



Generell informasjon

Brønnbane navn	6406/11-1 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6406/11-1 S
Brønn navn	6406/11-1
Seismisk lokalisering	DG M2-3D-90: ROW 243 & COL. 920
Utvinningstillatelse	156
Boreoperatør	Saga Petroleum ASA
Boretillatelse	651-L
Boreinnretning	TREASURE SAGA
Boredager	123
Borestart	19.10.1990
Boreslutt	18.02.1991
Frigitt dato	18.02.1993
Publiseringsdato	30.06.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	ILE FM
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	315.0
Totalt målt dybde (MD) [m RKB]	4185.0
Totalt vertikalt dybde (TVD) [m RKB]	4131.0
Maks inklinasjon [°]	28.8
Temperatur ved bunn av brønnbanen [°C]	150
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	RED BEDS (INFORMAL)
Geodetisk datum	ED50
NS grader	64° 2' 45.9" N
ØV grader	6° 36' 14.16" E



NS UTM [m]	7104524.70
ØV UTM [m]	383011.32
UTM sone	32
NPDID for brønnbanen	1539

Brønnhistorie

General

The well 6406/11-IS was drilled on a truncational/fault seal trap structure on the western slope of the Frøya High near the southern end of the Halten Terrace. The main objective of the well was to test the hydrocarbon potential in the Early to Middle Jurassic Fangst Group. Secondary objectives were to test the reservoir properties the underlying Tilje Formation, as well as possible sand development in the Tertiary. The well should also evaluate the source rock properties in the Early Jurassic Åre Formation. Planned total depth was 4526 m RKB TVD beneath a seismic marker interpreted as Triassic Evaporite. The well was the first well on a new block and the pressure prognosis was uncertain. Formation pressures were to be watched closely while drilling.

Operations and results

Wildcat well 6406/11-1 S was spudded with the semi-submersible installation Treasure Saga on 19 October 1990 and drilled to TD at 4185 m in the Late Triassic Red Beds. To avoid shallow gas the well was spudded and drilled deviated from a location 260 m NNW of the planned target location. During drilling the Nordland Group, two shallow gas intervals were penetrated at 893 - 897.5 m and 1148 - 1150 m. To get back to vertical drilling the well was deviated from 1235 m to 2165 m MD. Only minor problems occurred while drilling down to the 12 1/4" section. After drilling the 12 1/4" hole down to 3395 m, the VSP tool become stuck at 3383 m. A total of 5 days were spent recovering the wire line and miring the fish down. Only minor problems with tight spots occurred while drilling to TD.

Formation pressure was hydrostatic down to ca 1520 m, from where a gradual pressure build up was indicated in the Hordaland Group down through the Rogaland Group, estimated to a maximum of 1.60 g/cc EMW at 2400 m in the upper part of the Shetland Group. From here a slight pressure depletion down to approximately 3000 m was indicated. From 3000 m down to the Jurassic sandstones of the Fangst Group, increasing gas levels and decreasing sonic velocity indicated a new pressure build up. The pressure build up continues down to 3630.8 m in the Ile Formation where a maximum pressure gradient of 1.71 g/cc EMW was estimated on the basis of FMT recordings. High gas levels in the Åre Formation of the Båt Group indicate a possible new pressure build up towards the bottom of the well.

No significant sand development was seen in the Tertiary. The Fangst Group comprised shales of the Not Formation before penetrating the reservoir sands of the Ile Formation at 3599 m. The well drilled further through the Early Jurassic Båt Group comprising the Ror, Tilje and Åre Formations before penetrating the Triassic Grey Beds at 4134 m and Red Beds at 4149 m.

FMT pressure measurements showed a possible gas/condensate gradient over the Ile Formation. The first appearance of C2+ components in the mud gas readings came at 3599 m in the Ile Formation. Sands of the Ile Formation contained moderate to good oil shows. Sands of the Tilje Formations also had weak oil shows, and weak, intermittent oil shows were recorded from 4025 m to 4100 m in the Åre Formation. Organic geochemical analyses showed that mainly gas-prone source rocks were penetrated in the well. These are the Upper Jurassic Melke Formation shales, which have a fair gas potential (and some condensate), and coals and shales within the Ile, Ror, and Åre



Formation. Coal in the Ile Formation may have some minor potential for waxy oil. The well is immature ($R_o < 0.5$ %) down to about 2500 m, moderately mature (R_o 0.5 - 0.6 %) down to 3600 m and peak oil mature (~ 0.8 %) at about 4100 m, remaining within the oil window to TD at 4188 m. The analyses further confirmed oil stain from migrant hydrocarbons in the interval 3600 m to 4100 m. Extracts, FMT oil, and DST3A oil from the Ile Formation all showed a very waxy composition. PVT analyses of the FMT oil showed a pour point of 34 °C, bubble point pressure of 275 bar at 80 °C, and stock tank oil density of 0.8754 g/cm³. The GOR from single stage flash was 126.5 Sm³/Sm³.

