



Generell informasjon

Brønnbane navn	30/6-18
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	OSEBERG
Funn	30/6-18 (Kappa)
Brønn navn	30/6-18
Seismisk lokalisering	NH 82 - 121 SP. 290
Utvinningstillatelse	053
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	476-L
Boreinnretning	BYFORD DOLPHIN
Boredager	115
Borestart	01.08.1985
Boreslutt	23.11.1985
Frigitt dato	23.11.1987
Publiseringsdato	28.05.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	STATFJORD GP
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	108.0
Totalt målt dybde (MD) [m RKB]	3690.0
Totalt vertikalt dybde (TVD) [m RKB]	3686.0
Maks inklinasjon [°]	4.8
Temperatur ved bunn av brønnbanen [°C]	148
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	HEGRE GP
Geodetisk datum	ED50
NS grader	60° 30' 30.65" N



ØV grader	2° 41' 20.65" E
NS UTM [m]	6708243.70
ØV UTM [m]	482923.04
UTM sone	31
NPDID for brønnbanen	488

Brønnhistorie

General

Well 30/6-18 was drilled on the Kappa structure, which is located in the south-western corner of the block. Kappa is an elongated down faulted block bounded by north south trending major faults to the east and the west. The structure is an easterly tilted fault block where the Base Cretaceous truncates both the Brent Group and the Statfjord Formation. The main objective of the well was to prove hydrocarbons in the Statfjord Formation by drilling on a location that leaves a minimum of possible reserves up dip of the well. Secondary objectives were to improve stratigraphical and structural knowledge of the area and to acquire input data for further exploration activity in blocks 30/6 and 30/9.

Operations and results

Wildcat well 30/6-18 was spudded with the semi-submersible installation Byford Dolphin 1 August 1985 and drilled to TD at 3690 m in Late Triassic rocks. Drilling proceeded without any significant problems. The well was drilled with spud mud down to 658 m and with a KCl polymer mud from 658 m to TD. The Statfjord Formation came in 120 m higher than prognosed. The logs show that the Statfjord Formation contains 16 m of gas and 44 m of oil. Oil/water contact was defined at 3181 m. The reservoir quality seems to be good. There is a separate column of 19 m oil further down in the Statfjord Formation. A thick shale sequence from 3287 to 3305 m separates the upper reservoir unit from the lower. The lower oil column is probably restricted to only one layer of sand with a gas cap on top. Eight cores were cut in the Statfjord Formation in the interval 3126 - 3215 m. Three sets of segregated RFT samples were retrieved from 3165 m, 3125.5 m, and 3312.8 m in the Statfjord Formation. The well was plugged and abandoned on 23 November 1985 as an oil and gas discovery.

Testing

Three drill stem tests were performed in this well. The intervals were 3306 m - 3323 m, 3198 m - 3210 m and 3164 m & 3173.2 m.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
230.00	3690.00

Borekaks tilgjengelig for prøvetaking?	NO
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Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3126.0	3128.5	[m]
2	3139.0	3146.2	[m]
3	3146.2	3148.0	[m]
4	3148.0	3166.6	[m]
5	3166.6	3184.0	[m]
6	3184.0	3187.6	[m]
7	3192.0	3210.3	[m]
8	3210.3	3215.0	[m]

Total kjerneprøve lengde [m]	74.0
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3126-3129m



3139-3144m



3144-3146m



3146-3148m



3148-3153m



3153-3158m



3158-3163m



3163-3166m



3166-3171m



3171-3176m



3176-3181m



3181-3184m



3184-3188m



3192-3197m



3197-3202m



3202-3207m



3207-3210m



3210-3215m



3215-3217m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2626.0	[m]	SWC	RRI
2785.0	[m]	SWC	RRI
2880.0	[m]	DC	RRI
2890.0	[m]	DC	RRI
2900.0	[m]	SWC	RRI
2908.0	[m]	SWC	RRI
2912.0	[m]	SWC	RRI
2915.0	[m]	SWC	RRI
2918.0	[m]	SWC	RRI
2930.0	[m]	DC	RRI
2935.0	[m]	SWC	RRI
2952.5	[m]	SWC	RRI
2965.0	[m]	SWC	RRI
2970.0	[m]	DC	RRI
2975.0	[m]	SWC	RRI
2982.0	[m]	SWC	RRI
2990.0	[m]	SWC	RRI
2996.0	[m]	SWC	RRI
3000.0	[m]	DC	RRI
3001.5	[m]	SWC	RRI
3015.0	[m]	DC	RRI
3025.0	[m]	SWC	RRI
3058.0	[m]	SWC	RRI
3090.0	[m]	DC	RRI
3100.0	[m]	DC	RRI
3117.0	[m]	DC	RRI
3126.3	[m]	C	RRI
3128.5	[m]	C	RRI
3137.0	[m]	DC	RRI



