

**General information**

Wellbore name	2/7-20
Type	EXPLORATION
Purpose	WILDCAT
Status	SUSPENDED
Factmaps in new window	link to map
Main area	NORTH SEA
Field	EMBLA
Discovery	2/7-20 Embla
Well name	2/7-20
Seismic location	NS 210 SP. 720
Production licence	018
Drilling operator	Phillips Petroleum Company Norway
Drill permit	566-L
Drilling facility	DYVI STENA
Drilling days	255
Entered date	15.10.1987
Completed date	25.06.1988
Release date	25.06.1990
Publication date	10.10.2012
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	DEVONIAN
1st level with HC, formation	NO GROUP DEFINED
Kelly bushing elevation [m]	25.0
Water depth [m]	70.8
Total depth (MD) [m RKB]	4509.0
Final vertical depth (TVD) [m RKB]	4508.0
Maximum inclination [°]	5.2
Bottom hole temperature [°C]	167
Oldest penetrated age	DEVONIAN
Oldest penetrated formation	NO GROUP DEFINED
Geodetic datum	ED50
NS degrees	56° 20' 0.1" N
EW degrees	3° 14' 54.7" E
NS UTM [m]	6243349.04
EW UTM [m]	515367.19



UTM zone	31
NPDID wellbore	1062

Wellbore history

General

Well 2/7-20 was drilled on the "South Eldfisk structure", later called Embla. The 2/7-9 well, drilled in 1973, tested oil at uneconomic rates from a thick pre-Late Jurassic sand sequence on this structure. Well 2/7-9 established a 111 m pay section with average porosity of 13% and 55% oil saturation. A clear OWC was found at 4387 m MSL. Following a 1986 re-evaluation of the test it was concluded that the poor test results might have been due to mechanical problems. Subsequently the 2/7-20 well was spudded to test the previously encountered sandstones. The objectives of the well were to test "economic" flow rates from sands on the South Eldfisk structure below the Late Jurassic shales of the Mandal Formation. At the time of drilling the cost of a subsea completion had been estimated to be US\$ 12 million which meant that flow rates in excess of 286 m³ oil/day were considered economic. Well 2/7-20 was placed on a separate and higher fault block in the structure than the one drilled by 2/7-9.

Operations and results

Wildcat well 2/7-20 was spudded with the semi-submersible installation Dyvi Stena on 15 October 1987. The well was re-spudded three times because of collapsed hole problems. After drilling riserless to 608 m the lower part of the hole collapsed after encountering a gas sand that resulted in the loss of drill pipe. The well was sidetracked at 234 m, and 13 3/8" casing was set above the Eocene at 2439 m. A drilling break was encountered at 4084 m. After drilling a further 2 m, 100% sands with good shows were circulated up. High pressures together with the long section of open hole necessitated plugging back and sidetracking immediately below the 13 3/8" casing shoe. No logs were run at TD in this hole before plugging back. Drilling the sidetrack was difficult due to high pressures and gas and the coring programme above 7" casing at 4278.8 m was abandoned due to problems with balancing the well. The sidetrack was drilled to TD at 4510 m in pre-Late Jurassic sandstones that were later dated to a Devonian age.

The reservoir section in the 2/7-20, the Devonian sands, was encountered at 4061 m; 217 m higher than in 2/7-9 due to faulting. This resulted in a higher average oil saturation of 81% and might have contributed to a somewhat higher average porosity of 15%.

Detailed organic geochemical analyses found migrated live oil in the Ekofisk Formation, the Hod Formation, the Nordland/Hordaland Group formations and in the Devonian sands below 4097 m. This oil is similar in composition to oil from the surrounding Chalk fields. A biodegraded oil component was found in the Early Cretaceous and the sands from 4095 m to 4269 m. A highly mature bitumen was also found in the Lower Sands from 4397 m to 4508.6 in addition to the above mentioned live oil and biodegraded phases. This bitumen appears to reflect an early phase of migration from a different source.

