



Generell informasjon

Brønnbane navn	34/4-14 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	34/4-11 (Beta)
Brønn navn	34/4-14
Seismisk lokalisering	SUN13001-inline 7351 & xline 4004
Utvinningstillatelse	375
Boreoperatør	Suncor Energy Norge AS
Boretillatelse	1564-L
Boreinnretning	BORGLAND DOLPHIN
Boredager	78
Borestart	03.03.2015
Boreslutt	19.05.2015
Frigitt dato	19.05.2017
Publiseringsdato	19.05.2017
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	385.0
Totalt målt dybde (MD) [m RKB]	4822.0
Totalt vertikalt dybde (TVD) [m RKB]	4563.0
Maks inklinasjon [°]	29.8
Temperatur ved bunn av brønnbanen [°C]	154
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	LUNDE FM
Geodetisk datum	ED50
NS grader	61° 40' 51.05" N
ØV grader	2° 7' 19.42" E
NS UTM [m]	6839104.08
ØV UTM [m]	453534.31



UTM sone	31
NPDID for brønnbanen	7660

Brønnhistorie

General

Well 34/4-14 S was drilled to appraise the 34/4-11 Beta discovery. The discovery was proven in 2010 and is located approximately 20 km northwest of the Snorre field in the North Sea. The reservoir is in the Brent and Statfjord groups. The objective was to evaluate the presence of hydrocarbons at a commercial level, down-dip from the existing discovery and appraisal locations.

Operations and results

Appraisal well 34/4-14 S was spudded with the semi-submersible installation Borgland Dolphin on 3 March 2015 and drilled to TD at 4822 m, (4563 m TVD) in the Late Triassic Lunde Formation. A 9 7/8" Pilot Hole was initially drilled to a depth of 797 m, being evaluated by LWD gamma ray, resistivity and sonic. No shallow gas, water flows, hydrates or boulders were present. The main well was drilled directionally with kick-off from the vertical at 2103 m and a sail angle below 2748 m of ca 28°/30°. The 8 1/2" section was drilled under High-Pressure-High-Temperature procedures. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 1490 m, and with XP-07 oil-based mud from 1490 m to TD.

The well encountered a reservoir in the Statfjord group from the Early Jurassic Age and proved 11 m of net sandstone of good quality. The well is dry. No oil shows above the oil-based mud were recorded in the well.

No cores were cut. MDT water samples were taken at 4642 m. Wireline logging at TD was hampered by poor hole conditions.

The well was permanently abandoned on 19 May 2015 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1500.00	4822.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
416	NORDLAND GP
1175	UTSIRA FM
1331	HORDALAND GP
1805	ROGALAND GP
1805	BALDER FM
1860	SELE FM
1906	LISTA FM
1980	SHETLAND GP
1980	JORSALFARE FM
2193	KYRRE FM
3357	TRYGGVASON FM
4072	SVARTE FM
4157	CROMER KNOLL GP
4157	RØDBY FM
4227	SOLA FM
4250	MIME FM
4265	VIKING GP
4265	DRAUPNE FM
4310	HEATHER FM
4344	BRENT GP
4344	TARBERT FM
4350	RANNOCH FM
4417	DUNLIN GP
4417	DRAKE FM
4494	COOK FM
4519	BURTON FM
4538	AMUNDSEN FM
4640	STATFJORD GP
4640	NANSEN FM
4658	EIRIKSSON FM
4723	RAUDE FM
4754	HEGRE GP
4754	LUNDE FM

Logger



Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
EMA HNGS MDT	4239	4800
LWD - DGR EWR P4 PWD DIR	498	1490
LWD - DIR	416	502
LWD - EWR P4 DGR PWD DIR	416	797
LWD - GP ABG DIR GM EWR P4 PWD Q	4287	4822
LWD - GP DIR DGR EWR P4 PWD XBAT	2850	4287
LWD - GP DIR DGR EWR PWD SON	1490	2848
MDT GR	4642	4657
QAIT GPIT PPC MSIP APS LDS HNGS	416	4800
USIT DCBL VDL GR	1330	2835

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	495.0	36	498.0	0.00	
PILOT HOLE		797.0	9 7/8	797.0	0.00	
SURF.COND.	20	1485.0	26	1490.0	0.00	
		1493.0		1493.0	1.69	LOT
INTERM.	13 3/8	2838.0	17 1/2	2848.0	0.00	
		2850.0		2850.0	1.95	LOT
LINER	9 7/8	4277.0	12 1/4	4287.0	2.14	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
447	1.02	2.0		XP-07	
1490	1.44	23.0		XP-07	
2834	1.59	29.0		XP-07	
2848	1.44	20.0		XP-07	
2850	1.59	29.0		XP-07	
4072	1.94	34.0		XP-07 HPHT	
4110	1.67	31.0		XP-07	
4287	1.66	32.0		XP-07	



Faktasider

Brønnbane / Leting

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4441	1.86	26.0		XP-07 HPHT	
4589	1.94	32.0		XP-07 HPHT	
4695	1.94	34.0		XP-07 HPHT	
4822	1.94	31.0		XP-07 HPHT	