



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 11:08

Brønnbane navn	34/6-4
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	34/6-4
Seismisk lokalisering	MC3D-B34-6R06 PSDM
Utvinningstillatelse	554
Boreoperatør	Total E&P Norge AS
Boretillatelse	1605-L
Boreinnretning	LEIV EIRIKSSON
Boredager	76
Borestart	18.12.2015
Boreslutt	02.03.2016
Frigitt dato	02.03.2018
Publiseringsdato	02.03.2018
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	390.0
Totalt målt dybde (MD) [m RKB]	4115.0
Totalt vertikalt dybde (TVD) [m RKB]	4084.0
Maks inklinasjon [°]	9.6
Temperatur ved bunn av brønnbanen [°C]	148
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	BURTON FM
Geodetisk datum	ED50
NS grader	61° 38' 46.65" N
ØV grader	2° 49' 29.17" E
NS UTM [m]	6834953.67
ØV UTM [m]	490715.21
UTM sone	31
NPDID for brønnbanen	7853



Brønnhistorie

General

Well 34/6-4 was drilled to test the Uptonia prospect in the Mekkukalven Fault complex. The well is situated northeast of the Garantiana oil discovery in the northern North Sea. The primary objective was to test the hydrocarbon potential in the Cook Formation.

Operations and results

Wildcat well 34/6-4 was spudded with the semi-submersible installation Leiv Eiriksson on 18 December 2015 and drilled to 17 1/2" section TD at 2089 m. Due to hole problems it was not possible to run the 13 3/8" past 1419 m. A technical sidetrack (34/6-4 T2) was initiated below the 20" casing shoe at 1343 m on the January 13 2016. The well was drilled to final TD at 4115 m in the Early Jurassic Burton Formation. The well was drilled with sea water and hi-vis pills down to 1307 m. The rest of the first well bore, from 1307 to 2089 m, was drilled with Glydril mud. The technical sidetrack was drilled with KCl/polymer mud from kick-off to 2090 m and with NABM oil based mud from 2090 m to TD.

The Cook Formation was encountered at 3951 m (3945.5 m TVD), 81.3 m TVD deeper than prognosed. The sands of the Cook Formation was found to be water bearing and of poor to moderate reservoir quality from LWD logs, cuttings and gas measurements. Petro-diagenesis analysis of the acquired sidewall cores indicate that the encountered poor/moderate reservoir quality can be ascribed to lack of preservation of primary porosity. No oil shows above the oil base in the mud were recorded in the well.

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 2 March 2016 as a dry well.

Testing

No drill stem test was performed.

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Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1310.00	2080.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3721.0	[m]	DC	PETROSTR
3727.0	[m]	DC	PETROS
3733.0	[m]	DC	PETROS



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3739.0 [m]	DC	PETROS
3745.0 [m]	DC	PETROS
3751.0 [m]	DC	PETROS
3757.0 [m]	DC	PETROS
3763.0 [m]	DC	PETROS
3769.0 [m]	DC	PETROS
3775.0 [m]	DC	PETROS
3781.0 [m]	DC	PETROS
3787.0 [m]	DC	PETROS
3793.0 [m]	DC	PETROS
3799.0 [m]	DC	PETROS
3805.0 [m]	DC	PETROS
3811.0 [m]	DC	PETROS
3817.0 [m]	DC	PETROS
3823.0 [m]	DC	PETROS
3829.0 [m]	DC	PETROS
3835.0 [m]	DC	PETROS
3841.0 [m]	DC	PETROS
3847.0 [m]	DC	PETROS
3853.0 [m]	DC	PETROS
3859.0 [m]	DC	PETROS
3865.0 [m]	DC	PETROS
3871.0 [m]	DC	PETROS
3877.0 [m]	DC	PETROS
3883.0 [m]	DC	PETROS
3889.0 [m]	DC	PETROS
3895.0 [m]	DC	PETROS
3901.0 [m]	DC	PETROS
3907.0 [m]	DC	PETROS
3913.0 [m]	DC	PETROS
3919.0 [m]	DC	PETROS
3925.0 [m]	DC	PETROS
3931.0 [m]	DC	PETROS
3937.0 [m]	DC	PETROS
3943.0 [m]	DC	PETROS
3949.0 [m]	DC	PETROS
3955.0 [m]	DC	PETROS
3961.0 [m]	DC	PETROS
3967.0 [m]	DC	PETROS
3973.0 [m]	DC	PETROS



3979.0 [m]	DC	PETROS
3985.0 [m]	DC	PETROS
3991.0 [m]	DC	PETROS
3997.0 [m]	DC	PETROS
4003.0 [m]	DC	PETROS
4010.0 [m]	DC	PETROS
4020.0 [m]	DC	PETROS
4030.0 [m]	DC	PETROS
4040.0 [m]	DC	PETROS
4050.0 [m]	DC	PETROS
4060.0 [m]	DC	PETROS
4070.0 [m]	DC	PETROS
4080.0 [m]	DC	PETROS
4090.0 [m]	DC	PETROS
4100.0 [m]	DC	PETROS
4110.0 [m]	DC	PETROS

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
415	NORDLAND GP
1336	HORDALAND GP
1890	ROGALAND GP
1890	BALDER FM
1919	SELE FM
1928	LISTA FM
2043	VÅLE FM
2054	SHETLAND GP
2054	JORSALFARE FM
2241	KYRRE FM
3291	TRYGGVASON FM
3751	BLODØKS FM
3759	SVARTE FM
3786	BRENT GP
3786	RANNOCH FM
3838	DUNLIN GP
3838	DRAKE FM
3952	COOK FM
4067	BURTON FM



Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - DI GR RES APWD	415	1307
MWD - DI GR RES APWD	1299	2090
MWD - DI GR RES APWD DTCO	1307	2089
MWD - GR APWD DEN CAL RES NEU DI	3718	3718
MWD - SON DI GR RES APWD	2090	3718
SON CAL	3850	4115
XLROCK SWC	3894	4066

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	482.5	36	482.5	0.00	
PILOT HOLE		483.0	9 7/8	483.0	0.00	
SURF.COND.	20	1299.0	26	1307.0	1.46	FIT
INTERM.	13 3/8	2080.3	17 1/2	2090.0	1.80	LOT
INTERM.	9 7/8	3709.9	12 1/2	3718.0	1.99	LOT
OPEN HOLE		4115.0	8 1/2	4115.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
483	1.35	18.0		Spud mud	
483	1.25	18.0		Spud mud	
1307	1.03	18.0		Sea Water	
1307	1.25	18.0		Spud Mud	
1307	1.03	18.0		GLYDRIL	
1400	1.38	16.0		GLYDRIL	
1510	1.35	18.0		GLYDRIL	
1600	1.37	19.0		GLYDRIL	
1609	1.45	20.0		GLYDRIL	
2020	1.38	17.0		GLYDRIL	
2089	1.03	16.0		GLYDRIL	



2089	1.45	17.0		GLYDRIL	
2090	1.45	23.0		KCL/Polymer	
2093	1.62	38.0		EMS-4600	
2766	1.67	41.0		EMS-4600	
2859	1.62	41.0		EMS-4600	
3071	1.64	38.0		EMS-4600	
3653	1.65	40.0		EMS-4600	
3718	1.67	41.0		EMS-4600	
3785	1.84	35.0		EMS-4750	
3951	1.86	37.0		EMS-4750	
4115	1.86	39.0		EMS-4750	
4115	1.45	15.0		GLYDRIL	
4115	1.67	33.0		EMS-4600	
4115	1.03	15.0		Sea Water	