



Generell informasjon

Brønnbane navn	6407/4-2
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6407/4-1 (Spinell Sør)
Brønn navn	6407/4-2
Seismisk lokalisering	ST0809 inline 3172 crossline 3761
Utvinningstillatelse	429
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1344-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	58
Borestart	14.02.2011
Boreslutt	13.04.2011
Frigitt dato	14.11.2012
Publiseringsdato	14.11.2012
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	221.0
Totalt målt dybde (MD) [m RKB]	4230.0
Totalt vertikalt dybde (TVD) [m RKB]	4229.0
Maks inklinasjon [°]	3.1
Temperatur ved bunn av brønnbanen [°C]	159
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	ILE FM
Geodetisk datum	ED50
NS grader	64° 35' 36.71" N
ØV grader	7° 10' 35.49" E
NS UTM [m]	7164588.62
ØV UTM [m]	412711.45



UTM sone	32
NPDID for brønnbanen	6557

Brønnhistorie

General

Well 6407/4-2 was drilled on the Spinell South prospect in the Gimsan Basin on the Haltenbanken in the Norwegian Sea. The well was drilled down-dip of the discovery well 6407/4-1. The main well objectives were to appraise the 6407/4-1 discovery and test the produceability of the Garn Formation, to investigate for hydrocarbons in formations underlying the Garn Formation and to provide good quality wire line logs from the well. Planned TD was 4100 m TVD MSL (4123.5 m TVD RKB) or into the Early Jurassic.

Operations and results

Appraisal well 6407/4-2 was spudded with the semi-submersible installation Transocean Leader on 14 February 2011 and drilled to TD at 4230 m in the Middle Jurassic Ile Formation. A shallow gas warning Class 1 was given for three levels down to 800 m. A 9 7/8" pilot hole was drilled down to 1020 m, no shallow gas was observed. No significant problem was encountered in the operations. The well was drilled with sea water and bentonite sweeps down to 1062 m, with Performadril WBM from 1062 m to 1930 m, and with XP-07 OBM from 1930 m to TD.

The Garn Formation was encountered at 4007 m, which was 13.6 m deeper than prognosed. The Ile Formation was encountered at 4143 m. The reservoir proved to be water bearing and based on results from MDT and core analysis also proved to have low produceability. Shows were recorded on the core from 4014 m to 4051.4 m. They were described as: moderate odour, patchy to uniform moderate to bright white to bluish and yellowish direct fluorescence, moderate to slow streaming cut and dull yellowish residual fluorescence.

A 54 m core was cut in the Garn Formation sandstone, with 85.2% recovery. MDT water samples were taken at 4013.5 m in the Garn Formation.

The well was permanently abandoned on 13 April 2011 as a well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1070.00	4231.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----

Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4013.0	4066.6	[m]

Total kjerneprøve lengde [m]	53.6
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
245	NORDLAND GP
245	NAUST FM
1259	KAI FM
1598	HORDALAND GP
1598	BRYGGE FM
2092	ROGALAND GP
2092	TARE FM
2170	TANG FM
2264	SHETLAND GP
2264	SPRINGAR FM
2358	NISE FM
2607	KVITNOS FM
3041	CROMER KNOLL GP
3041	LANGE FM
3769	LYR FM
3795	VIKING GP
3795	SPEKK FM
3874	MELKE FM
4008	FANGST GP
4008	GARN FM
4093	NOT FM
4144	ILE FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
6557_01_6407_4_2_gch_transfer_1	txt	0.00





6557_02_6407_4_2_gch_results_1	txt	0.04
6557_GCH_1	pdf	0.15

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	306.0	36	309.0	0.00	LOT
SURF.COND.	20	1054.0	26	1062.0	1.66	LOT
INTERM.	14	1926.0	17 1/2	1930.0	1.83	LOT
INTERM.	9 5/8	3931.0	12 1/4	3932.0	2.06	LOT
OPEN HOLE		4230.0	8 1/2	4230.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
1062	1.30	23.0		Performadril	
1438	1.33	31.0		Performadril	
1642	1.46	36.0		Performadril	
1930	1.51	34.0		Performadril	
1930	1.55	31.0		Performadril	
1930	1.50	36.0		Performadril	
1936	1.62	21.0		OBM-Low ECD	
2581	1.67	38.0		OBM-Low ECD	
3202	1.71	37.0		OBM-Low ECD	
3932	1.50	21.0		OBM-Low ECD	
3932	1.35	16.0		OBM-Low ECD	
3932	1.72	37.0		OBM-Low ECD	
3932	1.50	21.0		OBM-Low ECD	
3932	1.72	36.0		OBM-Low ECD	
4013	1.35	17.0		OBM-Low ECD	
4230	1.35	18.0		OBM-Low ECD	

