



Generell informasjon

Brønnbane navn	7/7-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	7/7-1
Seismisk lokalisering	NOD 6 - 86 - 010 SP 260
Utvinningstillatelse	148
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	626-L
Boreinnretning	DEEPSEA BERGEN
Boredager	53
Borestart	30.12.1989
Boreslutt	20.02.1990
Frigitt dato	20.02.1992
Publiseringsdato	08.03.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	83.0
Totalt målt dybde (MD) [m RKB]	3500.0
Totalt vertikalt dybde (TVD) [m RKB]	3497.0
Maks inklinasjon [°]	6.9
Temperatur ved bunn av brønnbanen [°C]	140
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SMITH BANK FM
Geodetisk datum	ED50
NS grader	57° 24' 56.88" N
ØV grader	2° 15' 59.74" E
NS UTM [m]	6364053.40
ØV UTM [m]	455943.56
UTM sone	31
NPDID for brønnbanen	1492



Brønnhistorie

General

Well 7/7-1 was the first well in license 148, and was designed to drill a tilted block on the Jæren High close to the UK border. Early/Middle Jurassic events resulted in uplift and erosion, such that Jurassic sediments at the well location are missing. Due to the Tertiary uplift and eastward tilting of the Shetland Platform, along with a relative drop in sea level, this tilting gave rise to an eastward drainage pattern. Submarine fan sandstones derived from deltaic and barrier bar complexes in the Morray Firth area were deposited in the Central Graben and on to the Jæren High. Several lobe systems developed, giving rise to continuous and periodic sandstone deposition as the lobes migrated laterally. The eastern pinch out of these systems occurs in blocks 7/4 and 7/7. The primary objective of this well was an anticlinal closure at the Base Cretaceous Unconformity level, the C-prospect, Triassic sandstones. The secondary objective was the B-prospect, Paleocene sandstones, a possible closure along a pinch out of a sandy sequence consisting of distal turbidites. Some high amplitude anomalies indicated shallow gas between 241 to 395 m. The nearest one at 308 m was situated approximately 300 m east of the well location. Sticky and swelling "gumbo" clays are common in the area.

Operations and results

Wildcat well 7/7-1 was spudded with the semi-submersible installation Deepsea Bergen 30 December 1989 and drilled to TD at 3500 m in the Triassic Smith Bank Formation. The well was drilled with seawater and gel down to 572 m, with gypsum/polymer mud from 572 m to 3263 m, and with bentonite/lignosulphonate mud from 3263 m to TD. Apart from some tight hole problems, drilling went without severe problems. No shallow gas was encountered. The well was drilled approximately 200 m into the Triassic, which consisted of brick red sandstones, interbedded with siltstone / claystone. The Paleocene sandstones came in nearly 60 m below the prognosed depth, and only minor amounts of sand was encountered (Andrew Formation). No indication of hydrocarbons was seen in this well. Two conventional cores were cut, one from 2786 m to 2803 m in the Paleocene Andrew Formation and a second from 3286 m to 3313.5 m driller's depth (3291.5 m to 3319 m loggers depth) in the Smith Bank Formation. A total of 125 sidewall cores were attempted, and 118 sidewall cores were recovered. No fluid samples were taken. The well was permanently abandoned on 20 February 1990 as a dry hole.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
590.00	3500.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2786.0	2803.0	[m]
2	3296.0	3313.5	[m]

Total kjerneprøve lengde [m]	34.5
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2786-2791m



2791-2796m



2796-2801m



2801-2803m



3286-3291m



3291-3296m



3296-3301m



3301-3306m



3306-3311m



3311-3313m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2022.0	[m]	SWC	STATO
2074.0	[m]	SWC	STATO
2111.0	[m]	SWC	STATO
2122.0	[m]	SWC	STATO
2135.0	[m]	SWC	STATO
2143.2	[m]	SWC	STATO
2175.0	[m]	SWC	STATO
2225.0	[m]	SWC	STATO
2275.0	[m]	SWC	STATO
2310.0	[m]	SWC	STATO
2325.0	[m]	SWC	STATO



