



Generell informasjon

Brønnbane navn	2/8-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	2/8-3
Seismisk lokalisering	
Utvinningstillatelse	006
Boreoperatør	Amoco Norway Oil Company
Boretillatelse	72-L
Boreinnretning	ZAPATA EXPLORER
Boredager	80
Borestart	16.06.1972
Boreslutt	03.09.1972
Frigitt dato	03.09.1974
Publiseringsdato	26.10.2009
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	34.0
Vanndybde ved midlere havflate [m]	69.0
Totalt målt dybde (MD) [m RKB]	4115.0
Maks inklinasjon [°]	1.5
Temperatur ved bunn av brønnbanen [°C]	132
Eldste penetrerte alder	LATE JURASSIC
Eldste penetrerte formasjon	HAUGESUND FM
Geodetisk datum	ED50
NS grader	56° 18' 31" N
ØV grader	3° 26' 54.1" E
NS UTM [m]	6240656.75
ØV UTM [m]	527741.32
UTM sone	31
NPDID for brønnbanen	117



Brønnhistorie

**General**

Well 2/8-3 is located in the Feda Graben, ca 2 km north-east of the Valhall Field in the southern North Sea. The primary objective was to test the Jurassic hydrocarbon potential. The secondary objective was the chalk of the Shetland Group.

The well is reference well for the Haugesund and Farsund Formations.

Operations and results

Wildcat well 2/8-3 was spudded with the jack-up installation Zapata Explorer on 16 June 1972 and drilled to TD at 4115 m in Late Jurassic shales of the Haugesund Formation. The well took 48 days to complete and was drilled with unical/lignosulphonate/caustic based mud.

Reservoir quality rock was absent throughout the well. The first signs of oil were seen in Palaeocene tight siltstones with poor porosities. These were described as bright gold yellow fluorescence with a bright white streaming cut. Gas levels in the Shetland Group were low and no shows were seen in this group. A DST was run over part of this section but yielded only drilling mud. From 3267.3 m, within the Early Cretaceous, gas levels rose significantly and were associated with fair to poor shows in the Marls. The fluorescence was described as gold in colour with a slow pale yellow cut. From 3444 m, gas and shows increased and were contained in slightly argillaceous, hard limestone. Oil staining was seen and the fluorescence described as dark yellow gold with a pale yellow to very light brown cut. Mandal Formation shale was the first Jurassic age rocks seen. Gas levels were very high through these shales and the shows were described as bituminous with no direct fluorescence and a pale yellow cut. Between 3578 - 3600 m a gross sandstone unit was indicated by the gamma ray log. In roughly the same interval (3593.6 and 3605.8 m) abundant free oil appeared in the mud and abundant bright yellow gold fluorescence and a bright yellow straw cut were observed. This interval tested low rates of oil and gas. Dolomite stringers around 3858.8 and 3907.5 m gave good gas and oil shows with a dull yellow fluorescence and a pale yellow streaming cut.

No conventional cores were cut in this well. Four wire line core slices were cut in the Tor and Hod Formations, each 3 foot long at core points: 2999.2, 2967.8, 2956.6, and 2785 m. All had 100 % recovery. Sidewall cores were not taken. No wire line fluid samples were taken.

The well was permanently abandoned on 3 September 1972 as a well with oil and gas shows.

Testing

Three DST tests were performed, two in the Jurassic and one in the Tor Formation. Small amounts of Oil and gas were recovered from the Jurassic Tests. Only mud was recovered from the Cretaceous Tor Test.

DST 1 from 3570.7 - 3587.5 m in the Mandal Formation recovered 3.8 Sm³ of oil and 278 Sm³ gas. The formation shut in Pressure was 4443 psi and the Formation flowing pressure was 3632 psi after 332 minutes.

DST 2 3600 - 3571 m, flowed 32 Sm³ oil and 2019 Sm³ gas with a Final Shut in Pressure of 4037 psi and a final flowing pressure of 3537 psi after 980 minutes. 80 barrels of acid were used to stimulate the well test.

