

General information

Field name	TYRIHANS
Factmaps in new window	link
Current activity status	Producing
Discovery wellbore	6407/1-2
Discovery year.	1983
Main area	Norwegian Sea
Main supply base	Kristiansund
NPDID field	3960848

Picture

Discoveries included

Discovery name
6407/1-3 Tyrihans Nord
6407/1-2 Tyrihans Sør

Activity status - history

Status	Status from	Status to
Producing	08.07.2009	
Approved for production	16.02.2006	07.07.2009

Located in

Block name	Prod. licence
6407/1	073
6406/3	091
6406/3	073 B

Owner - current

Owner kind	Owner name
BUSINESS ARRANGEMENT AREA	TYRIHANS UNIT

Operatorship - current

Company name
Equinor Energy AS



Licenseses - current

Company name	Nation code	Company share [%]
Equinor Energy AS	NO	58.835500
Total E&P Norge AS	NO	23.145400
Vår Energi AS	NO	18.019100

The NPD estimate for reserves (Norwegian share)

Valid date: 31.12.2019

Orig. recoverable oil [mill Sm3]	Orig. recoverable gas [bill Sm3]	Orig. recoverable NGL [mill tonn]	Orig. recoverable cond. [mill Sm3]	Orig. recoverable oil eq. [mill Sm3 o.e]
33.98	43.91	7.30	0.00	91.76

Remaining oil [mill Sm3]	Remaining gas [bill Sm3]	Remaining NGL [mill tonn]	Remaining cond. [mill Sm3]	Remaining oil eq. [mill Sm3 o.e]
3.20	28.59	4.45	0.00	40.25

Orig. inplace oil [mill Sm3]	Orig. inplace ass. liquid [mill Sm3]	Orig. inplace ass. gas [bill Sm3]	Orig. inplace free gas [bill Sm3]
65.00	18.00	17.00	51.32

Description

Type	Text	Date updated
Development	Tyrihans is a field in the Norwegian Sea, 25 kilometres southeast of the Åsgard field. The water depth is 270 metres. Tyrihans was discovered in 1983, and the plan for development and operation (PDO) was approved in 2005. The field is developed with five subsea templates tied-back to the Kristin platform, four templates for production and gas injection and one template for seawater injection. Gas for injection and gas lift is supplied from the Åsgard B platform. Production started in 2009.	26.02.2020
Reservoir	Tyrihans produces oil, gas and condensate from two deposits: Tyrihans Sør and Tyrihans Nord. Tyrihans Sør has an oil column with a condensate-rich gas cap. Tyrihans Nord contains gas and condensate with a thin oil zone. The main reservoir in both deposits is in the Middle Jurassic Garn Formation at a depth of 3,500 metres. The reservoirs are homogenous and of good quality. In addition, one well produces oil from the Ile Formation.	26.02.2020
Recovery	Tyrihans has earlier been produced with pressure support by seawater and gas injection. The main recovery strategy now is pressure depletion and gas cap expansion.	26.02.2020



Transport	The well stream is sent to the Kristin platform for processing. Gas is exported from Kristin via the Åsgard Transport System (ÅTS) to the Kårstø terminal, while oil and condensate are transported by pipeline to the storage ship Åsgard C for export on shuttle tankers.	26.02.2020
Status	The total oil production from Tyrihans, including important contributions from infill wells that have been drilled, is well above the PDO estimates. Total gas production is in line with the PDO estimates. Seawater injection was stopped in 2017, but can be resumed if found necessary. Gas injection was stopped in 2018 for economic reasons, and there are no plans to start gas injection again. It is planned to convert the gas injection wells and oil production wells to gas producers. A new gas production well with an exploration extension to the Ile Formation is planned to be drilled on Tyrihans Nord in 2020.	26.02.2020

Investments (expected)

Future investments from 2019 [mill NOK 2019-kroner] : 1306
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Investments (historical)

	Investments [mill NOK nominal values]
Sum	20719
2018	495
2017	20
2016	-49
2015	415
2014	1186
2013	1674
2012	1775
2011	1822
2010	2101
2009	2336
2008	3528
2007	3284
2006	1578
2005	348
2004	206

