



Generell informasjon

Brønnbane navn	30/9-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	OSEBERG SØR
Funn	30/9-3 Oseberg Sør
Brønn navn	30/9-3
Seismisk lokalisering	NH 82 - 065 SP 377
Utvinningstillatelse	079
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	400-L
Boreinnretning	NORTRYM
Boredager	58
Borestart	31.12.1983
Boreslutt	26.02.1984
Frigitt dato	26.02.1986
Publiseringsdato	03.10.2011
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	NESS FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	110.0
Totalt målt dybde (MD) [m RKB]	3113.0
Totalt vertikalt dybde (TVD) [m RKB]	3113.0
Temperatur ved bunn av brønnbanen [°C]	57
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DRAKE FM
Geodetisk datum	ED50
NS grader	60° 28' 16.33" N
ØV grader	2° 45' 37.55" E



NS UTM [m]	6704071.58
ØV UTM [m]	486827.21
UTM sone	31
NPDID for brønnbanen	55

Brønnhistorie

General

Well 30/9-3 was drilled on the Gamma West structure on the Oseberg Fault Block in the northern North Sea. The primary objective was to find hydrocarbon accumulations in the Middle Jurassic Brent Group. Secondary objective was to find additional hydrocarbon accumulations in the Early Jurassic. Planned TD was ca 75 m below a possible intra Triassic marker to a depth of 4188 +/- 100 m

Operations and results

Wildcat well 30/9-3 was spudded with the semi-submersible installation Nortrym on 31 December 1983. The well was drilled to a depth of 3113 m into Drake Formation shales where the pipe got stuck and parted when pulling out of hole for logging. The fish was not recovered and no wire line logs were recorded below 1713.5 m due to fish in hole. All lithostratigraphic interpretation below this point is therefore based on cuttings description, core description, chromatograph data and ROP information. A sidetrack was decided to complete the well programme. The well was drilled with spud mud down to 625 m and with Invermul/EZmul Oil Based Mud from 625 m to TD.

The Brent Group (2712-3045 m) consisted of a 259 m thick Ness Formation (2712 - 2971 m) made up of sandstones with stringers of shale, siltstone and coal and 74 m of Eive Formation (2971 - 3045m) sandstones. Based on chromatograph analysis on hydrocarbon samples extracted from core samples a GOC was found at ca 2734 m and an OWC at ca 2815 m, both located in the Ness Formation. From core and chromatograph data the Ness Formation had a gross pay of 103 m. The net gas pay was estimated to 22 m and the net oil pay to 36 m giving a total net pay of 58 m (cut off values porosity < 12%, permeability < 1 mD). The average porosity was calculated from cores to 22.5 % and average horizontal permeability to 1090 mD. Oil shows were recorded in Maastrichtian limestone in the upper part of the Shetland Group.

Fifteen cores were cut in the well, all in the Brent Group, twelve in the Ness Formation and three in the Eive Formation. No wire line fluid samples were taken.

The well was plugged back for sidetracking on 26 February as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
220.00	3112.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----



Borekjerne i Sakkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2714.5	2715.5	[m]
2	2716.0	2719.3	[m]
3	2719.7	2735.5	[m]
4	2735.5	2753.5	[m]
5	2753.5	2781.0	[m]
6	2781.0	2800.0	[m]
7	2802.0	2824.0	[m]
8	2824.0	2842.3	[m]
9	2842.5	2860.0	[m]
10	2860.0	2869.4	[m]
11	2870.0	2888.0	[m]
12	2888.0	2906.5	[m]
13	2995.0	3007.5	[m]
14	3008.5	3026.5	[m]
15	3026.5	3030.9	[m]

Total kjerneprøve lengde [m]	223.0
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sakkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3816.2	[m]	SWC	WESTLB
3827.0	[m]	SWC	WESTLB
3831.0	[m]	SWC	WESTLB
3834.0	[m]	SWC	WESTLB
3838.0	[m]	SWC	WESTLB
3855.5	[m]	SWC	WESTLB
3883.0	[m]	SWC	WESTLB
3910.5	[m]	SWC	WESTLB
3913.5	[m]	SWC	WESTLB
3917.5	[m]	SWC	WESTLB
3919.5	[m]	SWC	WESTLB



Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST		0.00	0.00			YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
135	NORDLAND GP
594	UTSIRA FM
843	HORDALAND GP
994	SKADE FM
2051	ROGALAND GP
2051	BALDER FM
2131	SELE FM
2220	LISTA FM
2344	VÅLE FM
2354	SHETLAND GP
2354	HARDRÅDE FM
2578	KYRRE FM
2655	VIKING GP
2655	HEATHER FM
2677	BRENT GP
2712	NESS FM
2971	ETIVE FM
3045	DUNLIN GP
3045	DRAKE FM

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
55_01_WDSS_General_Information	pdf	0.17
55_02_WDSS_completion_log	pdf	0.28





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
55 30 9 3 Completion log	pdf	3.23
55 30 9 3 Completion Report	pdf	16.18

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CDL CAL GR	615	1713
DIFL LSBHC GR SP	135	625
DIFL LSBHC GR SP	615	1712

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	221.0	36	222.0	0.00	LOT
SURF.COND.	20	616.0	26	625.0	1.51	LOT
INTERM.	13 3/8	1699.0	17 1/2	1715.0	1.70	LOT
OPEN HOLE		3113.0	12 1/4	3113.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
870	1.12	25.0	30.0	OIL BASED	
1260	1.09	28.0	16.0	OIL BASED	
1385	1.12			OIL BASED	
1900	1.33	32.0	19.0	OIL BASED	
2280	1.40	30.0	18.0	OIL BASED	
2360	1.41	29.0	21.0	OIL BASED	
2500	1.43	31.0	18.0	OIL BASED	
2875	1.45	35.0	17.0	OIL BASED	
2975	1.44	45.0	13.0	OIL BASED	
3060	1.49	39.0	22.0	OIL BASED	
3090	1.44	38.0	20.0	OIL BASED	



