



Generell informasjon

Brønnbane navn	34/10-37 A
Type	EXPLORATION
Formål	APPRAISAL
Status	SUSPENDED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GULLFAKS SØR
Funn	34/10-37 Gullveig
Brønn navn	34/10-37
Seismisk lokalisering	NOD4-84-06 & SP2030
Utvinningstillatelse	050
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	808-L
Boreinnretning	DEEPSEA BERGEN
Boredager	39
Borestart	22.02.1995
Boreslutt	03.04.1995
Frigitt dato	03.04.1997
Publiseringsdato	19.10.2006
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	TARBERT FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	140.0
Totalt målt dybde (MD) [m RKB]	2950.0
Totalt vertikalt dybde (TVD) [m RKB]	2845.0
Maks inklinasjon [°]	32.4
Temperatur ved bunn av brønnbanen [°C]	102
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	NESS FM
Geodetisk datum	ED50
NS grader	61° 8' 9.78" N



ØV grader	2° 0' 55.81" E
NS UTM [m]	6778501.30
ØV UTM [m]	446979.26
UTM sone	31
NPDID for brønnbanen	2530

Brønnhistorie

General

Well 34/10-37 was drilled in the Tampen Spur area, ca 8 km WNW of the Gullfaks Sør Field. The results from 34/10-37 indicated a more complex fault pattern at the crest of the structure than expected and it was decided to drill a sidetrack.

The objective of the sidetrack, 34/10 - 37 A, was to investigate the presence of a low angle fault at the crest of the D-prospect, which could explain the missing sections of the Tarbert Formation in 34/10-37. The well was planned to penetrate the top of the Brent Group at a higher level than in 34/10-37 and terminate 50 m TVD below the oil-water contact in the Brent Group.

Operations and results

Appraisal well 34/10 - 37 A was kicked off through casing at 2049 m in well 34/10-37 on 22 February 1995 using the semi-submersible installation Deepsea Bergen. It was drilled to TD at 2950 m in the Middle Jurassic Ness Formation. No significant problems were reported from the operations. The well was drilled with KCl/PAC mud from kick-off to TD.

In addition to the formations encountered in 34/10-37 the well encountered the Rødby Formation, the Mime Formation and the Draupne Formation. Well 34/10-37 A penetrated the top of the Brent Group 15 m deeper than prognosed, but higher than in 34/10-37. An almost complete sequence of the Tarbert Formation was found in this well. The Brent Group proved to be hydrocarbon bearing with an "oil down to" at 2622 m TVD MSL.

Four conventional core were cut from 2664 m to 2741 m in the Tarbert and Ness Formations. No FMT samples were collected in the well.

The well was suspended on 3 April 1995 as an oil appraisal

Testing

The well was tested over the interval 2667 to 2697 m, and flowed with a rate of 1950 Sm³/day oil and 645000 Sm³/day gas (GOR = 330 Sm³/Sm³). The bottom hole temperature measured during the test was 97.2 deg C. A total of 4235 Sm³ oil was transferred to the vessel Crystal Sea and shipped to Mongstad.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2060.00	2950.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2664.0	2684.1	[m]
2	2684.5	2704.9	[m]
3	2705.5	2717.3	[m]
4	2720.5	2729.3	[m]
5	2731.0	2740.8	[m]

Total kjerneprøve lengde [m]	70.8
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2664-2669m



2669-2674m



2674-2679m



2679-2684m



2684-2684m



2689-2694m



2694-2699m



2699-2704m



2704-2705m



2705-2710m



2710-2715m



2715-2717m



2720-2725m



2725-2729m



2731-2736m



2736-2741m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2510.0	[m]	DC	GEOST
2520.0	[m]	DC	GEOST
2530.0	[m]	DC	GEOST
2540.0	[m]	DC	GEOST
2550.0	[m]	DC	GEOST
2560.0	[m]	DC	GEOST
2593.0	[m]	SWC	STATO
2596.0	[m]	SWC	STATO
2602.0	[m]	DC	GEOST
2608.0	[m]	DC	GEOST
2614.0	[m]	DC	GEOST
2620.0	[m]	DC	GEOST
2626.0	[m]	DC	GEOST
2629.0	[m]	DC	GEOST
2635.0	[m]	DC	GEOST
2641.0	[m]	DC	GEOST
2647.0	[m]	DC	GEOST
2653.0	[m]	SWC	STATO
2657.0	[m]	SWC	STATO
2664.0	[m]	C	GEOST
2668.0	[m]	C	GEOST
2672.0	[m]	C	GEOST
2679.0	[m]	C	GEOST
2685.0	[m]	C	GEOST
2691.0	[m]	C	GEOST
2696.0	[m]	C	GEOST
2699.0	[m]	C	GEOST
2702.0	[m]	C	GEOST
2708.0	[m]	C	GEOST



