



Generell informasjon

Brønnbane navn	6506/12-12 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	ÅSGARD
Funn	6506/12-12 S (Smørbukk Nordøst)
Brønn navn	6506/12-12
Seismisk lokalisering	inline 4240 & crossline 2687- NH0609
Utvinningstillatelse	094
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1256-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	67
Borestart	01.06.2009
Boreslutt	06.08.2009
Frigitt dato	06.08.2011
Publiseringsdato	06.08.2011
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LANGE FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	FANGST GP
3. nivå med hydrokarboner, alder	EARLY JURASSIC
3. nivå med hydrokarboner, formasjon	BÅT GP
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	301.0
Totalt målt dybde (MD) [m RKB]	5508.0
Totalt vertikalt dybde (TVD) [m RKB]	4904.0



Maks inklinasjon [°]	49.45
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	65° 13' 1.19" N
ØV grader	6° 54' 29.77" E
NS UTM [m]	7234441.75
ØV UTM [m]	402170.96
UTM sone	32
NPDID for brønnbanen	6144

Brønnhistorie



General

Well 6506/12-12 S was drilled on the northern part of the Smørifik structure on the Halten Terrace in the Norwegian Sea. The primary objective was to prove hydrocarbon saturation in the main target reservoir zones in a down flank position in the Smørifik NE KG segment. Secondary objectives were to obtain pressure and stratigraphic control for placing a sidetrack (6506/12-12 A) for coring and field development (producer well); and to acquire data on the Cretaceous Grizzly prospect.

Operations and results

A 9 7/8" pilot hole, 6506/12-U-15, was drilled to 854 m prior to the main hole.

Well 6506/12-12 S was spudded with the semi-submersible installation Transocean Leader on 1 June 2009 and drilled to TD at 5508 m, 12 m into the Early Jurassic Åre Formation. No shallow gas was observed by the ROV or on the MWD logs while drilling the 9 7/8" shallow gas pilot hole or the 26" holes. A kick was taken in the top of the Garn Formation, just below the 9 5/8" casing shoe. The well was drilled with Seawater and bentonite down to 1061 m, with Performadril water based mud from 1061 m to 2244 m, and with XP-07 oil based mud from 2244 m to TD.

The 6506/12-12 S well penetrated rocks of Quaternary, Tertiary, Cretaceous and Jurassic age. The well penetrated the secondary targets in the Cretaceous Lysing and Lange Formations (Grizzly prospect) at 3534 m and 4088 m, respectively. Indications of hydrocarbons were observed in the core and cuttings in the Intra Lange Sandstone, but the reservoir quality did not look too promising. The top of the Garn Formation was encountered at 4769.50 m, which is 19 m deeper than prognosis. The main reservoir target, the Lower Ror sandstone unit was encountered at 5176 m, which is 7 m shallower than prognosis. The well indicated hydrocarbons in the Garn, Ile, Tofte, Lower Ror sandstone unit and the Upper/Middle Tilje Formation, but water in the Tilje 3 and Tilje 1 reservoir zones.

A core was cut in the Lange Formation sandstone unit from 4132 - 4168 m. Pressure points were recorded with the LWD stethoscope tool, but due to pressure depletion from the Åsgard production and/or few good pressure points no fluid contacts could be established in any of the reservoir zones. No wire line fluid samples were taken.

Well bore 6506/12-12 S was permanently plugged back to the 9 5/8" casing at 4754 m and prepared for sidetracking on 6 August 2009. It has been re-classified as a wildcat.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1060.00	5508.00
Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 20.5.2024 - 12:40

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4132.0	4167.0	[m]

Total kjerneprøve lengde [m]	35.0
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
325	NORDLAND GP
325	NAUST FM
1519	KAI FM
2002	HORDALAND GP
2002	BRYGGE FM
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
4868	ILE FM
4991	BÅT GP
4991	ROR FM
5082	TOFTE FM
5167	ROR FM



5218	TILJE FM
5496	ÅRE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
GR DSI	4774	5495
MWD - ARC8	2244	4774
MWD - ARC9	380	2240
MWD - ECO	4774	4778
MWD - ECO STETH	4787	5497
MWD - TELESCOPE	129	192
PEX150 MSIP PPC AIT	2243	4758

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	385.0	36	385.0	0.00	LOT
SURF.COND.	20	1050.0	26	1061.0	1.58	LOT
INTERM.	13 3/8	2243.0	17 1/2	2244.0	1.78	LOT
LINER	9 5/8	4774.0	12 1/4	4774.0	1.40	LOT
OPEN HOLE		5508.0	8 1/2	5508.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
339	1.04	28.0		Spud Mud	
378	1.30	15.0		Spud Mud	
392	1.30	15.0		Ultradrill	
1000	1.04	11.0		Spud Mud	
1058	1.25	33.0		Performadril	
1476	1.37	36.0		Performadril	
2205	1.45	37.0		Performadril	
2252	1.45	38.0		Performadril	
2795	1.73	38.0		XP-07 - #14	
4132	1.73	36.0		XP-07 - #14	



4613	1.73	34.0		XP-07 - #14	
4785	1.22	20.0		XP-07 - #14	
4785	1.78	32.0		XP-07 - #14	
4785	1.75	29.0		XP-07 - #14	
4785	1.73	31.0		XP-07 - #14	
4802	1.35	18.0		XP-07 - #14	
4854	1.65	27.0		XP-07 - #14	
5310	1.39	23.0		XP-07 - #14	
5490	1.36	19.0		XP-07 - #14	
5508	1.35	19.0		XP-07 - #14	

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]
6144_Formation_pressure_(Formasjonstrykk)	pdf	0.29

