Generell informasjon

Brønnbane navn	2/8-15
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	2/8-15
Seismisk lokalisering	GA3D-INLINE 200 & X-LINE 2300
Utvinningstillatelse	006
Boreoperatør	Amoco Norway Oil Company
Boretillatelse	834-L
Boreinnretning	VILDKAT EXPLORER
Boredager	43
Borestart	27.11.1995
Boreslutt	09.01.1996
Plugget og forlatt dato	09.01.1996
Frigitt dato	09.01.1998
Publiseringsdato	31.10.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	69.0
Totalt målt dybde (MD) [m RKB]	3750.0
Totalt vertikalt dybde (TVD) [m RKB]	3748.0
Maks inklinasjon [°]	5.7
Temperatur ved bunn av brønnbanen [°C]	121
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	HOD FM
Geodetisk datum	ED50
NS grader	56° 25' 5.14'' N
ØV grader	3° 28' 58.96'' E
NS UTM [m]	6252857.51
ØV UTM [m]	529801.71
UTM sone	31
NPDID for brønnbanen	2636

Brønnhistorie

General

Well 2/8-15 was drilled to test the hydrocarbon potential of the "Noekken" prospect, a low stratigraphic Chalk structure northeast of Valhall, lying between the Mode and the Trud salt domes and the Balder nose to the north. The prospect area has been technically active, with reactivation of faults and movements of the salt (until late Tertiary). The main reservoir objective for the Nøkken prospect was within the Late Cretaceous Tor Formation, the main producing interval in the nearby Chalk fields. Secondary potential was identified within the Ekofisk Formation.

Operations and results

Exploration well 2/8-15 was spudded with the semi-submersible installation "Vildkat Explorer" on 27 November 1995. A technical sidetrack of the well became necessary when a core head twisted off at 3360.5 m. The well was sidetracked at 3183 m and the new well bore was labelled 2/8-15 T2. Well 2/8-15 T2 was drilled to TD at 3750 m in the Late Cretaceous Hod Formation. The well was drilled with seawater/spud mud down to 1099 m, with "ANCO 2000" / KCl / Glycol mud from 1099 m to 2300 m, and with oil based "ANCO VERT" mud from 2300 m to TD.

Top chalk was penetrated at 3177 m. Many of the formation tops came in close to forecast and the three identified possible chalk reservoirs; i.e. the upper and lower Ekofisk leads and the Tor Formation were all found to contain fair to good porosity close to prognosis. Lack of hydrocarbons throughout the well was evident and the porous limestones were 100 % water wet. Pore pressures as determined from the MDT were exactly as prognosed. An MDT sample was attempted at 3407 m without success. A further attempt was made at 3314.5 m in order to get a quality formation water sample. About l litre of OBM distillate filtrate fraction was recovered. This was confirmed using chromatograph-fingerprinting analysis conducted by Geoquest Laboratories. However, virgin water samples were derived from the core enabling12 ion analysis and accurate determination of Rw.

Three orientated cores were cut in the well, all three in the Tor Formation. The first core point was 3360 m. This coring led to the sidetrack operation and only 0.5 m was recovered. Cores two and three were cut successfully (100 % recovery) in the interval 3386 m to 3438.5 m. Onshore geochemical analyses of two core chips at GEOLAB NOR showed that the OBM had invaded the cores. However, the extract from one of the core chips (3404.57 m) gave some weak peaks on the tail of the chromatogram, outside the range of the OBM fingerprint.

The well was permanently abandoned as a dry well on 9 January 1996.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1110.00	3750.00

Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3386.0	3410.5	[m]
2	3410.5	3438.4	[m]

Total kjerneprøve lengde [m]	52.4
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder


3386-3391m


3391-3396m


3396-3401m


3401-3406m


3406-3410m


3410-3415m


3415-3420m


3420-3425m


3425-3430m


3430-3435m


3435-3438m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
94	NORDLAND GP

1677	HORDALAND GP
3044	ROGALAND GP
3044	BALDER FM
3065	SELE FM
3113	LISTA FM
3163	VÅLE FM
3177	SHETLAND GP
3177	EKOFISK FM
3346	TOR FM
3721	HOD FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
2636	pdf	0.43

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2636_1	pdf	0.67

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2636_2_8_15_COMPLETION_REPORT_AND_LOG	pdf	119.43

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT DSI GR	1088	3754
CST	3336	3734
IPL	2286	3754
MDT	3194	3558

MED - DIR GR EWR	3230	3333
MWD - DIR GR	238	2300
MWD - DIR GR	3080	3750
MWD - DIR GR EWR4	93	1099
MWD - DIR GR EWR4	2300	3230
PLUG	2239	2239
VSP	2000	3754

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	251.0	36	252.0	0.00	LOT
SURF.COND.	20	1088.0	26	1099.0	0.00	LOT
INTERM.	13 3/8	2286.0	17 1/2	2300.0	0.00	LOT
OPEN HOLE		2303.0	12 1/4	2303.0	0.00	LOT
OPEN HOLE		3750.0	8 1/2	3750.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
150	1.26			DUMMY	
253	1.50			DUMMY	
679	1.50			DUMMY	
1099	1.50			DUMMY	
1355	1.67	36.0		WATER BASED	
1762	1.67	35.0		WATER BASED	
2039	1.02			DUMMY	
2218	1.67	37.0		WATER BASED	
2300	1.67	38.0		WATER BASED	
2364	1.70	53.0		DUMMY	
2732	1.70	64.0		OIL BASED	
3183	1.71	48.0		OIL BASED	
3223	1.71	47.0		OIL BASED	
3246	1.70	49.0		OIL BASED	
3361	1.71	51.0		OIL BASED	
3386	1.71	41.0		OIL BASED	
3411	1.71	46.0		OIL BASED	

3750	1.71	43.0		OIL BASED	