



Generell informasjon

Brønnbane navn	6506/12-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	ÅSGARD
Funn	6506/12-1 Smørbukk
Brønn navn	6506/12-1
Seismisk lokalisering	line 911 460 & SP230
Utvinningstillatelse	094
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	430-L
Boreinnretning	ROSS ISLE
Boredager	175
Borestart	16.08.1984
Boreslutt	06.02.1985
Frigitt dato	06.02.1987
Publiseringsdato	13.12.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	FANGST GP
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	BÅT GP
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	250.0
Totalt målt dybde (MD) [m RKB]	4924.0
Temperatur ved bunn av brønnbanen [°C]	168
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	65° 10' 7.58" N



ØV grader	6° 43' 44.07" E
NS UTM [m]	7229359.52
ØV UTM [m]	393591.68
UTM sone	32
NPDID for brønnbanen	1004

Brønnhistorie

General

Well 6506/12-1 was drilled on the Alpha structure in the northwest part of the block. The main objective was middle Jurassic sandstones in an anti form structure. The secondary and tertiary objectives were Early Jurassic and Triassic sandstones on the same structure. Late and Early Cretaceous were also considered possible zones of hydrocarbon accumulations. Further objectives, of a more general exploratory nature, included the sampling of potential source rocks. Total depth was to be in rocks of Triassic age, or 4000 m in order to satisfy the licence commitment.

The well is Type Well for the Tofte, Lange, and Lyr Formation. It is Reference Well for the Cromer Knoll Group and for the Springar, Nise, and Kvitnos Formations.

Operations and results

Wildcat well 6506/12-1 was spudded with the semi-submersible installation Ross Isle on 16 August 1985 and drilled to TD at 4924 m in the Early Jurassic sediments of the Åre Formation. Drilling down to, and cementing the 20" casing, went without problems. While testing the casing a leak was discovered. No influx or loss of fluid was observed. Setting a cement plug in the interval 540-590 m solved the problem. A leak-off test equal to 1.34 g/cm³ below the 20" casing shoe was considered to low, and a cement squeeze was performed, after which a formation integrity test gave 1.64 g/cm³ without leak off. A cement squeeze also had to be performed to obtain a satisfactory leak-off test below the 13 3/8" casing shoe. Pore pressures were considerably below prognosed down to this depth. While preparing to run the 9 5/8" casing a sealing ring was dislodged and had to be milled. Down to 4317 m maximum deviation was 3.7 ° and difference between measured and true vertical depth was not more than 1 m. The last part of the well was however more problematic in this respect. At 4925 m it was decided to stop the drilling as the angle had built up too much, and an RFT-tool was stuck in the hole. The well was then logged and plugged back for testing. The well was drilled with spud mud down to 348 m, with bentonite and seawater from 348 m to 948 m, with gypsum/CMC from 948 m to 2203 m, with gypsum/lignosulphonate from 2203 m to 3918 m, with gel/lignosulphonate from 3918 m to 4554 m, and with gel/lignosulphonate/lignite from 4554 m to TD.

A 15 m thick sandstone/siltstone unit (Lysing Formation) was encountered at 3175 m. Logs indicated presence of hydrocarbons, but well site analyses of returns recorded no shows. The well penetrated 139 m Late Jurassic shales from 3835 m to 3974 m, including 22 m Spekk Formation in the upper part. Hydrocarbon bearing Middle Jurassic sandstones were encountered at 3974 m. No hydrocarbon/water contacts were recognised, neither on logs nor on cores. Moreover, the hydrocarbons seemed to be present both in Middle and Early Jurassic sandstones including sandstones within the top of the Åre Formation. The drill stem tests produced hydrocarbons down to a depth of 4373 m.

A total of 319 m of core was recovered in 15 cores from the Middle to Early Jurassic reservoir sections.



The well was permanently abandoned on 6 February 1985 as a gas and condensate discovery.

