



Generell informasjon

Brønnbane navn	6406/2-1
Type	EXPLORATION
Formål	WILDCAT
Status	SUSPENDED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	KRISTIN
Funn	6406/2-1 Lavrans
Brønn navn	6406/2-1
Seismisk lokalisering	SG 9312 3D- ROW 1396 & COLUMN 1975
Utvinningstillatelse	199
Boreoperatør	Saga Petroleum ASA
Boretillatelse	798-L
Boreinnretning	ROSS RIG (2)
Boredager	162
Borestart	30.10.1994
Boreslutt	09.04.1995
Frigitt dato	09.04.1997
Publiseringsdato	29.05.2002
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]	24.0
Vanndybde ved midlere havflate [m]	278.0
Totalt målt dybde (MD) [m RKB]	5292.0
Totalt vertikalt dybde (TVD) [m RKB]	5283.0
Maks inklinasjon [°]	15.3
Temperatur ved bunn av brønnbanen [°C]	172
Eldste penetrerte alder	EARLY JURASSIC



Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	64° 52' 15.19" N
ØV grader	6° 36' 21.35" E
NS UTM [m]	7196390.67
ØV UTM [m]	386574.36
UTM sone	32
NPDID for brønnbanen	2444

Brønnhistorie

General

Exploration well 6406/2-1 was drilled on the B-prospect east in the block 6406/2, south of the Smørbukk Field and west of the Trestakk Field on Haltenbanken. The main purpose was to test the B-prospect sandstones of Middle to Early Jurassic age and the presence of hydrocarbons. Further, the reservoir quality at great depth (prognosed TD 5200 m) was to be tested. The main reservoir zones were prognosed to be the Ile and Tilje Formations, both prognosed to consist of mica-bearing sandstones with thin shale layers. The Garn and Tofte Formations, expected to be purer quartz-sandstones and more susceptible to diagenetic quartz cementation, were considered as additional potential.

Possible sandstones were also prognosed at three different levels within the Cromer Knoll Group (in the Lysing and Lange Formations, of Turonian and Cenomanian age), and the well 6406/2-1 was aimed to test these levels within structural closure.

Operations and results

Well 6406/2-1 was spudded on 31 October 1994 with the semi-submersible "Ross Rig". Due to environmental restrictions in the area, the drilling operations was stopped on 1 April 1995, and the well was temporarily plugged and abandoned on 9 April 1995 at a preliminary TD of 5295 m. Total non-productive time (NPT) for the well was 49,3 days. The reasons for lost time were mainly:

- Core barrel stuck when attempting to pull out of hole with core no. 7
- Leakages on hose between yellow pod and shuttle valve for MPR
- Stuck with 2 radioactive logging tools
- Unsuccessful attempts to log with RCI / FMT tools

The well 6406/2-1 R was reentered 21 August 1995 and reached TD 20 September at 5892 m (5790 mTVD). The production testing of seven Jurassic reservoir levels was started 28 September 1995, and was completed 1 January 1996. The planned TD for the reentry was changed during drilling to 5800 m or 100 m below the Intra Åre Coal Sequence, in order to investigate the reservoir potential of the underlying sandstones.

Well 6406/2-1 was drilled with a spud mud down to 1236 m and KCl mud with ANCO 208 glycols to 5295 m. The 6406/2-1 Re-entry (5295 m - 5892 m) was drilled water based without ANCO 208.

The combined well bore 6406/2-1 + 6406/2-1 R was a record well on the Norwegian sector both as the deepest TD to date and with the longest cored section to date (692.5 m gross, 625 m recovered).

In the Nordland and Hordaland Groups, the well penetrated mainly clay/claystones with some thin sand beds, predominantly non-calcareous. The Rogaland Group comprised tuffaceous claystones with local carbonate cement in the upper part (Tare Formation),



and claystones with thin limestone beds in the lower part (Tang Formation). In the Shetland Group, silty claystones with occasional thin beds of sandstone and limestone were drilled in the Springar Formation, whereas the Nise and Kvitnos Formations consisted of silty and sandy claystones with thin beds of sandstone and limestone. In the Cromer Knoll Group, two of the prognosed sandy intervals were identified; the Lysing Formation of Late Turonian age and an Intra Lange Sandstone close to the Cenomanian - Albian boundary. Weak oil stain as well as hydrocarbon fluorescence and cut reactions could be traced in cuttings and sidewall cores within these two sandstone intervals. However, the individual sand beds are too thin to constitute any significant reservoir. In addition a sandy interval (Intra Lange Sandstone) was identified in Upper Cenomanian - Lower Turonian sediments. No shows were observed in this interval. The Upper Jurassic Viking Group was penetrated at 4371 m. It consisted of dark shales, rich in organic content typical for the Spekk Formation, and paler gray mudstones of the Melke Formation