Three segregated FMT fluid samples were taken in the Ile Formation, and the sample from 3694.3 m contained 1.5 litres of oil and 7 litres of water. In the Tilje and Åre Formations no reliable pressure measurements were obtained due to tight formation and hole conditions. As the planned DST of the Tilje Formation was cancelled a cased hole RFT-tool was run here, with the objective to obtain fluid samples. This sampling was not conclusive as the chambers contained mainly filtrate water. A total of 11 conventional cores were cut in the Ile and Ror Formations, recovering a total of 109.7 m core. A total of 113 sidewall cores were attempted and 73 were recovered.

The well was permanently abandoned on 18 February 1991 as a minor oil discovery.

Testing

3 DST tests were performed. Test 1 in the intervals 4027 - 4049 m and 4053 - 4060 m (Åre Formation) yielded 2 Sm³/d of water. Test 3A within the Ile Formation yielded 19 Sm³/d of waxy oil with formation water in the interval 3709 - 3723 m. Test 3B perforated the interval 3692 - 3705 m in addition to 3709 - 3723 m, and an immediate pressure increase followed. This test produced 610 Sm³/d water and no oil.

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Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
440.00	4184.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3604.0	3605.5	[m]
2	3615.0	3623.8	[m]
3	3625.0	3637.7	[m]
4	3642.0	3649.2	[m]
5	3653.0	3664.0	[m]
6	3665.0	3683.8	[m]
7	3684.0	3692.2	[m]
8	3694.0	3712.0	[m]
9	3712.0	3721.0	[m]



10	3725.0	3728.5	[m]
11	3733.0	3747.0	[m]

Total kjerneprøve lengde [m]	112.7
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3604-3618m



3618-3623m



3623-3629m



3629-3634m



3634-3646m



3646-3654m



3654-3659m



3659-3664m



3665-3670m



3670-3675m



3675-3680m



3680-3685m



3685-3690m



3690-3696m



3696-3701m



3701-3706m



3706-3711m



3711-3716m



3716-3721m



3725-3734m



3734-3739m



3739-3744m



3744-3749m



3734-3739m 3739-3744m 3744-3747m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
607.5	[m]	SWC	STRAT
620.0	[m]	DC	STRAT
630.0	[m]	DC	STRAT
640.0	[m]	DC	STRAT
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670.0	[m]	DC	STRAT
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694.0	[m]	SWC	STRAT
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710.0	[m]	DC	STRAT
720.0	[m]	DC	STRAT
730.0	[m]	DC	STRAT
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Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 02:59

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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
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341	NAUST FM
1191	KAI FM
1397	HORDALAND GP
1397	BRYGGE FM
2143	ROGALAND GP
2143	TARE FM
2190	TANG FM
2335	SHETLAND GP
2335	SPRINGAR FM
2371	NISE FM



2770	KVITNOS FM
3205	CROMER KNOLL GP
3205	LANGE FM
3370	LYR FM
3419	VIKING GP
3419	MELKE FM
3522	FANGST GP
3522	NOT FM
3599	ILE FM
3722	BÅT GP
3722	ROR FM
3787	TOFTE FM
3822	ROR FM
3871	TILJE FM
3985	ÅRE FM
4134	GREY BEDS (INFORMAL)
4149	RED BEDS (INFORMAL)

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1539	pdf	0.54

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1539_1	pdf	3.60

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1539_01_WDSS_General_Information	pdf	0.57
1539_02_WDSS_completion_log	pdf	0.22





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1539 6406 11 1 S COMPLETION LOG	pdf	2.56
1539 6406 11 1 S COMPLETION REPORT	pdf	15.41

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	4027	4060	6.4
2.0	3709	3723	31.8
3.0	3692	3723	16.7

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0	1.000		51.000	141
2.0	2.000		35.000	134
3.0	2.300		37.000	139

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0					
2.0	19				
3.0					

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CDL CNL GR	3269	4183
CDL CNL GR	3408	3923
CDL CNL GR	3550	4125
COREGUN	495	1203
COREGUN	1560	2161
COREGUN	2453	3355
DIFL ACL CDL GR	448	1208





