



Generell informasjon

Brønnbane navn	8/10-4 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	ODA
Funn	8/10-4 S Oda
Brønn navn	8/10-4
Seismisk lokalisering	site survey lines CE1001 D 22A and CE1001 D 19
Utvinningstillatelse	405
Boreoperatør	Centrica Resources (Norge) AS
Boretillatelse	1383-L
Boreinnretning	MÆRSK GUARDIAN
Boredager	53
Borestart	27.10.2011
Boreslutt	18.12.2011
Frigitt dato	18.12.2013
Publiseringsdato	18.12.2013
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	44.0
Vanndybde ved midlere havflate [m]	66.0
Totalt målt dybde (MD) [m RKB]	3639.0
Totalt vertikalt dybde (TVD) [m RKB]	3360.0
Maks inklinasjon [°]	48.2
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	57° 3' 53.79" N
ØV grader	3° 2' 43.41" E
NS UTM [m]	6324757.70
ØV UTM [m]	502752.78



UTM sone	31
NPDID for brønnbanen	6737

Brønnhistorie

General

Well 8/10-4 A was drilled as a sidetrack to the Butch prospect discovery well, 8/10-4 S on the Sørvestlandet High the North Sea. The discovery well found oil in the Late Jurassic Ula Formation. The objective of the sidetrack was to identify an OWC.

Operations and results

Well 8/10-4 A was drilled with the jack-up installation Mærsk Guardian. It was sidetracked from a window in the 9 5/8" casing of 8/10-4 S at 2266 m in the upper part of the Balder Formation. Inclination was increased from vertical at kick-off point to 46.6 deg at top Ula Formation; along an azimuth of approximately 298 deg N. Total step-out from kick-off point was 724 m. The well was drilled to 3639 m (3360 m TVD) in the Late Triassic Skagerrak Formation. Here, well instability problems precluded the running of wire line logs, necessitating the drilling of a technical sidetrack. Technical sidetrack 8/10-4 A T2 was kicked off from Well 8/10-4 A at 2852 m in the uppermost part of the Rødby Formation and drilled in the same direction along a much reduced inclination, from 33.5 deg at kick-off to 22 deg at final TD. This sidetrack reached a TD at 3293 m (3203 m TVD) in the Late Triassic Skagerrak Formation. Both well bores were drilled with oil based mud from kick-off to TD.

Sidetrack 8/10-4 A penetrated top Ula Formation at 3432.6 m (3178.3 m TVD MSL), while the T2 sidetrack penetrated top Ula at 3196.7 m (3070 m TVD MSL). The Ula Formation was water wet in both well bores, and there were no indications of migrated hydrocarbons anywhere else in the well bores. RDT pressure measurements in the water leg of 8/10-4 A T2 combined with the RDT pressure measurements in 8/10-4 S oil column gave a very accurate location of the OWC at 2985 m TVD MSL.

No cores were cut. Three RDT water samples were taken at 3199 m.

A decision was made to evaluate the south-western segment of the Butch prospect, via a new relatively long, high angle sidetrack. The well was plugged back and prepared for sidetrack to well 8/10-4 B on 18 December 2011. It is classified as an oil appraisal.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2280.00	3639.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
110	NORDLAND GP
1380	HORDALAND GP
2258	ROGALAND GP
2258	BALDER FM
2288	SELE FM
2307	LISTA FM
2475	VIDAR FM
2495	VÅLE FM
2502	SHETLAND GP
2502	EKOFISK FM
2556	TOR FM
2695	HOD FM
2846	CROMER KNOLL GP
2846	RØDBY FM
2883	SOLA FM
2907	TUXEN FM
2922	ÅSGARD FM
3278	TYNE GP
3278	MANDAL FM
3334	FARSUND FM
3432	VESTLAND GP
3432	ULA FM
3602	SKAGERRAK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - DGR ADR ALD CTN BAT PWD AB	2384	3637
MWD - DGR ADR PWD	2254	2408
MWD - DGR ADR PWD	2722	3285
RDT GR	3199	3255

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	218.6	36	226.0	0.00	LOT
INTERM.	13 3/8	1001.0	17 1/2	1011.0	0.00	LOT
PILOT HOLE		1011.0	9 7/8	1011.0	0.00	LOT
INTERM.	9 5/8	2266.0	12 1/4	2266.0	0.00	LOT
OPEN HOLE		3639.0	8 1/2	3639.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
450	1.46	31.0		ENVIROMUL	
700	1.46	38.0		Enviromul	
963	1.52	40.0		Enviromul	
1011	1.52	36.0		Enviromul	
1105	1.52	50.0		Enviromul	
1380	1.44	33.0		ENVIROMUL	
2257	1.59	47.0		Enviromul	
2412	1.44	33.0		Enviromul	
2438	1.46	31.0		ENVIROMUL	
2662	1.46	30.0		ENVIROMUL	
2811	1.44	32.0		ENVIROMUL	
2844	1.46	38.0		Enviromul	
2914	1.44	32.0		ENVIROMUL	
2999	1.46	35.0		Enviromul	
3575	1.44	37.0		Enviromul	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
6737 Formation pressure (Formasjonstrykk)	pdf	0.23

