



Generell informasjon

Brønnbane navn	34/8-7
Type	EXPLORATION
Formål	WILDCAT
Status	SUSPENDED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	34/8-7
Brønn navn	34/8-7
Seismisk lokalisering	NH 9001- REKKE 809 & KOLONNE 1200
Utvinningstillatelse	120
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	725-L
Boreinnretning	POLAR PIONEER
Boredager	118
Borestart	21.03.1992
Boreslutt	16.07.1992
Frigitt dato	16.07.1994
Publiseringsdato	24.09.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	COOK FM
3. nivå med hydrokarboner, alder	EARLY JURASSIC
3. nivå med hydrokarboner, formasjon	STATFJORD GP
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	335.0
Totalt målt dybde (MD) [m RKB]	5460.0
Totalt vertikalt dybde (TVD) [m RKB]	5441.4
Maks inklinasjon [°]	12.8
Temperatur ved bunn av brønnbanen [°C]	181



Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	LUNDE FM
Geodetisk datum	ED50
NS grader	61° 19' 9.07" N
ØV grader	2° 33' 32.15" E
NS UTM [m]	6798582.22
ØV UTM [m]	476383.07
UTM sone	31
NPDID for brønnbanen	1941

Brønnhistorie

**General**

Well 34/8-7 is located on the western flank of the Tampen Spur and is situated approximately 7.4 kilometres due east of well 34/8-4S, in the Visund prospect. This was the third exploration well to be drilled in the licence area. The primary objective of well 34/8-7 was to test the Jurassic Brent Group and Statfjord Formation in the hanging wall of the Visund Fault. The secondary objectives were to establish a good seismic to well correlation and to fulfil licence obligations.

Operations and results

Exploration well 34/8-7 was spudded with the semi-submersible rig "Polar Pioneer" on 21 March 1992 and drilled to TD at 5460 m in the Triassic Hegre Group. The well was drilled with spud mud down to 1444 m and with KCl/PHPA/Polymer mud from 1444 m to 3288 m. From 3288 m the mud system was gradually changed to a HTHP (high temperature stable polymers) mud. Still, towards TD of the well it was evident that some of the chemical/polymers was decomposing and forming carbonates.

Conglomeratic density flow deposits (Intra Draupne Formation sandstone) were found in the upper part of the Draupne Formation. From a gross thickness of 134.5m, 5.75m of net sand were identified of which 5.25m were regarded as net pay. An average porosity value 9.4% and average Sw of 50.1% were computed for the pay section. A core cut in the Intra Draupne sandstone gave 5.2 % core porosity on average.

The primary objective Brent Group was encountered at 4632.5 m. The entire Brent Group was interpreted as being gas bearing. From a gross thickness of 134.5m, 36.5m of net sand were recognised with 36.5m of net pay. An average porosity of 9.8% and average Sw of 30.4% were determined. A core cut in the Brent Group, gave an average porosity of 9.9 %. The sandy member of Cook Formation was found to be gas bearing, but poor reservoir properties reduced the net pay to only 2.0 m with an average porosity of 8.3 % and average Sw of 36.1 %.

No net pay was identified in the Amundsen sand.

The Statfjord Formation came in at 5118 m. It was 88.5 m thick of which 22.5 m was net sand and 18.75 m was identified as net gas bearing pay. Cores cut in the Statfjord Formation gave an average core porosity of 7.1 % porosity.

A total of five cores were cut in isolated intervals throughout the well. Core number 1 was cut in the Intra Draupne Sandstone, core number 2 was cut in the Tarbert and Ness Formations, cores number 3 and 4 were cut in the Statfjord Formation, while core number 5 was cut in the Hegre Group. Attempts to take RFT pre-test in the Draupne equivalent conglomerate proved to be unsuccessful due to the tight nature of the Formation. Because of hole washouts and high down hole temperature and pressure anomalies, no RFT pressure measurements could be obtained in the Brent Group and Statfjord Formations.

After running the liner as part of preparing for drill stem testing, "Polar Pioneer" had to be released for other purposes. The well was therefore suspended on 16 July 1992 with the provision that testing of the reservoir zones would be performed at a later date. The well was re-entered (34/8-7 R) with the semi-submersible installation "Polar Pioneer" on 19 November 1992 for testing. It was permanently abandoned as a gas discovery on 10 February 1993.

Testing

Well 34/8-7 R was tested in two intervals. In Test 1 in the Statfjord Formation (5117.8 m ? 5210.0 m) no production was achieved. Test 2 in the Brent Group (4671.7 m ? 4731.0 m) produced gas.