One core was cut from 3070.9 m to 3080 m in the Ekofisk Formation with 100% recovery. Three further cores were cut in the Devonian sands with 100% recovery: Core 2 from 4395.5 to 4400.4 m; Core 3 from 4400.4 to 4409.5 m; and Core 4 from 4491.2 to 4509.5 m. RFT measurements showed good permeability. No wire line fluid samples were taken.

The well was suspended on 25 June 1988 as an oil discovery.



Testing

One DST test was performed in the interval 4099.6 to 4258.1 m. Seven zones were perforated and tested at the same time.

The test produced 599 Sm3 oil and 225000 Sm3 gas /day through a 24/64" with a drawdown of over 13 MPa. The GOR in this flow was 375 Sm3/Sm3, the oil density was 0.813 g/cm3, and the gas gravity was 0.81 (air = 1). A CO2 content of 3.5% was reported. The maximum temperature measured at 4178.8 m was 160.6 deg C.

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Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1164.00	4852.00

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

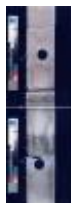
Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	10075.0	10105.0	[ft]
2	14421.0	14437.7	[ft]
3	14437.7	14469.4	[ft]
4	14735.0	14792.0	[ft]

Total core sample length [m]	41.3
Cores available for sampling?	YES

Core photos



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



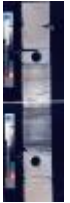
10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



10075-10105ft



14421-14437ft



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14437-14469ft



14437-14469ft



14437-14469ft



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14437-14469ft



14437-14469ft



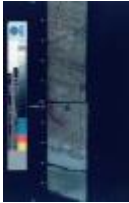
14437-14469ft



14437-14469ft



14437-14469ft



14437-14469ft



14437-14469ft



14437-14469ft



14437-14469ft



14437-14469ft



14735-14792ft



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14735-14792ft



14735-14792ft

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
13360.0	[ft]	DC	OD
13400.0	[ft]	DC	OD
14425.8	[ft]	C	OD
14426.1	[ft]	C	OD
14430.1	[ft]	C	OD
14442.8	[ft]	C	OD
14451.6	[ft]	C	OD
14463.0	[ft]	C	OD
14466.4	[ft]	C	OD
14745.6	[ft]	C	OD
14751.1	[ft]	C	OD
14758.6	[ft]	C	OD
14766.6	[ft]	C	OD
14782.8	[ft]	C	OD
14789.4	[ft]	C	OD

**Oil samples at the Norwegian Offshore Directorate**

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
DST	DST 1	4099.50	4258.00		07.06.1988 - 00:00	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
96	NORDLAND GP
1602	HORDALAND GP
2936	ROGALAND GP
2936	BALDER FM
2951	SELE FM
3001	LISTA FM
3054	VÅLE FM
3066	SHETLAND GP
3066	EKOFISK FM
3146	TOR FM
3439	HOD FM
3899	BLODØKS FM
3906	HIDRA FM
3965	CROMER KNOLL GP
3965	RØDBY FM
4060	TYNE GP
4060	MANDAL FM
4061	UNDEFINED GP

Geochemical information

Document name	Document format	Document size [MB]
1062_GCH_1	pdf	0.66
1062_GCH_2	pdf	2.58
1062_GCH_3	pdf	12.15
1062_GCH_4	pdf	3.29
1062_GCH_5	pdf	1.19





Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

Document name	Document format	Document size [MB]
1062_01_WDSS_General_Information	pdf	0.27
1062_02_WDSS_completion_log	pdf	0.28

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

Document name	Document format	Document size [MB]
1062_2_7_20_Completion_log	pdf	3.80
1062_2_7_20_Completion_report	pdf	29.59

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	4099	4258	9.5

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0	566	223000			365

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CNL SLS GR	2439	3817
CST GR	3810	4284
CST GR	4280	4510
DIL MSFL SLS GR	1067	0
DIL SLS GR	3810	4510