Production , saleable



NPD Factpages

Field

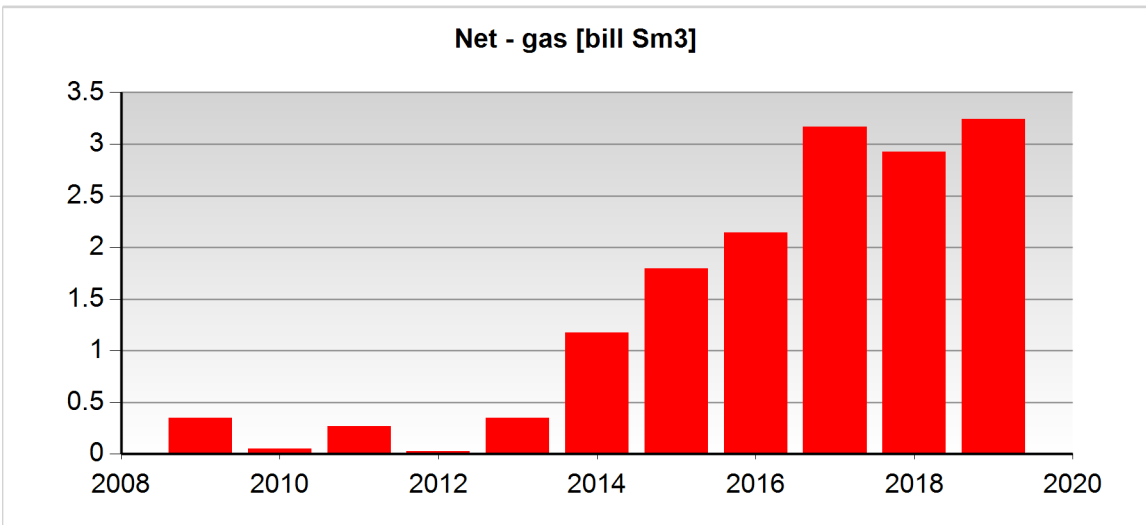
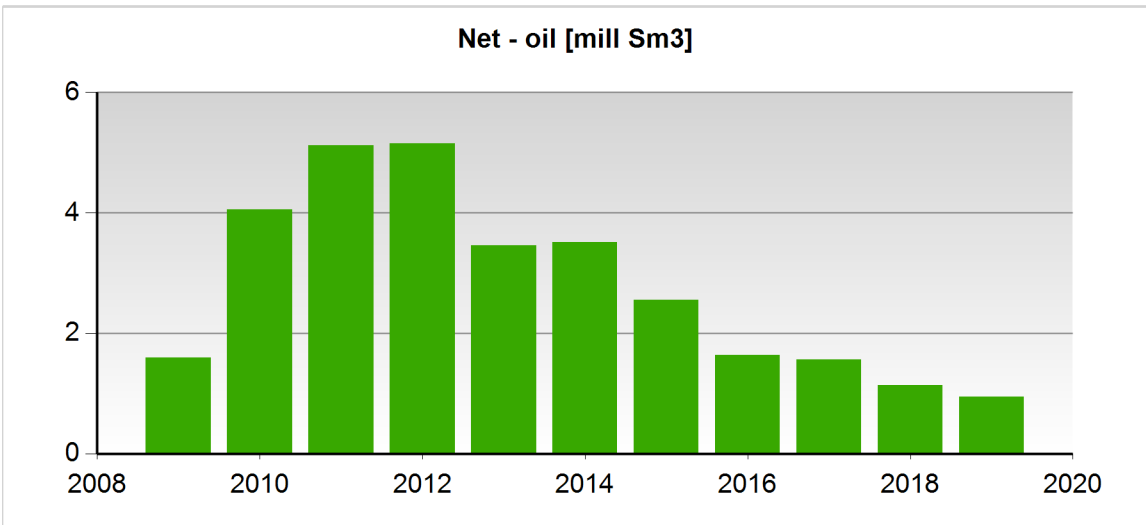
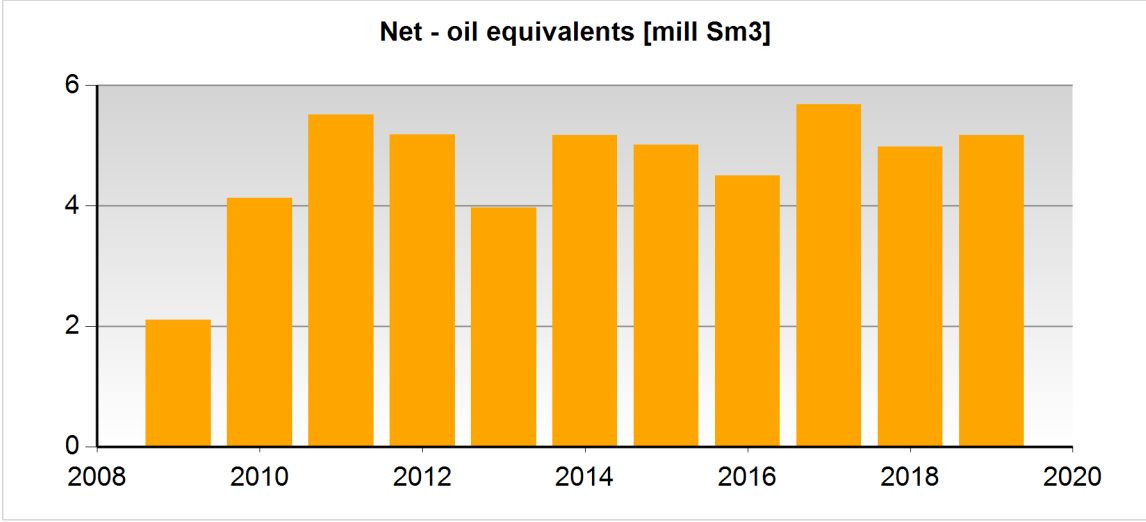
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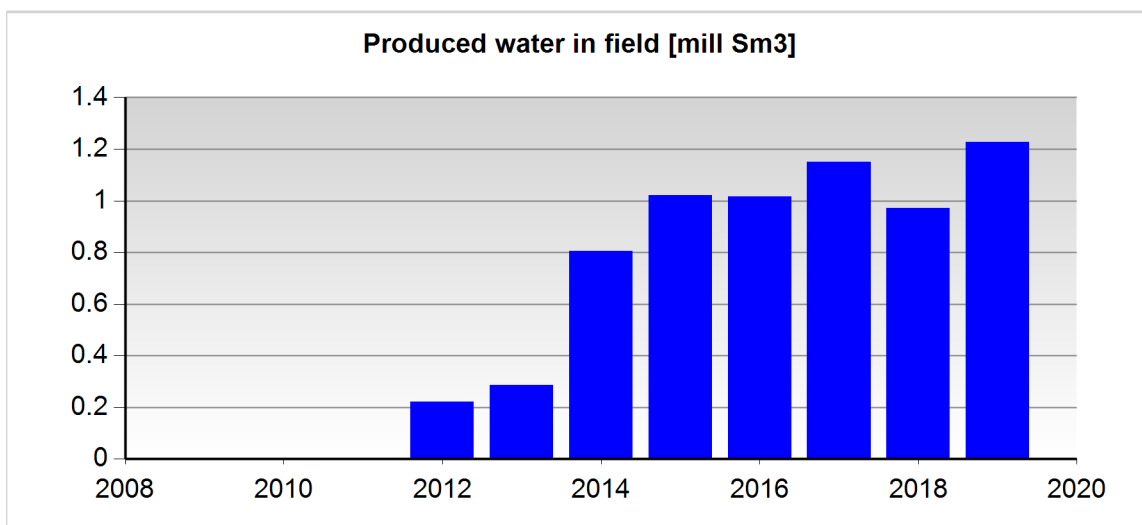
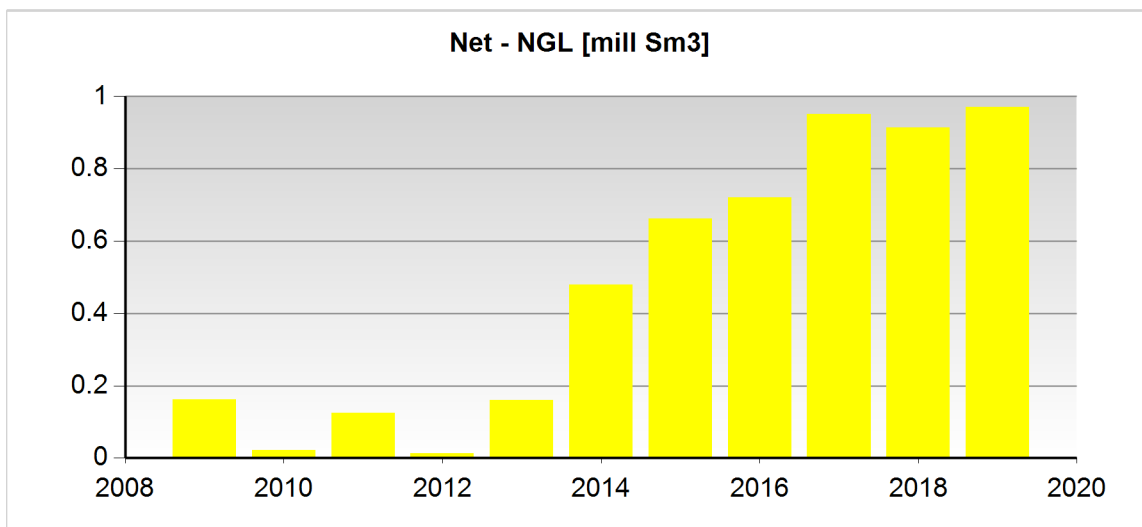
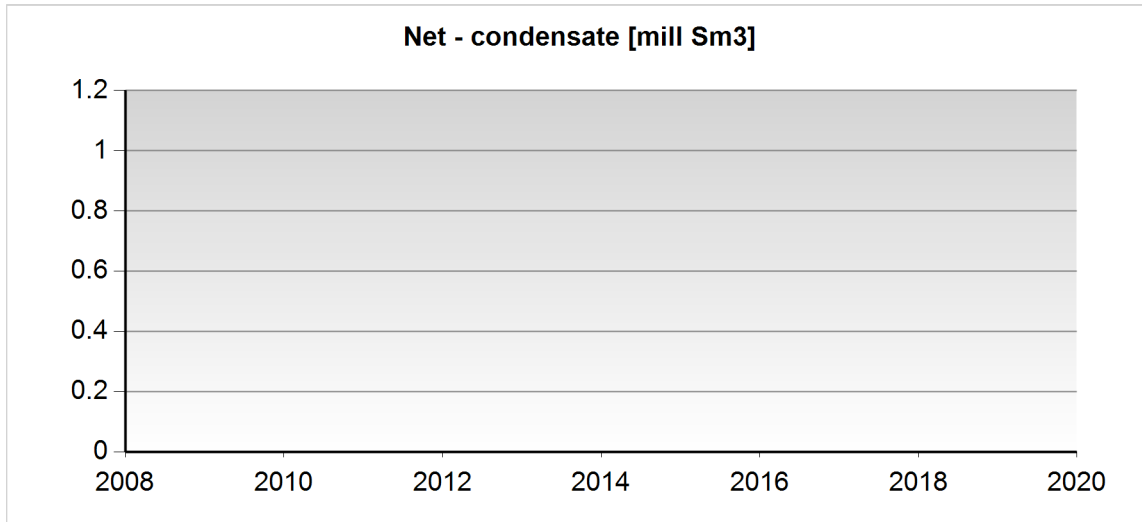
	Month	Net - oil [mill Sm3]	Net - gas [bill Sm3]	Net - condensate [mill Sm3]	Net - NGL [mill Sm3]	Net - oil equivalents [mill Sm3]
Sum		31.271427	17.236784	0.000000	5.663632	54.171843
2020		0.507476	1.741811	0.000000	0.487348	2.736635
2019		0.954852	3.244461	0.000000	0.970025	5.169338
2018		1.144508	2.926170	0.000000	0.913048	4.983726
2017		1.566751	3.167042	0.000000	0.950892	5.684685
2016		1.642470	2.141292	0.000000	0.719660	4.503422
2015		2.552665	1.798262	0.000000	0.661922	5.012849
2014		3.516978	1.173526	0.000000	0.479528	5.170032
2013		3.464552	0.352145	0.000000	0.159857	3.976554
2012		5.148101	0.024047	0.000000	0.012233	5.184381
2011		5.120864	0.270322	0.000000	0.124895	5.516081
2010		4.056059	0.049938	0.000000	0.022034	4.128031
2009		1.596151	0.347768	0.000000	0.162190	2.106109