DIFL ACL CDL GR	1202	2164
DIFL ACL CDL GR	2148	3394
DIFL ACL GR	3269	4183
DIPLOG	3266	4173
DLL MLL GR	3562	3923
FMT	3599	3909
FMT	3650	3978
MWD RWD - GR RES DIR	341	4185
VSP	472	4160

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	449.0	36	454.0	0.00	LOT
INTERM.	20	1202.0	26	1218.0	0.00	LOT
INTERM.	13 3/8	2151.0	17 1/2	2165.0	1.72	LOT
INTERM.	9 5/8	3275.0	12 1/4	3395.0	1.92	LOT
OPEN HOLE		4185.0	8 1/2	4185.0	1.98	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
934	1.13	5.0	20.0	WATER BASED	22.10.1990
1215	1.15	5.0	19.0	WATER BASED	24.10.1990
1215	1.16	6.0	21.0	WATER BASED	25.10.1990
1215	1.18	6.0	22.0	WATER BASED	26.10.1990
1215	1.15	5.0	20.0	WATER BASED	24.10.1990
1218	1.18	7.0	25.0	WATER BASED	29.10.1990
1218	1.18	7.0	25.0	WATER BASED	29.10.1990
1235	1.30	23.0	34.0	WATER BASED	29.10.1990
1920	1.52	28.0	40.0	WATER BASED	31.10.1990
2125	1.59	37.0	23.0	WATER BASED	01.11.1990
2165	1.61	36.0	13.0	WATER BASED	05.11.1990
2165	1.61	35.0	15.0	WATER BASED	05.11.1990
2165	1.61	34.0	18.0	WATER BASED	05.11.1990
2165	1.61	35.0	15.0	WATER BASED	06.11.1990
2297	1.66	30.0	13.0	WATER BASED	08.11.1990



Faktasider

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2450	1.71	37.0	21.0	WATER BASED	09.11.1990
2636	1.71	30.0	21.0	WATER BASED	13.11.1990
2721	1.71	31.0	15.0	WATER BASED	13.11.1990
2827	1.71	31.0	17.0	WATER BASED	13.11.1990
2898	1.71	35.0	20.0	WATER BASED	14.11.1990
2992	1.71	37.0	19.0	WATER BASED	15.11.1990
3104	1.71	33.0	23.0	WATER BASED	15.11.1990
3159	1.71	34.0	22.0	WATER BASED	16.11.1990
3195	1.71	32.0	20.0	WATER BASED	20.11.1990
3244	1.71	28.0	17.0	WATER BASED	20.11.1990
3244	1.71	28.0	17.0	WATER BASED	20.11.1990
3295	1.71	29.0	21.0	WATER BASED	20.11.1990
3319	1.72	30.0	11.0	WATER BASED	10.12.1990
3319	1.72	30.0	11.0	WATER BASED	10.12.1990
3319	1.72	26.0	10.0	WATER BASED	10.12.1990
3319	1.72	30.0	10.0	WATER BASED	10.12.1990
3319	1.72	28.0	21.0	WATER BASED	12.12.1990
3319	1.72	32.0	18.0	WATER BASED	13.12.1990
3320	1.72	30.0	15.0	WATER BASED	14.12.1990
3324	1.72	30.0	18.0	WATER BASED	14.12.1990
3324	1.72	32.0	12.0	WATER BASED	18.12.1990
3324	1.72	30.0	18.0	WATER BASED	18.12.1990
3348	1.71	38.0	25.0	WATER BASED	22.11.1990
3389	1.71	32.0	19.0	WATER BASED	22.11.1990
3390	1.72	27.0	12.0	WATER BASED	18.12.1990
3395	1.71	34.0	19.0	WATER BASED	26.11.1990
3395	1.71	33.0	22.0	WATER BASED	26.11.1990
3395	1.71	31.0	18.0	WATER BASED	27.11.1990
3395	1.71	30.0	18.0	WATER BASED	28.11.1990
3395	1.72	36.0	21.0	WATER BASED	30.11.1990
3395	1.72	35.0	13.0	WATER BASED	05.12.1990
3395	1.72	36.0	16.0	WATER BASED	05.12.1990
3395	1.72	34.0	17.0	WATER BASED	05.12.1990
3395	1.72	35.0	19.0	WATER BASED	05.12.1990
3395	1.72	34.0	17.0	WATER BASED	10.12.1990
3395	1.71	33.0	21.0	WATER BASED	23.11.1990
3395	1.71	35.0	19.0	WATER BASED	26.11.1990
3395	1.72	35.0	12.0	WATER BASED	05.12.1990
3405	1.72	25.0	12.0	WATER BASED	19.12.1990
3455	1.72	26.0	10.0	WATER BASED	19.12.1990



