



Generell informasjon

Brønnbane navn	9/4-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	9/4-2
Seismisk lokalisering	LINE CN9-16.
Utvinningstillatelse	013
Boreoperatør	Texaco Exploration Norway AS
Boretillatelse	39-L
Boreinnretning	GULFTIDE
Boredager	42
Borestart	19.07.1970
Boreslutt	29.08.1970
Frigitt dato	29.08.1972
Publiseringsdato	22.04.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	70.0
Totalt målt dybde (MD) [m RKB]	3025.0
Maks inklinasjon [°]	3
Temperatur ved bunn av brønnbanen [°C]	76
Eldste penetrerte alder	MIDDLE TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	57° 41' 11.05" N
ØV grader	4° 2' 34.85" E
NS UTM [m]	6394420.37
ØV UTM [m]	562191.39
UTM sone	31
NPDID for brønnbanen	176



Brønnhistorie

General

Well 9/4-2 was drilled on a salt-induced, anticlinal structure in the Egersund Basin in the North Sea, 11 km to the north of the 9/4-1 location. The primary objective was the Middle Jurassic sandstone, but also Triassic sands were considered prospective. Danian and Late Cretaceous chalks were seen as secondary objectives.

The well is Type Well for the Base Cretaceous Flekkefjord Formation in the Norwegian-Danish Basin.

Operations and results

Wildcat well 9/4-2 was spudded with the jack-up installation Gulf Tide on 19 July 1970 and drilled to TD at 3025 m in the Middle Triassic Skagerrak Formation. Three casing strings were set in the hole. The 20" casing was originally planned around 600 m but stopped short at 282 m where it had to be set. Except for this, the hole was drilled without significant technical problems. The hole was drilled with seawater as drilling fluid down to 99 m from where a seawater gel with spersene was used. Diesel oil was used as emulsifier.

Danian and Late Cretaceous chalks were penetrated from 1323 m to 1936 m and were found water wet. The target Middle Jurassic sands (Sandnes Formation) was encountered at 2490 m. The sand was white, medium to coarse grained, poorly consolidated, calcareous, with thin interbeds of red to grey, micaceous shale. This sandstone appears to be an excellent reservoir, of the total thickness of 50 m about 48 m appeared to be a porous sandstone on the logs with porosity of about 24 percent. The Triassic (Skagerrak Formation) was encountered at 2633 m. It consisted of red, soft, occasionally calcareous and micaceous claystone with interbedded red to white, fine to coarse grained, in part calcareous sandstone. No hydrocarbon shows were encountered in the well. No conventional cores were cut and no fluid samples taken.

The well was permanently abandoned on 29 August as a dry hole.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1862.33	3023.62

Borekaks tilgjengelig for prøvetaking?	NO
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Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
99	NORDLAND GP
503	HORDALAND GP
1141	ROGALAND GP
1141	BALDER FM
1161	SELE FM
1184	FISKEBANK FM
1241	LISTA FM
1281	VÅLE FM
1323	SHETLAND GP
1323	EKOFISK FM
1365	TOR FM
1936	BLODØKS FM
1950	HIDRA FM
1952	CROMER KNOLL GP
1952	RØDBY FM
1975	SOLA FM
1998	ÅSGARD FM
2155	BOKNFJORD GP
2155	FLEKKEFJORD FM
2208	SAUDA FM
2396	TAU FM
2435	EGERSUND FM
2490	VESTLAND GP
2490	SANDNES FM
2540	BRYNE FM
2633	NO GROUP DEFINED
2633	SKAGERRAK FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
176	pdf	0.29

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter





Dokument navn	Dokument format	Dokument størrelse [KB]
176_01_WDSS_General_Information	pdf	0.18

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
176_01_Final_Engineering_Report	pdf	0.67
176_02_Composite_well_log	pdf	1.26

Dokumenter - Sokkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
176_01_NPD_Paper_No.24_Lithology_Well_9_4_2	pdf	13.95

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CDM	1388	2748
CDM AP	1783	2743
GR	99	3026
IES	288	3027
SGR-C	288	3024

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	36	145.0	48	146.0	0.00	LOT
SURF.COND.	20	334.0	26	375.0	0.00	LOT
INTERM.	13 3/8	1093.0	17 1/2	1106.0	0.00	LOT
OPEN HOLE		3025.0	12 1/4	3025.0	0.00	LOT

Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
207	1.07	42.0		seawater	
609	1.10	36.0		seawater	
1260	1.17	36.0		seawater	
1683	1.28	40.0		seawater	
2138	1.25	41.0		seawater	
2746	1.41	46.0		seawater	