Generell informasjon

Brønnbane navn	6407/3-1 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6407/3-1
Seismisk lokalisering	3D Survey STO4M08-BIN . IL 2612 & XL 3852
Utvinningstillatelse	312
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1349-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	25
Borestart	14.04.2011
Boreslutt	08.05.2011
Plugget og forlatt dato	08.05.2011
Frigitt dato	14.11.2012
Publiseringsdato	14.11.2012
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	234.0
Totalt målt dybde (MD) [m RKB]	2928.0
Totalt vertikalt dybde (TVD) [m RKB]	2918.0
Maks inklinasjon [°]	10.5
Temperatur ved bunn av brønnbanen [°C]	111
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	TILJE FM
Geodetisk datum	ED50
NS grader	64° 46' 32.49'' N
ØV grader	7° 42' 14.23'' E
NS UTM [m]	7184265.96

ØV UTM [m]	438370.92
UTM sone	32
NPDID for brønnbanen	6582

Brønnhistorie

General

Well 6407/3-1 S was drilled on the Nordtuva prospect on the Bremstein Fault Complex in the Norwegian Sea. The well is located 17 km to the south of the Midgard gas/condensate field and 6 km to the North of the Mikkel gas/condensate field. The primary objective was to prove and encounter an economic volume of hydrocarbons in the Ile Formation of Early Jurassic age. A secondary objective was to prove hydrocarbons in the Middle Jurassic Garn Formation and in the Early Jurassic Åre Formation.

Operations and results

Wildcat well 6407/3-1 S was spudded with the semi-submersible installation Transocean Leader on 14 April 2011 and drilled to TD at 2928 m in the Early Jurassic Tilje Formation. No significant problem was encountered in the operations. No shallow gas was encountered. The well was drilled with seawater and hi-vis pills down to 474 m, with KCl/GEM/Polymer water based mud from 474 m to 1308 m, and with XP-07oil based mud from 1308 m to TD.

Sandstones of good to moderate quality were encountered in the Garn, Ile, Ror and Tilje formations. All were water wet. No hydrocarbon shows were recorded in the well.

No cores were cut. The XPT tool was run on wire line and 10 good pressure points were recorded showing three slightly different water gradients in the Garn, Ile/Ror, and Tilje formations, respectively. No wire line fluid samples were taken.

The well was permanently abandoned on 8 May 2011 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
480.00	2928.00

Borekaks tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2539.0	[m]	DC	PETROSTR
2545.0	[m]	DC	PETROS
2551.0	[m]	DC	PETROS
2557.0	[m]	DC	PETROS
2563.0	[m]	DC	PETROS
2569.0	[m]	DC	PETROS
2575.0	[m]	DC	PETROS
2581.0	[m]	DC	PETROS
2588.0	[m]	DC	PETROS
2593.0	[m]	DC	PETROS
2599.0	[m]	DC	PETROS
2605.0	[m]	DC	PETROS
2611.0	[m]	DC	PETROS
2617.0	[m]	DC	PETROS
2623.0	[m]	DC	PETROS
2629.0	[m]	DC	PETROS

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
257	NORDLAND GP
624	NAUST FM
1239	KAI FM
1288	HORDALAND GP
1288	BRYGGE FM
1966	ROGALAND GP
1966	TARE FM
2023	TANG FM
2117	SHETLAND GP
2117	SPRINGAR FM
2157	NISE FM
2285	KVITNOS FM
2515	CROMER KNOLL GP
2515	LANGE FM
2530	LYR FM
2538	VIKING GP

2538	SPEKK FM
2622	FANGST GP
2622	GARN FM
2667	NOT FM
2700	ILE FM
2755	ROR FM
2875	TILJE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL USIT	1372	2587
LWD - PP ARC8 TELE SADN	2588	2928
MWD - ARCRES9 TELE	317	1304
PEX DSI XPT	2520	2932

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	317.5	36	320.5	0.00	LOT
SURF.COND.	20	464.3	26	474.0	1.37	LOT
INTERM.	13 3/8	1294.0	17 1/2	1308.0	1.62	LOT
INTERM.	9 5/8	2587.0	12 1/4	2592.0	1.99	LOT
OPEN HOLE		2928.0	8 1/2	2928.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
450	1.22	16.0		OBM-Low ECD	
471	1.14	14.0		KCl/Polymer/Glycol	
852	1.18	16.0		KCl/Polymer/Glycol	
1235	1.23	19.0		KCl/Polymer/Glycol	
1304	1.25	20.0		KCl/Polymer/Glycol	
1353	1.54	22.0		OBM-Low ECD	
1907	1.22	16.0		OBM-Low ECD	
2407	1.22	16.0		OBM-Low ECD	

2588	1.22	17.0		OBM-Low ECD	
2588	1.54	23.0		OBM-Low ECD	
2913	1.21	16.0		OBM-Low ECD	
2928	1.21	15.0		OBM-Low ECD	