



Generell informasjon

Brønnbane navn	24/12-6 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	24/12-6
Seismisk lokalisering	SurveyWGS2413R06 PSDM inline 2513 & crossline 1519
Utvinningstillatelse	341
Boreoperatør	Det norske oljeselskap ASA
Boretillatelse	1297-L
Boreinnretning	SONGA DELTA
Boredager	127
Borestart	16.08.2010
Boreslutt	20.12.2010
Frigitt dato	01.04.2012
Publiseringstdato	01.04.2012
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	116.0
Totalt målt dybde (MD) [m RKB]	5207.0
Totalt vertikalt dybde (TVD) [m RKB]	5076.0
Maks inklinasjon [°]	21.7
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	SLEIPNER FM
Geodetisk datum	ED50
NS grader	59° 3' 54.14" N
ØV grader	1° 45' 15.24" E
NS UTM [m]	6548111.45
ØV UTM [m]	428561.94
UTM sone	31
NPID for brønnbanen	6328



Brønnhistorie

General

Well 24/12-6 S was drilled on the Stirby prospect in the Vana Sub-basin of the Viking Graben in the North Sea. Stirby was a potential multipay structure and the main target was the Late Jurassic Intra Draupne Formation Sandstones ("Stirby Upper"). The secondary target was the Middle Jurassic Hugin/Sleipner Formation sandstones ("Stirby Deep"). Additional targets were possible in the Heather Formation with potential for reservoir sands deposited from the east as encountered in the Gudrun Field south of the Stirby location.

Operations and results

Wildcat well 24/12-6 S was spudded with the semi-submersible installation Songa Delta on 16 August 2010 and drilled to TD at 5207 m (5076 m TVD) in the Middle Jurassic Sleipner Formation. Severe hole problems with excessive cavings and tight hole was experienced in the 17 1/2" section from 1279 m to 2771 m. The reason for this was believed to be too high concentrations of KCl, drying out the claystone. Due to these problems the well was plugged back and sidetracked from 1300 m. The well was drilled with Spud mud down to 1279 m, and with KCl brine from 1279 m to 2771 m. After sidetracking the well was drilled with Carbotech oil based mud from 1300 m to 4330, and with Magmatech oil based mud from 4330 m to TD.

The Draupne Formation was encountered at from 4417 m (4286 m TVD), the Heather Formation at 4788 m (4657 m TVD), and top Vestland Group, Hugin Formation at 5029 m (4898 m TVD). Only rare traces of sand were seen at the expected primary target, the Late Jurassic Intra Draupne Sand (Stirby Upper). This part of the well contained organic rich shale with thin beds of limestone. These limestone beds correspond to the strong amplitudes which defined the main target as a basin floor fan in the prognosis. The secondary target, the Middle Jurassic Vestland Group (Stirby Deep), came in 7.8 m deeper than prognosed. An upper sandstone, probably belonging to the Hugin Formation, was described as silica cemented. Only one stable pressure point was collected here and thereby no gradient defining hydrocarbon or water was obtained. In the lower sandstone just above TD of the well another pressure point reading was obtained, 33 bar lower than the one in "Upper sandstone". Scanning evaluation with the RCI tool in the lower sandstone gave the conclusion that this sand was water filled. No oil shows were reported above BCU. Direct and cut fluorescence was observed on traces of sandstone grains/aggregates from top Hugin Formation and downwards. The fluorescence on the aggregates was however difficult to interpret due to possible interference from mineral fluorescence, oil base and rock flour.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 20 December 2010 as a dry well.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1290.00	2770.00
Borekaks tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
145	NORDLAND GP
504	UTSIRA FM
681	NO FORMAL NAME
848	HORDALAND GP
848	SKADE FM
1043	NO FORMAL NAME
1356	GRID FM
1682	NO FORMAL NAME
2162	ROGALAND GP
2162	BALDER FM
2208	SELE FM
2262	LISTA FM
2273	HEIMDAL FM
2693	VÅLE FM
2761	SHETLAND GP
2761	JORSALFARE FM
3080	KYRRE FM
3741	TRYGGVASON FM
3913	BLODØKS FM
3917	SVARTE FM
4148	CROMER KNOLL GP
4148	RØDBY FM
4222	SOLA FM
4281	ÅSGARD FM
4417	VIKING GP
4417	DRAUPNE FM
4788	HEATHER FM
5029	VESTLAND GP



Faktasider
Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 19:16

5029	HUGIN FM
5120	SLEIPNER FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CALI MRCH GR CCL MFC	100	4268
CBL MRCH GR CCL SBT MFC	3778	4263
DEN NEU MRCH JAR TTRM GR ZDL CN	4317	5204
LWD - GR REMP AC	196	2770
MWD - GR REMP AC	196	4326
MWD - GR REMP DEN NEU AC	4300	4767
MWD - GR REMP DEN NEU AC FMP	4738	5204
PRES MRCH JAR TTRM GR RCI PVT	5030	5207
RES MRCH JAR TTRM DSL HDIL MREX	4300	5187
VSP GR GEOWAVE	205	4135

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	225.0	36	229.0	0.00	LOT
SURF.COND.	20	1273.0	26	1279.0	0.00	LOT
PILOT HOLE		1279.0	9 7/8	1279.0	0.00	LOT
INTERM.	13 5/8	2812.0	17 1/2	2828.0	2.20	LOT
INTERM.	9 5/8	4321.0	12 1/4	4330.0	0.00	LOT
OPEN HOLE		5207.0	8 1/2	5207.0	1.77	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
174	1.05			SPUD MUD	
226	1.05			SPUD MUD	
990	1.05			SPUD MUD	
1120	1.05			SPUD MUD	
1223	1.36	39.0		CARBO TECH	



1279	1.45		SPUD MUD	
1445	1.45	13.0	KCL BRINE	
1720	1.25	16.0	KCL BRINE	
2500	1.39	42.0	CARBO TECH	
2653	1.32	14.0	KCL BRINE	
2711	1.32	18.0	KCL BRINE	
2746	1.39	41.0	CARBO TECH	
2828	1.39	39.0	CARBO TECH	
3051	1.60	37.0	CARBO TECH	
3800	1.60	37.0	CARBO TECH	
4150	1.60	45.0	CARBO TECH	
4276	1.65	53.0	CARBO TECH	
4276	1.65	42.0	CARBO TECH	
4330	1.65	41.0	CARBO TECH	
4772	2.00	47.0	MAGMA TECH	
5101	2.00	50.0	MAGMA TECH	
5207	2.02	51.0	MAGMA TECH	