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Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1450.00	5460.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4471.0	4491.4	[m]
2	4654.0	4656.8	[m]
3	5118.0	5118.3	[m]
4	5127.0	5132.3	[m]
5	5422.0	5429.9	[m]

Total kjerneprøve lengde [m]	36.6
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



4471-4476m



4476-4481m



4481-4486m



4486-4491m



4491-4491m



4648-4653m



4653-4656m



5118-5129m



5129-5132m



5422-5427m



5427-5429m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2694.0	[m]	SWC	HYDRO
3470.5	[m]	SWC	HYDRO
3484.0	[m]	SWC	HYDRO
3492.5	[m]	SWC	HYDRO
3506.0	[m]	SWC	HYDRO
3538.0	[m]	SWC	HYDRO
3549.5	[m]	SWC	HYDRO
3565.5	[m]	SWC	HYDRO
3580.0	[m]	SWC	HYDRO
3597.0	[m]	SWC	HYDRO
3608.0	[m]	SWC	HYDRO
3625.0	[m]	SWC	HYDRO
3646.0	[m]	SWC	HYDRO
3660.0	[m]	SWC	HYDRO
3670.0	[m]	SWC	HYDRO
3685.0	[m]	SWC	HYDRO
3709.0	[m]	SWC	HYDRO
3740.0	[m]	SWC	HYDRO
3754.5	[m]	SWC	HYDRO
3763.0	[m]	SWC	HYDRO
3777.0	[m]	SWC	HYDRO
3794.0	[m]	SWC	HYDRO
3800.0	[m]	SWC	HYDRO
3841.5	[m]	SWC	HYDRO
3855.0	[m]	SWC	HYDRO
3986.0	[m]	SWC	HYDRO
4013.0	[m]	SWC	HYDRO
4043.0	[m]	SWC	HYDRO
4155.0	[m]	SWC	HYDRO



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 29.5.2024 - 21:19

4207.0 [m]	SWC	HYDRO
4227.0 [m]	SWC	HYDRO
4261.0 [m]	SWC	HYDRO
4278.0 [m]	SWC	HYDRO
4322.0 [m]	SWC	HYDRO
4337.0 [m]	SWC	HYDRO
4352.0 [m]	SWC	HYDRO
4379.0 [m]	SWC	HYDRO
4396.0 [m]	SWC	HYDRO
4402.0 [m]	SWC	HYDRO
4457.0 [m]	SWC	HYDRO
4471.5 [m]	C	HYDRO
4474.3 [m]	C	HYDRO
4476.0 [m]	C	OD
4476.5 [m]	C	HYDRO
4478.0 [m]	C	HYDRO
4478.0 [m]	C	OD
4479.0 [m]	C	HYDRO
4481.5 [m]	C	HYDRO
4482.5 [m]	C	HYDRO
4485.1 [m]	C	HYDRO
4486.0 [m]	C	OD
4487.6 [m]	C	HYDRO
4490.0 [m]	C	HYDRO
4490.0 [m]	C	OD
4522.5 [m]	SWC	HYDRO
4574.0 [m]	SWC	HYDRO
4645.8 [m]	C	HYDRO
4649.8 [m]	C	HYDRO
4652.0 [m]	C	OD
4652.1 [m]	C	HYDRO
4654.0 [m]	C	OD
4656.0 [m]	C	OD
4656.8 [m]	C	OD
4850.0 [m]	DC	OD
4900.0 [m]	DC	OD
4950.0 [m]	DC	OD
5000.0 [m]	DC	OD
5050.0 [m]	DC	OD
5100.0 [m]	DC	OD



5118.2	[m]	C	HYDRO
5127.7	[m]	C	HYDRO
5132.2	[m]	C	OD
5132.2	[m]	C	HYDRO
5150.0	[m]	DC	OD
5200.0	[m]	DC	OD
5231.0	[m]	DC	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
358	NORDLAND GP
1071	UTSIRA FM
1095	UNDIFFERENTIATED
1160	HORDALAND GP
1406	NO FORMAL NAME
1413	NO FORMAL NAME
1630	NO FORMAL NAME
1654	NO FORMAL NAME
1875	ROGALAND GP
1875	BALDER FM
1928	LISTA FM
2022	HEIMDAL FM
2037	LISTA FM
2081	SHETLAND GP
2081	JORSALFARE FM
2320	KYRRE FM
3260	TRYGGVASON FM
3826	SVARTE FM
4034	CROMER KNOLL GP
4034	RØDBY FM
4298	SOLA FM
4374	ÅSGARD FM
4466	VIKING GP
4466	INTRA DRAUPNE FM SS
4584	DRAUPNE FM
4595	HEATHER FM
4633	BRENT GP
4633	TARBERT FM



4655	NESS FM
4699	ETIVE FM
4714	RANNOCH FM
4764	BROOM FM
4767	DUNLIN GP
4767	DRAKE FM
4808	COOK FM
4953	BURTON FM
4970	AMUNDSEN FM
5086	NO FORMAL NAME
5106	NO FORMAL NAME
5118	STATFJORD GP
5208	HEGRE GP
5208	LUNDE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1941	pdf	0.71

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1941_1	pdf	1.93
1941_2	pdf	0.36

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1941_01_WDSS_General_Information	pdf	0.69
1941_02_WDSS_completion_log	pdf	0.30

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
1941 34 8 7 COMPLETION REPORT AND LOG	pdf	17.95

