



Generell informasjon

Brønnbane navn	2/4-9
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	ALBUSKJELL
Funn	1/6-1 Albuskjell
Brønn navn	2/4-9
Seismisk lokalisering	LINE P 60/30515 SP.1121
Utvinningstillatelse	018
Boreoperatør	Phillips Petroleum Company Norway
Boretillatelse	91-L
Boreinnretning	ZAPATA EXPLORER
Boredager	58
Borestart	13.08.1973
Boreslutt	09.10.1973
Frigitt dato	09.10.1975
Publiseringsdato	02.04.2007
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	TOR FM
Avstand, boredekk - midlere havflate [m]	35.0
Vanndybde ved midlere havflate [m]	69.0
Totalt målt dybde (MD) [m RKB]	3752.0
Temperatur ved bunn av brønnbanen [°C]	106
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	HOD FM
Geodetisk datum	ED50
NS grader	56° 36' 22.2" N
ØV grader	3° 5' 8.5" E
NS UTM [m]	6273690.65
ØV UTM [m]	505260.88



UTM sone	31
NPDID for brønnbanen	253

Brønnhistorie**General**

Wildcat well 2/4-9 was drilled on the southeast flank of the Albuskjell structure, 6 km southeast of the Shell 1/6-1 well, which was drilled on the saddle in the middle of the structure. The Danian Limestone was the expected pay zone, and if porosity was present, the Late Cretaceous Limestone was also expected to be hydrocarbon bearing. Planned TD was 3810 m (12500 ft).

Operations and results

Well 2/4-9 was spudded with the jack-up installation Zapata Explorer on 13 August 1973 and drilled to TD at 3752 m in the Late Cretaceous Hod Formation. The well was drilled and tested in 58 days, without significant technical problems. Deviation surveys were carried out down to 2448 m and the maximum deviation to this depth was 1.25 deg.

The Danian limestone was encountered at 3214 m and the Late Cretaceous limestone at 3306 m. The Late Cretaceous limestone yielded commercial oil and gas on two drill stem tests while the Danian limestone yielded no commercial hydrocarbons.

No cores were cut and no wire line fluid samples taken.

The well was permanently abandoned on 9 October 1973 as a gas and condensate appraisal.

Testing

Four DST's were carried out in the chalk, DST 1 and 2 in the Late Cretaceous and DST 3 and 4 in the Danian. The results here are after acidizing: DST 1 from 3360 - 3368 m flowed 121 Sm³ oil and 97700 Sm³ gas /day through a 96/64" choke. The oil gravity was 43 deg API and the GOR was 801 Sm³/Sm³. DST 2 from 3308 to 3359 m and 3360 to 3368 m flowed 461 Sm³ oil and 455900 Sm³ gas /day through chokes 20/64" + 24/64". The oil gravity was 44 deg API and the GOR was 977 Sm³/Sm³. DST 3 from 3274 - 3283 m and DST 4 from 3222 - 3225 flowed only small amounts of water with traces of oil.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
496.82	3753.61

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

Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
104	NORDLAND GP
3021	ROGALAND GP
3021	BALDER FM
3037	SELE FM
3042	LISTA FM
3092	VIDAR FM
3118	LISTA FM
3197	VÅLE FM
3215	SHETLAND GP
3215	EKOFISK FM
3306	TOR FM
3647	HOD FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
253 1	pdf	0.16
253 2	pdf	0.97

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
253 01 WDSS General Information	pdf	0.26

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
253 01 2 4 9 (9X) Well Completion Report and Completion log	pdf	13.69
253 03 2 4 9 (9X) Additional Biostratigraphic Analysis	pdf	0.15
253 03 2 4 9 (9X) Biostratigraphy of the Interval 5110 1 2315ft	pdf	3.60





253 03 2 4 9 (9X) Geochemical Characterization of DST Samples	pdf	1.89
253 05 2 4 9 (9X) Individual Well Production Test	pdf	9.65

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	3360	3369	38.0
2.0	3308	3369	9.1
3.0	3274	3283	0.0
4.0	3222	3224	0.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				
2.0				
3.0				
4.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0	121	97700	0.802		801
2.0	461	455900	0.802		977
3.0					
4.0					

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC	315	1228
BHC-C	1222	3752
CBL	2438	3383
CDM	2896	3706
CDM AP	2896	3706





CDM PP	2896	3706
FDC	3078	3706
GR	104	315
IES	315	3752
PML	3078	3706
SNP	3078	3706
VELOCITY	109	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	177.0	36	178.0	0.00	LOT
SURF.COND.	20	487.0	26	488.0	0.00	LOT
SURF.COND.	13 3/8	1219.0	17 1/2	1219.0	0.00	LOT
INTERM.	9 5/8	2438.0	12 1/4	2438.0	0.00	LOT
LINER	7	3752.0	8 1/2	3752.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
173	1.07			seawater	
487	1.08	50.0		seawater	
1219	1.31	55.0		seawa/ben	
2438	1.49	55.0		seawa/ben	
3752	1.71	55.0		barite	