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3488	1.72	29.0	15.0	WATER BASED	21.12.1990
3532	1.72	30.0	14.0	WATER BASED	21.12.1990
3532	1.72	31.0	16.0	WATER BASED	02.01.1991
3532	1.72	32.0	16.0	WATER BASED	02.01.1991
3532	1.72	34.0	17.0	WATER BASED	02.01.1991
3532	1.72	36.0	18.0	WATER BASED	02.01.1991
3532	1.72	33.0	16.0	WATER BASED	07.01.1991
3532	1.72	27.0	12.0	WATER BASED	02.01.1991
3532	1.72	34.0	17.0	WATER BASED	04.01.1991
3576	1.72	29.0	12.0	WATER BASED	31.12.1990
3600	1.72	34.0	11.0	WATER BASED	07.01.1991
3600	1.76	40.0	12.0	WATER BASED	07.01.1991
3600	1.72	34.0	16.0	WATER BASED	07.01.1991
3615	1.72	28.0	11.0	WATER BASED	31.12.1990
3625	1.72	29.0	11.0	WATER BASED	31.12.1990
3653	1.72	29.0	10.0	WATER BASED	31.12.1990
3665	1.72	29.0	10.0	WATER BASED	31.12.1990
3684	1.72	29.0	11.0	WATER BASED	31.12.1990
3713	1.72	28.0	11.0	WATER BASED	31.12.1990
3875	1.81	28.0	17.0	WATER BASED	19.02.1991
3875	1.85	22.0	9.0	WATER BASED	19.02.1991
3945	1.78	26.0	10.0	WATER BASED	11.01.1991
3945	1.78	28.0	11.0	WATER BASED	11.01.1991
3945	1.78	29.0	14.0	WATER BASED	11.01.1991
3975	1.83	22.0	8.0	WATER BASED	08.02.1991
3975	1.83	23.0	8.0	WATER BASED	08.02.1991
3975	1.83	22.0	8.0	WATER BASED	08.02.1991
3975	1.83	23.0	8.0	WATER BASED	08.02.1991
3975	1.83	21.0	4.0	WATER BASED	11.02.1991
3975	1.83	22.0	9.0	WATER BASED	11.02.1991
3975	1.83	22.0	9.0	WATER BASED	11.02.1991
3975	1.83	22.0	8.0	WATER BASED	12.02.1991
3975	1.83	22.0	8.0	WATER BASED	14.02.1991
3975	1.84	22.0	10.0	WATER BASED	14.02.1991
4091	1.87	36.0	18.0	WATER BASED	15.01.1991
4091	1.81	36.0	18.0	WATER BASED	16.01.1991
4185	1.83	32.0	14.0	WATER BASED	17.01.1991
4185	1.83	28.0	10.0	WATER BASED	18.01.1991
4185	1.83	26.0	10.0	WATER BASED	18.01.1991
4185	1.83	25.0	8.0	WATER BASED	21.01.1991



4185	1.83	28.0	9.0	WATER BASED	21.01.1991
4185	1.83	24.0	10.0	WATER BASED	21.01.1991
4185	1.83	26.0	14.0	WATER BASED	24.01.1991
4185	1.83	22.0	8.0	WATER BASED	25.01.1991
4185	1.83	26.0	8.0	WATER BASED	28.01.1991
4185	1.83	25.0	8.0	WATER BASED	29.01.1991
4185	1.83	28.0	9.0	WATER BASED	29.01.1991
4185	1.83	28.0	9.0	WATER BASED	30.01.1991
4185	1.83	23.0	8.0	WATER BASED	01.02.1991
4185	1.83	23.0	8.0	WATER BASED	04.02.1991
4185	1.83	22.0	10.0	WATER BASED	04.02.1991
4185	1.83	22.0	10.0	WATER BASED	04.02.1991
4185	1.83	23.0	8.0	WATER BASED	06.02.1991
4185	1.83	22.0	10.0	WATER BASED	07.02.1991
4185	1.83	33.0	13.0	WATER BASED	16.01.1991
4185	1.83	22.0	8.0	WATER BASED	24.01.1991
4185	1.83	26.0	8.0	WATER BASED	29.01.1991
4185	1.83	22.0	9.0	WATER BASED	30.01.1991
4185	1.83	22.0	10.0	WATER BASED	04.02.1991

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]
1539 Formation pressure (Formasjonstrykk)	pdf	0.28

