



Generell informasjon

Brønnbane navn	34/10-54 A
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 A
Brønn navn	34/10-54
Seismisk lokalisering	ST09M01-inline 1909 & xline 3163
Utvinningsstillatelse	050 ES
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1470-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	69
Borestart	11.02.2014
Boreslutt	18.04.2014
Frigitt dato	18.04.2016
Publiseringsdato	18.04.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	COOK FM
3. nivå med hydrokarboner, alder	EARLY JURASSIC
3. nivå med hydrokarboner, formasjon	STATFJORD GP
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	140.0
Totalt målt dybde (MD) [m RKB]	4656.0
Totalt vertikalt dybde (TVD) [m RKB]	4270.0
Maks inklinasjon [°]	42.5



Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	RAUDE 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	7254

Brønnhistorie

General

Well 34/10-54 A is a geological sidetrack to well 34/10-54 S. The wells were 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 of well 34/10-54 A was to prove commercial hydrocarbon volumes in the Early Jurassic Statfjord Group.

Operations and results

Wildcat well 34/10-54 A was kicked off from 2813 m in the primary well on 11 February 2014. It was drilled with the semi-submersible installation Transocean Leader to TD at 4656 m (4270 m TVD) in the Early Jurassic Raude Formation. A well influx occurred during coring at 4515 m. The flow was circulated out with the driller's method. Further drilling to TD was hampered by hole problems and sticking of drill string. The well was drilled with XP-07 oil based mud from kick-off to TD.

The Brent Group, although not prognosed, came in at 4076 m (3838 m TVD) underlying only 7.5 m Heather Formation. The Brent Group was gas bearing. The primary target Statfjord Group at 4466 m (4129 m). The well proved a gas/condensate column throughout the Brent Group with an additional gas/condensate column in the Statfjord Group. Gas/condensate was also found in the Cook Formation. Pressure sampling in both wells identified different pressure systems through the sand intervals and show most likely initial reservoir pressures. Pressures were lower than expected, below HP definition. No hydrocarbon/water contacts could be found in the Brent or Cook, and challenging well conditions caused an early TD in the Raude Formation, which is most likely hydrocarbon filled at TD.

A total of 67.2 meters of core was cut and 60.25 meters recovered (88.34% recovery) in five cores from the interval 4252 m in the Cook Formation to 4522 m in the Statfjord Group. MDT gas/condensate samples were recovered from 4147.56 m, 4260.23 m, 4494.98 m, 4501.52 m, and 4565.3 m.

The well was permanently abandoned on 18 April 2014 as gas/condensate discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2820.00	4655.00

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

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4252.0	4265.6	[m]
2	4468.0	4474.9	[m]
3	4481.0	4497.7	[m]
4	4498.0	4515.0	[m]
5	4515.1	4521.5	[m]

Total kjerneprøve lengde [m]	60.5
Kjerner 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		4147.50	0.00	CONDE NSATE	07.08.2014 - 00:00	YES
MDT		4565.30	0.00	CONDE NSATE	08.08.2014 - 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
3328	TRYGGVASON FM
3563	SVARTE FM
3825	CROMER KNOLL GP
3825	RØDBY FM
3920	SOLA FM
4030	ÅSGARD FM
4066	VIKING GP
4066	HEATHER FM
4076	BRENT GP
4076	TARBERT FM
4146	NESS FM
4182	ETIVE FM
4191	RANNOCH FM
4203	DUNLIN GP
4203	DRAKE FM
4238	COOK FM
4299	BURTON FM
4359	AMUNDSEN FM
4467	STATEJORD GP
4467	NANSEN FM
4512	EIRIKSSON FM
4635	RAUDE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PEX HNGS GR	4015	4655
CMR GR	4060	4657
MDT GR	4068	4617
MDT MRPA	4147	4495
MDT MRPA	4260	4565
MDT MRPA	4521	4521



MSCT GR	4067	4634
MWD-TELE675 ARC6 PDX5	4453	4571
MWD-TELE675 ARC6 PDX5 GVR6	4024	4468
MWD-TELE675 ARC6 PDX5 STETH	4065	4656
MWD-TELE825 ARC8 PDX5 900	2795	4024
NGI	4040	4600
TLD CMR GR	4015	4651
VSP VSI-4	1700	4655

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
INTERM.	14	2795.0	17 1/2	3012.0	1.83	LOT
INTERM.	9 7/8	4014.6	12 1/4	4024.0	2.02	FIT
OPEN HOLE		4656.0	8 1/2	4656.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
360	1.72	40.0		OBM-Low ECD	
2825	1.72	36.0		OBM-Low ECD	
3442	1.72	35.0		OBM-Low ECD	
3684	1.72	33.0		OBM-Low ECD	
3715	1.72	38.0		OBM-Low ECD	
3715	1.83	40.0		OBM-Low ECD-HTHP	
3715	1.83	42.0		OBM-Low ECD-HTHP	
3724	1.72	31.0		OBM-Low ECD	
3915	1.84	40.0		OBM-Low ECD-HTHP	
3918	1.72	34.0		OBM-Low ECD	
4024	1.82	33.0		OBM-Low ECD-HTHP	
4030	1.85	32.0		OBM-Low ECD-HTHP	
4468	1.85	37.0		OBM-Low ECD-HTHP	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 13.5.2024 - 20:55

4515	1.90	39.0		OBM-Low ECD-HTHP	
4656	1.86	37.0		OBM-Low ECD-HTHP	
4656	1.83	36.0		OBM-Low ECD-HTHP	
4656	1.90	38.0		OBM-Low ECD-HTHP	