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CST GR	3470	3855
CST GR	3986	4866
DIL LSS GR SP AMS	4813	5236
DIL LSS LDL CNL NGT SP AMS	3210	3855
DIL LSS LDL CNL NGT SP AMS	3949	4900
DIL LSS SP GR AMS	1436	3285
DLL GR AMS	4300	4898
DLL MSFL CAL GR AMS	5168	5467
DLL MSFL GR AMS	4810	5224
FMS-4 CAL GR AMS	5250	5463
FMS-4 GR	4783	5232
FMS-4 GR AMS	3949	4900
LDL CNL CAL GR AMS	5166	5438
LDL CNL NGT AMS	4823	5225
MSFL GR AMS	4300	4893
MSFL GR AMS	4300	4893
MWD - GR RES DIR	368	4769
RFT GR AMS	4398	4828
RFT GR AMS	4466	4840
RFT GR AMS	4699	5141
VSP	3300	5220

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	444.5	36	446.0	0.00	LOT
INTERM.	18 5/8	1436.0	26	1438.0	1.65	LOT
INTERM.	13 3/8	3264.0	17 1/2	3270.0	1.89	LOT
INTERM.	9 5/8	3945.0	12 1/4	3947.0	2.00	LOT
LINER	7	5460.0	8 1/2	5460.0	0.00	LOT





Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
445	1.20	11.0		WATER BASED	
506	1.08	27.0		WATER BASED	
1065	1.08	25.0		WATER BASED	
1441	1.08	26.0		WATER BASED	
1750	1.39	23.0		WATER BASED	
2151	1.39	27.0		WATER BASED	
2349	1.39	26.0		WATER BASED	
2483	1.39	25.0		WATER BASED	
2553	1.39	26.0		WATER BASED	
2556	1.39	25.0		WATER BASED	
2664	1.39	26.0		WATER BASED	
2766	1.39	27.0		WATER BASED	
2792	1.39	27.0		WATER BASED	
2800	1.39	27.0		WATER BASED	
2888	1.39	27.0		WATER BASED	
2955	1.39	27.0		WATER BASED	
3009	1.40	26.0		WATER BASED	
3060	1.39	27.0		WATER BASED	
3133	1.39	27.0		WATER BASED	
3153	1.39	27.0		WATER BASED	
3261	1.39	25.0		WATER BASED	
3288	1.39	28.0		WATER BASED	
3332	1.39	25.0		WATER BASED	
3376	1.39	25.0		WATER BASED	
3453	1.39	17.0		WATER BASED	
3533	1.39	19.0		WATER BASED	
3562	1.39	22.0		WATER BASED	
3636	1.39	19.0		WATER BASED	
3712	1.39	18.0		WATER BASED	
3724	1.39	18.0		WATER BASED	
3763	1.39	18.0		WATER BASED	
3839	1.39	21.0		WATER BASED	
3923	1.39	20.0		WATER BASED	
3961	1.39	16.0		WATER BASED	



3961	1.39	21.0		WATER BASED	
4006	1.39	18.0		WATER BASED	
4180	1.39	21.0		WATER BASED	
4337	1.50	25.0		WATER BASED	
4446	1.50	22.0		WATER BASED	
4471	1.62	25.0		WATER BASED	
4474	1.62	26.0		WATER BASED	
4492	1.62	26.0		WATER BASED	
4518	1.65	24.0		WATER BASED	
4568	1.70	22.0		WATER BASED	
4580	1.76	28.0		WATER BASED	
4589	1.76	25.0		WATER BASED	
4605	1.82	22.0		WATER BASED	
4648	1.82	23.0		WATER BASED	
4657	1.82	23.0		WATER BASED	
4725	1.82	18.0		WATER BASED	
4766	1.82	25.0		WATER BASED	
4900	1.82	15.0		WATER BASED	
4947	1.82	16.0		WATER BASED	
4961	1.82	17.0		WATER BASED	
5005	1.82	19.0		WATER BASED	
5041	1.82	24.0		WATER BASED	
5092	1.82	26.0		WATER BASED	
5112	1.82	20.0		WATER BASED	
5127	1.82	22.0		WATER BASED	
5133	1.82	28.0		WATER BASED	
5169	1.82	27.0		WATER BASED	
5227	1.82	25.0		WATER BASED	
5231	1.82	28.0		WATER BASED	
5250	1.82	28.0		WATER BASED	
5302	1.82	30.0		WATER BASED	
5319	1.82	28.0		WATER BASED	
5370	1.82	26.0		WATER BASED	
5403	1.82	27.0		WATER BASED	
5422	1.82	26.0		WATER BASED	
5431	1.82	22.0		WATER BASED	
5460	1.82	20.0		WATER BASED	



Dybde	Enhet
4471.13	[m]
4479.50	[m]
4483.73	[m]
4486.46	[m]
4489.06	[m]
4489.36	[m]
4648.40	[m]
4653.27	[m]
4655.90	[m]
5130.96	[m]
5422.54	[m]
5423.86	[m]
5427.53	[m]
5129.60	[m]
5118.20	[m]
4825.30	[m]
4817.20	[m]