



Generell informasjon

Brønnbane navn	34/10-54 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	34/10-54 S (Valemon Nord)
Brønn navn	34/10-54
Seismisk lokalisering	ST09M01.inline 1909 & xline 3163
Utvinningsstillatelse	050 ES
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1469-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	163
Borestart	02.09.2013
Boreslutt	11.02.2014
Frigitt dato	11.02.2016
Publiseringsdato	11.02.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	COOK FM
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	140.0
Totalt målt dybde (MD) [m RKB]	4280.0
Totalt vertikalt dybde (TVD) [m RKB]	4249.0
Maks inklinasjon [°]	22.5
Temperatur ved bunn av brønnbanen [°C]	154
Eldste penetrerte alder	EARLY JURASSIC



Eldste penetrerte formasjon	BURTON FM
Geodetisk datum	ED50
NS grader	61° 7' 32.7" N
ØV grader	2° 18' 35.5" E
NS UTM [m]	6777151.11
ØV UTM [m]	462819.52
UTM sone	31
NPDID for brønnbanen	7253

Brønnhistorie

General

Well 34/10-54 S was drilled to test the Valemon Nord prospect on the Tjalve Terrace in the North Sea. The prospect is situated north of the Valemon Field, between the Gullfaks South, and the Kvitebjørn fields. The primary objective was to prove commercial hydrocarbon volumes in the Middle Jurassic Brent Group.

Operations and results

Wildcat well 34/10-54 S was spudded with the semi-submersible installation Transocean Leader on 2 September 2013 and drilled to TD at 4280 m (4249 m TVD) m in the Early Jurassic Burton Formation. Two pilot holes was drilled on location to check for shallow gas. No shallow gas was observed. The well was drilled with a slightly deviated well path below 2700 m with the purpose of hitting the Brent Group optimally. After cutting core no 5 from 4107 - 4128 m, operations were suspended for three weeks for inspection and repairs of fairlead on anchor line #1. The well was drilled with seawater and hi-vis pills down to 1217 m and with oil based XP-07 mud from 1217 m to TD.

Gas/condensate and oil down to situation was encountered in the Jurassic Brent Group. Gas/condensate was encountered also in the Jurassic Cook Formation. Pressure testing identified several pressure systems. No reliable hydrocarbon gradient could be defined and the hydrocarbon phases are interpreted from sampling. Oil shows were recorded on cores from the reservoir zones; otherwise, no oil shows were recorded in the well.

Seven cores were cut in the well. Cores 1 to 5 recovered 168.2 m core from the Brent Group the interval 3957 to 4128 m (98.4% recovery). Cores 6 and 7 recovered 19.7 m core from the Cook Formation in the interval 4179 m to 4202 m (85.7% recovery). MDT fluid samples were taken at 3953.01 m (gas condensate), 3987.53 m (gas condensate), 4024 m (oil), 4041.98 m (oil), 4059.01 m (oil), 4068.82 m (water), 4085.52 m (gas condensate), and at 4181.2 m (gas condensate).

The well was plugged back for side tracking on 11 February 2014. It is classified as an oil and gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1800.00	4280.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3957.0	3995.0	[m]
2	3997.0	4023.7	[m]
3	4024.0	4053.3	[m]
4	4053.3	4107.0	[m]
5	4107.0	4126.6	[m]
6	4179.0	4193.6	[m]
7	4195.0	4200.2	[m]

Total kjerneprøve lengde [m]	187.0
Kjerter tilgjengelig for prøvetaking?	YES

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		3988.00	0.00	CONDE NSATE	27.06.2014 - 00:00	YES
MDT		4024.00	0.00	OIL	27.06.2014 - 00:00	YES
MDT		4041.98	0.00	OIL	01.07.2014 - 00:00	NO
MDT		4059.00	0.00	OIL	01.07.2014 - 00:00	YES
MDT		4085.50	0.00	OIL	17.07.2014 - 00:00	YES
MDT		4181.20	0.00	OIL	18.07.2014 - 00:00	YES

Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
164	NORDLAND GP
164	UNDIFFERENTIATED
940	UTSIRA FM
994	UNDIFFERENTIATED
1052	HORDALAND GP
1052	UNDIFFERENTIATED
1857	ROGALAND GP
1857	BALDER FM
1924	SELE FM
1930	LISTA FM
2068	VÅLE FM
2081	SHETLAND GP
2081	JORSALFARE FM
2408	KYRRE FM
3275	TRYGGVASON FM
3459	SVARTE FM
3678	CROMER KNOLL GP
3678	RØDBY FM
3756	SOLA FM
3833	ÅSGARD FM
3860	VIKING GP
3860	HEATHER FM
3952	BRENT GP
3952	TARBERT FM
3980	NESS FM
4068	ETIVE FM
4076	RANNOCH FM
4117	DUNLIN GP
4117	DRAKE FM
4177	COOK FM
4230	BURTON FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PEX HNGS	3822	4280
AIT PPC BMSIP PPC BPEX	3012	3829



AIT PPCI MSIP PEX	1037	2997
CMR GR	3930	4268
MDT GR	3953	4204
MDT GR	3953	4068
MDT PA MINIDST	3987	3987
MDT PA MINIDST	3987	4187
MWD-ARC6 TELE675	3958	4280
MWD-ARCVRES PP SONI825	1216	3012
MWD-ECO TELE SONI475	163	1216
MWD-PDX5 ARC8 TELE SONI825	3591	3829
MWD-RAB6 ARC TELE	4128	4179
MWD-RAB6 TST6FPWD PDRIVE6 TELE	3829	3897
MWD-RAB6 TST6FPWD PERI115 TELE67	3897	3958
OBMI MSIP GR	3812	4283
VSI4 GR	2884	4264
VSP GR	163	2990

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	249.9	36	253.0	0.00	
SURF.COND.	20	1209.8	26	1207.0	1.61	FIT
INTERM.	14	2994.4	17 1/2	3012.0	1.87	LOT
INTERM.	9 7/8	3820.0	12 1/4	3829.0	2.06	FIT
OPEN HOLE		4280.0	8 1/2	4280.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1207	1.39	27.0		OBM-Low ECD	
1217	1.42	23.0		OBM-Low ECD	
1660	1.39	33.0		OBM-Low ECD	
2075	1.39	25.0		OBM-Low ECD	
2245	1.72	38.0		OBM-Low ECD	
2760	1.39	24.0		OBM-Low ECD	
2811	1.72	37.0		OBM-Low ECD	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 20.5.2024 - 04:31

2813	1.72	36.0		OBM-Low ECD	
3012	1.60	23.0		OBM-Low ECD	
3632	1.72	30.0		OBM-Low ECD	
3645	1.73	39.0		OBM-Low ECD	
3720	1.72	35.0		OBM-Low ECD	
3730	1.72	30.0		OBM-Low ECD	
3829	1.72	36.0		OBM-Low ECD	
3831	1.73	39.0		OBM-Low ECD	
3844	1.96	38.0		OBM-Low ECD- HTHP	
3857	1.95	42.0		OBM-Low ECD- HTHP	
3875	1.72	33.0		OBM-Low ECD	
3875	1.72	33.0		OBM-Low ECD	
3897	1.96	38.0		OBM-Low ECD- HTHP	
3958	1.91	31.0		OBM-Low ECD- HTHP	
4024	1.91	30.0		OBM-Low ECD- HTHP	
4107	1.91	34.0		OBM-Low ECD- HTHP	
4128	1.91	41.0		OBM-Low ECD- HTHP	
4158	1.91	42.0		OBM-Low ECD- HTHP	
4225	1.91	44.0		OBM-Low ECD- HTHP	
4280	1.91	44.0		OBM-Low ECD- HTHP	