DLL MAFL GR	2439	3810
FMS GR	2439	3810
LDL CNL GR	4280	4513
LDL CNL NGL	1493	3817
LDL CNL NGL	3810	4285
OBDT GR	3810	4285
OBDT GR	4280	4511
RFT GR	3810	4285
RFT GR	4280	4511
WSC	1067	4510

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	172.0	36	174.0	0.00	LOT
SURF.COND.	20	1069.0	26	1074.0	2.03	LOT
INTERM.	13 3/8	2439.0	17 1/2	2448.0	2.01	LOT
INTERM.	9 5/8	3800.0	12 1/4	3819.0	2.16	LOT
LINER	7	4278.0	8 1/2	4284.0	2.22	LOT
OPEN HOLE		4512.0	5 7/8	4512.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
4	1.80	15.0	9.6	WATER BASED	16.02.1988
26	2.04	23.0	10.1	OIL BASED	16.03.1988
132	1.03			WATER BASED	22.10.1987
147	1.04			WATER BASED	22.10.1987
166	1.02			WATER BASED	20.10.1987
173	1.03			WATER BASED	22.10.1987
184	1.02			WATER BASED	20.10.1987
253	1.04	10.0	25.9	WATER BASED	27.10.1987
292	1.04	10.0	26.8	WATER BASED	27.10.1987
351	0.00			WATER BASED	27.06.1988
354	0.00			WATER BASED	27.06.1988
392	1.04	12.0	30.2	WATER BASED	23.10.1987
593	1.04	12.0	32.6	WATER BASED	27.10.1987



608	1.04	17.0	35.4	WATER BASED	26.10.1987
834	1.04	17.0	36.4	WATER BASED	27.10.1987
1074	1.04			WATER BASED	28.10.1987
1074	1.04			WATER BASED	29.10.1987
1074	1.04			WATER BASED	30.10.1987
1074	1.10			WATER BASED	03.11.1987
1074	1.23	19.0	5.7	WATER BASED	03.11.1987
1074	1.32	13.0	6.2	WATER BASED	03.11.1987
1157	1.32	14.0	7.2	WATER BASED	03.11.1987
1373	1.33	18.0	9.1	WATER BASED	04.11.1987
1498	1.43	15.0	8.6	WATER BASED	05.11.1987
1614	1.51	14.0	7.2	WATER BASED	06.11.1987
1799	1.58	17.0	7.7	WATER BASED	10.11.1987
1841	2.11	45.0	16.8	OIL BASED	27.06.1988
1937	2.12	66.0	14.4	WATER BASED	18.10.1991
1983	1.65	16.0	9.6	WATER BASED	10.11.1987
2116	1.65	18.0	7.7	WATER BASED	10.11.1987
2149	1.85	18.0	5.3	WATER BASED	19.01.1988
2270	1.65	19.0	10.5	WATER BASED	11.11.1987
2388	1.67			WATER BASED	18.11.1987
2388	1.67	15.0	5.7	WATER BASED	19.11.1987
2388	1.67	15.0	4.8	WATER BASED	20.11.1987
2388	1.65	15.0	4.8	WATER BASED	24.11.1987
2388	1.65	15.0	5.3	WATER BASED	24.11.1987
2388	1.65	14.0	5.3	WATER BASED	24.11.1987
2393	1.83	15.0	5.7	WATER BASED	19.01.1988
2423	0.00	1.0	6.7	WATER BASED	21.01.1988
2438	1.83	16.0	6.2	WATER BASED	22.01.1988
2443	1.83	16.0	5.7	WATER BASED	26.01.1988
2448	1.65	17.0	11.0	WATER BASED	11.11.1987
2448	1.67	18.0	6.2	WATER BASED	16.11.1987
2448	0.47	14.0	11.5	WATER BASED	16.11.1987
2448	0.47	14.0	7.7	WATER BASED	16.11.1987
2448	1.65	6.0	6.2	WATER BASED	17.11.1987
2448	1.65	14.0	5.3	WATER BASED	25.11.1987
2448	1.65	18.0	10.1	WATER BASED	12.11.1987
2448	1.65	20.0	7.2	WATER BASED	16.11.1987
2451	1.65	13.0	5.7	WATER BASED	25.11.1987
2484	1.80	17.0	6.7	WATER BASED	26.01.1988
2610	1.67	14.0	5.3	WATER BASED	26.11.1987



