



Generell informasjon

Brønnbane navn	33/9-19 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	SYGNA
Funn	33/9-19 S Sygna
Brønn navn	33/9-19
Seismisk lokalisering	E 86 REPR. 93 INLINE 620& CROSSL. 990
Utvinningstillatelse	037
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	848-L
Boreinnretning	TRANS. WILDCAT
Boredager	25
Borestart	29.06.1996
Boreslutt	23.07.1996
Frigitt dato	23.07.1998
Publiseringsdato	01.07.2004
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	ETIVE FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	RANNOCH FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	304.0
Totalt målt dybde (MD) [m RKB]	3197.0
Totalt vertikalt dybde (TVD) [m RKB]	3061.0
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	61° 28' 33.56" N



ØV grader	1° 59' 50.6" E
NS UTM [m]	6816380.31
ØV UTM [m]	446585.05
UTM sone	31
NPDID for brønnbanen	2830

Brønnhistorie

General

Well 33/9-19 S is situated in the Tampen Spur area. The well targeted the Statfjord Nord Nordøst Segment at the north-eastern extension of the Statfjord North Field structure in blocks 33/9 and 34/7. The objective was to prove the minimum economical recoverable reserves and the most likely oil water contact in the Brent Group.

Operations and results

The 33/9-19 S well was spudded on the 29 of June 1996, using the semi-submersible installation "Transocean Wildcat". The well was drilled in a north-western direction to TD at 3197 m in the Early Jurassic Statfjord Formation. A pilot hole was drilled to 450 m. No shallow gas was recorded. The 36" and 17 1/2" sections were drilled with sea water and swept clean with bentonite mud. The 12 1/4" hole section was drilled with Ancho-2000 mud and the 8 1/2" hole section was drilled with Ancovert Oil based mud.

The target Base Cretaceous/Top Brent was reached at 2689.0 m (2646.8 m TVD RKB), 28 m shallower than prognosed. Sandstone in the Brent Group was oil filled from top down to claystone at 2811 m. Drilling continued towards the planned TD in Dunlin Group with an inclination of 35°. After having reached this TD, it was decided to continue drilling in order to investigate the Statfjord Formation reservoir characteristics and to improve the mapping of the Brent and Dunlin Groups. The inclination stayed at approximately 29.5° to final TD at 3197 m (3061.5 m TVD RKB). Top Statfjord Formation, which was water wet, came in at 3122 m (2996 m TVD RKB), 19 m TVD shallower than prognosed.

One 90 ft core was cut from 2709 to 2727 m (100% recovery). The core jammed off after 18 m during coring of a calcite cemented sandstone interval. The core consisted of 100% HC filled Brent Group sandstone. MDT samples were recovered from depth 2701 m.

The well 33/9-19 S was plugged back for side-tracking on 23 July 1996. It is classified as an oil discovery on

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
780.00	3197.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----



Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2709.0	2727.2	[m]

Total kjerneprøve lengde [m]	18.2
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2709-2714m



2714-2719m



2719-2714m



2724-2727m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2651.0	[m]	DC	UOS
2660.0	[m]	DC	UOS
2669.0	[m]	DC	UOS
2675.0	[m]	DC	UOS
2684.0	[m]	DC	UOS
2689.0	[m]	SWC	UOS
2691.0	[m]	SWC	UOS
2696.0	[m]	DC	UOS
2697.0	[m]	SWC	UOS
2699.0	[m]	DC	UOS
2719.5	[m]	SWC	UOS
2722.9	[m]	SWC	UOS
2726.5	[m]	SWC	UOS
2736.0	[m]	DC	UOS
2765.0	[m]	DC	UOS
2774.0	[m]	DC	UOS



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 16.5.2024 - 00:21

2792.0	[m]	DC	SWC
2795.0	[m]	DC	UOS
2801.0	[m]	DC	UOS
2810.0	[m]	DC	UOS
2816.0	[m]	SWC	UOS
2822.0	[m]	DC	UOS
2828.0	[m]	DC	UOS
2837.0	[m]	DC	UOS
2849.0	[m]	DC	UOS
2855.0	[m]	DC	UOS
2873.0	[m]	DC	UOS
2885.0	[m]	DC	UOS
2897.0	[m]	DC	UOS
2906.0	[m]	DC	UOS
2915.0	[m]	DC	UOS
2924.0	[m]	DC	UOS
2933.0	[m]	DC	UOS
2942.0	[m]	DC	UOS
2947.0	[m]	DC	UOS
2948.0	[m]	DC	UOS
2957.0	[m]	DC	UOS
2966.0	[m]	DC	UOS
2975.0	[m]	DC	UOS
2984.0	[m]	DC	UOS
2993.0	[m]	DC	UOS
3002.0	[m]	DC	UOS
3011.0	[m]	DC	UOS
3020.0	[m]	DC	UOS
3029.0	[m]	DC	UOS
3038.0	[m]	DC	UOS
3047.0	[m]	DC	UOS
3056.0	[m]	DC	UOS
3065.0	[m]	DC	UOS
3074.0	[m]	DC	UOS
3083.0	[m]	DC	UOS
3092.0	[m]	DC	UOS
3101.0	[m]	DC	UOS
3110.0	[m]	DC	UOS
3119.0	[m]	DC	UOS
3122.0	[m]	DC	UOS



3131.0	[m]	DC	UOS
3132.0	[m]	SWC	UOS
3140.0	[m]	DC	UOS
3152.0	[m]	DC	UOS
3181.0	[m]	DC	UOS
3182.0	[m]	DC	UOS

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
328	NORDLAND GP
960	UTSIRA FM
1131	HORDALAND GP
1681	ROGALAND GP
1681	BALDER FM
1714	LISTA FM
1869	SHETLAND GP
1869	JORSALFARE FM
2237	KYRRE FM
2678	CROMER KNOLL GP
2678	MIME FM
2689	BRENT GP
2689	ETIVE FM
2742	RANNOCH FM
2845	DUNLIN GP
2845	DRAKE FM
2939	COOK FM
2975	BURTON FM
3027	AMUNDSEN FM
3122	STATFJORD GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
2830	pdf	0.46





Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2830_1	pdf	0.50

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2830_33_9_19_S_COMPLETION_REPORT_AND_COMPLETION_LOG	pdf	14.70

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AS GR AMS	1951	3192
DIL GR AMS	1951	3185
LDL CNL GR AMS	1951	3165
MDT GR	2692	2797
MWD - DPR II	329	3197
VSP	832	2635

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	390.0	36	392.0	0.00	LOT
INTERM.	13 3/8	758.0	17 1/2	760.0	1.58	LOT
INTERM.	9 5/8	1951.0	12 1/4	1953.0	1.85	LOT
OPEN HOLE		3197.0	8 1/2	3197.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
450	1.03			DUMMY	
1220	1.22			DUMMY	





1900	1.50			DUMMY	
1956	1.50	24.0		ANCO 2000	
2305	1.62	40.0		ANCO VERT	
2709	1.62	42.0		ANCO VERT	
3197	1.62	39.0		ANCO VERT	

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]
2830_Formation_pressure_(Formasjonstrykk)	pdf	0.22

