



Generell informasjon

Brønnbane navn	9/2-5
Type	EXPLORATION
Formål	APPRAISAL
Status	RE-CLASS TO DEV
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	YME
Funn	9/2-3
Brønn navn	9/2-5
Seismisk lokalisering	ST 9413- INLINE 760 & CROSSLINE 655
Utvinningstillatelse	114
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	816-L
Boreinnretning	DEEPSEA BERGEN
Boredager	29
Borestart	23.06.1995
Boreslutt	21.07.1995
Frigitt dato	21.07.1997
Publiseringsdato	24.09.2002
Opprinnelig formål	APPRAISAL
Reklassifisert til brønnbane	9/2-B-1 H
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	SANDNES FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	BRYNE FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	77.0
Totalt målt dybde (MD) [m RKB]	3355.0
Totalt vertikalt dybde (TVD) [m RKB]	3354.6
Maks inklinasjon [°]	1.8
Temperatur ved bunn av brønnbanen [°C]	118



Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	BRYNE FM
Geodetisk datum	ED50
NS grader	57° 45' 15.3" N
ØV grader	4° 21' 21.16" E
NS UTM [m]	6402303.16
ØV UTM [m]	580693.95
UTM sone	31
NPDID for brønnbanen	2599

Brønnhistorie

General

The objective for the well 9/2-5 was to appraise the extension of the oil-bearing sequence in the Beta East structure on the Yme field.

Operations and results

Appraisal well 9/2-5 was spudded with the semi-submersible installation "DeepSea Bergen" on 23 June 1995 and drilled to a total depth of 3355 m in the Middle Jurassic Bryne Formation. The well was drilled with very small target tolerances, hence a directional assembly with motor was utilized in order to steer. The well had a final inclination of 2.1° and hit target according to tolerances. The well was drilled 13 days faster than planned; especially the drilling operations went faster than expected. The well was planned and drilled without the use of 20" casing, which gave substantial time saving. The well was drilled with seawater and hi-vis pills down to 1750 m and KCl mud with glycol from 1750 m to TD. The Sandnes and the Bryne Formations were penetrated slightly deeper than prognosed. Both proved better reservoir quality than expected based on information from the well 9/2-3. FMT sampling proved that the Beta East structure has the same oil gradient and water gradient as the Gamma structure. The oil/water contact was recorded at 3270 m TVD (3247 m TVD MSL). Two cores were cut in the interval 3154 to 3193 m in the Sandnes Formation. Several FMT runs were initiated to obtain representative formation fluid samples from the Sandnes Formation. The content of the first segregated sample, Run 2A, confirmed considerable invasion of mud filtrate and made it necessary to increase the volume of the pre-flush chamber. This change in tool configuration led to several misruns due to operational tool failures. Finally, in Run 2F, indications of a successful segregated sample were obtained and the 4-liter PVT chamber was transferred to standard PVT bottles for onshore PVT analysis. One more attempt, Run 2G, was performed

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1590.00	3355.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3154.0	3163.6	[m]
2	3164.5	3192.9	[m]

Total kjerneprøve lengde [m]	38.0
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3154-3159m



3159-3163m



3164-3169m



3169-3174m



3174-3179m



3179-3184m



3184-3189m



3189-3193m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2990.0	[m]	DC	GEOSTR
3006.0	[m]	DC	GEOSTR
3018.0	[m]	DC	GEOSTR
3030.0	[m]	DC	GEOSTR
3042.0	[m]	DC	GEOSTR
3054.0	[m]	DC	GEOSTR
3066.0	[m]	DC	GEOSTR
3078.0	[m]	DC	GEOSTR



