

General information

Field name	HEIDRUN
Factmaps in new window	link
Current activity status	Producing
Discovery wellbore	6507/7-2
Discovery year.	1985
Main area	Norwegian sea
Main supply base	Kristiansund
NPDID field	43771

Picture

Discoveries included

Discovery name
6507/7-2 Heidrun
6507/8-4 Heidrun Nord

Activity status - history

Status	Status valid from date	Status valid to date
Producing	18.10.1995	
Approved for production	14.05.1991	17.10.1995

Located in

Block name	Prod. licence
6507/7	095
6507/8	124
6507/8	124

Owner - current

Owner kind	Owner name
BUSINESS ARRANGEMENT AREA	HEIDRUN UNIT

Operatorship - current

Company name
Equinor Energy AS



Licensees - current

Company name	Nation code	Company share [%]
Petoro AS	NO	57.793390
ConocoPhillips Skandinavia AS	NO	23.988230
Equinor Energy AS	NO	13.043160
Vår Energi AS	NO	5.175220

The NPD estimate for reserves (Norwegian share)

Valid date: 31.12.2018

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]
196.55	46.33	2.00	0.00	246.68

Remaining oil [mill Sm3]	Remaining gas [bill Sm3]	Remaining NGL [mill tonn]	Remaining cond. [mill Sm3]	Remaining oil eq. [mill Sm3 o.e]
35.74	25.51	1.33	0.00	63.78

Orig. inplace oil [mill Sm3]	Orig. inplace ass. liquid [mill Sm3]	Orig. inplace ass. gas [bill Sm3]	Orig. inplace free gas [bill Sm3]
432.00	7.60	36.40	51.70

Description

Type	Text	Date updated
Development	Heidrun is a field on Haltenbanken in the Norwegian Sea, 30 kilometres northeast of the Åsgard field. The water depth is 350 metres. Heidrun was discovered in 1985, and the plan for development and operation (PDO) was approved in 1991. The field has been developed with the world's first ever floating concrete tension-leg platform (TLP), installed over a large subsea template with 56 well slots. Six subsea templates in the southern and northern areas are additionally tied-back to the TLP. Production started in 1995. The PDO for the Heidrun northern flank was approved in 2000. The Maria field receives water for injection from Heidrun and the Dvalin field is planned to be tied to Heidrun for gas processing.	17.03.2019
Reservoir	Heidrun produces oil and gas from Lower and Middle Jurassic sandstone in the Åre, Tilje, Ile and Garn Formations. The reservoir is heavily faulted and lies at a depth of 2,300 metres. The Ile and Garn Formations have good reservoir quality, while the Åre and Tilje Formations are more complex.	07.03.2018



Recovery	The field is produced with pressure maintenance using water and gas injection in the Ile and Garn Formations. In the more complex parts of the reservoir, in the Åre and Tilje Formations, the main recovery strategy is water injection. Some segments are also produced by pressure depletion.	07.03.2018
Transport	The oil is loaded onto tankers and shipped to either the Mongstad terminal or to Tetney in the UK. The gas is transported by pipeline to the terminal at Tjeldbergodden and/or via the Åsgard Transport System (ÅTS) to the Kårstø terminal.	07.03.2018
Status	Production from Heidrun is maintained at a relatively high level through continuous water and gas injection and drilling of new production and injection wells. Several methods are being evaluated to improve recovery and prolong the lifetime of the field, including infill wells, new drilling technology and methods for enhanced oil recovery (EOR). A water alternating gas (WAG) injection pilot is planned in 2019. A new subsea development of the northern flank of Heidrun and the Alpha Horst discovery is being planned. Gas from Dvalin is planned to be sent to Heidrun for processing and export via a new pipeline from Heidrun to Polarled and the Nyhamna terminal.	17.03.2019

Investments (expected)

Future investments from 2018 [mill NOK 2018-kroner] : 22156

Investments (historical)

	Investments [mill NOK nominal values]
Sum	66170
2017	2301
2016	1695
2015	1756
2014	3673
2013	2553
2012	1257
2011	2029
2010	1349
2009	2372
2008	1311
2007	1436
2006	1681
2005	1235
2004	1037
2003	2190
2002	2009
2001	1849
2000	2884
1999	2617



