



Generell informasjon

Brønnbane navn	15/9-18
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	15/9-18
Seismisk lokalisering	ST 8215 - 122 SP 636
Utvinningstillatelse	046
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	396-L
Boreinnretning	DEEPSEA BERGEN
Boredager	78
Borestart	16.12.1983
Boreslutt	02.03.1984
Frigitt dato	02.03.1986
Publiseringsdato	10.01.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	97.0
Totalt målt dybde (MD) [m RKB]	3622.0
Totalt vertikalt dybde (TVD) [m RKB]	3621.0
Maks inklinasjon [°]	2.15
Temperatur ved bunn av brønnbanen [°C]	104
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SMITH BANK FM
Geodetisk datum	ED50
NS grader	58° 21' 1.95" N
ØV grader	1° 48' 12.27" E
NS UTM [m]	6468508.49
ØV UTM [m]	429961.76
UTM sone	31
NPDID for brønnbanen	36



Brønnhistorie

General

Well 15/9-18 is located between the Sleipner Øst and Sleipner Vest Fields in the South Viking Graben in the North Sea.

It was designed primarily to test hydrocarbon accumulations in the Middle Jurassic Hugin Formation. Secondary objectives were Paleocene sandstones in the Heimdal and Sleipner Formations, and sandstones of Triassic age.

Operations and results

Wildcat well 15/9-18 was spudded with the semi-submersible installation Deepsea Bergen on 16 December 1983 and drilled to TD at 3622 m in the Triassic Smith Bank Fm. No major problems occurred while drilling this well, but some tight hole problems were experienced in the 12 1/4" hole section. The well was drilled with seawater gel down to 520 m and with gypsum/lignosulphonate mud from 520 m to TD.

Tertiary sands were penetrated at 866 m (Utsira Formation), 1254 m, and at 2071 m ("Frigg Fm Equivalent"). The Draupne Formation was encountered 105 m thick at 3108 m. The Hugin Formation was encountered at 3237 m. It was found hydrocarbon bearing in a 7.5 m interval from 3237.5 m and down to a coal layer at 3245.0 m but the hydrocarbons were immovable. The well did not encounter other hydrocarbon bearing intervals. Shows were however recorded further down in the Hugin Formation in the interval 3275 m to 3325 m.

Four cores were cut, two in the Paleocene and two in the Middle Jurassic sequence. Segregated FMT fluid samples were taken in the hydrocarbon bearing interval in the Hugin Formation at 3238.3 m, 3239 m, and 3240 m. All samples were reported to recover mud filtrate only, but the samples from 3240 m were analysed to contain 0.2 g petroleum hydrocarbons.

The well was permanently abandoned on 2 March 1984 as a dry well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
190.00	3622.50

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2630.0	2632.2	[m]
2	2632.5	2645.9	[m]
3	3230.0	3248.4	[m]
4	3248.0	3266.5	[m]

Total kjerneprøve lengde [m]	52.5
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2630-2632m



2632-2637m



2637-2642m



2642-2645m



3230-3236m



3236-3242m



3242-3248m



3248-3249m



3248-3254m



3254-3260m



3260-3266m

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2202.5	[m]	C	
2232.5	[m]	C	
2262.5	[m]	C	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 06:42

2292.5	[m]	C	
2322.5	[m]	C	
2352.5	[m]	C	
2382.5	[m]	C	
2412.5	[m]	C	
2442.5	[m]	C	
2472.5	[m]	C	
2502.5	[m]	C	
2532.5	[m]	C	
2562.5	[m]	C	
2592.5	[m]	C	
2622.5	[m]	C	
2631.7	[m]	C	OD
2642.3	[m]	C	OD
2652.5	[m]	C	
2682.5	[m]	C	
2712.5	[m]	C	
2742.5	[m]	C	
2750.0	[m]	C	
2947.0	[m]	SWC	RRI
3220.0	[m]	DC	OD
3230.1	[m]	C	OD
3232.6	[m]	C	OD
3234.5	[m]	C	OD
3235.2	[m]	C	OD
3238.5	[m]	C	OD
3242.1	[m]	C	OD
3242.8	[m]	C	OD
3243.1	[m]	C	OD
3245.2	[m]	C	OD
3248.2	[m]	C	OD
3248.7	[m]	C	OD
3249.9	[m]	C	OD
3254.9	[m]	C	OD
3260.0	[m]	C	OD
3266.4	[m]	C	OD
3269.0	[m]	SWC	RRI
3298.0	[m]	SWC	RRI
3300.0	[m]	DC	OD
3313.0	[m]	SWC	RRI



3325.0	[m]	DC	OD
3329.0	[m]	SWC	RRI
3350.0	[m]	DC	OD
3367.0	[m]	SWC	RRI
3372.0	[m]	DC	OD
3400.0	[m]	DC	OD
3409.0	[m]	SWC	RRI
3420.0	[m]	SWC	RRI
3420.0	[m]	DC	OD
3440.0	[m]	DC	OD
3465.0	[m]	SWC	RRI
3584.5	[m]	SWC	RRI

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
120	NORDLAND GP
866	UTSIRA FM
1210	HORDALAND GP
1254	NO FORMAL NAME
2071	NO FORMAL NAME
2291	ROGALAND GP
2291	BALDER FM
2338	SELE FM
2405	LISTA FM
2465	HEIMDAL FM
2665	TY FM
2702	SHETLAND GP
2702	EKOFISK FM
2706	TOR FM
2843	HOD FM
2931	BLODØKS FM
2993	SVARTE FM
3013	CROMER KNOLL GP
3013	RØDBY FM
3061	SOLA FM
3076	ÅSGARD FM
3108	VIKING GP
3108	DRAUPNE FM



