



Generell informasjon

Brønnbane navn	16/4-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	16/4-3
Seismisk lokalisering	UP96 3D X-LINE 2922 & INLINE 497
Utvinningstillatelse	243
Boreoperatør	BP Amoco Norge AS
Boretillatelse	987-L
Boreinnretning	WEST DELTA
Boredager	20
Borestart	05.12.2000
Boreslutt	24.12.2000
Frigitt dato	24.12.2002
Publiseringsdato	29.08.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	102.0
Totalt målt dybde (MD) [m RKB]	2425.0
Totalt vertikalt dybde (TVD) [m RKB]	2425.0
Maks inklinasjon [°]	1.7
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	EKOFISK FM
Geodetisk datum	ED50
NS grader	58° 42' 18.51" N
ØV grader	2° 3' 51.45" E
NS UTM [m]	6507747.85
ØV UTM [m]	445780.92
UTM sone	31
NPDID for brønnbanen	4194



Brønnhistorie

General

Block 16/4 was initially awarded to Norsk Hydro as PL087 in 1984. Two exploration wells were drilled; 16/4-1 in 1984 and 16/4-2 in 1990. Both wells were targeted at Eocene prospects, however neither well was successful due to the inability of hydrocarbons to successfully migrate through thick Palaeocene mudstones into the targeted Eocene prospects. Subsequently, PL087 was relinquished on 1 January 1995. BP, in partnership with Norsk Hydro, was awarded Block 16/4 as the PL243 license as part of the North Sea Awards in 1999. The 16/4-3 well is the first well drilled in the license since the award and was targeted to penetrate Palaeocene turbidite sands in the Fluoritt Prospect located at the western edge of the Utsira High in the South Viking Graben of the North Sea. It was designed to determine the hydrocarbon type and properties in the Fluoritt Prospect.

Operations and results

Exploration well 16/4-3 well was spudded with the semi-submersible installation "West Delta" on 5 December 2000 and drilled to TD at 2425 m in the Early Paleocene Ekofisk Formation. The well was drilled with seawater and bentonite hi-vis pills down to 400 m, with KCl polymer mud from 400 m to 1700 m, and with KCl glycol enhanced mud ("GEM") from 1700 m to TD. Top Hermod was encountered 27 m low to prognosis at 2196.3 m. Hydrocarbon fluorescence was observed in cuttings from thin Hermod sands the in the interval 2195 m - 2220 m and also from a Middle Heimdal Formation sand in the interval 2277 m to 2282 m, however, the Hermod sandstones were poorly developed at the well location and are considered uneconomic. No conventional or sidewall cores were cut in the well. No fluid samples were taken, neither on wire line nor from DST. Well 16/4-3 was permanently abandoned as a well with oil shows on 24 December 2000.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
410.00	2425.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
131	NORDLAND GP
745	UTSIRA FM



952	UNDIFFERENTIATED
1032	HORDALAND GP
1110	SKADE FM
1143	NO FORMAL NAME
1823	GRID FM
1880	NO FORMAL NAME
2075	ROGALAND GP
2075	BALDER FM
2132	SELE FM
2196	HERMOD FM
2197	SELE FM
2207	HERMOD FM
2208	SELE FM
2245	LISTA FM
2277	HEIMDAL FM
2282	LISTA FM
2334	HEIMDAL FM
2412	SHETLAND GP
2412	EKOFISK FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4194	pdf	0.33

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4194_1	pdf	0.86

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4194_16_4_3_COMPLETION_LOG	.pdf	10.05
4194_16_4_3_COMPLETION_REPORT	.pdf	0.60





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CSAT GR	700	2417
MDT GR	2196	2354
MPR - GR BAT	403	2425
MPR - GR	130	403
PEX GR HRLA DSI SP	130	2421

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	204.5	36	204.5	0.00	LOT
SURF.COND.	20	400.0	26	401.0	1.70	LOT
INTERM.	9 5/8	1700.0	12 1/4	1701.0	1.72	LOT
OPEN HOLE		2425.0	8 1/2	2425.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1011	1.27	22.0		KCL	
1475	1.28	25.0		KCL	
1700	1.28	20.0		KCL	
1825	1.36	20.0		KCL	
2425	1.38	20.0		KCL	

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]
4194_Formation_pressure_(Formasjonstrykk)	pdf	0.22