3148.8	[m]	C	RRI
3159.2	[m]	C	RRI
3187.3	[m]	C	RRI
3193.1	[m]	C	RRI
3215.5	[m]	C	RRI
3238.0	[m]	SWC	RRI
3300.0	[m]	DC	RRI
3315.0	[m]	DC	RRI
3330.0	[m]	DC	RRI
3345.0	[m]	DC	RRI
3357.0	[m]	SWC	RRI
3360.0	[m]	DC	RRI
3375.0	[m]	DC	RRI
3383.2	[m]	SWC	RRI
3390.0	[m]	DC	RRI
3417.0	[m]	DC	RRI
3427.0	[m]	DC	RRI
3545.0	[m]	DC	RRI
3555.0	[m]	DC	RRI

Oljeprøver i Søkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST1A	3307.00	3324.00		20.10.1985 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
133	NORDLAND GP
597	UTSIRA FM
815	UNDIFFERENTIATED
893	HORDALAND GP
927	SKADE FM
952	UNDIFFERENTIATED
1101	NO FORMAL NAME
1339	UNDIFFERENTIATED



1439	NO FORMAL NAME
1454	NO FORMAL NAME
1480	NO FORMAL NAME
1579	NO FORMAL NAME
2047	ROGALAND GP
2047	BALDER FM
2129	SELE FM
2197	LISTA FM
2362	VÅLE FM
2380	SHETLAND GP
2380	HARDRÅDE FM
2400	JORSALFARE FM
2580	KYRRE FM
2913	DUNLIN GP
2913	DRAKE FM
2983	AMUNDSEN FM
3121	STATFJORD GP
3670	HEGRE GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
488	pdf	0.64

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
488_1	pdf	0.15

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
488_01_WDSS_General_Information	pdf	0.39
488_02_WDSS_completion_log	pdf	0.29





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
488_30_6_18_COMPLETION_LOG	pdf	2.80
488_30_6_18_COMPLETION_REPORT	pdf	28.30

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	3307	3324	14.0
2.0	3198	3210	14.0
3.0	3164	3173	14.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				126
2.0				122
3.0				119

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	609	161970	0.811		265
2.0	871	2832			
3.0	957	189744	0.845	0.705	198

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL	430	1598
CET CBL VDL	1152	3400
CST	1997	3116
CST	1997	3122
CST	3035	3383
CST	3435	3690





DLL MSFL GR	3085	3210
DLL MSFL GR	3181	3415
HRT	50	1700
ISF LSS SP GR	321	652
ISF LSS SP GR	644	1599
ISF LSS SP GR	1598	3211
ISF LSS SP GR	3186	3424
ISF LSS SP GR	3419	3692
LDT CAL GR	644	1598
LDT CNL CAL GR	1598	3213
LDT CNL NGT CAL GR	3050	3423
LDT CNL NGT CAL GR	3419	3693
MWD - RES GR	1650	3185
RFT	3122	3195
RFT	3122	3402
RFT	3125	3126
RFT	3429	3683
SHDT	1598	3418
SHDT	3419	3692
VSP	898	3379

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	219.0	36	219.0	0.00	LOT
SURF.COND.	20	643.5	26	654.0	1.43	LOT
INTERM.	13 3/8	1598.0	17 1/2	1613.0	1.79	LOT
INTERM.	9 5/8	3413.0	12 1/4	3486.0	1.76	LOT
OPEN HOLE		3690.0	8 3/8	3690.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
150	1.03			WATER BASED	25.11.1985
214	1.05			WATER BASED	02.08.1985
214	1.05			WATER BASED	06.08.1985
214	1.05			WATER BASED	06.08.1985



