



Generell informasjon

Brønnbane navn	6407/8-4 A
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6407/8-4 A
Brønn navn	6407/8-4
Seismisk lokalisering	BPN9501R05 & line496 & trace 2708 & seismic 3D survey
Utvinningstillatelse	348
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1183-L
Boreinnretning	WEST ALPHA
Boredager	26
Borestart	22.05.2008
Boreslutt	16.06.2008
Frigitt dato	16.06.2010
Publiseringsdato	16.06.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	TILJE FM
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	266.0
Totalt målt dybde (MD) [m RKB]	2473.0
Totalt vertikalt dybde (TVD) [m RKB]	2319.0
Maks inklinasjon [°]	44.5
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	64° 26' 47.8" N
ØV grader	7° 38' 54.2" E



NS UTM [m]	7147652.53
ØV UTM [m]	434947.46
UTM sone	32
NPDID for brønnbanen	5814

Brønnhistorie

General

Well 6407/8-4 A is a sidetrack from the Galtvort well 6407/8-4 S, located on the eastern margin of the Gimsan Basin in the Norwegian Sea, ca 7 km northwest of the Draugen Field. A main fault separates the middle and northern segments of the Galtvort structure from the southern segment. The southern segment was tested in well 6407/8-4 S and found gas in the Fangst Group. The primary objective of the sidetrack was to test the hydrocarbon potential of prospective formations in the middle and northern segments in order to test the sealing potential of the main fault crossing the structure.

Operations and results

Wildcat well 6407/8-4 A was drilled with the semi-submersible installation West Alpha as a sidetrack. It was kicked off from a milled window (1497 - 1502 m) in the 13 3/8" casing in 6407/8-4 S on 22 May 2008 and drilled to TD at 2473 m (2319 m TVD) in the Early Jurassic Åre Formation. The well was drilled with Glydril mud from kick-off to TD. No significant technical problems were encountered in the operations.

Prior to drilling it was prognosed that the sidetrack should penetrate the same formations as well 6407/8-4 S. Due to a much larger fault throw between the Middle and the South Galtvort Segments and hence more extensive uplift and erosion of the Middle and North Segments than anticipated, the entire Fangst Group was eroded. As a result the well penetrated directly from the Cretaceous Kvitnos Formation and into the Båt Group at 2117.8 m (2026.7 m TVD). The upper part of the Båt Group consisted of Ror Formation mudstones and only thin Tofte equivalent sandstones of mediocre reservoir quality. The underlying Tilje Formation came in at 2217 m (2106 m TVD) and was gas bearing down to a GWC somewhere in the interval 2175 to 2183 m TVD SS. Weak oil shows were observed in cuttings between 2226 m to 2274 m in the Tilje Formation. Otherwise no oil shows were observed in the sidetrack wellbore.

No cores were cut in this wellbore. MDT wire line gas samples were taken at 2219 m, 2120.4 m, and at 2121 m. Sampling was performed with only a few bar drawdown and the samples are believed to be representative of the formation fluids.

The well was permanently abandoned on 16 June 2008 as a gas discovery.

Testing

No drill stem test was performed.

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Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1510.00	2463.00



Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2830.0	[m]	DCS	HYDRO
2835.0	[m]	DCS	HYDRO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
284	NORDLAND GP
284	NAUST FM
997	KAI FM
1025	HORDALAND GP
1025	BRYGGE FM
1658	ROGALAND GP
1658	TARE FM
1731	TANG FM
1910	SHETLAND GP
1910	NISE FM
2081	KVITNOS FM
2118	BÅT GP
2118	ROR FM
2217	TILJE FM
2424	ÅRE FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
5814_01_6407_8_4A_gch_transfer_1	txt	0.00
5814_02_6407_8_4A_gch_results_1	txt	0.09

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR MDT GR	2110	2224





FMI HNGS	2062	2473
MSIP HRLA PEX ECS	1500	2476
MWD - GR RES DIR PWD	1497	2473

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	2062.0	12 1/4	2062.0	1.85	LOT
OPEN HOLE		2473.0	8 1/2	2473.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1507	1.46	20.0		Glydril	
1546	1.50	23.0		Glydril	
1820	1.50	21.0		Glydril	
2062	1.50	19.0		Glydril	
2100	1.31	17.0		Glydril	
2180	1.31	15.0		Glydril	
2222	1.31	15.0		Glydril	
2265	1.30	17.0		Glydril	
2372	1.30	20.0		Glydril	
2473	1.30	12.0		Glydril	
2473	1.20	11.0		Glydril	

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]
5814 Formation pressure (Formasjonstrykk)	pdf	0.30