2344.0	[m]	SWC	STATO
2360.0	[m]	SWC	STATO
2382.2	[m]	SWC	STATO
2400.0	[m]	SWC	STATO
2415.0	[m]	SWC	STATO
2431.0	[m]	SWC	STATO
2450.0	[m]	SWC	STATO
2464.0	[m]	SWC	STATO
2479.0	[m]	SWC	STATO
2500.0	[m]	SWC	STATO
2513.5	[m]	SWC	STATO
2530.0	[m]	SWC	STATO
2545.0	[m]	SWC	STATO
2560.0	[m]	SWC	STATO
2580.0	[m]	DC	RRI
2595.0	[m]	DC	RRI
2610.0	[m]	DC	RRI
2625.0	[m]	DC	RRI
2640.0	[m]	DC	RRI
2649.5	[m]	SWC	STATO
2658.5	[m]	SWC	STATO
2679.0	[m]	DC	RRI
2694.0	[m]	DC	RRI
2706.0	[m]	SWC	STATO
2724.0	[m]	DC	RRI
2739.0	[m]	DC	RRI
2742.0	[m]	SWC	STATO
2753.0	[m]	SWC	STATO
2758.3	[m]	SWC	STATO
2769.0	[m]	DC	RRI
2790.2	[m]	SWC	STATO
2793.0	[m]	SWC	STATO
2795.3	[m]	SWC	STATO
2798.1	[m]	SWC	STATO
2801.9	[m]	SWC	STATO
2826.0	[m]	DC	RRI
2832.0	[m]	DC	RRI
2958.0	[m]	SWC	STATO
3433.2	[m]	SWC	STATO
3503.9	[m]	SWC	STATO



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
106	NORDLAND GP
1256	HORDALAND GP
2626	ROGALAND GP
2626	BALDER FM
2660	SELE FM
2758	LISTA FM
2780	ANDREW FM
2808	VÅLE FM
2830	SHETLAND GP
2830	EKOFISK FM
2925	TOR FM
3108	HOD FM
3243	CROMER KNOLL GP
3243	ÅSGARD FM
3288	NO GROUP DEFINED
3288	SMITH BANK FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1492	pdf	0.57

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1492_1	pdf	0.23

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1492_01_WDSS_General_Information	pdf	0.19





1492 02 WDSS completion log	pdf	0.18
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Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1492 7 7 1 COMPLETION REPORT AND LOG	pdf	18.43

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	1333	2554
CBL VDL GR	1903	3253
DIFL ACL CDL CNL GR	2548	3260
DIFL ACL CDL CNL GR	3253	3502
DIFL ACL CDL GR	567	2567
DIPS GR	3254	3499
FMT GR	3290	3317
MLL SPL	3253	3505
MWD	572	3500
SWC GR	2021	2566
SWC GR	2649	3258
SWC GR	3260	3503
VSP	100	3490

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	167.0	36	168.0	0.00	LOT
INTERM.	20	567.0	26	580.0	1.64	LOT
INTERM.	13 3/8	2548.0	18	2565.0	1.86	LOT
INTERM.	9 5/8	3251.0	12 1/4	3263.0	1.63	LOT
OPEN HOLE		3500.0	8 1/2	3500.0	0.00	LOT

Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
576	1.03			WATER BASED	05.01.1990
580	1.03			WATER BASED	05.01.1990
580	1.03			WATER BASED	08.01.1990
2565	1.56	29.0	6.0	WATER BASED	16.01.1990
2565	1.56	26.0	6.0	WATER BASED	16.01.1990
2565	1.56	25.0	5.0	WATER BASED	17.01.1990
2568	1.50	21.0	5.0	WATER BASED	24.01.1990
2685	1.50	22.0	4.0	WATER BASED	25.01.1990
2690	1.50	21.0	4.5	WATER BASED	26.01.1990
2764	1.50	22.0	6.0	WATER BASED	29.01.1990
2786	1.50	21.0	5.0	WATER BASED	29.01.1990
2803	1.50	23.0	5.0	WATER BASED	29.01.1990
2903	1.50	24.0	6.5	WATER BASED	30.01.1990
2997	1.50	27.0	6.0	WATER BASED	31.01.1990
3047	1.50	27.0	5.5	WATER BASED	02.02.1990
3054	1.50	25.0	4.5	WATER BASED	05.02.1990
3114	1.50	25.0	5.0	WATER BASED	06.02.1990
3263	1.50	25.0	5.5	WATER BASED	07.02.1990
3263	1.50	23.0	5.0	WATER BASED	07.02.1990
3263	1.50	27.0	5.0	WATER BASED	08.02.1990
3284	1.55	45.0	6.0	WATER BASED	12.02.1990
3284	1.55	43.0	6.5	WATER BASED	14.02.1990
3284	1.55	42.0	5.0	WATER BASED	14.02.1990
3284	1.55	43.0	5.5	WATER BASED	15.02.1990
3294	1.55	40.0	12.5	WATER BASED	20.02.1990
3294	1.55	40.0	10.0	WATER BASED	20.02.1990
3294	1.55	43.0	5.5	WATER BASED	16.02.1990
3294	1.55	42.0	10.5	WATER BASED	20.02.1990
3365	1.55	43.0	6.5	WATER BASED	14.02.1990

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]
1492 Formation pressure (Formasjonstrykk)	pdf	0.22

