



Generell informasjon





Brønnbane navn	6406/6-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6406/6-2
Seismisk lokalisering	HW95M in line:4860 trace = x-line:2000
Utvinningstillatelse	255
Boreoperatør	A/S Norske Shell
Boretillatelse	1118-L
Boreinnretning	WEST ALPHA
Boredager	131
Borestart	23.09.2006
Boreslutt	31.01.2007
Frigitt dato	31.01.2009
Publiseringsdato	09.03.2009
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	253.0
Totalt målt dybde (MD) [m RKB]	4670.0
Totalt vertikalt dybde (TVD) [m RKB]	4669.0
Maks inklinasjon [°]	2.5
Temperatur ved bunn av brønnbanen [°C]	172
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	TILJE FM
Geodetisk datum	ED50
NS grader	64° 31' 0.51" N
ØV grader	6° 53' 8.53" E
NS UTM [m]	7156474.06
ØV UTM [m]	398508.77
UTM sone	32
NPDID for brønnbanen	5359



Brønnhistorie

General

Well 6406/6-2 was drilled on the Onyx West prospect in the Halten Terrace, Norwegian Sea. Onyx West is an Early - Middle Jurassic fault block prospect. The primary objective of well 6406/6-2 was to determine the presence of commercial volumes of hydrocarbons in the Early to Middle Jurassic reservoirs of the Tilje, Tofte, Ile, and Garn

Formations, and potentially the Åre Formation. There were no secondary objective levels in the Cretaceous or Tertiary. The location of the 6406/6-2 well was chosen to penetrate all reservoir intervals within closure without leaving economic volumes up dip.

Operations and results

Well 6406/6-2 was spudded with the semi-submersible installation West Alpha on 23 September 2006 and drilled to TD at 4670 m in the Lower Tilje Formation. The well was planned for 109 days, and the actual days were 135 days. Major Non Productive Time events were due to weather (25%), and two shoe repair events and pack off events in the 17.5" hole section. The well was drilled with seawater down to 383, with Spud mud / KCL brine-SW pills / Glydril from 383 m to 1430 m, with Ultradill water based mud from 1430 m to 2340 m, and with Paratherm oil based mud from 2340 m to TD. The site survey indicated no shallow gas at the well location. As predicted, no shallow gas was encountered in this well.

The lithology encountered came in as prognosed except for the Garn Formation, which was found to be shaled out. The Ile, Tofte and Tilje Formations were all found to be entirely water bearing. Shows were observed on sandstones and siltstones of the Ile Formation. There were indications of residual gas in low porosity sands in the Upper Ile and Upper Tilje Formations.

MDT pressure points were acquired. Clear water gradients were established in the Lower Ile and Tofte formations. MDT water samples were collected in the Lower Ile formation and confirmed Onyx West as dry. No cores were taken.

The well was permanently abandoned on 31 January 2007 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1450.00	4668.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
271	NORDLAND GP
271	NAUST FM
1287	KAI FM
1700	HORDALAND GP
1700	BRYGGE FM
2225	ROGALAND GP
2225	TARE FM
2317	TANG FM
2400	SHETLAND GP
2400	SPRINGAR FM
2503	NISE FM
2712	KVITNOS FM
2861	CROMER KNOLL GP
2861	LANGE FM
3679	NO FORMAL NAME
3900	LANGE FM
4032	LYR FM
4051	VIKING GP
4051	SPEKK FM
4068	MELKE FM
4164	FANGST GP
4164	GARN FM
4233	NOT FM
4282	ILE FM
4390	BÅT GP
4390	ROR FM
4417	TOFTE FM
4450	ROR FM
4561	TILJE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
5359	pdf	0.65





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	2175	2330
CBL	2951	3846
GPIT PPC DSI EMS AIT LDT APS GR	3940	4655
IPLT PPC AIT DSI GPIT	2330	3922
MDT APS GR	4171	4614
USIT CBL	1775	2280
VSI	1681	3659

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	380.0	36	385.0	0.00	LOT
SURF.COND.	20	1410.0	26	1422.0	1.71	LOT
INTERM.	13 3/8	2330.0	17 1/2	2340.0	1.90	LOT
INTERM.	9 7/8	3944.0	12 1/4	3950.0	2.10	LOT
OPEN HOLE		4670.0	8 1/2	4670.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
383	1.20			SPUD MUD	
1435	1.50	27.0		ULTRADRIL	
1922	1.63	36.0		ULTRADRIL	
2349	1.71	46.0		ULTRADRIL	
2354	1.81	35.0		PARATHERM	
3920	1.85	43.0		PARATHERM	
3934	1.84	39.0		PARATHERM	
3950	1.84	39.0		PARATHERM	
3951	1.84	39.0		PARATHERM	