



Generell informasjon





Brønnbane navn	6404/11-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6404/11-1
Seismisk lokalisering	RHD 99-3D:inline 3063 & xline4182
Utvinningstillatelse	254
Boreoperatør	BP Amoco Norge AS
Boretillatelse	1019-L
Boreinnretning	SCARABEO 5
Boredager	96
Borestart	01.12.2001
Boreslutt	10.03.2002
Frigitt dato	10.03.2004
Publiseringsdato	10.03.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	1495.0
Totalt målt dybde (MD) [m RKB]	3650.0
Totalt vertikalt dybde (TVD) [m RKB]	3649.7
Maks inklinasjon [°]	2
Temperatur ved bunn av brønnbanen [°C]	93
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	NISE FM
Geodetisk datum	ED50
NS grader	64° 10' 11.91" N
ØV grader	4° 21' 36.65" E
NS UTM [m]	7116837.72
ØV UTM [m]	566124.46
UTM sone	31
NPDID for brønnbanen	4465



Brønnhistorie

General

The pre-drill objective of the PL254 well 6404/11-1 was to test the Havsule Prospect. The prospect is a seismically defined north - south trending structural dome located in the north of the Møre Basin in the Norwegian Sea, thought to have developed during the Tertiary Period in response to compression during opening of the North Atlantic Ocean. Three primary reservoir targets were identified: T50, an Early Eocene Turbidite sandstone with 4-way dip closure; K90, a Maastrichtian turbidite sandstone with 4-way dip closure; and K80, a Nise sandstone. An optional secondary target was K72, a 4-way dip closure Coniacian Lysing turbidite.

Operations and results

Wildcat well 6404/11-1 well was spudded with the dynamically positioned semi-submersible installation Scarabeo 5 on 1 December 2001. A 12 1/4" pilot hole was drilled from seabed to 2195 m in one bit run. No indications of shallow gas or abnormal pore pressures were observed from drilling data or on LWD. After drilling to section TD the bit was

pulled and the hole opened from 362 m to 1629 m. While repositioning one of the subsea marker buoys it was inadvertently dropped into the hole necessitating a re-spud of the well 28.6m to the north-northwest of the original hole location.

The well was re-spudded on 6 December 2001 using a 42" x 36" hole opener assembly. The 26" hole was drilled to 2175 m with seawater and hi-vis sweeps. After displacing to seawater, circulating the hole clean and pulling to 1870 m bubbles were seen flowing from the wellhead. Drillpipe was run to bottom and the hole was made static with 1.20 sg mud. Casing was run and cemented without problem, however weather delayed running the BOP's and riser. The 17" hole section was drilled with KCl/Polymer mud. It was TD? d 15 m shallow to prognosis due to concerns over increasing pore pressure. After running and cementing the 13 3/8" casing it was necessary to run a piggy-back casing hanger to allow the seal assembly to seat in the correct position. A value of 1.38 sg was obtained for the leak-off after drilling out the 13 3/8" casing and drilling 12 1/4" hole commenced. From here to TD the well was drilled with Aquadrill Deepwater mud with a 13 ? 15 % glycol content. Drilling was halted at 2730 m when pore pressure was seen to have reached 1.25 sg and the bit was pulled into the casing shoe. In an attempt to carry on drilling an open-hole leak-off was performed that confirmed the 1.38 sg value obtained earlier. Having insufficient kick tolerance to drill ahead, the decision was made to run a 9 5/8" liner. A triple-combo wire line log was run to acquire data over the drilled section. Liner was set and a 1.47 sg leak-off was obtained. Drilling commenced in 8 1/2" hole. No reservoir horizons were identified and the well was TD?d at a depth of 3650 m.

The shallowest primary target (Early Eocene T50 sandstones) was absent at the well location. Late Cretaceous (K90 sandstones) was absent and K80 (Nise Formation) sandstones were poorly developed. The well was not extended to penetrate the deeper, K72 (Lysing Formation) secondary target. Three wire line logging runs were performed. Conventional cores were not cut. No fluid samples were taken

The 6404/11-1 well was plugged and abandoned as a dry hole on 10 March 2002.

