



Generell informasjon

Brønnbane navn	2/2-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	2/2-3
Seismisk lokalisering	SG 8252 - 258 SP 301
Utvinningstillatelse	066
Boreoperatør	Saga Petroleum ASA
Boretillatelse	362-L
Boreinnretning	TREASURE SAGA
Boredager	97
Borestart	04.02.1983
Boreslutt	11.05.1983
Frigitt dato	11.05.1985
Publiseringsdato	24.09.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	27.0
Vanndybde ved midlere havflate [m]	65.0
Totalt målt dybde (MD) [m RKB]	4100.0
Totalt vertikalt dybde (TVD) [m RKB]	4096.0
Maks inklinasjon [°]	8
Temperatur ved bunn av brønnbanen [°C]	138
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SMITH BANK FM
Geodetisk datum	ED50
NS grader	56° 47' 36.42" N
ØV grader	3° 25' 38.14" E
NS UTM [m]	6294616.14
ØV UTM [m]	526100.02
UTM sone	31
NPDID for brønnbanen	3



Brønnhistorie

General

The wildcat 2/2-3 was drilled on a domal structure, south of the Ula-Gyda fault zone. Main objective was Late Jurassic sandstone in the Vestland Group. Secondary target was Middle Jurassic and Late Triassic sandstones.

According to the license agreement the well should be drilled into the Triassic, salt, or a maximum depth of 5000 m whatever came first

Operations and results

The well was spudded with the semi-submersible rig Treasure Saga on 4 February 1983 and drilled to TD at 4100 m, 170 m into the Triassic Smith Bank Formation. At 3286 m the string was lost after a wiper trip. The well had to be plugged back to 3053 m and sidetracked from this point. At 3420 m the string was again lost but was recovered. The well was drilled using water-based mud. The well was drilled with seawater and bentonite down to 655 m, with polymer/gypsum/"SST 202" mud from 655 m to 1910 m, with lignite/Drispac/gypsum mud from 1910 m to 3523 m, and with lignite/lignosulphonate mud from 3523 m to TD.

The well penetrated 2998 m of Cenozoic sediments represented by the Nordland, Hordaland and Rogaland Groups. The sequence was mainly composed of argillaceous deposits. The Oligocene Sand Unit (Vade Formation) recognized in well 2/2-1 and 2/2-2, was not established in this well. The Cretaceous sequence consisted of two lithostratigraphic units, the Chalk and Cromer Knoll Group. They were separated by an unconformity ranging from Santonian to Middle Albian. The Early Cretaceous and upper part of the Late Jurassic (Ryazanian-Middle Volgian) are highly condensed. The Late Jurassic predominantly consists of claystones of the Mandal (4m) and Farsund Formations. The Ula Formation is present from 3880 m in the bottom part of the Late Jurassic as a sandstone sequence of Early Kimmeridgian - Late Oxfordian age. The formation is resting unconformably on sediments of the Triassic Group.

The Shetland Group chalk, 2965 m to 3494 m, has 112 meters of net porous limestone with an average porosity of 21 percent. The chalk is clean. Where the porosity is highest, 3050 m to 3090 m, the well has a large wash-out. The Ula Formation was a sandstone with 19 percent mean porosity (based on core and log analyses), but with a permeability not exceeding 1 mD in any net sand found. The cored sand was well cemented. The Triassic formation that was penetrated, 3930 m to 4100 m, had 15 meters of sand with a porosity of 16 percent. The sand was more shaly than the Jurassic sand. Fifty attempts were made to get formation pressures with the FMT-tool. Because of tight formation, only one measurement (4084.5 m in the Triassic sand with 10237 psi) can be assumed correct, and even this point was of questionable quality. All porous intervals in the well were water bearing. No shows were reported from this well. One core was cut from 3887.7 m to 3905.5 m in the Ula Formation sand. No fluid sample was acquired. The well was permanently abandoned as dry on 11 May 1983.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
220.00	4100.00
Borekaks tilgjengelig for prøvetaking?	YES

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3887.7	3905.0	[m]

Total kjerneprøve lengde [m]	17.3
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3887-3894m



3894-3901m



3901-3905m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
4035.5	[m]	SWC	OD
4079.0	[m]	SWC	OD
4088.0	[m]	SWC	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
92	NORDLAND GP
1543	HORDALAND GP
2827	ROGALAND GP
2827	BALDER FM



2855	SELE FM
2906	LISTA FM
2947	MAUREEN FM
2965	SHETLAND GP
2965	EKOFISK FM
3090	TOR FM
3442	HOD FM
3494	CROMER KNOLL GP
3494	RØDBY FM
3499	SOLA FM
3523	TYNE GP
3523	MANDAL FM
3527	FARSUND FM
3880	VESTLAND GP
3880	ULA FM
3930	NO GROUP DEFINED
3930	SMITH BANK FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3	pdf	0.54

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
3 01 WDSS General Information	pdf	0.17
3 02 WDSS completion log	pdf	0.34

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3 2 2 3 COMPLETION REPORT AND LOG	pdf	20.97





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CDL CNL GR	1882	3522
CDL CNL GR SPECTRALOG	3517	4099
DIFL BHC GR	214	654
DIFL BHC GR	640	1911
DIFL BHC GR	1850	3522
DIFL BHC GR	3485	4101
DIPLOG	3516	4101
FMT	3511	0
FMT	4084	0
SWC	2185	3013
SWC	3571	4088
VSP	100	4085

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	214.0	36	215.0	0.00	LOT
SURF.COND.	20	650.0	26	655.0	1.39	LOT
INTERM.	13 3/8	1897.0	17 1/2	1910.0	1.93	LOT
INTERM.	9 5/8	3516.0	12 1/4	3523.0	2.14	LOT
OPEN HOLE		4100.0	8 1/2	4100.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
450	1.10	50.0		water	
900	1.11	51.0		water	
1130	1.16	51.0		water	
1320	1.23	60.0		water	
1630	1.27	25.0		water	
1920	1.36	49.0		water	
2080	1.36	59.0		water	
2440	1.44	50.0		water	
2630	1.47	52.0		water	



2720	1.56	52.0		water	
2830	1.62	57.0		water	
3300	1.70	50.0		water	
3450	1.64	45.0		water	
4000	1.68	51.0		water	
4100	1.66	51.0		water	

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]
3 Formation pressure (Formasjonstrykk)	pdf	0.22