The well proved good reservoir quality in mica-bearing sandstones of the Ile, Tofte, Tilje and the upper part of the Åre Formations, and marginal porosities in the Garn Formation which contained more quartz rich, mature sand. Hydrocarbons were discovered in all reservoir units, and no hydrocarbon contacts were encountered.

Pressure points were measured in the Garn, Ile and Tofte Formations. The formation pressures were slightly higher than hydrostatic. An FMT fluid sample was collected from 4435 m in the Garn Formation. It contained only filtrate and some gas. Two FMT- fluid samples were collected at 4687 m and 4700 m in the Ile Formation. Both contained gas and oil in addition to filtrate. No FMT results were obtained from the Tilje and Åre Formations.

In well 6406/2-1 684.5 m was cored (616.6 m recovered) in the Middle and Lower Jurassic. One core was sampled in well 6406/2-1 R in the lower part of the Åre Formation at 5643-5651,65 m (later log-shifted 11 m downwards). The well was suspended at TD as a gas/condensate discovery.

Testing

Seven drill stem tests were performed.

The test intervals 4,5 and 6 in the Tilje, Tofte and Ile Formations produced gas and condensate. The test intervals 3 and 7 in the middle of the Tilje Formation and the Garn Formation, respectively, produced both gas/condensate and formation water, indicating hydrocarbon contacts within interval 3 (5024-5041 m) and interval 7 (4427-4495 m). The test interval 1 in the upper Åre Formation and test interval 2 in the lower Tilje Formation produced water.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1240.00	4908.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4422.0	4430.0	[m]



2	4603.0	4630.8	[m]
3	4630.5	4664.5	[m]
4	4664.5	4702.5	[m]
5	4702.5	4748.3	[m]
6	4748.5	4795.3	[m]
7	4795.5	4813.2	[m]
8	4824.5	4835.7	[m]
9	4839.0	4853.6	[m]
10	4868.0	4896.6	[m]
11	4909.0	4926.3	[m]
12	4929.0	4955.6	[m]
13	4956.0	4957.8	[m]
14	4963.0	4986.2	[m]
15	4987.0	4998.2	[m]
16	4999.0	5009.0	[m]
17	5009.0	5020.3	[m]
18	5022.0	5049.1	[m]
19	5050.0	5063.0	[m]
20	5063.5	5090.7	[m]
21	5091.0	5118.7	[m]
22	5119.0	5148.2	[m]
23	5148.5	5167.7	[m]
24	5183.0	5198.8	[m]
25	5201.0	5219.3	[m]
26	5223.0	5247.9	[m]
27	5249.0	5268.1	[m]
28	5269.0	5290.6	[m]

Total kjerneprøve lengde [m]	616.8
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



4422-4427m



4427-4430m



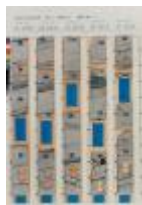
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4608-4613m



4613-4618m



4618-4623m



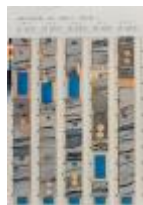
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4628-4630m