DST 3 2871-2882 m, flowed only mud despite acidising. The final shut in pressure was 5477 psi and the final flowing pressure was 4455 psi after 491 minutes.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
405.38	4114.80

Borekaks tilgjengelig for prøvetaking?	NO
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
9100.0	[ft]	DC	OD
9160.0	[ft]	DC	OD
9220.0	[ft]	DC	OD
9280.0	[ft]	DC	OD
9340.0	[ft]	DC	OD
9400.0	[ft]	DC	OD
9460.0	[ft]	DC	OD
9520.0	[ft]	DC	OD
9580.0	[ft]	DC	OD
9640.0	[ft]	DC	OD
9700.0	[ft]	DC	OD
9760.0	[ft]	DC	OD
9820.0	[ft]	DC	OD
9880.0	[ft]	DC	OD
9940.0	[ft]	DC	OD
10000.0	[ft]	DC	OD
10060.0	[ft]	DC	OD
10120.0	[ft]	DC	OD
10180.0	[ft]	DC	OD
10240.0	[ft]	DC	OD
10300.0	[ft]	DC	OD
10360.0	[ft]	DC	OD
10420.0	[ft]	DC	OD
10480.0	[ft]	DC	OD
10540.0	[ft]	DC	OD
10600.0	[ft]	DC	OD

Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
103	NORDLAND GP
1596	HORDALAND GP
2725	ROGALAND GP
2725	BALDER FM
2738	SELE FM
2756	LISTA FM
2771	VÅLE FM
2780	SHETLAND GP
2780	TOR FM
2850	HOD FM
3167	BLODØKS FM
3169	HIDRA FM
3192	CROMER KNOLL GP
3209	SOLA FM
3250	ÅSGARD FM
3537	TYNE GP
3537	MANDAL FM
3594	FARSUND FM
3761	HAUGESUND FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
117_1	pdf	1.90
117_2	pdf	0.51

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
117_01 WDSS General Information	pdf	0.42

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
117 01 2 8 3 Completion Log	pdf	3.28
117 01 2 8 3 Completion report	pdf	67.92

Dokumenter - Sökkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
117 01 NPD Paper No.32 Geology of the southernmost part of the Norwegian section of the Central Trough Well 2 8 3	pdf	24.44
117 02 NPD Paper No.32 Interpreted Lithology log Well 2 8 3	pdf	60.77
117 03 NPD Paper No.32 Late Cretaceous-early Tertiary Correlation chart Valhall-Hod Fields Profile 2 Well 2 8 3	pdf	0.36
117 04 NPD Paper No.32 Late Jurassic-early Tertiary Correlation chart Profile 3 Well 2 8 3	pdf	0.74

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	3571	3589	0.0
2.0	3600	3571	0.0
3.0	2871	2882	0.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0	30.000	25.000		
2.0	28.000	24.000		
3.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyingde rel. luft	GOR [m3/m3]
1.0	4	278			
2.0	32	2019			
3.0					





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
4ARM HRD	6039	10602
4ARM HRD	10570	12142
4ARM HRD	12138	13500
BHC GR	6039	1059
BHC GR	10570	12132
BHC GR	12138	13490
CBL	2500	12140
CN FDC GR	8500	10602
CN FDC GR	10570	12140
CN FDC GR	12138	13500
DLL	8500	10591
DLL MSFL	12138	13490
DLL MSFL SP	10570	12125
VELOCITY	6039	13490
VSP	1100	11700

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	144.0	36	144.0	0.00	LOT
SURF.COND.	20	382.0	26	396.0	0.00	LOT
INTERM.	13 3/8	1841.0	17 1/2	1849.0	0.00	LOT
INTERM.	9 5/8	3223.0	12 1/4	3230.0	0.00	LOT
LINER	7	3700.0	8 1/2	3700.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1848	1.62			waterbased	
2082	1.64			waterbased	
2481	1.63			waterbased	
3009	1.67			waterbased	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 9.5.2024 - 22:53

3229	1.68			waterbased	
3544	1.92			waterbased	
3700	1.99			waterbased	
4115	2.01			waterbased	