1998	1474
1997	669
1996	538
1995	4800
1994	8367
1993	8708
1992	3096
1991	836
1990	126
1989	55
1988	50
1987	217
1986	0

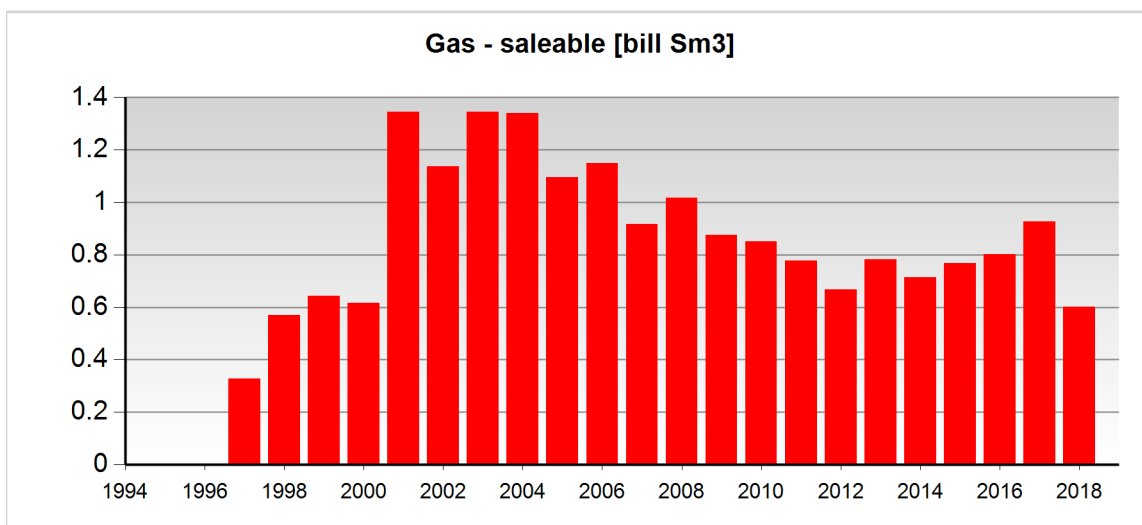
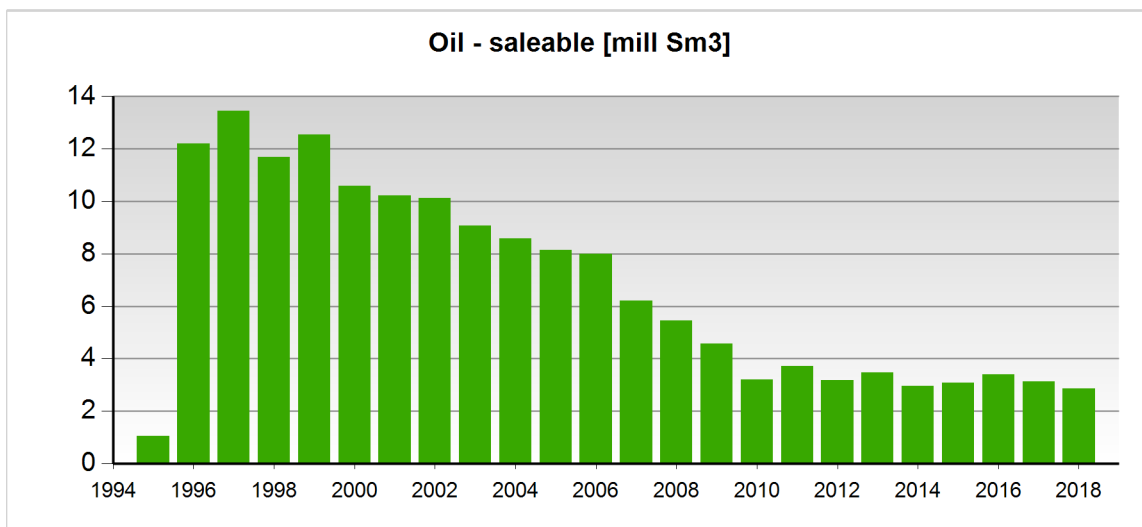
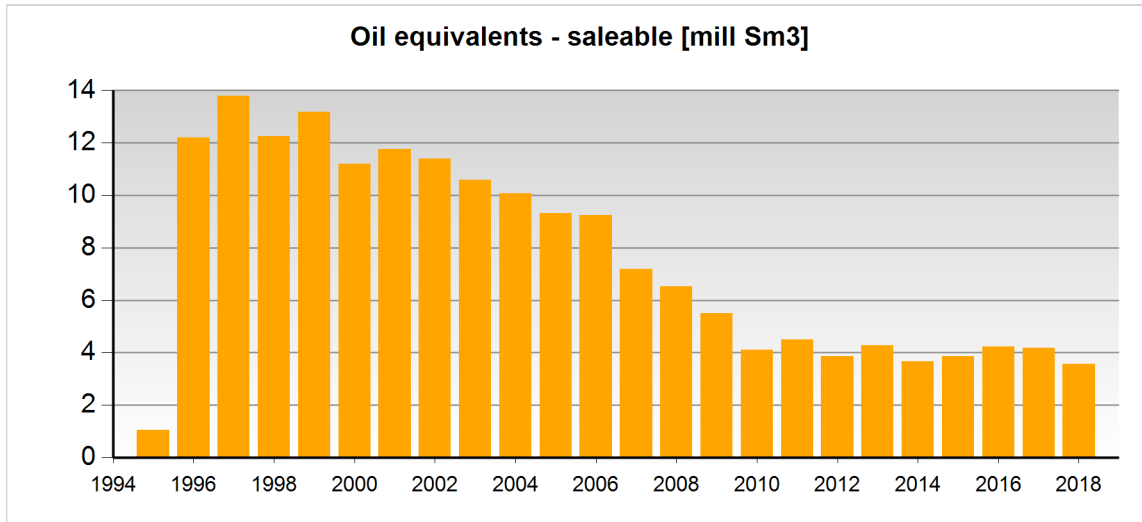
Production , saleable