Testing

Seven different intervals in the reservoir were tested. DST 1 (4504-4509 m), DST 3 (4291-4304), and DST 6 (4095-4110) showed tight formation with no formation fluid produced to surface. DST 2 (4351-4373 m, Lower Tilje Formation) produced 691700 Sm³ gas and 516.9 Sm³ condensate pr day on a 25.4 mm choke. DST 4 (4251-4261 m, upper Tilje Formation) produced 603100 Sm³ gas and 620.2 Sm³ condensate pr day on a 23.8 mm choke. DST 5 (4203-4218 m, Tofte Formation) produced 583900 Sm³ gas and 376.6 Sm³ condensate pr day on a 25.4 mm choke. DST 7 (3993-4011 m, Garn Formation) produced 727400 Sm³ gas and 511 Sm³ condensate pr day on a 31.8 mm choke. The gas/oil ratio for the different tests varied from 973 to 1550 Sm³/Sm³ while the CO₂ was between 4.5 to 5.6 % and the H₂S content was between 6.5 to 8.0 ppm.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
350.00	4922.50

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3975.0	3993.0	[m]
2	3993.0	4018.4	[m]
3	4018.5	4044.0	[m]
4	4044.0	4070.8	[m]
5	4071.0	4097.4	[m]
6	4098.0	4124.8	[m]
7	4125.0	4151.7	[m]
8	4173.0	4190.9	[m]
9	4191.0	4205.4	[m]
10	4219.0	4229.5	[m]
11	4231.0	4250.0	[m]
12	4252.0	4274.5	[m]
13	4276.0	4277.5	[m]
14	4279.0	4290.4	[m]

Total kjerneprøve lengde [m]	272.7
Kjerner tilgjengelig for prøvetaking?	YES



Kjernebilder



3975-3979m



3973-3983m



3983-3987m



3987-3991m



3991-3995m



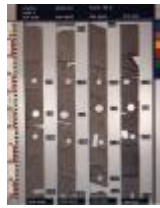
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3999-4003m



4003-4007m



4007-4011m



4011-4015m



4015-4018m



4018-4022m



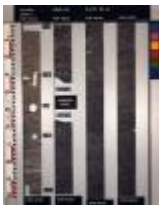
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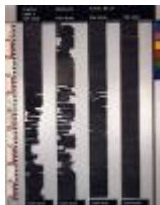
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4034-4038m



4038-4042m



4042-4046m



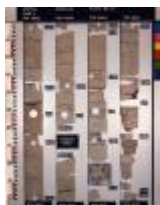
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4054-4058m



4058-4062m



4062-4066m



4066-4070m



4070-4074m



4074-4078m



4078-4082m



4082-4086m



4086-4090m



4090-4094m



4094-4097m



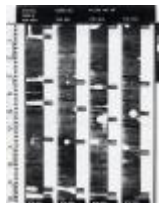
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4102-4106m



4106-4109m



4110-4114m



4114-4118m



4118-4122m



4122-4126m



4126-4130m



4130-4134m



4134-4138m



4142-4146m



4146-4150m



4150-4175m



4175-4179m



4179-4183m



4183-4187m



4187-4190m



4191-4195m



4195-4199m



4199-4203m



4203-4220m



4220-4224m



4224-4226m



4228-4233m



4233-4237m



4237-4241m



4241-4244m



4245-4249m



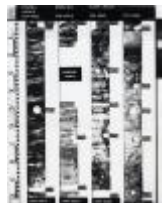
4249-4255m



4255-4259m



4259-4263m



4263-4267m



4267-4271m



4271-4274m



4276-4281m



4281-4285m



4285-4289m



4289-4584m



4584-4592m



4592-4597m

Palynologiske preparater i Sakkeldirektoratet

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Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 20.5.2024 - 02:20

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Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 20.5.2024 - 02:20

