

**General information**

Wellbore name	7229/11-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	BARENTS SEA
Well name	7229/11-1
Seismic location	SH 9102-INLINE 539 & CROSSLINE 525
Production licence	183
Drilling operator	A/S Norske Shell
Drill permit	767-L
Drilling facility	ROSS RIG (2)
Drilling days	129
Entered date	09.08.1993
Completed date	15.12.1993
Release date	15.12.1995
Publication date	11.04.2003
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	24.0
Water depth [m]	284.0
Total depth (MD) [m RKB]	4630.0
Final vertical depth (TVD) [m RKB]	4627.7
Maximum inclination [°]	4.05
Bottom hole temperature [°C]	140
Oldest penetrated age	LATE CARBONIFEROUS
Oldest penetrated formation	ØRN FM
Geodetic datum	ED50
NS degrees	72° 12' 57.24" N
EW degrees	29° 38' 29.75" E
NS UTM [m]	8015210.03
EW UTM [m]	590031.99
UTM zone	35
NPDID wellbore	1643



Wellbore history

General

Well 7229/11-1 was the first well drilled in Production Licence 183 following the interpretation of a 3D seismic survey acquired in 1991. The well is situated on the northeastern part of the Finnmark Platform. The target of the well was the "Castor" prospect, consisting of two Permian-Carboniferous (Sakmarian to Asselian age) carbonate build-ups confined in combined dip-closed and stratigraphic traps. The objectives were to test the hydrocarbon potential of the carbonate build-ups, referred to as Carbonate 1 and Carbonate 2 respectively, to acquire additional information on the Permian-Carboniferous of the Finnmark Platform, and to calibrate the seismic expression of the build-ups.

Operations and results

Exploration well was spudded with the semi-submersible installation "Ross Rig" on 9 August 1993 and drilled to a total depth of 4630 m in limestone of Middle - Lower Carboniferous age. The well was drilled with sea water and hi-vis pre-hydrated bentonite pills down to 1098 m, with KCl / polymer mud from 1098 m to 3012 m, and with a high-temperature KCl / Polymer mud from 3012 m to TD. The soft seabed did not present anchoring problems. No shallow gas was encountered. Drilling problems were experienced in the interval 339 m & 379 m. A seismic marker (black loop) corresponds to the top of this interval, which is interpreted as a boulder rich sequence. Drilling problems could have been due to boulders to fall into the hole and become wedged, thus causing sticking. The predicted carbonate build-up targets were encountered but were not reservoir facies. Carbonate 1 was confirmed to be build-up / build-up flank facies; Carbonate 2 was found to be carbonate platform facies. No hydrocarbon shows were encountered in the well. Nine cores totalling 180.9 metres length were successfully cut and retrieved from the Permian-Carboniferous. No hydrocarbon shows were encountered in the well. The well was plugged and abandoned as a dry hole on 15 December 1993.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1100.00	4629.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	4088.0	4096.0	[m]
2	4097.5	4104.5	[m]



3	4130.5	4158.3	[m]
4	4158.5	4182.7	[m]
5	4183.0	4211.6	[m]
6	4211.7	4240.0	[m]
7	4240.3	4268.8	[m]
8	4269.0	4276.0	[m]
9	4373.0	4394.1	[m]

Total core sample length [m]	180.5
Cores available for sampling?	YES

Core photos



4088-4092m



4092-4096m



4097-4101m



4101-4104m



4131-4134m



4134-4138m



4138-4142m



4142-4146m



4146-4150m



4150-4154m



4154-4158m



4158-4159m



4158-4162m



4162-4166m



4166-4170m



4170-4174m



4174-4178m



4178-4182m



4182-4183m



4183-4187m



4187-4191m



4191-4195m



4191-4195m



4195-4199m



4199-4203m



4203-4207m



4207-4211m



4211-4212m



4212-4215m



4215-4219m



4219-4223m



4223-4227m



4227-4231m



4231-4235m



4235-4239m



4239-4240m



4240-4244m



4244-4248m



4248-4252m



4252-4256m



4256-4260m



4260-4264m



4264-4268m



4268-4269m



4269-4273m



4273-4276m



4373-4377m



4377-4381m



4381-4385m



4385-4389m



4389-4393m



4393-4394m

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
307	NORDLAND GP
379	ADVENTDALEN GP
379	KOLMULE FM
1200	KNURR FM
1212	HEKKINGEN FM
1267	FUGLEN FM
1270	KAPP TOSCANA GP
1270	STØ FM
1278	NORDMELA FM
1323	FRUHOLMEN FM
1453	SNADD FM
1843	SASSEDALEN GP
1843	KOBBE FM
2353	KLAPPMYSS FM
2804	HAVERT FM
3879	TEMPELFJORDEN GP
3879	ØRRET FM
3901	RØYE FM
3970	BJARMELAND GP
3970	ISBJØRN FM
4046	POLARREV FM
4282	GIPSDALEN GP
4282	ØRN FM

