General information

Wellbore name	6406/2-1
Type	EXPLORATION
Purpose	WILDCAT
Status	SUSPENDED
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Field	KRISTIN
Discovery	6406/2-1 Lavrans
Well name	6406/2-1
Seismic location	SG 9312 3D- ROW 1396 & COLUMN 1975
Production licence	199
Drilling operator	Saga Petroleum ASA
Drill permit	798-L
Drilling facility	ROSS RIG (2)
Drilling days	162
Entered date	30.10.1994
Completed date	09.04.1995
Release date	09.04.1997
Publication date	29.05.2002
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	FANGST GP
2nd level with HC, age	EARLY JURASSIC
2nd level with HC, formation	BÅT GP
Kelly bushing elevation [m]	24.0
Water depth [m]	278.0
Total depth (MD) [m RKB]	5292.0
Final vertical depth (TVD) [m RKB]	5283.0
Maximum inclination [°]	15.3
Bottom hole temperature [°C]	172
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50
NS degrees	64° 52' 15.19'' N
EW degrees	6° 36' 21.35'' E

NS UTM [m]	7196390.67
EW UTM [m]	386574.36
UTM zone	32
NPDID wellbore	2444

Wellbore history

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.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1240.00	4908.00

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
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]

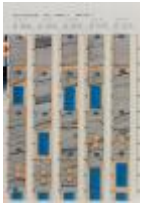
Total core sample length [m]	616.8
Cores available for sampling?	YES

Core photos


4422-4427m


4427-4430m


4603-4608m


4608-4613m


4613-4618m

4618-4623m 4623-4628m 4628-4630m 4630-4635m 4635-4640m



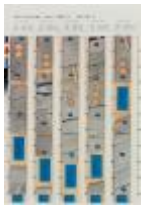


4640-4645m 4645-4650m 4650-4655m 4655-4660m 4660-4664m





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

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
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1270.0	[m]	DC	STRAT
1290.0	[m]	DC	STRAT
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1330.0	[m]	DC	STRAT
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1370.0	[m]	DC	STRAT
1390.0	[m]	DC	STRAT
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1590.0	[m]	DC	STRAT
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1650.0	[m]	DC	STRAT
1670.0	[m]	DC	STRAT
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4886.0	[m]	C	STRAT
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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

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
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

Geochemical information

Document name	Document format	Document size [MB]
2444_1	pdf	0.70
2444_2	pdf	1.96

2444_3	pdf	0.50

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
2444_6406_2_1_COMPLETION_REPORT_AND_LOG	pdf	42.46

Logs

Log type	Log top depth [m]	Log bottom depth [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

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
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

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
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	

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
2444_Formation_pressure_(Formasjonstrykk)	pdf	0.29