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4032.6	[m]	C	STRAT
4038.5	[m]	C	STRAT
4042.6	[m]	C	STRAT
4044.2	[m]	C	STRAT
4050.5	[m]	C	STRAT
4052.4	[m]	C	STRAT
4058.4	[m]	C	STRAT
4060.5	[m]	C	STRAT
4063.7	[m]	C	STRAT
4070.4	[m]	C	STRAT
4074.8	[m]	C	STRAT
4075.6	[m]	C	STRAT
4080.3	[m]	C	STRAT
4084.8	[m]	C	STRAT
4090.3	[m]	C	STRAT
4095.4	[m]	C	STRAT
4096.2	[m]	C	STRAT
4101.5	[m]	C	STRAT
4109.4	[m]	C	STRAT
4113.6	[m]	C	STRAT
4118.6	[m]	C	STRAT
4128.4	[m]	C	STRAT
4134.8	[m]	C	STRAT
4140.5	[m]	C	STRAT
4147.9	[m]	C	STRAT
4151.7	[m]	C	STRAT
4155.0	[m]	SWC	STRAT
4177.5	[m]	C	STRAT
4189.8	[m]	C	STRAT
4199.8	[m]	C	STRAT
4223.7	[m]	C	STRAT
4226.9	[m]	C	STRAT
4232.3	[m]	C	STRAT
4238.5	[m]	C	STRAT
4242.9	[m]	C	STRAT
4246.8	[m]	C	STRAT
4249.8	[m]	C	STRAT
4258.7	[m]	C	STRAT



4263.0 [m]	C	STRAT
4267.9 [m]	C	STRAT
4273.4 [m]	C	STRAT
4282.0 [m]	C	STRAT
4285.7 [m]	C	STRAT
4287.3 [m]	C	STRAT
4305.0 [m]	DC	STRAT
4320.0 [m]	DC	STRAT
4335.0 [m]	DC	STRAT
4350.0 [m]	DC	STRAT
4351.0 [m]	SWC	STRAT
4367.0 [m]	SWC	STRAT
4372.5 [m]	DC	STRAT
4380.0 [m]	DC	STRAT
4392.6 [m]	SWC	STRAT
4395.0 [m]	DC	STRAT
4410.0 [m]	DC	STRAT
4420.0 [m]	SWC	STRAT
4425.0 [m]	DC	STRAT
4440.0 [m]	DC	STRAT
4455.0 [m]	DC	STRAT
4470.0 [m]	DC	STRAT
4470.0 [m]	SWC	STRAT
4482.5 [m]	SWC	STRAT
4485.0 [m]	DC	STRAT
4487.0 [m]	SWC	STRAT
4500.0 [m]	DC	STRAT
4509.0 [m]	SWC	STRAT
4515.0 [m]	DC	STRAT
4526.0 [m]	SWC	STRAT
4530.0 [m]	DC	STRAT
4545.0 [m]	DC	STRAT
4557.0 [m]	SWC	STRAT
4560.0 [m]	DC	STRAT
4575.0 [m]	DC	STRAT
4576.0 [m]	SWC	STRAT
4600.0 [m]	DC	STRAT
4602.0 [m]	SWC	STRAT
4610.9 [m]	SWC	STRAT
4611.0 [m]	SWC	STRAT



4615.0	[m]	DC	STRAT
4630.0	[m]	DC	STRAT
4641.0	[m]	SWC	STRAT
4645.0	[m]	DC	STRAT
4660.0	[m]	DC	STRAT
4675.0	[m]	DC	STRAT
4690.0	[m]	DC	STRAT
4705.0	[m]	DC	STRAT
4716.0	[m]	SWC	STRAT
4720.0	[m]	DC	STRAT
4735.0	[m]	DC	STRAT
4750.0	[m]	DC	STRAT
4765.0	[m]	DC	STRAT
4769.9	[m]	SWC	STRAT
4780.0	[m]	DC	STRAT
4795.0	[m]	DC	STRAT
4810.0	[m]	DC	STRAT
4811.4	[m]	SWC	STRAT
4811.5	[m]	SWC	STRAT
4825.0	[m]	DC	STRAT
4840.0	[m]	DC	STRAT
4855.0	[m]	DC	STRAT
4870.0	[m]	DC	STRAT
4885.0	[m]	DC	STRAT
4900.0	[m]	DC	STRAT
4915.0	[m]	DC	STRAT
4922.0	[m]	DC	STRAT

