30/4-3 S
Brønn navn	30/4-3
Seismisk lokalisering	
Utvinningstillatelse	043
Boreoperatør	Total E&P Norge AS
Boretillatelse	1623-L
Boreinnretning	MAERSK INTREPID
Boredager	116
Borestart	16.06.2016
Boreslutt	09.10.2016
Frigitt dato	09.10.2018
Publiseringsdato	09.10.2018
Opprinnelig formål	WILDCAT
Reklassifisert til brønnbane	30/4-A-9
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	TARBERT FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	NESS FM
3. nivå med hydrokarboner, alder	EOCENE
3. nivå med hydrokarboner, formasjon	FRIGG FM
Avstand, boredekk - midlere havflate [m]	57.7
Vanndybde ved midlere havflate [m]	115.0
Totalt målt dybde (MD) [m RKB]	4605.0



Totalt vertikalt dybde (TVD) [m RKB]	4201.0
Maks inklinasjon [°]	36.9
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DUNLIN GP
Geodetisk datum	ED50
NS grader	60° 30' 22.44" N
ØV grader	2° 0' 53.37" E
NS UTM [m]	6708354.28
ØV UTM [m]	445889.57
UTM sone	31
NPDID for brønnbanen	7961

Brønnhistorie

General

Well 30/4-3 S was drilled to test the Herja prospect North-East of the Martin Linge development area located between Martin Linge Central (30/7-8 R) and Martin Linge East (30/4-2) discoveries in the North Sea. The primary objective was to prove hydrocarbon accumulations within the Middle Jurassic Brent sandstones.

Operations and results

Wildcat well 30/4-3 S was spudded with the jack-up installation Mærsk Intrepid on 16 June 2016 and drilled to TD at 4605 m (4201 m TVD) m in the Early Jurassic Dunlin Group. Operations proceeded without significant problems. The well was drilled with seawater and bentonite sweeps down to 258 m, with Sildril water-based mud from 258 m to 1219 m, with Glydril water-based mud from 1219 m to 2225 m, with NABM EMS 4600 oil-based mud from 2225 m to 4144 m, and with WARP NABM mud from 4144 m to TD.

The well confirmed oil in the Eocene Frigg Formation, from top of the Frigg sandstone at 1829 m (1810 m TVD) down to the free water level at 1835 m (1815 m TVD). Top of the primary exploration target Brent Group was penetrated at 4250 m. Good quality reservoirs were encountered within the Tarbert, Ness and Etive Formations. Tarbert and Ness were found to be gas bearing, while the Etive Formation was water bearing. XPT pressure points showed a gas down to situation at 4377m (4004 m TVD) at base Tarbert. Both Tarbert and Ness show gas gradients, but Ness is 10 bar overpressured compared to Tarbert. Hydrocarbon shows in this well were not described, due to masking by the mud (NABM) and the loose sand in Frigg Formation.

No conventional cores were cut. MDT fluid samples were taken at 4253 m (gas), 4337.4 m (gas), 4459.9 m (gas), 4495 m (gas), and 4552.5 m (water).

The well was permanently abandoned on 9 October 2016 as a gas-condensate discovery.

Testing

No drill stem test was performed.



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
173	NORDLAND GP
173	UNDIFFERENTIATED
315	UTSIRA FM
712	HORDALAND GP
712	SKADE FM
1006	NO FORMAL NAME
1829	FRIGG FM
1997	ROGALAND GP
1997	BALDER FM
2122	HERMOD FM
2166	SELE FM
2215	LISTA FM
2392	SHETLAND GP
2392	EKOFISK FM
2418	JORSALFARE FM
2761	KYRRE FM
3904	TRYGGVASON FM
3974	BLODØKS FM
3994	SVARTE FM
4079	VIKING GP
4079	DRAUPNE FM
4131	HEATHER FM
4250	BRENT GP
4250	TARBERT FM
4377	NESS FM
4549	ETIVE FM
4556	RANNOCH FM
4583	DUNLIN GP
4583	UNDIFFERENTIATED

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT APS TLD HNGS GR	4119	4600
GYRO	150	252



IBCHD CBL GR	3200	4142
LWD - DEN CALI NEU GR	4240	4605
LWD - ECD DI GR	172	258
LWD - ECD GR RES DI SON	4160	4605
LWD - GR RES ECD DI	4150	4605
LWD - GR RES ECD DI GYRO	260	1219
LWD - GR RES ECD DI NBI	1219	3525
LWD - INC GR RES MPRES ECD DI CA	3525	4150
MDT GR	4150	4495
MDT GR	4150	4552
MDT GR	4150	4337
PPC MSIP GR DOBMI GR	4137	4600
WAVSP GR	2112	4001
XLR GR	4162	4555
XPT GR	4251	4557

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	254.5	36	258.0	0.00	
SURF.COND.	20	1210.5	26	1219.0	1.60	FIT
LINER	17	2195.0	17 1/2	2225.0	1.72	LOT
INTERM.	13 5/8	3516.3	16	3525.0	1.95	FIT
INTERM.	10	4147.1	12 1/4	4150.0	2.17	FIT
OPEN HOLE		4605.0	8 1/2	4605.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
237	1.03	1.0		Sea water	
1215	1.10	23.0		Silicate	
1219	1.11	23.0		Silicate	
1231	1.39	19.0		KCl/Polymer-Glycol	
1503	1.42	18.0		KCl/Polymer-Glycol	
2225	1.62	34.0		NABM	
2225	1.42	19.0		KCl/Polymer-Glycol	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 11.5.2024 - 20:39

2225	1.42	18.0		KCl/Polymer-Glycol	
3525	1.62	30.0		NABM	
3528	1.80	42.0		NABM	
3757	1.85	49.0		NABM	
4015	1.86	48.0		NABM	
4150	2.04	49.0		NABM	
4150	1.84	46.0		NABM	
4204	2.06	2.0		NABM	
4404	2.04	55.0		NABM	
4605	2.04	61.0		NABM	