



## Generell informasjon

Brønnbane navn	9/4-4
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	<a href="#">lenke til kart</a>
Hovedområde	NORTH SEA
Brønn navn	9/4-4
Seismisk lokalisering	
Utvinningstillatelse	<a href="#">013</a>
Boreoperatør	Saga Petroleum ASA
Boretillatelse	178-L
Boreinnretning	<a href="#">DEEPSEA SAGA</a>
Boredager	33
Borestart	19.07.1977
Boreslutt	20.08.1977
Frigitt dato	20.08.1979
Publiseringsdato	25.04.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	78.0
Totalt målt dybde (MD) [m RKB]	2902.0
Temperatur ved bunn av brønnbanen [°C]	76
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	57° 42' 1.48" N
ØV grader	4° 13' 20.79" E
NS UTM [m]	6396158.57
ØV UTM [m]	572861.29
UTM sone	31
NPDID for brønnbanen	305



## Brønnhistorie

### General

Well 9/4-4 is located east of the Flekkefjord High on the western flank of the Egersund Sub-basin, which forms a part of the Danish-Norwegian Basin. The main objective of drilling 9/4-4 was to test the middle Jurassic sands on the western flank of the Egersund sub-basin. Alternating porous and nonporous sands of Late Triassic and possible minor Late Jurassic sands were considered secondary objectives.

### Operations and results

Wildcat well 9/4-4 was spudded with the semi-submersible installation Deepsea Saga on 19 July 1977 and drilled to TD at 2902 m, 57 m into the Triassic Skagerrak Formation. No significant problems were encountered in the drilling operations. The well was drilled with high-viscosity spud mud down to 405 m, with gypsum mud from 405 m to 1300 m, and with lignosulphonate mud from 1300 m to TD. At 2807 m the pipe stuck and was freed by adding "Pipefree" and diesel to the mud.

The Middle Jurassic sands with a gross thickness of 117 m were found as postulated. Secondary objective reservoir sands in Late Triassic and Late Jurassic were not encountered. No oil shows were encountered in any section of the well and no hydrocarbons could be inferred from logs. The most likely reason for the lack of hydrocarbons is immaturity of the Jurassic source beds. Organic geochemical source rock screening of the interval 250 m to TD showed good to excellent source rocks in the Late Jurassic shales and the Middle Jurassic (Bryne Formation) coals. The analyses showed that the Bryne coals were immature for petroleum generation and that the Late Jurassic shales were immature, possibly marginally mature. No conventional core was cut and no fluid samples taken. Fourteen sidewall cores were recovered from the interval 2673 m to 2850 m.

The well was permanently abandoned on 20 August 1977 as a dry hole.

### Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
180.00	2902.00

Borekaks tilgjengelig for prøvetaking?	NO
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## Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
103	<a href="#">NORDLAND GP</a>
550	<a href="#">HORDALAND GP</a>
1065	<a href="#">ROGALAND GP</a>



1065	<a href="#">BALDER FM</a>
1086	<a href="#">SELE FM</a>
1130	<a href="#">LISTA FM</a>
1243	<a href="#">VÅLE FM</a>
1260	<a href="#">SHETLAND GP</a>
1260	<a href="#">EKOFISK FM</a>
1302	<a href="#">TOR FM</a>
1650	<a href="#">HOD FM</a>
1825	<a href="#">BLODØKS FM</a>
1840	<a href="#">HIDRA FM</a>
1853	<a href="#">CROMER KNOLL GP</a>
1853	<a href="#">RØDBY FM</a>
1888	<a href="#">SOLA FM</a>
2016	<a href="#">ÅSGARD FM</a>
2310	<a href="#">BOKNEFJORD GP</a>
2310	<a href="#">FLEKKEFJORD FM</a>
2395	<a href="#">SAUDA FM</a>
2598	<a href="#">TAU FM</a>
2668	<a href="#">EGERSUND FM</a>
2718	<a href="#">VESTLAND GP</a>
2718	<a href="#">SANDNES FM</a>
2814	<a href="#">BRYNE FM</a>
2845	<a href="#">NO GROUP DEFINED</a>
2845	<a href="#">SKAGERRAK FM</a>

### Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">305</a>	pdf	0.43

### Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">305_1</a>	pdf	1.82





**Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter**

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">305_01_WDSS_General_Information</a>	pdf	0.25

**Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)**

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">305_01_Final_well_report_and_Composite_well_log</a>	pdf	11.14

**Logger**

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	90	1290
FDC CNL GR	1290	2893
HDT	1290	2893
ISF SONIC GR	100	2893
VELOCITY	400	2881

**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	178.0	36	178.0	0.00	LOT
SURF.COND.	26	420.0	20	420.0	0.00	LOT
INTERM.	13 3/8	1289.0	17 1/2	1300.0	0.00	LOT
OPEN HOLE		2902.0	12 1/4	2902.0	0.00	LOT

**Boreslam**

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
178	1.01			seawater	
1246	1.10	45.0		seawater	
1633	1.28	42.0		seawater	





**Faktasider**  
**Brønnbane / Leting**

Utskriftstidspunkt: 29.5.2024 - 16:32

2740	1.35	45.0		seawater	
2902	1.37	45.0		seawater	