Generell informasjon

Brønnbane navn	6407/8-6 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	BAUGE
Funn	6407/8-6 Bauge
Brønn navn	6407/8-6
Seismisk lokalisering	3D survey ST 10021-inline 1344 & xline 2099
Utvinningstillatelse	348 B
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1480-L
Boreinnretning	SONGA TRYM
Boredager	51
Borestart	20.10.2013
Boreslutt	09.12.2013
Frigitt dato	09.12.2015
Publiseringsdato	09.12.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	TILJE FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	ILE FM
3. nivå med hydrokarboner, alder	MIDDLE JURASSIC
3. nivå med hydrokarboner, formasjon	MELKE FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	282.0
Totalt målt dybde (MD) [m RKB]	3537.0
Totalt vertikalt dybde (TVD) [m RKB]	3288.0

Maks inklinasjon [°]	43.5
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	64° 21' 12.7'' N
ØV grader	7° 27' 44.48'' E
NS UTM [m]	7137484.98
ØV UTM [m]	425743.95
UTM sone	32
NPDID for brønnbanen	7266

Brønnhistorie

General

Well 6407/8-6 A is a geological sidetrack to 6407/8-6. Both were drilled to test the Snilehorn Prospect on the Halten Terrace in the Norwegian Sea. The primary well had discovered oil in the Ile, Tilje, and Åre formations without seeing any oil/water contacts. The primary objective of 6407/8-6 A was to test the Jurassic sequence in a down-faulted segment east of the primary well bore.

Operations and results

Appraisal well 6407/8-6 A drilled with the semi-submersible installation Songa Trym. It was kicked off on 20 October 2013, immediately below the 9 5/8” shoe; the kick off point was confirmed at 1996 m. The sidetrack was drilled to 3537 m (3288 m TVD) in Late Triassic sediments belonging to the Åre Formation. Operations proceeded without significant problems. The well was drilled with XP-07 oil based mud from kick-off to TD.

Top Garn Formation was penetrated at 2884 m (2722 m TVD), top Ile Formation at 3023 m (2824 m TVD), and top Tilje Formation at 3224 m (2985 m TVD). The Garn and Ile formations were oil bearing all through (down-to contacts), while the Tilje Formation was oil bearing with a true oil/water contact at 3284 m (3040 m TVD). Oil shows were described down to 3300 m. Based on logs and shows descriptions there was oil also in a 3 m sandstone in the Not Formation, from 2962 to 2965 m.

Two cores were taken in the 6407/8-6 A well covering respectively 27 meters in the Garn and Not formations (2903 to 2930 m) and 13 meters in Ile Formation (3029 to 3041 m). No fluid samples were taken.

The well was permanently abandoned on 9 December 2013 as an oil appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2000.00	3537.00

Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2903.0	2930.4	[m]
2	3029.0	3040.9	[m]

Total kjerneprøve lengde [m]	39.2
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2500.0	[m]	DC	BIOSTRAT
2510.0	[m]	DC	BIOSTR
2520.0	[m]	DC	BIOSTR
2530.0	[m]	DC	BIOSTR
2540.0	[m]	DC	BIOSTR
2550.0	[m]	DC	BIOSTR
2560.0	[m]	DC	BIOSTR
2570.0	[m]	DC	BIOSTR
2580.0	[m]	DC	BIOSTR
2590.0	[m]	DC	BIOSTR
2600.0	[m]	DC	BIOSTR
2610.0	[m]	DC	BIOSTR
2620.0	[m]	DC	BIOSTR
2630.0	[m]	DC	BIOSTR
2640.0	[m]	DC	BIOSTR
2650.0	[m]	DC	BIOSTR
2660.0	[m]	DC	BIOSTR
2670.0	[m]	DC	BIOSTR
2680.0	[m]	DC	BIOSTR
2690.0	[m]	DC	BIOSTR
2700.0	[m]	DC	BIOSTR
2709.0	[m]	DC	BIOSTR
2718.0	[m]	DC	BIOSTR

2727.0	[m]	DC	BIOSTR
2736.0	[m]	DC	BIOSTR
2745.0	[m]	DC	BIOSTR
2754.0	[m]	DC	BIOSTR
2763.0	[m]	DC	BIOSTR
2772.0	[m]	DC	BIOSTR
2781.0	[m]	DC	BIOSTR
2790.0	[m]	DC	BIOSTR
2799.0	[m]	DC	BIOSTR
2808.0	[m]	DC	BIOSTR
2817.0	[m]	DC	BIOSTR
2826.0	[m]	DC	BIOSTR
2835.0	[m]	DC	BIOSTR
2844.0	[m]	DC	BIOSTR
2853.0	[m]	DC	BIOSTR
2862.0	[m]	DC	BIOSTR
2871.0	[m]	DC	BIOSTR
2877.0	[m]	DC	BIOSTR
2883.0	[m]	DC	BIOSTR
2889.0	[m]	DC	BIOSTR
2895.0	[m]	DC	BIOSTR
2901.0	[m]	DC	BIOSTR
2903.2	[m]	C	BIOSTR
2907.0	[m]	DC	BIOSTR
2908.6	[m]	C	BIOSTR
2911.5	[m]	C	BIOSTR
2914.8	[m]	C	BIOSTR
2917.5	[m]	C	BIOSTR
2918.9	[m]	C	BIOSTR
2923.9	[m]	C	BIOSTR
2926.6	[m]	C	BIOSTR
2928.8	[m]	C	BIOSTR
2931.3	[m]	C	BIOSTR
2933.4	[m]	C	BIOSTR
2936.2	[m]	C	BIOSTR
2940.8	[m]	C	BIOSTR
2949.0	[m]	DC	BIOSTR
2958.0	[m]	DC	BIOSTR
2967.0	[m]	DC	BIOSTR
2979.0	[m]	DC	BIOSTR

