



Generell informasjon

Brønnbane navn	6406/1-3
Type	EXPLORATION
Formål	APPRAISAL
Status	SUSPENDED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6406/1-2 (Sklinna)
Brønn navn	6406/1-3
Seismisk lokalisering	NA01 M2-3D-inline 2484 & crossline 1465
Utvinningstillatelse	256
Boreoperatør	Eni Norge AS
Boretillatelse	1084-L
Boreinnretning	OCEAN VANGUARD
Boredager	68
Borestart	16.10.2004
Boreslutt	22.12.2004
Frigitt dato	22.12.2006
Publiseringsdato	28.06.2007
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	361.0
Totalt målt dybde (MD) [m RKB]	4276.0
Totalt vertikalt dybde (TVD) [m RKB]	4275.0
Maks inklinasjon [°]	3.2
Eldste penetrerte alder	CRETACEOUS
Eldste penetrerte formasjon	LANGE FM
Geodetisk datum	ED50
NS grader	64° 54' 25.97" N
ØV grader	6° 8' 25.34" E
NS UTM [m]	7201351.97
ØV UTM [m]	364711.00
UTM sone	32
NPDID for brønnbanen	4986



Brønnhistorie

General

Well 6406/1-3 is located west of the 6406/1-2 and the Kristin gas discoveries off shore Mid Norway. The main purpose was to test the extension of the gas discovery found in Lower Cretaceous Lange Unit 3 sandstones of the Cromer Knoll Group in well 6406/1-2. Secondary purpose was to test the hydrocarbon potential of the Cretaceous Lange Sequence 1 and 2.

Operations and results

Well 6406/1-3 was spudded with the semi-submersible installation Ocean Vanguard on 16 October 2004 and drilled to TD at 4276 m in the Early Cretaceous Lange Formation. Between 2330 and 2396 m the BHA got stuck several times and it was decided to set the 13 3/8" casing shoe at 2312 m (188 m above the planned depth). Due to these problems it was also decided to switch to an oil based mud system. The well was drilled with seawater/PAC and hi-vis pills down to 1309 m, with Performadrill water based mud from 1309 m to 2507 m, and with XP-07 Oil based mud from 2507 m to TD.

No hydrocarbons were encountered in the well. The Lysing Formation sandstones found at 3419 m was water bearing. Shows evaluation on cuttings was difficult due to mineral fluorescence from CaCO₃ mud additives and cut fluorescence from the oil based mud. In conclusion no oil shows were observed in the well. Only MWD logs were acquired in the well. No logs or samples were acquired on wire line. No sidewall cores or conventional cores were taken.

At 22:40 on 14 December two of the anchor winches failed. The rig moved rapidly off location, parting the riser and the diverter ball joint and the well had to be abandoned for rig repair. The well was abandoned probably only 30 m above the main target. The well is classified as a dry appraisal without shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1310.00	4274.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

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



1590	KAI FM
2106	HORDALAND GP
2106	BRYGGE FM
2485	ROGALAND GP
2485	TARE FM
2551	TANG FM
2600	SHETLAND GP
2600	SPRINGAR FM
2683	NISE FM
3419	CROMER KNOLL GP
3419	LYSING FM
3442	LANGE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - DIR	160	1309
MWD - DIR	383	460
MWD - DIR	2317	2507
MWD - GR RES DIR	4130	4276
MWD - GR RES DIR SON	460	1309
MWD - GR RES DIR SON	1314	2507
MWD - GR RES SON DENS NEU DIR	2512	4130

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	455.0	36	460.0	0.00	LOT
SURF.COND.	20	1297.0	26	1309.0	1.52	LOT
INTERM.	13 3/8	2312.0	17 1/2	2314.0	1.56	LOT
INTERM.	9 7/8	4119.0	12 1/4	4130.0	2.14	LOT
OPEN HOLE		4276.0	8 1/2	4276.0	0.00	LOT

Boreslam



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 29.5.2024 - 12:10

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløytgrense [Pa]	Type slam	Dato, måling
1020	1.03			SEAWATER	
1043	1.20			SEAWATER	
1309	1.20			SALT MUD	
1314	1.30	32.0		WBM (PERFOMADRI	
1760	1.32	34.0		WBM (PERFOMADRI	
2507	1.53	40.0		WBM (PERFOMADRI	
2510	1.60	42.0		WBM (PERFOMADRI	
2797	1.70	30.0		OBM (XP 07)	
3287	1.71	31.0		OBM (XP 07)	
3521	1.80	46.0		OBM (XP 07)	
4130	1.84	44.0		OBM (XP 07)	
4276	1.92	47.0		OBM (XP 07)	