



Generell informasjon

Brønnbane navn	35/3-4
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	35/3-2 Agat
Brønn navn	35/3-4
Seismisk lokalisering	
Utvinningstillatelse	041
Boreoperatør	Saga Petroleum ASA
Boretillatelse	272-L
Boreinnretning	BYFORD DOLPHIN
Boredager	189
Borestart	30.11.1980
Boreslutt	06.06.1981
Frigitt dato	06.06.1983
Publiseringsdato	18.05.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EARLY CRETACEOUS
1. nivå med hydrokarboner, formasjon.	AGAT FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	258.0
Totalt målt dybde (MD) [m RKB]	4089.0
Totalt vertikalt dybde (TVD) [m RKB]	4087.0
Maks inklinasjon [°]	3.5
Temperatur ved bunn av brønnbanen [°C]	125
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	61° 51' 54.54" N
ØV grader	3° 52' 26.99" E



NS UTM [m]	6859631.80
ØV UTM [m]	545989.90
UTM sone	31
NPDID for brønnbanen	219

Brønnhistorie

General

Wildcat wells 35/3-3 and 35/3-4 were drilled in the Norwegian sector of the North Sea approximately 50 km west of Måløy, Norway. The primary target was to test the possible extension of Lower Cretaceous sandstones to the east of those encountered in wells 35/3-1 and 35/3-2. A stratigraphic trap was thought to exist in these sandstones. A secondary target was possible sandstones of Early Jurassic age with a possible pinch-out trap.

Well 35/3-3 was spudded with the semi-submersible installation Byford Dolphin on 30 October 1980. It was drilled and logged to 900 m, then junked because of technical problems running the 20" casing. The rig was moved about 20 meters, and the well was respudded as 35/3-4.

Operations and results

Well 35/3-4 was spudded with the semi-submersible installation Byford Dolphin on 30 November 1980 and drilled to TD at 4089 m in Basement rocks (Caledonian age). A sidetrack was drilled from 3768 m. The well was drilled with seawater and gel down to 457m, with seawater/gel/lignosulfonate from 457 m to 879 m, with lignosulfonate/gypsum/gel mud from 879 m to 2388 m, and with gel/lignosulfonate/PAC mud from 2388 m to TD.

The well penetrated strata from Tertiary through Jurassic before reaching basement rocks-of Caledonian age.

Hydrocarbon shows were encountered in Lower Cretaceous and Lower-Middle Jurassic sand. The Lower Cretaceous sediments were interpreted as submarine fans. RFT measurements in Lower Cretaceous indicate an upper zone with a gas gradient of 0.4 psi/m, and a deeper zone with a water gradient of 1,54 psi/m. There seem to be no pressure communication between these two zones. Log evaluation indicate 13 m net thickness in the interval 3445 m to 3471 m, with an average porosity of 19 % and an average water saturation of 52 %.

Organic geochemical analyses showed poor, immature to marginally mature source rocks with limited potential for gas/condensate down to ca 3200 m. At 3200 m to ca 3650 metres zones of medium to dark grey shales have useful TOC (up to ca 3%) but are effectively immature in well position and have a negligible potential for gas (hydrogen index from 50 to 150 mg HC/g TOC).

Abundant medium to dark grey and dark olive grey shales occur in zones from 3650 m to TD. Although they are generally poor source rocks scattered fair and good to very good interbeds are also present, notably in the Heather Formation and below 4000 m (base of Cook). The best interval was found in the interval 3695 m to 3725 m in the Heather Formation (TOC from 3.1 % to 3.8 % and hydrogen index from 260 mg/g to 360 mg/g). Their marginal maturity will, however, limit hydrocarbon generation on-structure to minor volumes of gas and associated liquids. Ten cores were cut in the Agat Formation from 3400.6 m to 3543 m and one core was cut in basement at TD from 4087 m to 4088.8 m.

The well was plugged and abandoned on 6 June 1981 as a gas/condensate appraisal of



the 35/3-2 Agat Discovery.

Testing

Three drill stem tests were performed in the Lower Cretaceous sequence. In DST1 the intervals 3488.50 m to 3495.00, 3498.25 m to 3503.25, and 3504.50 m to 3507.75 were perforated, but no fluids were produced. In DST2 the intervals 3445.00 m to 3447.5, 3449.25 m to 3453.5, 3454.5 m to 3459.5, and 3464.0 m to 3471.5 were perforated, but due to technical problems the test was abandoned. The final test, named DST 2A the same perforation intervals as in DST2 were used. Final gas flow rate under the first main flow period was 688000 Sm³/day and the corresponding condensate flow rate was 84 Sm³/day on a 36/64" choke. This correspond to a GOR of 8200 Sm³/Sm³. The gas gravity was 0.62 (air = 1) and condensate gravity was 50.3 °API.