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 9.5.2024 - 14:22

525	1.07	5.0	35.0	WATER BASED	06.08.1985
654	1.16	5.0	21.0	WATER BASED	06.08.1985
654	1.16	5.0	22.0	WATER BASED	06.08.1985
654	1.16	5.0	23.0	WATER BASED	08.08.1985
654	1.15	16.0	11.0	WATER BASED	13.08.1985
654	1.16	5.0	22.0	WATER BASED	06.08.1985
654	1.15	16.0	10.0	WATER BASED	09.08.1985
654	1.15	16.0	11.0	WATER BASED	13.08.1985
654	1.15	16.0	10.0	WATER BASED	09.08.1985
654	1.16	5.0	23.0	WATER BASED	08.08.1985
881	1.20	15.0	11.0	WATER BASED	13.08.1985
1282	1.21	22.0	12.0	WATER BASED	14.08.1985
1494	1.28	27.0	14.0	WATER BASED	19.08.1985
1613	1.30	30.0	16.0	WATER BASED	21.08.1985
1613	1.30	26.0	13.0	WATER BASED	21.08.1985
1613	1.30	27.0	12.0	WATER BASED	21.08.1985
1613	1.26	26.0	12.0	WATER BASED	21.08.1985
1650	1.35	37.0	13.0	WATER BASED	22.08.1985
1982	1.35	37.0	16.0	WATER BASED	23.08.1985
2172	1.38	23.0	11.0	WATER BASED	27.08.1985
2386	1.38	27.0	11.0	WATER BASED	27.08.1985
2464	1.39	30.0	12.0	WATER BASED	27.08.1985
2607	1.39	10.0	18.0	WATER BASED	29.08.1985
2727	1.39	23.0	8.0	WATER BASED	29.08.1985
2771	1.39	20.0	7.0	WATER BASED	30.08.1985
2867	1.39	20.0	8.0	WATER BASED	03.09.1985
2918	1.39	19.0	7.0	WATER BASED	03.09.1985
3021	1.41	18.0	6.0	WATER BASED	03.09.1985
3070	1.42	21.0	7.0	WATER BASED	03.09.1985
3126	1.42	19.0	8.0	WATER BASED	05.09.1985
3134	1.34			WATER BASED	22.11.1985
3136	1.42	21.0	8.0	WATER BASED	06.09.1985
3146	1.42	27.0	9.0	WATER BASED	06.09.1985
3164	1.34			WATER BASED	20.11.1985
3164	1.34			WATER BASED	21.11.1985
3166	1.41	24.0	9.0	WATER BASED	09.09.1985
3182	1.34			WATER BASED	04.11.1985
3182	1.34			WATER BASED	05.11.1985
3182	1.34			WATER BASED	06.11.1985
3182	1.34			WATER BASED	12.11.1985



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 9.5.2024 - 14:22

3182	1.34			WATER BASED	10.11.1985
3182	1.34			WATER BASED	20.11.1985
3182	1.34			WATER BASED	07.11.1985
3184	1.41	24.0	8.0	WATER BASED	09.09.1985
3192	1.39	27.0	9.0	WATER BASED	09.09.1985
3195	1.35	21.0	8.0	WATER BASED	16.09.1985
3197	1.34			WATER BASED	04.11.1985
3215	1.35	22.0	7.0	WATER BASED	16.09.1985
3215	1.39	23.0	8.0	WATER BASED	12.09.1985
3215	1.35	21.0	7.0	WATER BASED	16.09.1985
3215	1.39	23.0	8.0	WATER BASED	11.09.1985
3215	1.39	22.0	8.0	WATER BASED	12.09.1985
3215	1.33	21.0	8.0	WATER BASED	13.09.1985
3285	1.35	24.0	10.0	WATER BASED	24.09.1985
3304	1.34			WATER BASED	23.10.1985
3304	1.34			WATER BASED	29.10.1985
3304	1.34			WATER BASED	30.10.1985
3304	1.34			WATER BASED	31.10.1985
3322	1.35	26.0	9.0	WATER BASED	24.09.1985
3371	1.35	27.0	10.0	WATER BASED	24.09.1985
3372	1.33	21.0	6.0	WATER BASED	09.10.1985
3372	1.33	21.0	6.0	WATER BASED	09.10.1985
3372	1.33	24.0	10.0	WATER BASED	10.10.1985
3372	1.36			WATER BASED	16.10.1985
3372	1.35			WATER BASED	17.10.1985
3372	1.35			WATER BASED	18.10.1985
3372	1.34			WATER BASED	21.10.1985
3372	1.34			WATER BASED	22.10.1985
3372	1.34			WATER BASED	20.10.1985
3372	1.34			WATER BASED	24.10.1985
3372	1.34			WATER BASED	23.10.1985
3390	1.33	21.0	6.0	WATER BASED	07.10.1985
3428	1.35	28.0	12.0	WATER BASED	24.09.1985
3428	1.35	29.0	11.0	WATER BASED	24.09.1985
3428	1.35	29.0	12.0	WATER BASED	24.09.1985
3428	1.35	27.0	9.0	WATER BASED	25.09.1985
3428	1.35	27.0	9.0	WATER BASED	03.10.1985
3428	1.35	27.0	9.0	WATER BASED	27.09.1985
3451	1.31	23.0	5.0	WATER BASED	03.10.1985
3527	1.31	25.0	6.0	WATER BASED	03.10.1985



3588	1.31	25.0	8.0	WATER BASED	03.10.1985
3650	1.31	25.0	8.0	WATER BASED	03.10.1985
3690	1.33	26.0	7.0	WATER BASED	07.10.1985

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]
488 Formation pressure (Formasjonstrykk)	pdf	0.23

