



Generell informasjon

Brønnbane navn	1/3-12 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	1/3-12
Seismisk lokalisering	inline 9410 & crossline 19564
Utvinningstillatelse	297
Boreoperatør	BG Norge AS
Boretillatelse	1287-L
Boreinnretning	ROWAN GORILLA VI
Boredager	234
Borestart	01.12.2009
Boreslutt	22.07.2010
Frigitt dato	03.10.2011
Publiseringsdato	03.10.2011
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	48.0
Vanndybde ved midlere havflate [m]	70.4
Totalt målt dybde (MD) [m RKB]	5931.0
Totalt vertikalt dybde (TVD) [m RKB]	5868.0
Maks inklinasjon [°]	18
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	56° 45' 11.19" N
ØV grader	2° 49' 43.61" E
NS UTM [m]	6290057.13
ØV UTM [m]	489529.49
UTM sone	31
NPDID for brønnbanen	6260



Brønnhistorie

General

Well 1/3-12 S was drilled in the Breiflabb Basin of the southern North Sea, about half-way between the Albuskjell Field and the 1/3-11 discovery. The principal objective of the well was to penetrate the Mandarin East pod and evaluate a prognosed un-faulted section of Triassic (Skagerrak Formation) within which there was a strong amplitude event that was interpreted pre‐drilling as being the Top Julius mudstone, with a Joanne Sandstone section above and the Judy Sandstone beneath. Both of these were prognosed to contain hydrocarbons. The secondary objective was to evaluate the hydrocarbon potential of the Late Jurassic Sandstones, if any were present.

Operations and results

Well 1/3-12 S was spudded with the jack-up installation Rowan Gorilla VI on 1 December 2009 and drilled to TD at 5931 m (5868 m TVD) in the Late Triassic Skagerrak Formation. At final TD the pipe became stuck and after some time working to free the pipe it parted just below the rotary table. A complex 12 day fishing operation then commenced, eventually recovering the fish from 5590 m upwards, but leaving the BHA across the Judy Sandstones. This made wire line logging operations impossible. Following recovery of the fish a further 32 days were spent plugging and abandoning the well before the rig moved off location. The well was drilled with seawater and pre-hydrated bentonite down to 1150 m, with Carbosea oil based mud from 1150 m to 5412 m, and with Magma-Teq oil based mud from 5412 m to TD.

The stratigraphic sequence was different to that expected, with a thicker Late Jurassic, and the unexpected presence of Middle Jurassic claystones and sandstones eroding down into the Triassic sequence. The Joanne sandstones was not encountered and the well went directly into what was believed to be the Judy Sandstones at 5817.5 m. When the well had gone deep enough to ensure that Julius Mudstone was not present, a core was taken for evaluation of reservoir quality. The LWD GR and resistivity logs clearly showed the Middle Jurassic and Skagerrak Sandstones to be water bearing. There were no oil shows above OBM seen on cuttings from the Jurassic and Triassic sandstones. No shows were seen on the core.

One core was cut from 5876 m to 5903 m in the Skagerrak Formation, Judy Member. Only 8.43 m (32.6%) was recovered. It was not possible to obtain wire line log data, pressures, and fluid samples over the Middle Jurassic and Skagerrak Sandstones due to the BHA becoming stuck at TD.

The well was permanently abandoned on 22 July 2010 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
249.00	5931.50

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	5876.0	5884.4	[m]

Total kjerneprøve lengde [m]	8.4
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
118	NORDLAND GP
1864	HORDALAND GP
3236	ROGALAND GP
3248	SELE FM
3267	FORTIES FM
3272	LISTA FM
3296	VIDAR FM
3339	LISTA FM
3449	MAUREEN FM
3473	SHETLAND GP
3473	EKOFISK FM
3581	TOR FM
4092	HOD FM
5075	BLODØKS FM
5082	HIDRA FM
5188	CROMER KNOLL GP
5188	RØDBY FM
5308	SOLA FM
5346	TUXEN FM
5398	ÅSGARD FM
5541	TYNE GP
5541	MANDAL FM
5556	FARSUND FM
5627	HAUGESUND FM
5736	VESTLAND GP



5818	NO GROUP DEFINED
5818	SKAGERRAK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - HEL BAP MFR	4207	5913
LWD - PP ARC9	219	4207
LWD - PP DIR	118	219
LWD - PP DIR	219	1150

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	212.0	36	219.0	0.00	LOT
SURF.COND.	20	1132.0	26	1150.0	0.00	LOT
INTERM.	13 3/8	4202.0	17 1/2	4207.0	0.00	LOT
INTERM.	9 5/8	5400.0	12 1/4	5412.0	0.00	LOT
OPEN HOLE		5931.0	8 1/2	5931.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
219	1.60	16.0		Gel-Chem	
219	1.03	17.0		Gel-Chem	
219	1.32	13.0		Gel-Chem	
1016	1.67	49.0		CarboSEA	
1150	1.65	36.0		CarboSEA	
1150	1.14	10.0		Gel-Chem	
1928	1.67	42.0		CarboSEA	
3002	1.67	43.0		CarboSEA	
3250	1.91	63.0		CarboSEA	
3594	1.67	45.0		CarboSEA	
4207	1.69	45.0		CarboSEA	
4207	1.67	51.0		CarboSEA	
4893	1.86	55.0		CarboSEA	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 09:22

5412	2.09	5.0		CarboSEA	
5592	2.24	51.0		Enviromul	
5876	2.22	49.0		CarboSEA	
5903	2.22	47.0		Enviromul	
5931	2.22	49.0		Magma-Teq	