

# Barents Sea: Overpressures, fluid gradients and contacts

Wellbore name	Water Depth (m)	X	Y	Structural Province	Hydro Switch (m TVDm)	Kapp Toscana hydrostat (bar/m)	Depth TVDss m	Depth TVDml	Pressure (bar)	OP pref y	FINAL OVERPRESSURE (BAR)	Realgrunnen subgroup representative Overpressure (BAR)	Kapp Toscana representative Overpressure (BAR)	Overpressure Map label (BAR)	Source Data	Fluid gradient (bar/m)	Fluid Type	Water gradient Quality	Gradient covers >1 format	Fluid contact from gradient intersection			Fluid Contact from NPDI/Operator			Formation(s) (NPD)	Group(s)	Period
																				OWC (m TVDref)	GWC (m TVDref)	GOC (m TVDref)	OWC (m TVDref)	GWC (m TVDref)	GOC (m TVDref)			
						1993 0.107	2574.9	2384.9	279.1		16.4	16.4	16.4	16.4	WFT	0.104	Water	Fair			2568		2571		Sto	Kapp Toscana	Jurassic	
						1993 0.107	2633.7	2443.7	291.5		22.5			22.5	WFT	n/a	Water	n/a								Nordmela	Kapp Toscana	Jurassic
						2080 0.103	2754.1	2554.1	310.4	<	31.0	31.0	31.0	<31.0	WFT	0.093	Hydrocarbon	n/a								Sto	Kapp Toscana	Jurassic
						174 0.106	1347.9	1167.9	146.6		4.6	4.6	4.6	4.6	WFT	0.105	Water	Very Good								Sto	Kapp Toscana	Jurassic
						174 0.106	1525.9	1345.9	165.2		4.3			4.3	WFT	0.105	Water	Very Good	Y							Nordmela	Kapp Toscana	Jurassic
						174 0.106	1697.9	1517.9	183.2		4.1			4.1	WFT	0.105	Water	Very Good	Y							Tubæen	Kapp Toscana	Jurassic
						174 0.106	1842.8	1662.8	198.4		3.9			3.9	WFT	0.105	Water	Very Good	Y							Fruholmen	Kapp Toscana	Triassic
						2080 0.103	3155.4	2944.4	474.0	<	153.4	153.4	153.4	<153.4	WFT	0.067	Hydrocarbon	n/a					3249			Sto	Kapp Toscana	Jurassic
						2080 0.103	2276.3	2084.3	243.7		13.6	13.6	13.6	13.6	WFT	0.103	Water	Very Good								Sto	Kapp Toscana	Jurassic
						2080 0.103	2457.3	2265.3	263.7		14.9			14.9	WFT	n/a	Water	n/a								Nordmela	Kapp Toscana	Jurassic
						2080 0.103	2746.9	2554.9	293.4		14.7			14.7	WFT	0.100	Water	Poor								Tubæen	Kapp Toscana	Jurassic
						2080 0.103	2819.9	2627.9	303.8		17.7			17.7	WFT	n/a	Water	n/a								Fruholmen	Kapp Toscana	Triassic
						2080 0.103	2720.9	2519.9	405.9		129.9	129.9	129.9	129.9	WFT	0.110	Water	Fair	Y							Sto	Kapp Toscana	Jurassic
						2080 0.103	2873.1	2672.1	422.6		131.0			131.0	WFT	0.110	Water	Fair								Nordmela	Kapp Toscana	Jurassic
						2080 0.103	3005.3	2804.3	437.0		131.7			131.7	WFT	n/a	Water	n/a								Tubæen	Kapp Toscana	Jurassic
						2080 0.103	3055.8	2854.8	443.7		133.2			133.2	WFT	0.119	Water	Fair								Tubæen	Kapp Toscana	Jurassic
						2080 0.103	3174.0	2973.0	456.2		133.6			133.6	WFT	n/a	Water	n/a								Fruholmen	Kapp Toscana	Triassic
						174 0.106	1544.8	1361.8	166.8		4.0	4.0	4.0	4.0	WFT	0.108	Water	Very Good								Sto	Kapp Toscana	Jurassic
						174 0.106	1640.6	1457.6	177.2		4.2			4.2	WFT	0.108	Water	Very Good	Y							Nordmela	Kapp Toscana	Jurassic
						174 0.106	1774.2	1591.2	191.7		4.5			4.5	WFT	0.108	Water	Very Good	Y							Tubæen	Kapp Toscana	Jurassic
						174 0.106	1962.0	1779.0	211.6		4.6			4.6	WFT	0.108	Water	Very Good	Y							Fruholmen	Kapp Toscana	Triassic
						204 0.106	2117.8	1775.8	277.6		55.0	55.0	55.0	55.0	WFT	n/a	Unknown	n/a								Snadd	Kapp Toscana	Triassic
						204 0.106	2130.3	1788.3	283.4		59.5			59.5	WFT	n/a	Unknown	n/a								Snadd	Kapp Toscana	Triassic
						204 0.106	2369.7	2027.7	298.2		58.6			58.6	WFT	n/a	Unknown	n/a								Havert	Sassendalen	Triassic