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 11.5.2024 - 16:18

2711.0 [m]	C	GEOST
2716.0 [m]	C	GEOST
2721.0 [m]	C	GEOST
2724.0 [m]	C	GEOST
2727.0 [m]	C	GEOST
2729.0 [m]	C	GEOST
2731.0 [m]	C	GEOST
2735.0 [m]	C	GEOST
2738.0 [m]	C	GEOST
2740.0 [m]	C	GEOST
2743.0 [m]	DC	GEOST
2747.0 [m]	SWC	STATO
2749.0 [m]	DC	GEOST
2755.0 [m]	DC	GEOST
2761.0 [m]	DC	GEOST
2767.0 [m]	DC	GEOST
2773.0 [m]	DC	GEOST
2779.0 [m]	DC	GEOST
2785.0 [m]	DC	GEOST
2793.0 [m]	SWC	STATO
2797.0 [m]	DC	GEOST
2803.0 [m]	DC	GEOST
2804.0 [m]	SWC	STATO
2809.0 [m]	DC	GEOST
2815.0 [m]	DC	GEOST
2817.0 [m]	SWC	STATO
2821.0 [m]	DC	GEOST
2827.0 [m]	DC	GEOST
2833.0 [m]	DC	GEOST
2835.0 [m]	SWC	STATO
2842.0 [m]	DC	GEOST
2849.0 [m]	SWC	STATO
2857.0 [m]	DC	GEOST
2862.0 [m]	SWC	STATO
2869.0 [m]	DC	GEOST
2875.0 [m]	DC	GEOST
2881.0 [m]	DC	GEOST
2887.0 [m]	DC	GEOST
2894.0 [m]	SWC	STATO
2899.0 [m]	DC	GEOST



2908.0	[m]	DC	GEOST
2914.0	[m]	DC	GEOST
2920.0	[m]	DC	GEOST
2929.0	[m]	DC	GEOST
2935.0	[m]	DC	GEOST
2941.0	[m]	DC	GEOST
2944.0	[m]	DC	GEOST
2950.0	[m]	DC	GEOST
2993.0	[m]	DC	GEOST

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
163	NORDLAND GP
916	UTSIRA FM
958	HORDALAND GP
1754	ROGALAND GP
1754	BALDER FM
1830	LISTA FM
1858	SHETLAND GP
2569	CROMER KNOLL GP
2569	RØDBY FM
2576	MIME FM
2587	VIKING GP
2587	DRAUPNE FM
2593	HEATHER FM
2660	BRENT GP
2660	TARBERT FM
2718	NESS FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2530_1	pdf	5.16

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
2530_34_10_37_A_COMPLETION_REPORT_AND_LOG	pdf	33.54

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	2667	2697	20.0
1.1	2667	0	11.1
1.2	2667	0	0.0
1.3	2667	0	0.0
1.4	2667	0	11.1

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0	8.500		35.400	97
1.1				
1.2				
1.3				
1.4				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0	1950	645000	0.820	0.730	330
1.1	500		0.820	0.720	300
1.2	1969		0.820	0.730	320
1.3	1969		0.820	0.730	320
1.4	595				309

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DIPLOG GR	2545	2951
DLL MLL DAC ZDL CN DSL	2550	2946
FMT QDYNE GR	2660	2903





MWD - RGD	2052	2950
SWC GR	2525	2912
VSP	2215	2882

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
OPEN HOLE		2950.0	8 1/2	2950.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2056	1.62	50.0		WATER BASED	
2210	1.57	30.0		WATER BASED	
2362	1.57	27.0		WATER BASED	
2650	1.57	37.0		WATER BASED	
2684	1.57	36.0		WATER BASED	
2950	1.57	41.0		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]
2530 Formation pressure (Formasjonstrykk)	pdf	0.21