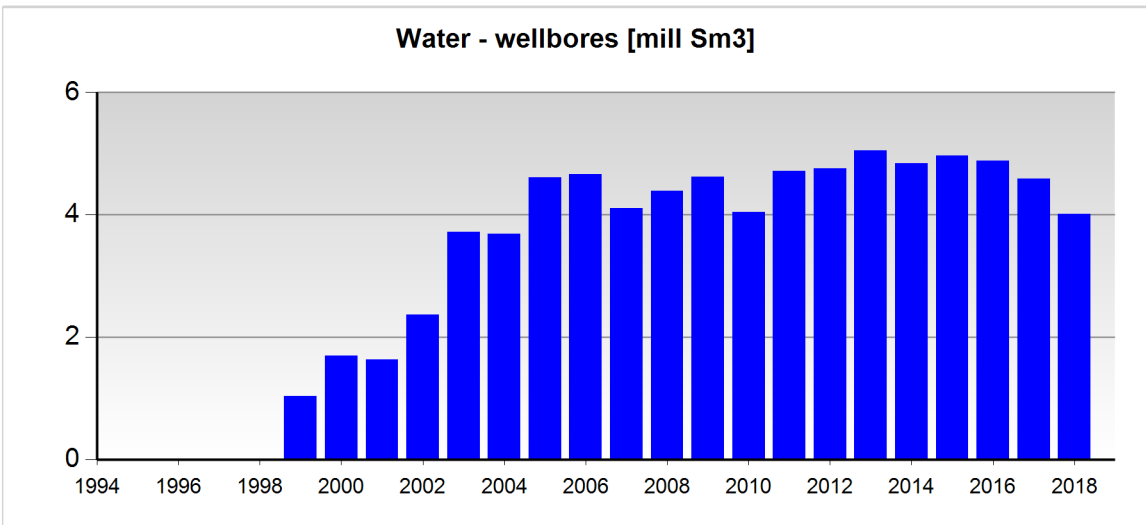
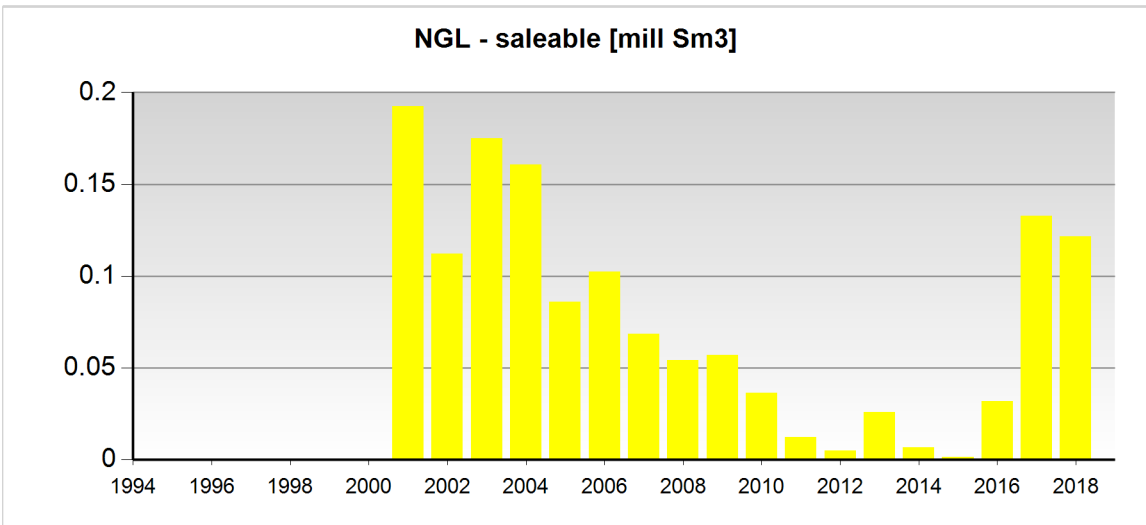
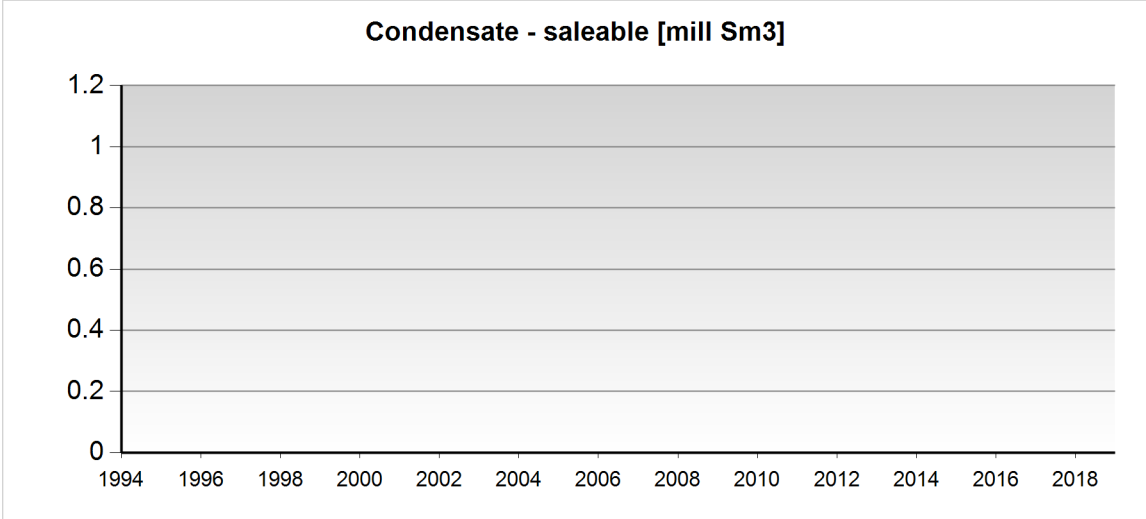
	Month	Oil - saleable [mill Sm ³]	Gas - saleable [bill Sm ³]	Condensate - saleable [mill Sm ³]	NGL - saleable [mill Sm ³]	Oil equivalents - saleable [mill Sm ³]
Sum		162.140776	19.868537	0.000000	1.441604	183.450917
2019		1.286583	0.606070	0.000000	0.061300	1.953953
2018		2.848197	0.600233	0.000000	0.121392	3.569822
2017		3.114837	0.927393	0.000000	0.132684	4.174914
2016		3.399434	0.800938	0.000000	0.031780	4.232152
2015		3.086465	0.766737	0.000000	0.001218	3.854420
2014		2.948013	0.713724	0.000000	0.006437	3.668174
2013		3.462258	0.782712	0.000000	0.025783	4.270753
2012		3.180785	0.667990	0.000000	0.004863	3.853638
2011		3.704814	0.776246	0.000000	0.012013	4.493073
2010		3.210022	0.850083	0.000000	0.036138	4.096243
2009		4.561796	0.875571	0.000000	0.056731	5.494098
2008		5.460214	1.016697	0.000000	0.054197	6.531108
2007		6.202968	0.917359	0.000000	0.068522	7.188849
2006		8.000489	1.149302	0.000000	0.102445	9.252236
2005		8.138591	1.095485	0.000000	0.085913	9.319989
2004		8.582877	1.339665	0.000000	0.160576	10.083118
2003		9.069732	1.344907	0.000000	0.174960	10.589599
2002		10.131527	1.137730	0.000000	0.112234	11.381491
2001		10.225915	1.344030	0.000000	0.192418	11.762363
2000		10.590520	0.614903	0.000000	0.000000	11.205423
1999		12.539828	0.643746	0.000000	0.000000	13.183574
1998		11.690433	0.570600	0.000000	0.000000	12.261033
1997		13.456461	0.326416	0.000000	0.000000	13.782877
1996		12.189280	0.000000	0.000000	0.000000	12.189280
1995		1.058737	0.000000	0.000000	0.000000	1.058737