						204 0.106	2421.7	2079.7	319.4		74.7			74.7	WFT	n/a	Unknown	n/a								Roye	Tempelfjorden	Permian
						204 0.106	2604.5	2262.5	299.9		36.7			36.7	WFT	n/a	Unknown	n/a								Roye	Tempelfjorden	Permian
						204 0.106	2709.5	2367.5	344.3		70.6			70.6	WFT	n/a	Unknown	n/a								Roye	Tempelfjorden	Permian
						204 0.106	2769.3	2427.3	310.3		30.5			30.5	WFT	n/a	Unknown	n/a								Roye	Tempelfjorden	Permian
						204 0.106	3311.2	2969.2	385.1		50.8			50.8	WFT	0.117	Water	Poor								Orn	Gipsdalen	Carboniferous
						204 0.106	3490.5	3148.5	379.6		27.3			27.3	WFT	0.113	Water	Poor								Orn	Gipsdalen	Carboniferous
						204 0.106	1960.5	1656.0	209.0		2.9			2.9	WFT	0.104	Water	Very Good								Hekkingen	Adventdalen	Jurassic
						204 0.106	2189.7	1885.2	232.9		2.5	2.5	2.5	2.5	WFT	0.104	Water	Very Good	Y							Sto	Kapp Toscana	Jurassic
						204 0.106	2345.8	2041.3	249.3		2.3			2.3	WFT	0.104	Water	Very Good	Y							Nordmela	Kapp Toscana	Jurassic
						204 0.106	2419.8	2115.3	256.9		2.1			2.1	WFT	0.104	Water	Very Good	Y							Tubæen	Kapp Toscana	Jurassic
						204 0.106	2539.6	2235.1	268.9		1.4			1.4	WFT	0.104	Water	Very Good	Y							Fruholmen	Kapp Toscana	Triassic
						174 0.106	1983.1	1416.1	171.2		4.2			4.2	WFT	n/a	Water	n/a								Knurr	Adventdalen	Cretaceous
						174 0.106	1679.6	1512.6	184.1		6.9			6.9	WFT	n/a	Water	n/a								Hekkingen	Adventdalen	Jurassic
						174 0.106	2033.6	1866.6	221.7		7.0	7.0	7.0	7.0	WFT	0.106	Water	Very Good								Sto	Kapp Toscana	Jurassic
						174 0.106	2182.4	2015.4	237.5		6.9			6.9	WFT	0.106	Water	Very Good	Y							Nordmela	Kapp Toscana	Jurassic
						174 0.106	2240.8	2073.8	243.6		6.9			6.9	WFT	0.106	Water	Very Good	Y							Tubæen	Kapp Toscana	Jurassic
						174 0.106	2388.8	2221.8	259.4		7.0			7.0	WFT	0.106	Water	Very Good	Y							Fruholmen	Kapp Toscana	Triassic
						174 0.106	2593.0	2426.0	286.8		12.7			12.7	WFT	n/a	Water	n/a								Sto	Kapp Toscana	Triassic
						174 0.106	1951.7	1787.7	215.2		9.1	9.1	9.1	9.1	WFT	0.103	Water	Very Good								Sto	Kapp Toscana	Jurassic
						174 0.106	1956.7	1792.7	215.6		9.0			9.0	WFT	0.103	Water	Very Good	Y							Nordmela	Kapp Toscana	Jurassic
						174 0.106	2139.5	1975.5	234.5		8.5			8.5	WFT	0.103	Water	Very Good	Y							Tubæen	Kapp Toscana	Jurassic
						174 0.106	2239.3	2075.3	245.2		8.6			8.6	WFT	0.103	Water	Very Good	Y							Fruholmen	Kapp Toscana	Triassic
						174 0.106	2543.2	2379.2	288.9	<	20.1			<20.1	WFT	0.020	Hydrocarbon	n/a								Snadd	Kapp Toscana	Triassic
						174 0.106	2783.2	2619.2	320.9		26.6			26.6	WFT	n/a	Unknown	n/a								Snadd	Kapp Toscana	Triassic
						174 0.106	2949.3	2785.3	419.7	<	121.8			<121.8	WFT	n/a	Hydrocarbon	n/a								Kobbe	Sassendalen	Triassic
						174 0.106	3664.3	3500.3	639.3	<	269.4			<269.4	WFT	0.055	Hydrocarbon	n/a								Orret	Tempelfjorden	Permian

- 540 overpressures interpreted from 143 wells (updated June 2021).
  - Bespoke hydrostatic gradient per structural area.
  - Fluid gradient interpretation, and reliability.
- Fluid contacts calculated where possible from pressure data, and from Operator interpretation.

- Flexible deliverables: full database available, or ask for bespoke areas, stratigraphic intervals, formats.
- Formations are based on NPD marker designations, but formations using Ichron markers are also available if the client has access to Ichron markers.