Composite logs





Document name	Document format	Document size [MB]
1643	pdf	0.78

Geochemical information

Document name	Document format	Document size [MB]
1643_1	pdf	1.72
1643_2	pdf	1.39

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
1643 7229 11 1 COMPLETION LOG	pdf	4.51
1643 7229 11 1 COMPLETION REPORT	pdf	49.03

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST	1186	2989
CST GR	3048	3898
DLL MSFL AS CNL LDL SP GR	1085	3012
DLL MSFL BHC CNL LDL SP GR	3002	4332
DLL MSFL BHC CNL LDL SP NGT GR	4200	4640
FMI GR	3950	4335
FMI GR	4250	4640
LWD - CDR CDN AC CAL	3950	4278
MSCT GR	3890	4586
MSCT GR	3909	4613
MWD - CDR CDN	308	1098
MWD - GR SN	1085	4336
MWD - GR SN	4336	4630
RFT	1879	1882
VSP	905	4630



**Casing and leak-off tests**

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	380.0	36	380.0	0.00	LOT
SURF.COND.	20	1085.0	26	1085.0	0.00	LOT
INTERM.	14	3000.0	17 1/2	3000.0	0.00	LOT
OPEN HOLE		4630.0	12 1/4	4630.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
340	1.25	42.0		WATER BASED	
920	1.28	42.0		WATER BASED	
1045	1.28	52.0		WATER BASED	
1098	1.18	75.0		WATER BASED	
1168	1.18	55.0		WATER BASED	
1470	1.18	51.0		WATER BASED	
1522	1.21	48.0		WATER BASED	
1610	1.18	47.0		WATER BASED	
1762	1.18	47.0		WATER BASED	
1844	1.22	43.0		WATER BASED	
1920	1.18	46.0		WATER BASED	
1940	1.21	45.0		WATER BASED	
2057	1.21	46.0		WATER BASED	
2176	1.21	48.0		WATER BASED	
2255	1.21	53.0		WATER BASED	
2300	1.27	67.0		WATER BASED	
2317	1.21	57.0		WATER BASED	
2327	1.21	54.0		WATER BASED	
2500	1.21	48.0		WATER BASED	
2641	1.20	46.0		WATER BASED	
2711	1.21	46.0		WATER BASED	
2750	1.21	45.0		WATER BASED	
2761	1.21	45.0		WATER BASED	
2780	1.21	45.0		WATER BASED	
2802	1.21	45.0		WATER BASED	
2830	1.35	65.0		WATER BASED	
2844	1.21	46.0		WATER BASED	



2850	1.36	67.0		WATER BASED	
2854	1.21	45.0		WATER BASED	
2859	1.21	48.0		WATER BASED	
2939	1.21	48.0		WATER BASED	
2980	1.34	56.0		WATER BASED	
3004	1.21	48.0		WATER BASED	
3012	1.21	50.0		WATER BASED	
3086	1.20	53.0		WATER BASED	
3151	1.21	54.0		WATER BASED	
3183	1.21	54.0		WATER BASED	
3254	1.21	53.0		WATER BASED	
3271	1.21	51.0		WATER BASED	
3302	1.21	48.0		WATER BASED	
3355	1.21	48.0		WATER BASED	
3417	1.21	46.0		WATER BASED	
3456	1.21	49.0		WATER BASED	
3506	1.21	47.0		WATER BASED	
3646	1.21	44.0		WATER BASED	
3700	1.21	46.0		WATER BASED	
3742	1.21	45.0		WATER BASED	
3798	1.21	45.0		WATER BASED	
3811	1.21	43.0		WATER BASED	
3818	1.21	45.0		WATER BASED	
3820	1.21	45.0		WATER BASED	
3906	1.23	44.0		WATER BASED	
3922	1.23	45.0		WATER BASED	
3942	1.23	45.0		WATER BASED	
3957	1.24	446.0		WATER BASED	
3984	1.23	50.0		WATER BASED	
4088	1.23	45.0		WATER BASED	
4097	1.23	46.0		WATER BASED	
4125	1.23	48.0		WATER BASED	
4130	1.23	44.0		WATER BASED	
4158	1.23	43.0		WATER BASED	
4183	1.23	49.0		WATER BASED	
4211	1.23	46.0		WATER BASED	
4240	1.23	48.0		WATER BASED	
4268	1.23	45.0		WATER BASED	
4275	1.23	47.0		WATER BASED	
4278	1.23	45.0		WATER BASED	



4279	1.23	48.0		WATER BASED	
4307	1.23	48.0		WATER BASED	
4345	1.24	44.0		WATER BASED	
4366	1.33	47.0		WATER BASED	
4373	1.33	46.0		WATER BASED	
4422	1.33	47.0		WATER BASED	
4559	1.33	49.0		WATER BASED	
4612	1.34	54.0		WATER BASED	
4630	1.34	57.0		WATER BASED	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
4380.02	[m]
4377.02	[m]
4374.02	[m]
4275.96	[m]
4275.11	[m]
4275.02	[m]
4271.85	[m]
4267.60	[m]