2988.0	[m]	DC	BIOSTR
3003.0	[m]	DC	BIOSTR
3009.0	[m]	DC	BIOSTR
3021.0	[m]	DC	BIOSTR
3030.0	[m]	DC	BIOSTR
3036.0	[m]	DC	BIOSTR
3045.0	[m]	DC	BIOSTR
3054.0	[m]	DC	BIOSTR
3063.0	[m]	DC	BIOSTR
3072.0	[m]	DC	BIOSTR
3081.0	[m]	DC	BIOSTR
3090.0	[m]	DC	BIOSTR
3099.0	[m]	DC	BIOSTR
3108.0	[m]	DC	BIOSTR
3117.0	[m]	DC	BIOSTR
3126.0	[m]	DC	BIOSTR
3135.0	[m]	DC	BIOSTR
3144.0	[m]	DC	BIOSTR
3153.0	[m]	DC	BIOSTR
3162.0	[m]	DC	BIOSTR
3171.0	[m]	DC	BIOSTR
3180.0	[m]	DC	BIOSTR
3189.0	[m]	DC	BIOSTR
3198.0	[m]	DC	BIOSTR
3207.0	[m]	DC	BIOSTR
3216.0	[m]	DC	BIOSTR
3225.0	[m]	DC	BIOSTR
3234.0	[m]	DC	BIOSTR
3240.0	[m]	DC	BIOSTR
3252.0	[m]	DC	BIOSTR
3261.0	[m]	DC	BIOSTR
3270.0	[m]	DC	BIOSTR
3279.0	[m]	DC	BIOSTR
3288.0	[m]	DC	BIOSTR
3297.0	[m]	DC	BIOSTR
3306.0	[m]	DC	BIOSTR
3315.0	[m]	DC	BIOSTR
3324.0	[m]	DC	BIOSTR
3333.0	[m]	DC	BIOSTR
3342.0	[m]	DC	BIOSTR

3351.0	[m]	DC	BIOSTR
3360.0	[m]	DC	BIOSTR
3369.0	[m]	DC	BIOSTR
3378.0	[m]	DC	BIOSTR
3387.0	[m]	DC	BIOSTR
3396.0	[m]	DC	BIOSTR
3405.0	[m]	DC	BIOSTR
3414.0	[m]	DC	BIOSTR
3423.0	[m]	DC	BIOSTR
3432.0	[m]	DC	BIOSTR
3441.0	[m]	DC	BIOSTR
3450.0	[m]	DC	BIOSTR
3459.0	[m]	DC	BIOSTR
3468.0	[m]	DC	BIOSTR
3477.0	[m]	DC	BIOSTR
3486.0	[m]	DC	BIOSTR
3495.0	[m]	DC	BIOSTR
3504.0	[m]	DC	BIOSTR
3513.0	[m]	DC	BIOSTR
3522.0	[m]	DC	BIOSTR
3531.0	[m]	DC	BIOSTR
3537.0	[m]	DC	BIOSTR

Litostratigrafi

Top depth [mMD RKB]	Lithostrat. unit
307	NORDLAND GP
441	NAUST FM
971	KAI FM
1022	HORDALAND GP
1022	BRYGGE FM
1677	ROGALAND GP
1677	TARE FM
1805	TANG FM
1950	SHETLAND GP
1950	SPRINGAR FM
1996	NISE FM
2164	KVITNOS FM
2480	CROMER KNOLL GP

2480	LANGE FM
2820	VIKING GP
2820	SPEKK FM
2828	MELKE FM
2884	FANGST GP
2884	GARN FM
2912	NOT FM
3023	ILE FM
3124	BÅT GP
3124	ROR FM
3138	TOFTE FM
3172	ROR FM
3224	TILJE FM
3351	ÅRE FM

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
OPEN HOLE		2000.0	8 1/2	3537.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1874	1.42	23.0		XP-07 - Yellow	
1913	1.41	20.0		XP-07 - Yellow	
3029	1.41	21.0		XP-07 - Yellow	
3041	1.41	23.0		XP-07 - Yellow	
3537	1.42	22.0		XP-07 - Yellow	
3537	1.41	21.0		XP-07 - Yellow	