



Generell informasjon

Brønnbane navn	2/7-30
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	2/7-30
Seismisk lokalisering	EGDAR-ROW 341 COLONNE 1554
Utvinningstillatelse	018
Boreoperatør	Phillips Petroleum Company Norway
Boretillatelse	803-L
Boreinnretning	MÆRSK GUARDIAN
Boredager	43
Borestart	27.02.1995
Boreslutt	10.04.1995
Frigitt dato	10.04.1997
Publiseringsdato	26.10.2009
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	43.0
Vanndybde ved midlere havflate [m]	71.0
Totalt målt dybde (MD) [m RKB]	3478.0
Totalt vertikalt dybde (TVD) [m RKB]	3477.0
Maks inklinasjon [°]	3.6
Temperatur ved bunn av brønnbanen [°C]	121
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	HOD FM
Geodetisk datum	ED50
NS grader	56° 26' 22.49" N
ØV grader	3° 16' 25.5" E
NS UTM [m]	6255178.06
ØV UTM [m]	516879.70
UTM sone	31
NPDID for brønnbanen	2394

**Brønnhistorie****General**

Well 2/7-30 was drilled on the Edgar prospect in the Feda Graben ca 4 km north-east of the Eldfisk Field in the southern North Sea. The objective was to test a combined structural/stratigraphic play first identified on seismic data as a high-amplitude anomaly within the Late Cretaceous (Maastrichtian) Tor Formation. The primary target for the 2/7-30 well was the upper Tor Formation as defined through seismic inversion modelling of the anomaly. The Paleocene (Danian) Ekofisk Formation was regarded as a secondary target, with two possible productive intervals, an upper zone of reworked Danian chalk and a lower zone dominated by reworked Maastrichtian deposits.

Operations and results

Wildcat well 2/7-30 was spudded with the jack-up installation Maersk Guardian on 27 February 1995 and drilled to TD at 3478 m in the Late Cretaceous Hod Formation. No significant problem was encountered in the operations. Coring in the well was performed with a "Security/DBS coring system" where the inner barrel is oil filled. Apparently the base oil in this system have contaminated some of the organic geochemical data from the cores from the well. The well was drilled with seawater and bentonite/native clay down to 469 m and with a KCl/Pac/Glycol mud from 469 m to TD.

The top Ekofisk Formation was encountered at 3150.1 m wire line depth, which was 17.4 m higher than prognosed. Both the upper and lower allochthonous intervals in Ekofisk Formation proved water wet, despite some fair shows observed during drilling/coring. Porosity up to 25-28% and permeability close to 1 mD was obtained in these intervals. No pressure data or formation fluid samples were collected due to the low permeabilities. Geochemical analysis of residual oil from the core samples concluded that the Egdar oil is similar to the oil in the Eldfisk Bravo structure. The primary target, top Tor Formation, was encountered at 3241.9 m, 12.2 m high to prognosis. A 36.6 m thick section with porosity of 30-35% (average 31 %) and permeabilities of 1-4 mD was penetrated. There was an isolated show of oil at 3248.6 m; otherwise the Tor Formation was devoid of hydrocarbons. The pressure measurements fell on a water gradient and were 200-300 psi (13.6 - 20.4 bar) lower than the initial pressure estimate for Eldfisk Field at comparable depth. It is likely that the upper Tor Formation on Egdar is in pressure communication with the Eldfisk Bravo structure. No porous intervals or shows were encountered in the Hod Formation.

A total of 125.3 m core was cut in 6 cores from 3140.0 m in the lower Vale Formation, through the entire Ekofisk Formation and terminated at 3276.0 m in the base of the porous Tor Formation interval. No wire line fluid samples were taken due to the low permeabilities encountered in the chalk sections.

The well was permanently abandoned on 10 April 1995 as a dry well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
472.00	3477.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	10302.0	10363.6	[ft]
2	10363.6	10454.6	[ft]
3	10454.6	10545.0	[ft]
4	10545.0	10602.6	[ft]
5	10602.0	10623.0	[ft]
6	10658.0	10748.3	[ft]

Total kjerneprøve lengde [m]	125.5
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



10302-10317ft



10317-10332ft



10332-10347ft



10347-10362ft



10362-10363ft



10363-10378ft



10378-10393ft



10393-10408ft



10408-10423ft



10423-10438ft





10438-10453ft 10453-10454ft 10454-10469ft 10469-10484ft 10484-10499ft



10499-10514ft 10514-10529ft 10529-10544ft 10544-10545ft 10545-10560ft



10560-10575ft 10575-10590ft 10590-10602ft 10602-10617ft 10617-10623ft



10658-10673ft 10673-10688ft 10688-10703ft 10703-10718ft 10718-10733ft



10733-10748ft

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
10250.0	[ft]	DC	
10270.0	[ft]	DC	
10302.0	[ft]	C	
10605.0	[ft]	C	

Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
114	NORDLAND GP
1765	HORDALAND GP
3012	ROGALAND GP
3012	BALDER FM
3025	SELE FM
3081	LISTA FM
3130	VÅLE FM
3150	SHETLAND GP
3150	EKOFISK FM
3242	TOR FM
3326	HOD FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2394_1	pdf	0.13
2394_2	pdf	2.20

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2394_2_7_30_COMPLETION_REPORT_AND_LOG	pdf	65.25

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT LDL CNL GR AMS	10286	11420
CBL VDL GR CCL	360	5686
CST	10640	11407
DLL MSFL DSI NGT AMS	10286	11356
FMS GR AMS	10286	11430
LDL GPIT DSI ACTS GR	5015	10287
MDT GR AMS	10356	11184
MWD LWD - CDR RES GR DIR	662	10288





VSP	2100	11425
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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	209.0	36	210.0	0.00	LOT
SURF.COND.	20	462.0	26	465.0	0.00	LOT
INTERM.	13 3/8	1529.0	17 1/2	1530.0	0.00	LOT
INTERM.	9 5/8	3136.0	12 1/4	3140.0	0.00	LOT
OPEN HOLE		3477.0	8 1/2	3477.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
184	1.20	22.0		WATER BASED	
469	1.20	8.0		WATER BASED	
1462	1.49	35.0		WATER BASED	
1534	1.49	33.0		WATER BASED	
2887	1.74	47.0		WATER BASED	
3079	1.74	15.0		WATER BASED	
3140	1.58	30.0		WATER BASED	
3232	1.56	35.0		WATER BASED	
3478	1.56	37.0		WATER BASED	

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]
2394_Formalion_pressure_(Formasjonstrykk)	pdf	0.21

