Generell informasjon

Brønnbane navn	6507/3-6
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6507/3-6
Seismisk lokalisering	inline 3700 & crossline 2020(DNO07M01)
Utvinningstillatelse	383
Boreoperatør	Det norske oljeselskap ASA (old)
Boretillatelse	1235-L
Boreinnretning	BREDFORD DOLPHIN
Boredager	26
Borestart	29.05.2009
Boreslutt	23.06.2009
Frigitt dato	23.06.2011
Publiseringsdato	23.06.2011
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	377.0
Totalt målt dybde (MD) [m RKB]	1650.0
Totalt vertikalt dybde (TVD) [m RKB]	1650.0
Maks inklinasjon [°]	0.6
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	65° 47' 47.37'' N
ØV grader	7° 55' 16.5'' E
NS UTM [m]	7297834.85
ØV UTM [m]	450648.81
UTM sone	32
NPDID for brønnbanen	6073

Brønnhistorie

General

Well 6507/3-6 was drilled on the Sør High, east of the Dønna Terrace in the Norwegian Sea. The primary objective was to test the hydrocarbon potential of the Fangst and Båt group reservoirs. Garn Formation, if present, was expected to be 10 thick. The Ile Formation reservoir would most likely be present, with a thickness of about 15 meters. The Tilje Formation was expected to make up the majority of the reservoir thickness and volume. The well was planned to be drilled down into the Åre Formation of early Jurassic age.

Operations and results

Wildcat well 6507/3-6 was spudded with the semi-submersible installation Bredford Dolphin on 23 June 2009 and drilled to TD at 1650 m in the Early Jurassic Åre Formation. The well was drilled with spud mud down to 459 m, with KCl/GEM water based mud from 459 m to 612 m, and with Performadril mud from 612 m to TD.

Good reservoir sandstones were proven both in the Garn, Ile and Tilje formations. As expected, the Garn and Ile formations were relatively thin, 6 and 15.5 m, respectively, but with high N/G and porosities well above 30 %. The main reservoir of the Tilje and Åre formation, was 164.5m thick and also contained sandstones with high N/G and good reservoir properties.

All reservoir sandstones were proven water filled and no shows were observed.

After reaching TD, VSP logging and MSCT sampling was performed. No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 23 June 2009 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
620.00	1651.00

Borekaks tilgjengelig for prøvetaking?	YES

Litostratigrafi

Top depth [mMD RKB]	Lithostrat. unit
402	NORDLAND GP
402	NAUST FM

1083	KAI FM
1291	FANGST GP
1291	GARN FM
1297	NOT FM
1304	ILE FM
1319	BÅT GP
1319	ROR FM
1360	TILJE FM
1422	ÅRE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
6073	pdf	0.22

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MSCT	1227	1637
MWD LWD - DIR	402	460
MWD LWD - DIR DGR EWR PWD	460	1211
MWD LWD - DIR DGR EWR PWD BAT CT	1211	1650
VSP	403	1650

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	456.0	36	459.0	0.00	LOT
SURF.COND.	20	610.6	26	612.5	1.40	LOT
INTERM.	9 5/8	1205.0	12 1/4	1212.0	1.74	LOT
OPEN HOLE		1650.0	8 1/2	1650.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
459	1.38	30.0		KCl/Gem	
496	1.38	33.0		KCl/Gem	
612	1.14	31.0		Performadril	
612	1.32	28.0		KCl/Gem	
628	1.14	32.0		Performadril	
673	1.20	40.0		Performadril	
1110	1.26	40.0		PERFORMATROL low sulphate	
1211	1.26	60.0		Performadril	
1211	1.26	55.0		Performadril	
1343	1.25	64.0		PERFORMATROL low sulphate	
1650	1.25	50.0		PERFORMADRIL low sulphate	