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 16.5.2024 - 02:24

3080.0	[m]	DC	GEOSTR
3090.0	[m]	DC	GEOSTR
3100.0	[m]	DC	GEOSTR
3102.0	[m]	DC	GEOSTR
3110.0	[m]	DC	GEOSTR
3114.0	[m]	DC	GEOSTR
3125.3	[m]	DC	GEOSTR
3138.0	[m]	DC	GEOSTR
3144.0	[m]	DC	GEOSTR
3150.0	[m]	DC	GEOSTR
3154.0	[m]	DC	GEOSTR
3156.0	[m]	DC	GEOSTR
3158.5	[m]	C	GEOSTR
3159.0	[m]	DC	GEOSTR
3167.8	[m]	C	GEOSTR
3171.5	[m]	C	GEOSTR
3172.9	[m]	C	GEOSTR
3173.2	[m]	C	GEOSTR
3181.9	[m]	C	GEOSTR
3183.5	[m]	C	GEOSTR
3184.7	[m]	C	GEOSTR
3191.4	[m]	C	GEOSTR
3195.0	[m]	DC	GEOSTR
3201.0	[m]	DC	GEOSTR
3207.0	[m]	DC	GEOSTR
3213.0	[m]	DC	GEOSTR
3222.0	[m]	DC	GEOSTR
3228.0	[m]	DC	GEOSTR
3234.0	[m]	DC	GEOSTR
3240.0	[m]	DC	GEOSTR
3246.0	[m]	DC	GEOSTR
3252.0	[m]	DC	GEOSTR
3261.0	[m]	DC	GEOSTR
3267.0	[m]	DC	GEOSTR
3273.0	[m]	DC	GEOSTR
3279.0	[m]	DC	GEOSTR
3285.0	[m]	DC	GEOSTR
3291.0	[m]	DC	GEOSTR
3297.0	[m]	DC	GEOSTR
3303.0	[m]	DC	GEOSTR



3309.0	[m]	DC	GEOSTR
3315.0	[m]	DC	GEOSTR
3321.0	[m]	DC	GEOSTR
3327.0	[m]	DC	GEOSTR
3333.0	[m]	DC	GEOSTR
3339.0	[m]	DC	GEOSTR
3345.0	[m]	DC	GEOSTR
3351.0	[m]	DC	GEOSTR
3355.0	[m]	DC	GEOSTR

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
100	NORDLAND GP
414	HORDALAND GP
923	ROGALAND GP
923	BALDER FM
961	SELE FM
988	LISTA FM
1020	VÅLE FM
1035	SHETLAND GP
1035	EKOFISK FM
1134	TOR FM
1386	HOD FM
1795	BLODØKS FM
1832	CROMER KNOLL GP
1832	RØDBY FM
1849	SOLA FM
1945	ÅSGARD FM
2595	BOKNEFJORD GP
2595	FLEKKEFJORD FM
2706	SAUDA FM
3021	TAU FM
3078	EGERSUND FM
3146	VESTLAND GP
3146	SANDNES FM
3263	BRYNE FM



Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
2599	pdf	0.36

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2599 9 2 5 COMPLETION REPORT AND LOG	pdf	8.03

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DIFL ACL GR	1572	3124
DIFL ACL ZDL CN GR	3095	3354
DIPLOG GR	2400	3115
DLL MLL DSL	3312	2253
DPR	3125	3355
DPR TF4-5A	144	3125
FMT CHT OD GR	3152	3322
ZOVSP	500	3105

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
SURF.COND.	30	159.0	36	160.0	0.00	LOT
CONDUCTOR	13 3/8	1572.0	17 1/2	1573.0	1.81	LOT
INTERM.	9 5/8	3115.0	12 1/4	3117.0	1.80	LOT
LINER	7	3355.0	8 1/2	3355.0	0.00	LOT

Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
240	1.03			WATER BASED	26.06.1995
1218	1.03	26.0	26.0	WATER BASED	26.06.1995
1586	1.40	19.0	21.5	WATER BASED	28.06.1995
1586	1.03	18.0	39.0	WATER BASED	29.06.1995
1660	1.04	18.0	39.0	WATER BASED	30.06.1995
1825	1.45	27.0	15.5	WATER BASED	03.07.1995
2230	1.42	26.0	17.5	WATER BASED	03.07.1995
2710	1.50	32.0	15.5	WATER BASED	04.07.1995
2819	1.42	25.0	16.0	WATER BASED	03.07.1995
2975	1.50	32.0	15.5	WATER BASED	04.07.1995
3115	1.40	25.0	16.5	WATER BASED	17.07.1995
3115	1.40	24.0	18.0	WATER BASED	18.07.1995
3115	1.40	25.0	17.0	WATER BASED	12.07.1995
3125	1.40	20.0	16.0	WATER BASED	11.07.1995
3154	1.40	20.0	16.0	WATER BASED	11.07.1995
3166	1.40	25.0	17.0	WATER BASED	11.07.1995
3234	1.40	25.0	17.0	WATER BASED	12.07.1995
3284	1.40	23.0	15.5	WATER BASED	14.07.1995
3329	1.40	23.0	17.0	WATER BASED	14.07.1995
3355	1.40	25.0	16.5	WATER BASED	17.07.1995

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]
2599 Formation pressure (Formasjonstrykk)	PDF	0.22