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST2	4351.00	4374.00		11.12.1984 - 00:00	YES
DST	DST2C	4373.00	4351.00		12.12.1984 - 00:00	YES
DST	DST3	4374.00	4351.00		22.12.1984 - 20:50	YES
DST	DST4	4251.00	4261.00		26.12.1984 - 00:00	YES



DST	DST4B	4251.00	4261.00		30.12.1984 - 10:03	YES
DST		0.00	0.00			YES
DST	DST5B	4203.00	4218.00		08.01.1985 - 03:30	YES
DST	DST5D	4203.00	4218.00		14.01.1985 - 00:00	YES
DST	DST7	3993.00	4011.00		27.01.1985 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
277	NORDLAND GP
1459	KAI FM
1931	HORDALAND GP
1931	BRYGGE FM
2132	ROGALAND GP
2132	TARE FM
2227	TANG FM
2279	SHETLAND GP
2279	SPRINGAR FM
2446	NISE FM
2658	KVITNOS FM
3175	CROMER KNOLL GP
3175	LYSING FM
3190	LANGE FM
3813	LYR FM
3836	VIKING GP
3836	SPEKK FM
3852	MELKE FM
3974	FANGST GP
3974	GARN FM
4013	NOT FM
4048	ILE FM
4107	BÅT GP
4107	ROR FM
4164	TOFTE FM
4229	TILJE FM



4437 [ÅRE FM](#)

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1004	pdf	1.07

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1004_1	pdf	2.38

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1004_01_WDSS_General_Information	pdf	0.33
1004_02_WDSS_completion_log	pdf	0.35

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1004_01_Completionreport	pdf	21.31
1004_02_Completionlog	pdf	3.51

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	4504	4509	31.8
2.0	4351	4373	25.4
3.0	4291	4304	3.2
4.1	4251	4261	25.4
5.0	4218	4203	19.0
5.1	4218	4203	19.0





6.0	4095	4110	0.0
7.0	3993	4011	31.8

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0	67.000	44.000	71.000	
2.0	33.000	12.000	43.000	
3.0			47.000	
4.1		19.000	47.000	
5.0		104.000		
5.1		104.000		
6.0				
7.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0					
2.0	517	692000	0.790	0.750	1352
3.0					
4.1	700	547000	0.805		928
5.0	350	550000	0.790		1571
5.1	273	410000	0.790		1500
6.0					
7.0	511	728000	0.790	0.750	1424

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BGL DUAL CALIPER	346	765
BGL DUAL CALIPER	346	949
CBL VDL CCL	3751	4510
CBL VDL GR	790	2181
CBL VDL GR	3754	4926
CEL CLL GR	3754	4521
CST GR	2200	3911
CST GR	3929	4540
CST GR	4557	4811



DLL SP GR	3909	4549
DLL SP GR	4554	4929
ISF LSS MSFL SP GR	345	4926
LDL CNL GR	345	4926
MWD - GR RES DIR	345	945
NGT PB	3550	3910
NGT PB	3909	4510
RFT GR	3976	4098
RFT GR	3987	0
RFT GR	4077	4453
RFT GR	4573	4794
RFT GR	4867	4870
SHDT GR	3550	3921
SHDT GR	3909	4557
VBL VDL GR	2472	3906
VSP	282	4830