Based on the test results from both 35/3-2 and 35/3-4 the reservoir encountered in 35/3-2 was interpreted as close to its dew point, while the 35/3-4 reservoir may not be. The reservoir penetrated by 35/3-4 is in a different pressure regime showing the two reservoirs to be different.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
890.00	4086.00

Borekaks tilgjengelig for prøvetaking?	NO
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3400.6	3415.4	[m]
2	3447.3	3457.6	[m]
3	3458.5	3459.6	[m]
4	3459.7	3478.1	[m]
5	3478.1	3488.6	[m]
6	3491.8	3497.0	[m]
7	3497.8	3509.5	[m]
8	3509.5	3514.8	[m]
9	3518.0	3530.7	[m]
10	3536.0	3542.8	[m]
11	4087.0	4088.5	[m]

Total kjerneprøve lengde [m]	98.2
Kjerner tilgjengelig for prøvetaking?	YES



Kjernebilder



3400-3403m



3403-3406m



3406-3408m



3408-3411m



3411-3414m



3414-3415m



3447-3450m



3450-3452m



3452-3455m



3455-3457m



3458-3459m



3459-3462m



3462-3465m



3465-3467m



3467-3470m



3470-3473m



3473-3475m



3475-3481m



3478-3480m



3480-3483m



3483-3486m



3486-3488m



3497-3500m



3500-3503m



3491-3494m



3491-3494m



3491-3494m



3491-3494m



3491-3494m



3491-3494m



3494-3497m

3503-3505m

3505-3508m

3503-3505m

3505-3508m



3508-3509m



4087-4088m



3509-3512m



3512-3514m



3518-3520m



3520-3523m



3523-3526m



3526-3528m



3528-3530m



3536-3538m



3538-3541m

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
660.0	[m]	DC	RRI
1020.0	[m]	DC	ROBERTSO
1030.0	[m]	DC	ROBERTSO
1040.0	[m]	DC	ROBERTSO
1070.0	[m]	DC	ROBERTSO
1080.0	[m]	DC	ROBERTSO
1090.0	[m]	DC	ROBERTSO
1100.0	[m]	DC	ROBERTSO
1110.0	[m]	DC	ROBERTSO
1120.0	[m]	DC	ROBERTSO
1130.0	[m]	DC	ROBERTSO
1140.0	[m]	DC	ROBERTSO
1150.0	[m]	DC	ROBERTSO
1160.0	[m]	DC	ROBERTSO



Faktasider

Brønnbane / Leting

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1210.0	[m]	DC	ROBERTSO
1210.0	[m]	DC	RRI
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1230.0	[m]	DC	ROBERTSO
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Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 17:59

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Faktasider

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3794.0	[m]	DC	OD
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3923.0	[m]	DC	RRI
3975.0	[m]	DC	OD
3983.0	[m]	DC	RRI
4043.0	[m]	DC	RRI
4087.1	[m]	C	OD
4088.3	[m]	C	OD

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST2A	3445.00	3471.50		25.05.1981 - 15:40	YES



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
283	NORDLAND GP
575	HORDALAND GP
575	NO FORMAL NAME
1162	ROGALAND GP
1162	BALDER FM
1177	LISTA FM
1327	NO FORMAL NAME
1356	LISTA FM
1401	NO FORMAL NAME
1457	VÅLE FM
1470	SHETLAND GP
1470	JORSALFARE FM
1561	KYRRE FM
2714	TRYGGVASON FM
3040	BLODØKS FM
3088	SVARTE FM
3345	CROMER KNOLL GP
3345	AGAT FM
3583	ÅSGARD FM
3667	VIKING GP
3667	HEATHER FM
3800	DUNLIN GP
3800	DRAKE FM
3963	COOK FM
4069	BASEMENT

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
219	pdf	0.72

Geokjemisk informasjon





Dokument navn	Dokument format	Dokument størrelse [KB]
219_01	pdf	1.98
219_02	pdf	1.93
219_03	pdf	1.84
219_04	pdf	1.89
219_05	pdf	1.89
219_06	pdf	1.25
219_07	pdf	2.00
219_08	pdf	1.89
219_09	pdf	1.74
219_10	pdf	2.00
219_11	pdf	0.10