2676	1.80	17.0	7.7	WATER BASED	26.01.1988
2769	1.80	18.0	8.6	WATER BASED	26.01.1988
2835	1.68	18.0	8.6	WATER BASED	27.11.1987
2903	1.80	18.0	9.6	WATER BASED	27.01.1988
2915	1.80	16.0	6.7	WATER BASED	28.01.1988
2965	1.71	22.0	12.4	WATER BASED	30.11.1987
2999	1.71	21.0	12.9	OIL BASED	30.11.1987
3019	1.80	17.0	7.7	WATER BASED	29.01.1988
3024	2.10	46.0	16.8	OIL BASED	23.06.1988
3048	1.85	17.0	4.3	WATER BASED	12.01.1988
3048	1.85	20.0	6.2	WATER BASED	13.01.1988
3071	1.71	22.0	13.4	WATER BASED	30.11.1987
3071	1.71	21.0	9.6	WATER BASED	01.12.1987
3098	1.71	23.0	8.6	WATER BASED	02.12.1987
3101	1.80	17.0	11.0	WATER BASED	02.02.1988
3101	1.80	17.0	12.0	WATER BASED	02.02.1988
3195	1.75	22.0	10.5	WATER BASED	03.12.1987
3252	1.80	17.0	9.6	WATER BASED	02.02.1988
3299	1.75	22.0	10.5	WATER BASED	04.12.1987
3321	1.75	20.0	9.6	WATER BASED	09.12.1987
3330	1.80	17.0	9.6	WATER BASED	02.02.1988
3382	1.75	20.0	11.5	WATER BASED	09.12.1987
3403	1.98	12.0	2.9	WATER BASED	12.01.1988
3403	0.00			WATER BASED	12.01.1988
3405	1.80	19.0	10.1	WATER BASED	03.02.1988
3455	1.75	19.0	10.1	WATER BASED	09.12.1987
3468	1.80	17.0	10.5	WATER BASED	04.02.1988
3481	1.68	21.0	11.0	WATER BASED	09.12.1987
3486	1.75	22.0	11.5	WATER BASED	10.12.1987
3493	1.80	16.0	10.1	WATER BASED	09.02.1988
3584	1.80	17.0	9.6	WATER BASED	09.02.1988
3610	1.74	21.0	11.5	WATER BASED	14.12.1987
3631	1.80	15.0	10.1	WATER BASED	09.02.1988
3655	1.80	16.0	10.1	WATER BASED	09.02.1988
3677	1.80	15.0	12.9	WATER BASED	09.02.1988
3696	1.75	20.0	12.4	WATER BASED	14.12.1987
3712	1.80	14.0	7.7	WATER BASED	10.02.1988
3712	1.80	14.0	6.7	WATER BASED	11.02.1988
3724	1.75	19.0	12.4	WATER BASED	15.12.1987
3730	1.75	18.0	9.6	WATER BASED	15.12.1987



