



Generell informasjon

Brønnbane navn	6507/8-8
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6507/8-8
Seismisk lokalisering	ST08M07 inline 10376 & xline 10706
Utvinningstillatelse	434
Boreoperatør	Nexen Exploration Norge AS
Boretillatelse	1338-L
Boreinnretning	SONGA DELTA
Boredager	54
Borestart	26.02.2011
Boreslutt	20.04.2011
Frigitt dato	14.11.2012
Publiseringsdato	14.11.2012
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	329.0
Totalt målt dybde (MD) [m RKB]	2554.0
Totalt vertikalt dybde (TVD) [m RKB]	2554.0
Maks inklinasjon [°]	2.7
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	65° 16' 52.5" N
ØV grader	7° 25' 27.66" E
NS UTM [m]	7240899.97
ØV UTM [m]	426482.01
UTM sone	32
NPDID for brønnbanen	6538



Brønnhistorie

General

Well 6507/8-8 was drilled on the Ronaldo prospect ca 5 km south-east of the Heidrun Field in the Norwegian Sea. Ronaldo was mapped as an eroded, elongated horst block with reservoir in the Early Jurassic. The primary objective was to test the hydrocarbon potential in the Early Jurassic Tilje and Åre Formations.

Operations and results

Wildcat well 6507/8-8 was drilled with the semi-submersible installation Songa Delta. Due to boulders and shallow gas the hole was spudded twice before 6507/8-8 was successfully spudded in the third attempt on 26 February 2011 and drilled to TD at 2554 m in the Early Jurassic Åre Formation, coal unit. No significant problem was encountered in the operations. The well was drilled with Seawater down to 540 m, with KCl/polymer mud from 540 m to 1024 m, and with Aqua-Drill mud from 1024 m to TD.

The stratigraphy, structure, reservoir thickness and quality were all found to be in good agreement with pre-drill predictions. The Late Cretaceous Kvitnos Formation rested directly on eroded Ror Formation at 2125 m. All reservoirs were water bearing. The only oil show in the well was recorded in a thin sandstone at 2111 m towards base Cretaceous in the Kvitnos Formation. Background gas levels were relatively high throughout the Cretaceous and Jurassic stratigraphic intervals. This gas had an abundance of C2 - C5 components.

Due to dry hole no cores were cut, no wire line logs were run, and no wire line fluid samples were taken.

The well was permanently abandoned on 20 April 2011 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
420.00	2554.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet



Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1930.0	[m]	DC	PETROSTR
1940.0	[m]	DC	PETROS
1950.0	[m]	DC	PETROS
1960.0	[m]	DC	PETROS
1970.0	[m]	DC	PETROS
1980.0	[m]	DC	PETROS
1990.0	[m]	DC	PETROS
2003.0	[m]	DC	PETROS
2012.0	[m]	DC	PETROS
2024.0	[m]	DC	PETROS
2033.0	[m]	DC	PETROS
2039.0	[m]	DC	PETROS

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
358	NORDLAND GP
358	NAUST FM
1428	KAI FM
1752	HORDALAND GP
1752	BRYGGE FM
1934	ROGALAND GP
1934	TARE FM
1982	TANG FM
2010	SHETLAND GP
2010	SPRINGAR FM
2040	NISE FM
2096	KVITNOS FM
2125	BÅT GP
2125	ROR FM
2151	TILJE FM
2327	ÅRE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - DIR	358	414



LWD - DIR ECD VSS	415	553
LWD - GR RES ECD F-OFF VSS DIR	358	553
LWD - GR RES ECD F-OFF VSS DIR	553	1062
LWD - RES ECD GR DIR AC	1062	2100
LWD - RES ECD GR DIR DEN NEU AC	2100	2554

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	413.0	36	414.5	0.00	LOT
SURF.COND.	20	547.0	26	553.0	1.28	LOT
PILOT HOLE		553.0	9 5/8	553.0	0.00	LOT
INTERM.	16	1032.0	20	1062.0	0.00	LOT
INTERM.	13 3/8	1940.0	17	1946.0	1.65	LOT
INTERM.	9 5/8	2097.0	12 1/4	2100.0	1.60	LOT
OPEN HOLE		2554.0	8 1/2	2554.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
553	1.49	35.0		Kill mud	
670	1.14	15.0		KCL/Polymer	
1062	1.15	18.0		KCL/Polymer	