



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 20:12

Brønnbane navn	6406/8-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6406/8-2
Seismisk lokalisering	crossline 2968-inline 1932(TO05M01 PSDM)
Utvinningsstillatelse	323
Boreoperatør	Total E&P Norge AS
Boretillatelse	1124-L
Boreinnretning	OCEAN VANGUARD
Boredager	163
Borestart	28.10.2006
Boreslutt	08.04.2007
Frigitt dato	08.04.2009
Publiseringsdato	08.04.2009
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	21.5
Vanndybde ved midlere havflate [m]	363.6
Totalt målt dybde (MD) [m RKB]	4700.0
Totalt vertikalt dybde (TVD) [m RKB]	4697.0
Maks inklinasjon [°]	5
Temperatur ved bunn av brønnbanen [°C]	169
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	TILJE FM
Geodetisk datum	ED50
NS grader	64° 28' 49.95" N
ØV grader	6° 20' 17.62" E
NS UTM [m]	7153423.99
ØV UTM [m]	372069.89
UTM sone	32
NPDID for brønnbanen	5435



Brønnhistorie

General

Well 6406/8-2 was drilled to evaluate the Hans prospect, a rotated and truncated Jurassic fault block in the southern part of the Sklinna Ridge on the Halten Terrace. The primary objective of the well was to test the hydrocarbon potential of the Middle and Early Jurassic Ile, Tofte and Tilje Formations. As reservoir pressure of 795 bar and reservoir temperature of 150 deg (+/- 5 deg) were expected at top Ile Formation (- 4250m TVDSS), the well was designated as High Pressure High Temperature (HPHT).

Operations and results

Well was spudded with the semi-submersible installation Ocean Vanguard on 28 October 2006 and drilled to TD at 4700m in the Early Jurassic Tilje Formation. The well was drilled and logged in 163 days of which ca 28 days were WOW. The well was drilled with seawater and hi-vis sweeps down to 1422 m, with Performadril WBM (0-5% glycol) from 1422 m to 2361 m, and with XP-07 oil based mud (15 - 35 % iso + n-alkanes) from 2361 m to TD.

A total of 123.5 m of net sands were found in the Middle to Lower Jurassic reservoirs corresponding to a NTG of 33.8%. Effective porosity averaged 15.7% with water saturation of up to 93.4%. All main objectives Ile, Tofte and Tilje Formations were water bearing, with no indication of any hydrocarbons. The only oil shows reported from the well were some very weak shows at 2890 - 2940 m in thin Springar Formation sands. Only one significant gas peak of 5.1% occurred when entering the Ile reservoir.

No coring, fluid sampling or VSP were acquired. MDT pressures acquired in Ile, Ror and Tilje Formations confirmed a water gradient of 1.02 sg. No wire line fluid samples were taken.

The well was permanently abandoned on 8 April 2007 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1440.00	4700.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
385	NORDLAND GP
385	NAUST FM



1450	KAI FM
2022	HORDALAND GP
2022	BRYGGE FM
2710	ROGALAND GP
2710	TARE FM
2772	TANG FM
2830	SHETLAND GP
2830	SPRINGAR FM
2944	NISE FM
3167	KVITNOS FM
3563	CROMER KNOLL GP
3563	LANGE FM
4240	LYR FM
4248	FANGST GP
4248	NOT FM
4264	ILE FM
4383	BÅT GP
4383	ROR FM
4399	TOFTE FM
4468	ROR FM
4593	TILJE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
ACTS GR CBL VDL	1976	2323
ACTS GR CNL TLD DSI GPIT GR	2334	3054
AIT DSI IS GR	4142	4639
AIT DSI IS LDS APS HNGS	4142	4427
DSI CH	2400	3040
DSI IS LDS APS GR ACTS ECRD	3040	4139
GR MDT	4264	4410
GR MDT	4264	4711
MWD - GABI DIR GR RES PWD	1430	1856
MWD - GR RES PWD DIR	1856	2361
MWD - GR RES PWD DIR	4152	4700
MWD - PWD AGR RES DIR	3063	4152
MWD - PWD DGR RES DIR	2361	3063
MWD - PWD GR RES DIR	466	1430



VDL CBL GR CCL	2500	4153
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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	458.0	36	466.0	0.00	LOT
SURF.COND.	20	1409.0	26	1422.0	1.67	LOT
INTERM.	16	2332.0	19 3/4	2339.0	1.91	LOT
INTERM.	13 3/8	3034.0	16	3063.0	0.00	LOT
INTERM.	9 5/8	4136.0	12 1/4	4152.0	2.00	LOT
OPEN HOLE		4700.0	8 1/2	4700.0	2.14	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
958	1.20			SPUD MUD	
1200	1.02			SPUD MUD	
1430	1.20			SPUD MUD	
1610	1.50	52.0		KCL/POLYMER-GLY	
1814	1.60	29.0		KCL/POLYMER-GLY	
1855	1.60	58.0		KCL/POLYMER-GLY	
1920	1.60	47.0		KCL/POLYMER-GLY	
2064	1.60	56.0		KCL/POLYMER-GLY	
2361	1.50	21.0		KCL/POLYMER-GLY	
2380	1.70	20.0		NABM	
3063	1.78	30.0		NABM	
3562	1.78	46.0		NABM	
3900	1.92	78.0		NABM	
4032	1.91	58.0		NABM	
4045	1.85	56.0		NABM	
4152	1.91	30.0		NABM	
4338	1.91	30.0		NABM	
4603	1.91	38.0		DUMMY	
4700	1.91	58.0		NABM	