3741	1.80	16.0	7.7	WATER BASED	12.02.1988
3761	1.75	18.0	10.5	WATER BASED	15.12.1987
3786	2.11	47.0	16.8	OIL BASED	20.06.1988
3786	2.11	42.0	16.3	OIL BASED	22.06.1988
3786	2.11	43.0	12.0	WATER BASED	22.06.1988
3786	2.11	40.0	13.9	OIL BASED	22.06.1988
3786	2.11	51.0	13.9	OIL BASED	22.06.1988
3786	2.11	45.0	16.3	OIL BASED	22.06.1988
3790	1.80	15.0	10.1	WATER BASED	16.02.1988
3815	1.75	17.0	8.6	OIL BASED	16.12.1987
3815	1.75	20.0	10.1	WATER BASED	16.12.1987
3816	1.80	16.0	10.1	WATER BASED	16.02.1988
3819	1.86	17.0	10.1	WATER BASED	16.02.1988
3819	1.92	20.0	9.6	WATER BASED	17.02.1988
3819	1.92	19.0	8.1	WATER BASED	23.02.1988
3819	1.92	19.0	9.6	WATER BASED	23.02.1988
3819	1.92	21.0	5.7	WATER BASED	23.02.1988
3819	1.92	21.0	5.7	WATER BASED	24.02.1988
3819	1.94	21.0	5.7	WATER BASED	25.02.1988
3819	1.94	23.0	6.2	WATER BASED	26.02.1988
3819	1.94	24.0	6.2	WATER BASED	01.03.1988
3819	1.94	21.0	3.8	WATER BASED	01.03.1988
3819	1.93	18.0	4.8	WATER BASED	01.03.1988
3819	1.93	18.0	4.3	WATER BASED	02.03.1988
3819	1.93	17.0	4.3	WATER BASED	02.03.1988
3819	1.93	19.0	4.8	WATER BASED	03.03.1988
3819	1.94	18.0	6.7	WATER BASED	04.03.1988
3819	1.92	19.0	10.1	WATER BASED	18.02.1988
3819	1.92	19.0	9.1	WATER BASED	19.02.1988
3819	1.92	19.0	8.6	WATER BASED	23.02.1988
3826	1.94	32.0	9.6	OIL BASED	08.03.1988
3826	1.94	31.0	9.1	OIL BASED	08.03.1988
3868	1.94	29.0	12.9	OIL BASED	08.03.1988
3881	1.94	31.0	13.4	OIL BASED	08.03.1988
3881	1.94	30.0	12.9	OIL BASED	10.03.1988
3898	1.75	17.0	9.1	WATER BASED	17.12.1987
3904	1.75	20.0	9.6	WATER BASED	18.12.1987
3925	1.75	21.0	1.0	WATER BASED	22.12.1987
3946	1.94	60.0	12.9	OIL BASED	10.03.1988
3956	1.75	20.0	8.1	WATER BASED	22.12.1987



3993	1.94	26.0	12.9	OIL BASED	14.03.1988
4018	1.75	20.0	11.0	WATER BASED	22.12.1987
4063	1.94	26.0	11.5	OIL BASED	14.03.1988
4084	1.99	26.0	12.4	OIL BASED	14.03.1988
4084	2.04	27.0	13.9	OIL BASED	14.03.1988
4084	2.03	23.0	14.4	OIL BASED	15.03.1988
4086	1.85	20.0	6.2	WATER BASED	14.01.1988
4086	1.85	19.0	7.2	WATER BASED	15.01.1988
4086	1.85	23.0	4.8	WATER BASED	19.01.1988
4086	1.85	23.0	5.3	WATER BASED	19.01.1988
4086	1.77	19.0	10.1	WATER BASED	22.12.1987
4086	1.87	30.0	17.7	OIL BASED	23.12.1987
4086	1.87	21.0	12.0	WATER BASED	29.12.1987
4086	1.87	24.0	14.8	WATER BASED	29.12.1987
4086	1.87	28.0	7.7	WATER BASED	29.12.1987
4086	1.85	19.0	5.3	WATER BASED	29.12.1987
4086	1.85	25.0	4.8	WATER BASED	29.12.1987
4086	1.87	15.0	4.3	WATER BASED	30.12.1987
4086	1.98	12.0	8.6	WATER BASED	07.01.1988
4086	1.98	12.0	5.7	WATER BASED	07.01.1988
4086	1.98	13.0	5.3	WATER BASED	07.01.1988
4086	7.79	14.0	6.7	WATER BASED	07.01.1988
4086	0.00	12.0	12.0	WATER BASED	07.01.1988
4086	1.98	13.0	5.7	WATER BASED	07.01.1988
4086	1.98	13.0	5.3	WATER BASED	08.01.1988
4086	1.98	12.0	2.9	WATER BASED	11.01.1988
4086	2.16	19.0	6.2	WATER BASED	12.01.1988
4086	1.87	20.0	7.2	WATER BASED	29.12.1987
4086	1.98	10.0	7.2	WATER BASED	12.01.1988
4086	1.85	16.0	6.2	WATER BASED	20.01.1988
4164	2.05	27.0	12.4	OIL BASED	17.03.1988
4238	2.11	31.0	9.6	OIL BASED	10.05.1988
4256	2.05	27.0	10.5	OIL BASED	18.03.1988
4256	2.09	31.0	11.0	OIL BASED	22.03.1988
4256	2.07	77.0	6.7	OIL BASED	22.03.1988
4256	2.10	28.0	9.1	OIL BASED	22.03.1988
4256	2.10	28.0	8.6	OIL BASED	22.03.1988
4256	2.06	25.0	7.2	WATER BASED	23.03.1988
4270	2.10	34.0	9.6	OIL BASED	13.05.1988
4270	2.09	37.0	12.9	OIL BASED	13.05.1988