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	346.0	36	347.0	0.00	LOT
SURF.COND.	20	931.0	26	951.0	0.00	LOT
INTERM.	13 3/8	2184.0	17 1/2	2206.0	1.81	LOT
INTERM.	9 5/8	3907.0	12 1/4	3918.0	1.92	LOT
LINER	7	4553.0	8 1/2	4554.0	1.98	LOT
OPEN HOLE		4925.0	6	4925.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
346	1.10			WATER BASED	20.08.1984
948	1.16	10.0	20.0	WATER BASED	22.08.1984
948	1.16	10.0	20.0	WATER BASED	24.08.1984
948	1.32	11.0	21.0	WATER BASED	27.08.1984
948	1.10	7.0	31.0	WATER BASED	22.08.1984
948	1.16	10.0	20.0	WATER BASED	22.08.1984
948	1.16	10.0	20.0	WATER BASED	24.08.1984



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 20.5.2024 - 02:20

948	1.32	11.0	21.0	WATER BASED	27.08.1984
1274	1.13	6.0	9.0	WATER BASED	03.09.1984
1700	1.17	8.0	6.8	WATER BASED	03.09.1984
2110	1.35	11.0	8.8	WATER BASED	04.09.1984
2203	1.35	14.0	7.8	WATER BASED	06.09.1984
2203	1.40	11.0	6.8	WATER BASED	06.09.1984
2203	1.55	13.0	5.9	WATER BASED	06.09.1984
2203	1.60	13.0	5.0	WATER BASED	10.09.1984
2203	1.40	11.0	6.8	WATER BASED	06.09.1984
2203	1.60	13.0	5.0	WATER BASED	10.09.1984
2203	1.55	13.0	5.9	WATER BASED	06.09.1984
2300	1.60	16.0	11.0	WATER BASED	11.09.1984
2485	1.60	20.0	8.0	WATER BASED	11.09.1984
2537	1.60	17.0	4.8	WATER BASED	11.09.1984
2718	1.65	20.0	7.8	WATER BASED	12.09.1984
2763	1.65	21.0	7.7	WATER BASED	13.09.1984
2915	1.65	18.0	9.2	WATER BASED	17.09.1984
2983	1.65	15.0	4.8	WATER BASED	17.09.1984
3238	1.65	19.0	8.3	WATER BASED	19.09.1984
3330	1.65	19.0	9.0	WATER BASED	20.09.1984
3654	1.68	16.2	5.2	WATER BASED	23.09.1984
3654	1.72	16.0	5.0	WATER BASED	27.09.1984
3654	1.72	16.0	5.0	WATER BASED	27.09.1984
3917	1.72	15.0	5.6	WATER BASED	15.10.1984
3973	1.25	12.0	4.5	WATER BASED	15.10.1984
4038	1.25	19.0	4.7	WATER BASED	15.10.1984
4125	1.25	15.0		WATER BASED	19.10.1984
4307	1.25	13.0	5.4	WATER BASED	29.10.1984
4493	1.25	12.0	5.7	WATER BASED	30.10.1984
4554	1.28	17.0	5.7	WATER BASED	30.10.1984
4682	1.36	16.0	3.9	WATER BASED	15.11.1984
4757	1.04	16.0	3.8	WATER BASED	16.11.1984
4833	1.45	20.0	6.0	WATER BASED	19.11.1984
4924	1.53	20.0	4.3	WATER BASED	19.11.1984
4924	1.58	21.0	4.0	WATER BASED	23.11.1984
4924	1.63	22.0	6.0	WATER BASED	23.11.1984
4924	1.68	23.0	6.7	WATER BASED	26.11.1984
4924	1.58	21.0	4.8	WATER BASED	20.11.1984
4924	1.58	21.0	4.8	WATER BASED	20.11.1984
4924	1.58	21.0	4.0	WATER BASED	23.11.1984



4924	1.63	22.0	6.0	WATER BASED	23.11.1984
4924	1.68	23.0	6.7	WATER BASED	26.11.1984

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]
1004_Formation_pressure_(Formasjonstrykk)	pdf	0.28

