



Generell informasjon

Brønnbane navn	3/6-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	3/6-1
Seismisk lokalisering	3D ST 9602 Inline 3466-Crossline 3910
Utvinningstillatelse	238
Boreoperatør	Norsk Agip AS
Boretillatelse	976-L
Boreinnretning	TRANSOCEAN NORDIC
Boredager	21
Borestart	20.06.2000
Boreslutt	10.07.2000
Frigitt dato	10.07.2002
Publiseringsdato	18.12.2002
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	34.0
Vanndybde ved midlere havflate [m]	64.0
Totalt målt dybde (MD) [m RKB]	2167.0
Totalt vertikalt dybde (TVD) [m RKB]	2167.0
Maks inklinasjon [°]	0.75
Temperatur ved bunn av brønnbanen [°C]	70
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	TOR FM
Geodetisk datum	ED50
NS grader	56° 35' 0.14" N
ØV grader	4° 53' 30.35" E
NS UTM [m]	6272751.48
ØV UTM [m]	616199.20
UTM sone	31
NPDID for brønnbanen	4117



Brønnhistorie

General

The purpose of drilling well 3/6-1 was to test the hydrocarbon potential of the Paleocene sandstones of the Intra Lista Formation in the Hilde prospect. The Hilde prospect was a structural four-way dip closure, induced by halokinesis of the Zechstein salt. The Paleocene reservoir pinches out towards the crest of the structure. A secondary target was the Oligocene Lower Skade Sands.

Operations and results

Wildcat well 3/6-1 was drilled with the jack-up installation "Transocean Nordic" to a total depth of 2167 m in the Cretaceous Limestones of the Tor Formation. The legs were pinned on location and the rig accepted to be in position on June 17, 2000. Due to authority requirements a soil boring had to be made before starting the drilling of the well. On 19 June soil sample coring was done down to 128 m. The well was spudded on June 20, 2000. Of 24 days total well time only 4.5% of the total time was unproductive time. From 1047 m to 2003 m gas levels remained between 1,00% and 0,20% except for peaks associated with limestone stringers, these being 3,20% at 1210 m; 3,50% at 1217 m and 1.78% at 1248 m. Gas levels did not exceed 0,50% from 2050 m for the remainder of the well. It is suspected that the high overbalance was responsible for the low gas levels throughout the 12" hole section (1047 m to TD).

The well was drilled with spud mud and sea water / bentonite down to 1047 m and KCl/PAC mud with glycol from 1047 m to TD. The main reservoir of Paleocene age was encountered at 2003 m. Paleocene sandstones of both the Intra Sele and the Intra Lista Formations were encountered in this well. RCI pressure measurements proved that the sandstones were in communication and they could be described as one reservoir unit. The Paleocene sandstones were found water bearing. This was confirmed both by the wireline logs, the formation pressures and sampling. One core was cut in the well (2008 m to 2011.5 m). Three wire line samples were taken at 1622 m (Oligocene), 2009 m (Paleocene), and 2075 m (Paleocene). All three contained water, but phenols analysis of the samples from 2009 and 2075 m gave elevated phenol contents in the range 200 to 300 ppb. Oil shows were recorded from 2008 m to 2010,6 m in sandstone in the core (weak brown fluorescence) and dull brown cut fluorescence in a sidewall core at 2003 m. The secondary target reservoir sand was encountered at 1530 m. It was water bearing with no indications of hydrocarbons. The well was plugged and abandoned as a dry well on July 10.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
190.00	2167.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2008.0	2010.6	[m]

Total kjerneprøve lengde [m]	2.6
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2008-2022m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
98	NORDLAND GP
791	HORDALAND GP
1081	NO FORMAL NAME
1093	NO FORMAL NAME
1116	NO FORMAL NAME
1129	NO FORMAL NAME
1530	VADE FM
1639	NO FORMAL NAME
1931	ROGALAND GP
1931	BALDER FM
1957	SELE FM
2002	FISKEBANK FM
2033	LISTA FM
2051	NO FORMAL NAME
2092	SHETLAND GP
2092	EKOFISK FM



Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4117	pdf	0.31

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4117 1	pdf	0.41

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4117 3 6 1 COMPLETION REPORT	.pdf	2.56

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CST GR	1518	2115
HDLL MAC HLL TTRM GR	998	2139
MWD - MPT GR DIR RE	181	2167
RCI TTRM GR	1532	2119
STAR-II TTRM GR	1052	2148
VSP GR	800	2136
ZDL CN DSL TTRM GR	1012	2148

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	180.0	36	180.0	0.00	LOT
INTERM.	13 3/8	1047.0	17 1/2	1047.0	1.65	LOT





OPEN HOLE		2167.0	12 1/4	2167.0	0.00	LOT
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Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
180	1.05			SPUD MUD	
708	1.12	4.0		SW/BENTONITE	
973	1.20	4.0		SW/BENTONITE	
1047	1.20	6.0		SW/BENTONITE	
1085	1.30	19.0		KCL/PAC/GLYCOL	
1632	1.35	26.0		KCL/PAC/GLYCOL	
1961	1.39	27.0		KCL/PAC/GLYCOL	
2008	1.39	27.0		KCL/PAC/GLYCOL	
2136	1.39	25.0		KCL/PAC/GLYCOL	
2167	1.35	21.0		KCL/PAC/GLYCOL	

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]
4117 Formation pressure (Formasjonstrykk)	pdf	0.23

