



Generell informasjon

Brønnbane navn	6407/8-5 A
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	HYME
Funn	6407/8-5 A
Brønn navn	6407/8-5
Seismisk lokalisering	3D survey BPN9501R05 inline 575 & crossline 1780
Utvinningstillatelse	348
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1259-L
Boreinnretning	WEST ALPHA
Boredager	15
Borestart	30.05.2009
Boreslutt	13.06.2009
Frigitt dato	13.06.2011
Publiseringsdato	13.06.2011
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	ILE FM
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	TILJE FM
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	252.0
Totalt målt dybde (MD) [m RKB]	3231.0
Totalt vertikalt dybde (TVD) [m RKB]	2011.4
Maks inklinasjon [°]	115.3
Eldste penetrerte alder	EARLY JURASSIC



Eldste penetrerte formasjon	TILJE FM
Geodetisk datum	ED50
NS grader	64° 20' 56.6" N
ØV grader	7° 33' 44.3" E
NS UTM [m]	7136873.69
ØV UTM [m]	430558.81
UTM sone	32
NPDID for brønnbanen	6153

Brønnhistorie

General

Well 6407/8-5 A is a sidetrack to well 6407/8-5 S on the Gygrid prospect situated 7 km west of the Draugen Field in the Norwegian Sea. The main well 6407/8-5 S found oil without gas cap in the Tilje Formation. The target of the sidetrack was to explore the hydrocarbon bearing Tilje Formation up-flanks on the structure.

Operations and results

Appraisal sidetrack well 6407/8-5 A was drilled with the semi-submersible installation West Alpha. The side track started on 30 May 2009 with milling a window through the 9 5/8" liner from 2412 m to 2415.2 m. A whip stock was set at 2419.5 m MD and the new section started from 2420 m MD, and was drilled down to Early Jurassic Tilje Formation at the deepest and then back up to Early Cretaceous, Kvitnos Formation with final TD at 3231 m (2011 m TVD). The well bore was drilled with Versatec oil based mud from kick-off to TD.

The sidetrack proved a 38 m oil column with an OWC at ca 2040 m TVD in the Ile Formation and a 98 m oil column with an OWC at ca 2151 m TVD in the Tilje Formation. No gas cap was seen in the reservoirs. The combined pressure data from the main well and the sidetrack showed that the water gradient in Ile and Tilje have a pressure difference of approximately one bar. This indicates that the Ror Formation act as a pressure barrier. Both water gradients have slightly higher pressure than the initial pressure on Draugen. Draugen has been producing for 16 years, and pressure depletion would have been expected if Gygrid was in communication with Draugen. Thus no communication is expected and Gygrid is most likely at initial pressure. No shows above the OBM were seen in the well.

No cores were cut in the well bore. MDT oil samples were taken at 2999 m in the Tilje Formation and at 3169 m in the Ile Formation.

The well was permanently abandoned on 13 June 2009 as an oil appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2420.00	2699.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
270	NORDLAND GP
270	NAUST FM
900	KAI FM
936	HORDALAND GP
936	BRYGGE FM
1516	ROGALAND GP
1516	TARE FM
1604	TANG FM
1730	SHETLAND GP
1730	SPRINGAR FM
1775	NISE FM
1910	KVITNOS FM
2100	VIKING GP
2100	SPEKK FM
2180	MELKE FM
2253	FANGST GP
2253	GARN FM
2317	NOT FM
2347	ILE FM
2458	BÅT GP
2458	ROR FM
2566	TILJE FM
3004	ROR FM
3014	FANGST GP
3014	ILE FM
3194	CROMER KNOLL GP
3194	LYR FM
3199	SHETLAND GP
3199	KVITNOS FM

Spleisede logger





Dokument navn	Dokument format	Dokument størrelse [KB]
6153	pdf	0.41

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - DIR	2412	2420
LWD - DIR GR RES DEN NEU SON	2420	3231
MDT GR	2449	3191

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.	9 5/8	2412.0	12 1/4	2469.0	1.40	LOT
OPEN HOLE		3231.0	8 1/2	3231.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2941	1.18	19.0		Versatec	
3024	1.18	20.0		Versatec	
3080	1.18	18.0		Versatec	
3164	1.18	16.0		Versatec	
3231	1.18	22.0		Versatec	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
6153 Formation pressure (Formasjonstrykk)	PDF	0.31

