



Generell informasjon

Brønnbane navn	6507/3-10
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6507/3-10 (Klara)
Brønn navn	6507/3-10
Seismisk lokalisering	3D survey EN0804-inline 4540 & xline 42853
Utvinningstillatelse	159 C
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1460-L
Boreinnretning	SONGA TRYM
Boredager	53
Borestart	25.06.2013
Boreslutt	16.08.2013
Frigitt dato	16.08.2015
Publiseringsdato	17.08.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	GARN FM
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	TILJE FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	374.0
Totalt målt dybde (MD) [m RKB]	3455.0
Totalt vertikalt dybde (TVD) [m RKB]	3454.0
Maks inklinasjon [°]	8.1
Temperatur ved bunn av brønnbanen [°C]	129
Eldste penetrerte alder	EARLY JURASSIC



Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	65° 55' 43.48" N
ØV grader	7° 54' 0.18" E
NS UTM [m]	7312591.55
ØV UTM [m]	449937.28
UTM sone	32
NPDID for brønnbanen	7212

Brønnhistorie

General

The 6507/3-10 Klara well was drilled west of the Revfallet Fault Complex, in a transition zone between the Nordland

Ridge and the Dønna Terrace in the Norwegian Sea. The primary objective was to prove economical hydrocarbon volumes in the Fangst and Båt Groups in the Klara prospect.

Operations and results

A pilot hole (6507/3-U-4) was drilled down to the planned setting depth of the 20" casing at 1200 m. No shallow gas or shallow water flow was observed in the pilot hole. Wildcat well 6507/3-10 was spudded with the semi-submersible installation Songa Trym on 25 June 2013 and drilled to TD at 3455 m in the Early Jurassic Åre Formation. After drilling to TD in the 17 1/2" section, the upper annular preventer was found damaged. The hole section stood open for ca 10 days while this was worked out and the 13 3/8" casing could be set. Further operations proceeded without significant problem. The well was drilled with seawater down to 1197 m, with KCl/polymer/GEM mud from 1197 m to 2050 m, and with XP-07 spec. 14a oil based mud from 2050 m to TD.

The top of the primary target reservoir (Garn Formation) was picked at 3272 m, 11 m shallower than prognosed. Good reservoir properties were proven in the Garn Formation. However, only a 10 m column of oil was encountered. A thin oil zone (2-3 m) was also encountered in the upper part of the Tilje Formation at 3357 m. The reservoir section was drilled with only minor gas readings (0.2-1 % total gas), even though hydrocarbons (oil) were proven in the core. The shows were described as very weak and below 3303 m, no shows were observed.

Two cores were cut in the interval 3274 to 3355.9 m with 100% recovery. MDT fluid samples were taken at 3274.6 m (oil), 3281.9 m (water), 3357.6 m (oil with small amounts of mud filtrate), and 3403.6 m (water).

The well was permanently abandoned on 16 August 2013 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1200.00	3455.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3274.0	3301.8	[m]
2	3301.8	3355.9	[m]

Total kjerneprøve lengde [m]	81.9
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
399	NORDLAND GP
655	NAUST FM
1295	KAI FM
1620	HORDALAND GP
1620	BRYGGE FM
1904	ROGALAND GP
1904	TARE FM
1958	TANG FM
2013	SHETLAND GP
2013	SPRINGAR FM
2093	NISE FM
2545	KVITNOS FM
2557	CROMER KNOLL GP
2557	LANGE FM
2719	LYR FM
2842	VIKING GP
2842	SPEKK FM
3002	MELKE FM
3272	FANGST GP
3272	GARN FM
3278	NOT FM



3321	ILE FM
3333	BÅT GP
3333	ROR FM
3357	TILJE FM
3406	ÅRE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT MSIP PEX ECS	3102	3457
AIT PPC XPT	3118	3300
LWD - ARCVRES TELE	450	1190
LWD - PD ARCVRES TELE	1190	3151
MDT	3330	3419
USIT CBL GR	2239	3156

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	450.0	36	458.0	0.00	
SURF.COND.	20	1187.0	26	1197.0	1.58	FIT
PILOT HOLE		1200.0	9 7/8	1200.0	0.00	
INTERM.	13 3/8	2044.0	17 1/2	2050.0	1.68	FIT
LINER	9 5/8	3159.0	12 1/4	3160.0	2.36	FIT
OPEN HOLE		3455.0	8 1/2	3455.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
540	1.03			Seawater	
750	1.54	30.0		KCl/Polymer/GEM	
1200	1.30	12.0		KCl/Polymer/GEM	
1429	1.31	23.0		KCl/Polymer/Glycol	
2050	1.54	40.0		KCl/Polymer/GEM	
3160	1.54	32.0		XP-07 - Yellow	
3274	1.45	25.0		XP-07 - Yellow	



3455	1.45	25.0		XP-07 - Yellow	
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