4630-4635m



4635-4640m



4640-4645m



4645-4650m



4650-4655m



4655-4660m



4660-4664m



4664-4669m



4669-4674m



4674-4679m



4679-4684m



4684-4689m



4689-4694m



4694-4699m



4699-4702m



4702-4707m



4707-4712m



4712-4717m



4717-4722m



4722-4727m



4727-4732m



4732-4737m



4737-4742m



4742-4747m



4747-4748m



4748-4753m



4753-4758m



4758-4763m



4763-4768m



4773-4748m



4778-4783m



4783-4788m



4788-4793m



4793-4795m



4795-4800m



4800-4805m



4805-4810m



4810-4813m



4824-4829m



4829-4834m



4834-4836m



4839-4844m



4844-4849m



4849-4853m



4868-4873m



4873-4878m



4878-4883m



4883-4888m



4888-4893m



4309-4914m



4914-4919m



4919-4924m



4924-4926m



4929-4934m



4934-4939m



4939-4944m



4944-4949m



4949-4954m



4954-4957m



4963-4968m



4968-4973m



4973-4978m



4978-4983m



4983-4986m



4987-4992m



4992-4997m



4997-4998m



4999-5004m



5004-5009m



5009-5014m



5014-5019m



5019-5020m



5022-5027m



5027-5032m



5032-5037m



5037-5042m



5042-5047m



5047-5049m



5050-5055m



5055-5060m



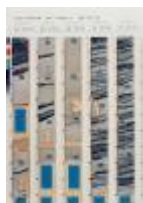
5060-5063m



5063-5068m



5068-5073m



5073-5078m



5078-5083m



5083-5088m



5088-5090m



5091-5096m



5096-5101m



5101-5106m



5106-5111m



5111-5116m



5116-5118m



5119-5124m



5124-5129m



5129-5134m



5134-5139m



5139-5144m



5144-5148m



5148-5153m



5153-5158m



5158-5163m



5163-5167m



5183-5188m



5188-5193m



5193-5198m



5198-5199m



5201-5206m



5206-5211m



5211-5216m



5216-5219m



5223-5228m



5228-5233m



5233-5238m



5238-5243m



5243-5248m



5249-5254m



5254-5259m



5259-5264m



5264-5268m



5269-5274m



5274-5279m



5279-5284m



5284-5289m



5289-5300m

Palynologiske preparater i Sjøkeldirektoratet

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4747.0 [m]	C	STRAT
4754.0 [m]	C	STRAT
4764.0 [m]	C	STRAT
4773.0 [m]	C	STRAT
4781.0 [m]	C	STRAT
4790.0 [m]	C	STRAT
4798.5 [m]	C	STRAT
4805.5 [m]	C	STRAT
4813.1 [m]	C	STRAT
4824.5 [m]	C	STRAT
4833.0 [m]	C	STRAT
4842.0 [m]	C	STRAT
4852.0 [m]	C	STRAT
4869.0 [m]	C	STRAT
4878.0 [m]	C	STRAT
4886.0 [m]	C	STRAT



4895.8	[m]	C	STRAT
4902.0	[m]	DC	STRAT
4908.0	[m]	DC	STRAT
4909.0	[m]	C	STRAT
4920.0	[m]	C	STRAT
4925.0	[m]	C	STRAT
4932.0	[m]	C	STRAT
4943.0	[m]	C	STRAT
4952.0	[m]	C	STRAT
4977.0	[m]	C	STRAT
4985.0	[m]	C	STRAT
4994.0	[m]	C	STRAT
5002.0	[m]	C	STRAT
5015.0	[m]	C	STRAT
5025.0	[m]	C	STRAT
5033.0	[m]	C	STRAT
5044.0	[m]	C	STRAT
5053.0	[m]	C	STRAT
5062.5	[m]	C	STRAT
5071.0	[m]	C	STRAT
5081.0	[m]	C	STRAT
5089.0	[m]	C	STRAT
5098.0	[m]	C	STRAT
5106.0	[m]	C	STRAT
5118.0	[m]	C	STRAT
5121.0	[m]	C	STRAT
5130.3	[m]	C	STRAT
5138.5	[m]	C	STRAT
5148.1	[m]	C	STRAT
5154.0	[m]	C	STRAT
5164.0	[m]	C	STRAT
5184.0	[m]	C	STRAT
5191.0	[m]	C	STRAT
5198.0	[m]	C	STRAT
5213.0	[m]	C	STRAT
5223.0	[m]	C	STRAT
5231.0	[m]	C	STRAT
5238.0	[m]	C	STRAT
5249.0	[m]	C	STRAT
5255.0	[m]	C	STRAT



