Generell informasjon

Brønnbane navn	30/4-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	30/4-1
Seismisk lokalisering	
Utvinningstillatelse	043
Boreoperatør	BP Norway Limited U.A.
Boretillatelse	205-L
Boreinnretning	SEDCO 707
Boredager	195
Borestart	01.11.1978
Boreslutt	14.05.1979
Frigitt dato	14.05.1981
Publiseringsdato	24.09.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.3
Vanndybde ved midlere havflate [m]	120.5
Totalt målt dybde (MD) [m RKB]	5454.0
Totalt vertikalt dybde (TVD) [m RKB]	5448.0
Temperatur ved bunn av brønnbanen [°C]	161
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DRAKE FM
Geodetisk datum	ED50
NS grader	60° 37' 20.87'' N
ØV grader	2° 9' 34.61'' E
NS UTM [m]	6721189.29
ØV UTM [m]	454007.11
UTM sone	31
NPDID for brønnbanen	377

Brønnhistorie

General

Well 30/4-1 is located north of the Hild Discovery and west of the Oseberg Field. The main target was Middle Jurassic sandstones in a complex fault and dip-controlled closure. Secondary targets were Palaeogene sands (Balder and Sele Formations) and possible Late Jurassic sands, both in simple dip closures.

Operations and results

Wildcat well 30/4-1 was spudded with the semi-submersible installation SEDCO 707 on 1 November 1978 and drilled to TD at 5454 m in the Early Jurassic Dunlin Group.

The well penetrated a mainly argillaceous Palaeogene section. However, a distinct interval of interbedded thin argillaceous water-bearing sandstones (beds 1 - 3 m thick) with thicker mudstone intervals was drilled between 2116.5 and 2162.5. The net/gross ratio of this interval was about 0.2 (20%) and the sandstone porosities average around 30% (from Schlumberger logs). The well then penetrated a thick argillaceous Cretaceous and Late Jurassic interval. No Late Jurassic sandstones were developed. Water bearing, Middle Jurassic sandstones of the Brent Group were encountered at 5181.5 m. This target group was 218.2 m thick, had a net/gross ratio of about 0.66 (66%) and had sandstone porosities ranging from around 4-16% (from Schlumberger logs). Shows were recorded in limestones in the interval 2545 m to 2570 m, with weaker shows extending down to 2630 m. Weak shows were also noted in the interval 2900 m to 3000 m. Geochemical analyses of cuttings confirmed migrant "medium gravity oil" in the interval 2570 m to 2630 m. No conventional cores were cut. Wire line RFT samples were attempted but all failed.

The well was permanently abandoned as dry on 14 May 1979.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
290.00	5453.00

Borekaks tilgjengelig for prøvetaking?	NO

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
4469.0	[m]	DC	FUGRO
4478.0	[m]	DC	FUGRO
4526.0	[m]	DC	FUGRO
4607.0	[m]	DC	FUGRO

4691.0	[m]	DC	FUGRO
4859.0	[m]	DC	FUGRO
5000.0	[m]	DC	FUGRO
5009.0	[m]	DC	FUGRO
5024.0	[m]	DC	FUGRO
5045.0	[m]	DC	FUGRO
5060.0	[m]	DC	FUGRO
5174.0	[m]	DC	FUGRO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
145	NORDLAND GP
560	UTSIRA FM
902	UNDIFFERENTIATED
922	HORDALAND GP
1050	SKADE FM
1114	NO FORMAL NAME
1648	GRID FM
1700	NO FORMAL NAME
1919	ROGALAND GP
1919	BALDER FM
1969	SELE FM
2000	LISTA FM
2262	SHETLAND GP
2262	JORSALFARE FM
3065	KYRRE FM
3520	TRYGGVASON FM
3761	BLODØKS FM
3770	SVARTE FM
3926	CROMER KNOLL GP
3926	RØDBY FM
3960	SOLA FM
4030	ÅSGARD FM
4387	VIKING GP
4387	DRAUPNE FM
4485	HEATHER FM
5182	BRENT GP
5182	TARBERT FM

5211	NESS FM
5320	ETIVE FM
5340	RANNOCH FM
5359	OSEBERG FM
5400	DUNLIN GP
5400	DRAKE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
377	pdf	0.56

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
377_1_Interim_geochemical_evaluation_of_30_4_1	pdf	4.13
377_2_Geochemical_evaluation_of_30_4_1	pdf	3.22
377_3_Geochemical_data_report_30_4_1	pdf	2.73
377_4_Comparison_of_geochemical_data_from_the_Geochem_and_BP_laboratories	pdf	0.22

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
377_01_WDSS_General_Information	pdf	0.11
377_02_WDSS_completion_log	pdf	0.29

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
377_1_Completion_Report_and_Completion_log	pdf	14.20

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC GR	4950	5180
CBL VDL GR CCL	140	4047
CBL VDL GR CCL	140	2500
CBL VDL GR CCL	3750	4048
CST	1075	2318
CST	2450	4062
FDC CNL GR C	1924	2275
ISF BHC GR SP	145	957
ISF BHC GR SP	1930	2097
ISF BHC GR SP	2275	3554
ISF BHC GR SP C	1050	2340
ISF BHC GR SP C	3500	4064
ISF BHC GR SP C	4048	4534
ISF BHC GR SP C	4465	5029
ISF BHC GR SP C	4950	5182
ISF BHC GR SP C	4950	5180
RFT	3526	3607
RFT 1	5187	0
RFT 1-5	5220	5415
WST	400	4062
WST	2016	5445

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	282.0	36	288.0	0.00	LOT
SURF.COND.	18 5/8	1051.0	26	1059.0	0.00	LOT
INTERM.	13 3/8	2335.0	17 1/2	2345.0	0.00	LOT
INTERM.	9 5/8	4048.0	12 1/4	4072.0	0.00	LOT
OPEN HOLE		5454.0	8 3/8	5454.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
177	1.05	35.0		spud mud	
666	1.08	61.0		seawater	
1058	1.09	67.0		seawater	
2100	1.26	45.0		seawater	
2345	1.26	55.0		seawater	
2862	1.53	68.0		seawater	
3583	1.70	64.0		seawater	
4072	1.79	54.0		seawater	
4819	1.98	53.0		seawater	
5454	2.07	55.0		seawater	