4270	2.10	38.0	12.0	OIL BASED	13.05.1988
4270	2.10	41.0	13.9	OIL BASED	08.08.1988
4270	2.11	49.0	6.2	OIL BASED	08.08.1988
4270	2.11	20.0	15.8	OIL BASED	10.05.1988
4270	2.10	35.0	11.0	OIL BASED	10.05.1988
4270	2.10	36.0	13.4	OIL BASED	18.05.1988
4270	2.10	37.0	12.9	OIL BASED	18.05.1988
4270	2.09	37.0	13.4	OIL BASED	19.05.1988
4270	2.11	36.0	12.4	OIL BASED	19.05.1988
4270	2.09	39.0	13.4	OIL BASED	25.05.1988
4270	2.10	33.0	12.0	OIL BASED	25.05.1988
4270	2.09	41.0	12.9	OIL BASED	25.05.1988
4270	2.10	42.0	13.4	OIL BASED	25.05.1988
4270	2.10	41.0	12.9	OIL BASED	26.05.1988
4270	2.10	41.0	12.9	OIL BASED	27.05.1988
4270	2.09	43.0	12.0	OIL BASED	30.05.1988
4270	2.09	42.0	12.0	OIL BASED	30.05.1988
4270	2.10	41.0	9.6	OIL BASED	30.05.1988
4270	2.10	42.0	12.0	OIL BASED	31.05.1988
4270	2.09	42.0	11.5	OIL BASED	01.06.1988
4270	2.09	41.0	11.5	OIL BASED	02.06.1988
4270	2.10	40.0	12.9	OIL BASED	03.06.1988
4270	2.10	40.0	12.4	OIL BASED	07.06.1988
4270	2.10	41.0	12.9	OIL BASED	07.06.1988
4270	2.11	42.0	14.8	WATER BASED	15.06.1988
4270	2.11	42.0	11.5	OIL BASED	15.06.1988
4270	2.11	42.0	15.3	OIL BASED	15.06.1988
4270	2.11	41.0	16.8	OIL BASED	15.06.1988
4270	2.11	44.0	15.8	OIL BASED	15.06.1988
4270	2.11	42.0	15.8	OIL BASED	17.06.1988
4270	2.09	40.0	13.4	OIL BASED	25.05.1988
4270	2.10	40.0	13.4	OIL BASED	08.08.1988
4281	2.09	28.0	7.2	OIL BASED	24.03.1988
4284	2.11	30.0	7.7	OIL BASED	25.03.1988
4284	2.11	30.0	7.2	OIL BASED	30.03.1988
4284	2.11	30.0	8.1	OIL BASED	05.04.1988
4284	2.13	31.0	7.7	OIL BASED	05.04.1988
4284	2.11	30.0	5.3	OIL BASED	05.04.1988
4284	2.11	30.0	7.7	OIL BASED	05.04.1988
4284	2.07	29.0	7.2	OIL BASED	06.04.1988