Production , sum wellbores

	Month	Gross - oil [mill Sm3]	Gross - gas [bill Sm3]	Gross - condensate [mill Sm3]	Gross - oil equivalents [mill Sm3]
Sum		30.904125	38.817205	0.280133	70.001463
2020		0.501786	1.947333	0.000000	2.449119
2019		0.931476	3.643115	0.000000	4.574591
2018		1.065307	4.101446	0.000000	5.166753
2017		1.491913	4.729577	0.000000	6.221490
2016		1.683557	4.118313	0.000000	5.801870
2015		2.624616	4.409870	0.000000	7.034486
2014		3.590417	4.229839	0.000000	7.820256
2013		3.527372	2.869164	0.000000	6.396536
2012		5.078393	3.359295	0.000000	8.437688
2011		5.020584	2.940746	0.000000	7.961330
2010		4.059896	1.896224	0.000000	5.956120
2009		1.328808	0.572283	0.280133	2.181224

Production - charts





Any produced water is only included after 1.1.2000

Wellbores - exploration



Wellbore name	Entered date	Completed date	Purpose	Status	Content
6406/3-6	21.09.2002	15.11.2002	APPRAISAL	P&A	OIL/GAS
6407/1-2	13.11.1982	15.05.1983	WILDCAT	P&A	GAS/CONDENSATE
6407/1-3	17.09.1983	16.01.1984	WILDCAT	P&A	OIL/GAS
6407/1-4	08.06.1996	23.08.1996	APPRAISAL	P&A	OIL/GAS

Wellbores - development

Wellbore name	Entered date	Completed date	Purpose	Content
6406/3-D-1 H	21.08.2011	30.09.2011	OBSERVATION	OIL
6406/3-D-1 AY1H	01.10.2011	22.10.2011	PRODUCTION	OIL
6406/3-D-1 AY2H	23.10.2011	19.11.2011	PRODUCTION	OIL
6406/3-D-2 H	08.09.2010	26.10.2010	INJECTION	GAS
6406/3-D-3 H	11.09.2012	18.10.2012	OBSERVATION	OIL
6406/3-D-3 AY1H	21.10.2012	13.11.2012	PRODUCTION	OIL
6406/3-D-3 AY2H	14.11.2012	09.12.2012	PRODUCTION	OIL
6406/3-D-4 H	14.02.2011	26.04.2011	OBSERVATION	OIL
6406/3-D-4 AY1H	29.04.2011	13.06.2011	PRODUCTION	OIL
6406/3-D-4 AY2H	14.06.2011	07.07.2011	PRODUCTION	OIL
6407/1-A-1 H	10.05.2010	28.06.2010	OBSERVATION	OIL/GAS
6407/1-A-1 AY1H	30.06.2010	19.07.2010	PRODUCTION	OIL/GAS
6407/1-A-1 AY2H	20.07.2010	08.08.2010	PRODUCTION	OIL/GAS
6407/1-A-1 AY3H			PRODUCTION	
6407/1-A-2 H	06.01.2013	11.03.2013	OBSERVATION	OIL
6407/1-A-2 AY1H	14.03.2013	27.03.2013	PRODUCTION	OIL
6407/1-A-2 AY3H	14.04.2013	29.04.2013	PRODUCTION	OIL
6407/1-A-2 AY2H	28.03.2013	13.04.2013	PRODUCTION	OIL
6407/1-A-2 BH	21.11.2018	21.12.2018	PRODUCTION	OIL/GAS
6407/1-A-3 H	23.04.2014	27.05.2014	OBSERVATION	OIL
6407/1-A-3 AY1H	28.05.2014	05.06.2014	PRODUCTION	OIL
6407/1-A-3 AY2H	06.06.2014	17.06.2014	PRODUCTION	OIL
6407/1-A-3 AY3H	18.06.2014	28.06.2014	PRODUCTION	OIL



Field

6407/1-A-4 H	04.12.2008	22.01.2009	PRODUCTION	OIL
6407/1-A-4 AY1H	24.01.2009	06.02.2009	PRODUCTION	OIL
6407/1-A-4 AY2H	07.02.2009	24.02.2009	PRODUCTION	OIL
6407/1-B-1 H	15.06.2008	03.07.2008	OBSERVATION	OIL
6407/1-B-1 AH	13.08.2008	24.09.2008	PRODUCTION	OIL
6407/1-B-3 H	21.04.2008	11.06.2008	INJECTION	GAS
6407/1-B-4 H	24.01.2012	19.03.2012	OBSERVATION	OIL
6407/1-B-4 AY1H	20.03.2012	05.04.2012	PRODUCTION	OIL
6407/1-B-4 AY2H	06.04.2012	30.04.2012	PRODUCTION	OIL
6407/1-C-2 H	04.04.2009	13.05.2009	OBSERVATION	OIL
6407/1-C-2 AY1H	16.05.2009	26.05.2009	PRODUCTION	OIL
6407/1-C-2 AY2H	27.05.2009	09.07.2009	PRODUCTION	OIL
6407/1-C-3 AY1H	22.02.2010	22.03.2010	PRODUCTION	OIL
6407/1-C-3 AY2H	23.03.2010	12.04.2010	PRODUCTION	OIL
6407/1-C-3 Y1H	17.12.2009	19.02.2010	OBSERVATION	OIL
6407/1-W-2 H	22.11.2010	10.01.2011	INJECTION	WATER

Wellbores - other

Wellbore name	Entered date	Completed date	Purpose	Status
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