3213	HEATHER FM
3237	VESTLAND GP
3237	HUGIN FM
3410	SLEIPNER FM
3420	NO GROUP DEFINED
3420	SKAGERRAK FM
3593	SMITH BANK FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
36_1	pdf	1.06
36_2	pdf	0.74
36_3	pdf	0.96

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
36_01_WDSS_General_Information	pdf	0.18
36_02_WDSS_completion_log	pdf	0.32

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
36_01_15_9_18_Analyse_av_mudfiltrat	pdf	0.07
36_01_15_9_18_Analysis_of_HC	pdf	1.84
36_01_15_9_18_Biostrat_of_int.2000-3622.5m	pdf	20.20
36_01_15_9_18_Borehole_geophysical_data	pdf	1.63
36_01_15_9_18_Borehole_geophysical_data_encl_1	pdf	0.71
36_01_15_9_18_Borehole_geophysical_data_encl_10	pdf	0.52
36_01_15_9_18_Borehole_geophysical_data_encl_11	pdf	0.53
36_01_15_9_18_Borehole_geophysical_data_encl_12	pdf	0.54
36_01_15_9_18_Borehole_geophysical_data_encl_13	pdf	0.53





36 01 15 9 18 Borehole geophysical data encl 14	pdf	0.29
36 01 15 9 18 Borehole geophysical data encl 15	pdf	0.28
36 01 15 9 18 Borehole geophysical data encl 16	pdf	0.19
36 01 15 9 18 Borehole geophysical data encl 17	pdf	0.81
36 01 15 9 18 Borehole geophysical data encl 18	pdf	0.82
36 01 15 9 18 Borehole geophysical data encl 2	pdf	1.81
36 01 15 9 18 Borehole geophysical data encl 3	pdf	2.22
36 01 15 9 18 Borehole geophysical data encl 5	pdf	2.45
36 01 15 9 18 Borehole geophysical data encl 6	pdf	0.80
36 01 15 9 18 Borehole geophysical data encl 7	pdf	0.66
36 01 15 9 18 Borehole geophysical data encl 8	pdf	0.81
36 01 15 9 18 Borehole geophysical data encl 9	pdf	0.62
36 01 15 9 18 Comments to spec.core analysis	pdf	0.19
36 01 15 9 18 Completion Report & Log	pdf	30.93
36 01 15 9 18 Core gamma log	pdf	0.16
36 01 15 9 18 Final well report	pdf	14.87
36 01 15 9 18 Geochem.Analysis of 6 de-asphalted	pdf	2.38
36 01 15 9 18 Geochem.Analysis of FMT and Seal peel	pdf	2.12
36 01 15 9 18 Geological progn,pressure predicted	pdf	2.17
36 01 15 9 18 Geological progn,pressure predicted encl 1	pdf	0.19
36 01 15 9 18 Geological progn,pressure predicted encl 2	pdf	0.92
36 01 15 9 18 Post well audit	pdf	2.51
36 01 15 9 18 Recommended mud program	pdf	0.85
36 01 15 9 18 Rutine core analysis	pdf	1.14
36 01 15 9 18 Shallow gas study by Statoil	pdf	0.65
36 01 15 9 18 Shallow gas study encl 1	pdf	1.71
36 01 15 9 18 Shallow gas study encl 2	pdf	1.71





36 01 15 9 18 Shallow gas study encl 3	pdf	1.04
36 01 15 9 18 Shallow gas study encl 4	pdf	0.98
36 01 15 9 18 Shallow gas study encl 5	pdf	1.78
36 01 15 9 18 Shallow gas study encl 6	pdf	1.63
36 01 15 9 18 Shallow gas study encl 7	pdf	2.34
36 01 15 9 18 Shallow gas study encl 8	pdf	1.55
36 01 15 9 18 Special core analysis	pdf	3.07
36 01 15 9 18 Borehole geophysical data encl 4	pdf	3.92

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CAL	1500	2743
CBL VDL GR	120	2740
CBL VDL GR	200	1150
CDL CNL GR CAL	1150	3622
CDL GR CAL	499	1170
DIFL BHC AC	120	520
DLL MLL GR	3200	3300
FMT	3238	3571
GR SP CAL	499	3623
HR DIP	2275	2762
HR DIP	2742	3623
VELOCITY	750	3620

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	181.0	36	182.0	0.00	LOT
SURF.COND.	20	499.0	26	520.0	1.47	LOT
INTERM.	13 3/8	1150.0	17 1/2	1170.0	1.52	LOT
INTERM.	9 5/8	2743.0	12 1/4	2762.0	1.74	LOT
OPEN HOLE		3622.0	8 1/2	3622.0	0.00	LOT

Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
180	1.04	100.0		WATER BASED	
330	1.08	38.0		WATER BASED	
610	1.10	45.0		WATER BASED	
705	1.14	49.0		WATER BASED	
815	1.13	52.0		WATER BASED	
1145	1.12	52.0		WATER BASED	
1175	1.13	44.0		WATER BASED	
1780	1.17	53.0		WATER BASED	
1890	1.20	53.0		WATER BASED	
2090	1.23	46.0		WATER BASED	
2800	1.24	46.0		WATER BASED	
3040	1.35	53.0		WATER BASED	
3095	1.39	55.0		WATER BASED	
3145	1.42	54.0		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]
36 Formation pressure (Formasjonstrykk)	pdf	0.22

