General information

Wellbore name	6506/12-12 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	RE-CLASS TO DEV
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Field	ÅSGARD
Discovery	6506/12-12 S (Smørbukk Nordøst)
Well name	6506/12-12
Seismic location	Inline 4240. Crossline 12687-NH0609
Production licence	094
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1271-L
Drilling facility	TRANSOCEAN LEADER
Drilling days	27
Entered date	06.08.2009
Completed date	01.09.2009
Release date	01.09.2011
Publication date	02.09.2011
Purpose - planned	APPRAISAL
Reclassified to wellbore	6506/12-NB-1 H
Reentry	NO
Content	OIL/GAS
Discovery wellbore	NO
1st level with HC, age	CRETACEOUS
1st level with HC, formation	CROMER KNOLL GP
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	FANGST GP
3rd level with HC, age	EARLY JURASSIC
3rd level with HC, formation	BÅT GP
Kelly bushing elevation [m]	23.5
Water depth [m]	301.0
Total depth (MD) [m RKB]	5481.0
Final vertical depth (TVD) [m RKB]	4888.0
Maximum inclination [°]	43.4
Bottom hole temperature [°C]	169
Oldest penetrated age	EARLY JURASSIC

Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50
NS degrees	65° 13' 1.19'' N
EW degrees	6° 54' 29.77'' E
NS UTM [m]	7234441.75
EW UTM [m]	402170.96
UTM zone	32
NPDID wellbore	6208

Wellbore history

General

Well 6506/12-12 A was drilled as a geological sidetrack to well 6506/12-12 S on the northern part of the Smørbukk structure on the Halten Terrace in the Norwegian Sea. The objective of the sidetrack was to take a core in the Early-Middle Jurassic reservoir, acquire further data for decision on development, and to be a producer from the Jurassic reservoir zones in the Smørbukk NE KG segment.

Operations and results

The geological side track well 6506/12-12 A was drilled with the semi-submersible installation Transocean Leader. It was kicked off from the 9 5/8" casing shoe at 4788 m in well 6506/12-12 S on 6 August 2009 and drilled to TD at 5481 m (4888 m TVD) in the Early Jurassic Åre Formation. The well was drilled with XP-07 oil based mud from kick-off to TD.

From logs and samples hydrocarbons were seen in the Fangst and Båt Groups, similar as in the main well 6506/12-12 S. No fluid contacts could be established.

One core was successfully retrieved in the reservoir section of the 6506/12-12 A well. The cored interval included the Lower Ror SST Unit and Tilje 6, from 5150 to 5200 m. Pressure points were taken with the MDT tool on wire line and fluid samples were taken at 4913.5 m in the Ile 3 Formation, at 5161.8 m in the Lower Ror Formation sandstone, and at 5257.16 m in the Tilje 4 Formation unit.

The well was completed on 1 September 2009 as an oil and gas appraisal well and reclassified to development well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
4800.00	5480.00

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	5150.0	5200.0	[m]

Total core sample length [m]	50.0
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
325	NORDLAND GP
325	NAUST FM
1519	KAI FM
2002	HORDALAND GP
2002	BRYGGE FM
2367	ROGALAND GP
2367	TARE FM
2454	TANG FM
2541	SHETLAND GP
2541	SPRINGAR FM
2804	NISE FM
3077	KVITNOS FM
3534	CROMER KNOLL GP
3534	LYSING FM
3580	LANGE FM
4088	NO FORMAL NAME
4172	LANGE FM
4393	LYR FM
4408	VIKING GP
4408	SPEKK FM
4457	MELKE FM
4769	FANGST GP
4769	GARN FM
4828	NOT FM
4870	ILE FM

4990	BÅT GP
4990	ROR FM
5072	TOFTE FM
5145	ROR FM
5181	TILJE FM
5430	ÅRE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT GPIT PPC MSIP	4774	5453
FPIT	4774	5400
GR MDT	4319	5297
GR MDT	4809	5414
GR MDT	5161	5235
LDS APS ECS HNGS	4774	5474
MWD - ECO	4773	5470
MWD - TELESCOPE	129	192
PIPECUTTER	5293	5293

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
LINER	7	5289.0	8 1/2	5289.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
4814	1.35	20.0		XP-07 - #14	
4988	1.35	20.0		XP-07 - #14	
5102	1.35	18.0		XP-07 - #14	
5200	1.35	20.0		XP-07 - #14	
5264	1.36	20.0		XP-07 - #14	
5415	1.36	20.0		XP-07 - #14	
5481	1.33	18.0		XP-07 - #14	
5481	1.35	21.0		XP-07 - #14	

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]
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