4284	2.11	31.0	7.2	OIL BASED	29.03.1988
4284	2.11	30.0	7.2	OIL BASED	29.03.1988
4284	0.00			WATER BASED	05.04.1988
4284	2.11	30.0	7.2	OIL BASED	05.04.1988
4293	2.07	27.0	5.7	OIL BASED	07.04.1988
4294	2.07	30.0	6.2	OIL BASED	08.04.1988
4306	2.07	31.0	8.1	OIL BASED	12.04.1988
4307	2.07	30.0	7.7	OIL BASED	12.04.1988
4320	2.07	31.0	7.2	OIL BASED	12.04.1988
4327	2.07	30.0	7.7	OIL BASED	12.04.1988
4370	2.07	30.0	8.1	OIL BASED	13.04.1988
4383	2.11	32.0	6.2	OIL BASED	14.04.1988
4383	2.11	30.0	8.6	OIL BASED	15.04.1988
4383	2.11	31.0	8.6	OIL BASED	19.04.1988
4387	2.11	30.0	8.6	OIL BASED	19.04.1988
4396	2.11	31.0	8.6	OIL BASED	19.04.1988
4400	2.11	31.0	8.6	OIL BASED	19.04.1988
4410	2.11	32.0	10.1	OIL BASED	20.04.1988
4418	2.11	30.0	8.1	OIL BASED	22.04.1988
4439	2.07	28.0	7.7	OIL BASED	22.04.1988
4450	2.10	30.0	8.6	OIL BASED	27.04.1988
4486	2.09	29.0	8.1	OIL BASED	27.04.1988
4491	2.09	30.0	7.2	OIL BASED	27.04.1988
4510	2.10	31.0	14.4	OIL BASED	10.05.1988
4510	2.11	35.0	11.0	OIL BASED	10.05.1988
4510	2.09	31.0	7.2	OIL BASED	27.04.1988
4510	2.09	30.0	7.2	OIL BASED	28.04.1988
4510	2.09	31.0	7.7	OIL BASED	29.04.1988
4510	2.09	31.0	7.7	OIL BASED	10.05.1988
4510	2.09	30.0	5.7	OIL BASED	10.05.1988
4510	2.10	32.0	9.1	OIL BASED	10.05.1988
4510	2.11	32.0	9.6	OIL BASED	10.05.1988
4510	2.11	31.0	9.6	OIL BASED	10.05.1988
4510	2.11	32.0	10.1	OIL BASED	10.05.1988
4514	2.12	64.0	12.9	WATER BASED	18.10.1991
4514	2.12	66.0	14.4	OIL BASED	18.10.1991
4514	2.12	66.0	14.4	OIL BASED	21.10.1991
4514	2.12	66.0	14.4	OIL BASED	21.10.1991
4514	2.12	66.0	14.4	OIL BASED	21.10.1991
4514	1.95	47.0	17.2	WATER BASED	31.10.1991



4514	1.95	44.0	22.0	WATER BASED	04.11.1991
4514	1.95	44.0	19.2	WATER BASED	05.11.1991
4514	1.95	44.0	19.2	WATER BASED	05.11.1991
4514	1.95	44.0	19.2	WATER BASED	05.11.1991
4514	1.44			WATER BASED	06.11.1991
4514	1.44			WATER BASED	11.11.1991
4514	1.44			WATER BASED	11.11.1991
4514	1.44			WATER BASED	12.11.1991
4514	2.12	59.0	8.6	OIL BASED	15.10.1991

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
1062 Formation pressure (Formasjonstrykk)	PDF	0.21

