Generell informasjon

Brønnbane navn	9/1-1 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	9/1-1
Seismisk lokalisering	MC3D-EGBS2008 inline 2411 & crossline 5334
Utvinningstillatelse	406
Boreoperatør	Premier Oil Norge AS
Boretillatelse	1316-L
Boreinnretning	BREDFORD DOLPHIN
Boredager	52
Borestart	01.10.2011
Boreslutt	21.11.2011
Frigitt dato	10.08.2013
Publiseringsdato	10.08.2013
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	87.0
Totalt målt dybde (MD) [m RKB]	2533.0
Totalt vertikalt dybde (TVD) [m RKB]	2230.0
Maks inklinasjon [°]	42.1
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	57° 53' 37.03'' N
ØV grader	4° 0' 56.02'' E
NS UTM [m]	6417463.91
ØV UTM [m]	560208.89
UTM sone	31
NPDID for brønnbanen	6398

Brønnhistorie

General

Well 9/1-1 S was drilled on the Gardrofa prospect in the Egersund Basin of the North Sea, roughly mid way between the Bream-Brisling Discoveries and the Yme Field. The Gardrofa prospect is created by salt tectonism. The primary objective was to test sandstones within the Middle Jurassic Bryne Formation.

Operations and results

Wildcat well 9/1-1 S was spudded with the semi-submersible installation Bredford Dolphin on 1 October 2011 and drilled to TD at 2533 m (2230 m TVD) in the Late Triassic Skagerrak Formation. A 9 7/8" pilot hole was drilled from 194 m to 759 m to check for shallow gas. No shallow gas was found. The well was planned and drilled deviated to avoid potential high pressure zones in the Paleocene (823 - 900 m). Operations were severely delayed by problems with the BOP. Waiting on necessary parts took a long time, and in addition, retrieving the BOP for repair and then re-running it was delayed by weather. There were problems getting a pressure test on the 20 casing, probably due to a leak through the shoe track. The lower formations in the 12 1/4" section (Sola, Flekkefjord, Sauda, Tau and Egersund formations.) were clearly unstable and produced lots of cavings. This created some problems with setting the casing. The well was drilled with seawater and hi-vis pills down to 745 m and with XP-07 oil based mud from 745 m to TD.

Good sands were observed in the Bryne Formation. These were found to be water wet and no hydrocarbons were observed. No oil shows were observed in the well.

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

The well was permanently abandoned on 21 November 2011 as a dry well.

Testing

No drill stem test was performed.

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
112	NORDLAND GP
462	HORDALAND GP
823	ROGALAND GP
823	BALDER FM
850	SELE FM
873	LISTA FM
900	SHETLAND GP
900	EKOFISK FM
936	TOR FM

1221	HOD FM
1229	CROMER KNOLL GP
1229	SOLA FM
1934	BOKNFJORD GP
1934	FLEKKEFJORD FM
2060	SAUDA FM
2262	TAU FM
2332	EGERSUND FM
2392	VESTLAND GP
2392	SANDNES FM
2411	BRYNE FM
2484	HEGRE GP
2484	SKAGERRAK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
GR RES ALD CTN BAR SON PWD DIR	754	2533
GR RES PWD DIR	194	754
VSP GR	786	2525

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	190.5	36	194.0	0.00	LOT
SURF.COND.	20	749.5	26	759.5	0.00	LOT
OPEN HOLE		757.0	17 1/2	757.0	0.00	LOT
PILOT HOLE		759.5	9 7/8	759.5	0.00	LOT
INTERM.	9 5/8	2340.0	12 1/4	2347.0	0.00	LOT
OPEN HOLE		2533.0	8 1/2	2533.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
149	1.03			Kill/displacement mud	

149	1.50	12.0		Kill/displacement mud	
194	1.03			Kill/displacement mud	
194	1.25	17.0		Kill/displacement mud	
662	1.03			Spud mud	
754	1.25	16.0		XP-07	
754	1.25			Kill/displacement mud	
1127	1.25	22.0		XP-07	
2062	1.35	19.0		XP-07	
2347	1.41	30.0		XP-07	
2347	1.41	31.0		XP-07	
2347	1.37	25.0		XP-07	
2347	1.37	31.0		XP-07	
2347	1.35	21.0		XP-07	
2366	1.25	15.0		XP-07	
2533	1.41	32.0		XP-07	