5265.0	[m]	C	STRAT
5278.0	[m]	C	STRAT
5288.0	[m]	C	STRAT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
302	NORDLAND GP
302	NAUST FM
1533	KAI FM
1944	HORDALAND GP
1944	BRYGGE FM
2386	ROGALAND GP
2386	TARE FM
2438	TANG FM
2503	SHETLAND GP
2503	SPRINGAR FM
2672	NISE FM
2848	KVITNOS FM
3415	CROMER KNOLL GP
3415	LYSING FM
3442	LANGE FM
4352	LYR FM
4371	VIKING GP
4371	SPEKK FM
4381	MELKE FM
4417	FANGST GP
4417	GARN FM
4556	NOT FM
4601	ILE FM
4708	BÅT GP
4708	ROR FM
4817	TOFTE FM
4860	ROR FM
4910	TILJE FM
5188	ÅRE FM

Geokjemisk informasjon





Dokument navn	Dokument format	Dokument størrelse [KB]
2444 1	pdf	0.70
2444 2	pdf	1.96
2444 3	pdf	0.50

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2444 6406 2 1 COMPLETION REPORT AND LOG	pdf	42.46

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DAC DLL MLL GR	4700	5095
DAC ZDL CN DSL	4405	4734
DLL MLL CN GR	4405	4752
DPIL MAC DSL	4683	5293
DPIL ZDL DAC CN GR	2566	4421
DPIL ZDL DAC GR	1226	2562
FMT QDYNE GR	3504	4430
FMT QDYNE GR	4435	5294
MWD - DIR	303	389
MWD - GR RES DIR	389	5142
RCI GR	4736	5294
RCOR GR	2848	4390
VSP	303	5295
ZDL CN DSL	5097	5295
ZDL CN FMT GR	4736	5294

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	387.0	36	390.0	0.00	LOT
INTERM.	18 5/8	1224.0	20	1226.0	1.70	LOT
INTERM.	13 3/8	2564.0	17 1/2	2568.0	1.86	LOT





INTERM.	9 5/8	4404.0	12 1/4	4406.0	2.00	LOT
LINER	7	5292.0	8 1/2	5292.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
394	1.20	12.0		WATER BASED	
405	1.04			WATER BASED	
937	1.06			WATER BASED	
1217	1.06			WATER BASED	
1232	1.06			WATER BASED	
1495	1.30	16.0		DUMMY	
2635	1.60	38.0		DUMMY	
2785	1.60	40.0		DUMMY	
3040	1.62	33.0		DUMMY	
3126	1.62	34.0		DUMMY	
3155	1.64	33.0		DUMMY	
3485	1.64	30.0		DUMMY	
3493	1.64	30.0		DUMMY	
3498	1.64	28.0		DUMMY	
3630	1.64	31.0		DUMMY	
3690	1.64	33.0		DUMMY	
3753	1.64	43.0		DUMMY	
3873	1.64	35.0		DUMMY	
3993	1.64	30.0		DUMMY	
4166	1.64	31.0		DUMMY	
4305	1.68	32.0		DUMMY	
4315	1.68	31.0		DUMMY	
4353	1.68	32.0		DUMMY	
4384	1.71	32.0		DUMMY	
4419	1.72	33.0		DUMMY	
4520	1.72	24.0		DUMMY	
4631	1.35	26.0		DUMMY	
4703	1.35	27.0		DUMMY	
4749	1.36	25.0		DUMMY	
4750	1.35	28.0		DUMMY	
4825	1.35	29.0		DUMMY	
4825	1.35	25.0		DUMMY	



4825	1.35	22.0		DUMMY	
4839	1.35	22.0		DUMMY	
4897	1.35	18.0		DUMMY	
4897	1.35	19.0		DUMMY	
4909	1.35	19.0		DUMMY	
4929	1.35	15.0		DUMMY	
4963	1.35	16.0		DUMMY	
4996	1.35	19.0		DUMMY	
5022	1.35	19.0		DUMMY	
5050	1.35	18.0		DUMMY	
5068	1.35	20.0		DUMMY	
5091	1.35	20.0		DUMMY	
5135	1.35	25.0		DUMMY	
5149	1.35	22.0		DUMMY	
5149	1.35	18.0		DUMMY	
5183	1.35	20.0		DUMMY	
5201	1.35	19.0		DUMMY	
5292	1.35	20.0		DUMMY	

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]
2444_Formation_pressure_(Formasjonstrykk)	pdf	0.29