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
219_01 WDSS General Information	pdf	0.11
219_02 WDSS completion log	pdf	0.25

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
219_35_3_4 COMPLETION REPORT AND LOG	pdf	4.29

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
2.0	3445	3471	14.3

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
2.0				





Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
2.0	84	688000	0.778	0.620	8190

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	1850	3574
CBL	2300	3756
CBL	3388	3566
CST	2721	3780
CST	3781	4080
DLL MSFL GR	2650	3797
FDC CNL GR	874	2382
FDC CNL GR	2368	3798
HDT	2368	3791
HDT	3756	4085
ISF BHC GR	2320	3800
ISF LSS GR	874	2382
ISF MSFL BHC GR	3700	4084
LDL CNL GR	3756	4085
NGS	3200	3650
RFT	2368	3798
RFT	3446	3548
RFT	3859	3878
VSP WST	2367	3798
WST	888	2382
WST	3640	4084

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	456.0	36	457.0	0.00	LOT
SURF.COND.	20	873.0	26	879.0	1.63	LOT
INTERM.	13 3/8	2367.0	17 1/2	2383.0	1.64	LOT
INTERM.	8 5/8	3756.0	12 1/4	3800.0	1.76	LOT
OPEN HOLE		4089.0	8 1/2	4089.0	0.00	LOT



Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
457	0.00			seawater	
879	1.13	100.0		water	
1506	1.23	56.0		water	
1836	1.25	50.0		water	
2000	1.29	58.0		water	
2197	1.32	71.0		water	
2383	1.28	55.0		water	
3200	1.29	44.0		water	
3401	1.34	47.0		water	
3417	1.35	70.0		water	
3458	1.40	42.0		water	
3478	1.37	50.0		water	
3518	1.38	43.0		water	
3800	1.36	47.0		water	
4089	1.43	56.0		water	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
3409.98	[m]
3401.78	[m]
3404.80	[m]
3405.85	[m]
3405.88	[m]
3406.48	[m]
3407.20	[m]
3408.25	[m]
3400.75	[m]
3410.00	[m]
3410.70	[m]
3411.98	[m]
3413.98	[m]
3447.30	[m]
3448.60	[m]



3449.75	[m]
3450.77	[m]
3450.80	[m]
3451.80	[m]
3452.83	[m]
3454.84	[m]
3455.95	[m]
3455.98	[m]
3456.96	[m]
3457.35	[m]
3457.40	[m]
3458.96	[m]
3459.58	[m]
3459.88	[m]
3460.99	[m]
3462.25	[m]
3463.20	[m]
3464.15	[m]
3465.00	[m]
3466.50	[m]
3467.70	[m]
3468.95	[m]
3469.30	[m]
3470.50	[m]
3471.23	[m]
3472.30	[m]
3473.00	[m]
3474.00	[m]
3474.05	[m]
3475.70	[m]
3475.76	[m]
3477.32	[m]
3477.36	[m]
3478.10	[m]
3479.72	[m]
3480.23	[m]
3481.05	[m]
3481.08	[m]
3482.20	[m]
3483.70	[m]



3485.75	[m]
3486.75	[m]
3487.72	[m]
3487.76	[m]
3488.60	[m]
3492.40	[m]
3493.25	[m]
3494.45	[m]
3494.88	[m]
3495.20	[m]
3496.40	[m]
3497.95	[m]
3499.00	[m]
3500.15	[m]
3501.15	[m]
3502.30	[m]
3503.35	[m]
3504.55	[m]
3505.23	[m]
3505.33	[m]
3506.20	[m]
3506.30	[m]
3507.05	[m]
3509.05	[m]
3510.30	[m]
3510.35	[m]
3510.88	[m]
3511.08	[m]
3511.12	[m]
3511.65	[m]
3511.70	[m]
3513.70	[m]
3514.75	[m]
3518.75	[m]
3519.68	[m]
3519.78	[m]
3520.65	[m]
3521.00	[m]
3539.80	[m]
3522.30	[m]



3523.75	[m]
3523.90	[m]
3524.85	[m]
3526.00	[m]
3527.35	[m]
3528.70	[m]
3529.70	[m]
3530.60	[m]
3536.15	[m]
3537.28	[m]
3538.60	[m]
4088.30	[m]
3542.20	[m]
4087.10	[m]
3525.00	[m]
3512.70	[m]
3521.06	[m]

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]
219 Formation pressure (Formasjonstrykk)	pdf	0.22