Testing

No drill stem test was performed



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2180.00	3651.00
Borekaks tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2180.0	[m]	C	OD
2190.0	[m]	C	OD
2200.0	[m]	C	OD
2210.0	[m]	C	OD
2220.0	[m]	C	OD
2230.0	[m]	C	OD
2240.0	[m]	C	OD
2250.0	[m]	C	OD
2260.0	[m]	C	OD
2270.0	[m]	C	OD
2280.0	[m]	C	OD
2290.0	[m]	C	OD
2300.0	[m]	C	OD
2310.0	[m]	C	OD
2320.0	[m]	C	OD
2330.0	[m]	C	OD
2340.0	[m]	C	OD
2350.0	[m]	C	OD
2360.0	[m]	C	OD
2370.0	[m]	C	OD
2380.0	[m]	C	OD
2390.0	[m]	C	OD
2400.0	[m]	C	OD
2410.0	[m]	C	OD
2420.0	[m]	C	OD
2430.0	[m]	C	OD
2440.0	[m]	C	OD
2445.0	[m]	C	OD
2454.0	[m]	C	OD
2457.0	[m]	C	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 16.5.2024 - 18:52

2460.0	[m]	C	OD
2463.0	[m]	C	OD
2466.0	[m]	C	OD
2469.0	[m]	C	OD
2472.0	[m]	C	OD
2475.0	[m]	C	OD
2478.0	[m]	C	OD
2481.0	[m]	C	OD
2484.0	[m]	C	OD
2487.0	[m]	C	OD
2490.0	[m]	C	OD
2493.0	[m]	C	OD
2496.0	[m]	C	OD
2499.0	[m]	C	OD
2502.0	[m]	C	OD
2505.0	[m]	C	OD
2508.0	[m]	C	OD
2511.0	[m]	C	OD
2514.0	[m]	C	OD
2517.0	[m]	C	OD
2520.0	[m]	C	OD
2523.0	[m]	C	OD
2526.0	[m]	C	OD
2529.0	[m]	C	OD
2532.0	[m]	C	OD
2535.0	[m]	C	OD
2538.0	[m]	C	OD
2541.0	[m]	C	OD
2544.0	[m]	C	OD
2547.0	[m]	C	OD
2550.0	[m]	C	OD
2553.0	[m]	C	OD
2556.0	[m]	C	OD
2559.0	[m]	C	OD
2568.0	[m]	C	OD
2571.0	[m]	C	OD
2574.0	[m]	C	OD
2577.0	[m]	C	OD
2580.0	[m]	C	OD



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
1520	NORDLAND GP
1520	NAUST FM
2223	HORDALAND GP
2223	BRYGGE FM
2526	ROGALAND GP
2526	TARE FM
2605	TANG FM
2748	SHETLAND GP
2748	SPRINGAR FM
3206	NISE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4465	pdf	0.24

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4465_1	pdf	13.76

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4465_6404_11_1_COMPLETION_LOG	.pdf	10.09
4465_6404_11_1_DRILLING_COMPLETION_REPORT	.PDF	2.66
4465_6404_11_1_GEOLOGICAL_COMPLETION_REPORT	.PDF	0.32

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - ARC-5 GR	2730	3650
LWD - GR CDR	1495	2195
LWD - GR CDR	2171	2449
LWD - GVR8 GR CDR	2449	2730
MSCT GR	2739	3593
MWD	1628	2175
PEX HRLA EMS DSI SP	2440	2718
PEX NGS HRLA DSI SP EMS	2649	3640
VSP GR	1700	3645

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	1622.0	36	1628.0	0.00	LOT
INTERM.	20	2170.0	26	2175.0	0.00	LOT
INTERM.	13 3/8	2443.0	17	2449.0	1.37	LOT
INTERM.	9 5/8	2728.0	12 1/4	2730.0	0.00	LOT
OPEN HOLE		3650.0	8 1/2	3650.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2175	0.00			SPUD MUD	
2258	1.17	17.0		KCL	
2449	1.29	20.0		KCL	
2480	1.30	18.0		SALT MUD	
2551	1.31	19.0		SALT MUD	
2730	1.35	19.0		SALT MUD	
3351	1.37	25.0		SALT MUD	
3650	1.40	26.0		SALT MUD	