**Production , sum wellbores**

	Month	Oil - wellbores [mill Sm3]	Gas - wellbores [bill Sm3]	Condensate - wellbores [mill Sm3]	Oil equivalents - wellbores [mill Sm3]
Sum		162.127786	46.901671	0.000000	209.029457
2019		1.286346	0.930382	0.000000	2.216728
2018		2.848197	1.833562	0.000000	4.681759
2017		3.101975	2.158834	0.000000	5.260809
2016		3.399434	2.094637	0.000000	5.494071
2015		3.088304	2.133203	0.000000	5.221507
2014		2.948013	1.970568	0.000000	4.918581
2013		3.462258	2.085681	0.000000	5.547939
2012		3.180785	1.920620	0.000000	5.101405
2011		3.704821	2.082177	0.000000	5.786998
2010		3.209953	1.790733	0.000000	5.000686
2009		4.561343	2.005497	0.000000	6.566840
2008		5.460214	2.052354	0.000000	7.512568
2007		6.202968	1.883672	0.000000	8.086640
2006		8.000489	2.035423	0.000000	10.035912
2005		8.138591	1.893115	0.000000	10.031706
2004		8.582877	2.143637	0.000000	10.726514
2003		9.068517	2.131473	0.000000	11.199990
2002		10.131527	2.027861	0.000000	12.159388
2001		10.225915	2.086386	0.000000	12.312301
2000		10.590520	2.053240	0.000000	12.643760
1999		12.539828	2.138289	0.000000	14.678117
1998		11.690433	1.974892	0.000000	13.665325
1997		13.456461	1.933714	0.000000	15.390175
1996		12.189280	1.419792	0.000000	13.609072
1995		1.058737	0.121929	0.000000	1.180666

Production - charts





Any produced water is only included after 1.1.2000

Wellbores - exploration



Wellbore name	Entered date	Completed date	Purpose	Status	Content
6507/7-2	25.02.1985	10.06.1985	WILDCAT	P&A	OIL/GAS
6507/7-3	29.07.1985	18.09.1985	APPRAISAL	P&A	OIL/GAS
6507/7-4	06.11.1985	13.01.1986	APPRAISAL	P&A	OIL/GAS
6507/7-5	16.01.1986	06.03.1986	APPRAISAL	P&A	OIL/GAS
6507/7-5 A	06.03.1986	05.04.1986	APPRAISAL	P&A	OIL/GAS
6507/7-6	23.07.1986	06.09.1986	APPRAISAL	P&A	OIL/GAS
6507/7-7	11.05.1987	07.06.1987	APPRAISAL	JUNKED	NOT APPLICABLE
6507/7-8	09.06.1987	02.08.1987	APPRAISAL	P&A	OIL/GAS
6507/7-9	04.08.1987	08.08.1987	APPRAISAL	P&A	DRY
6507/8-1	28.10.1986	09.12.1986	APPRAISAL	P&A	OIL/GAS
6507/8-4	14.06.1990	13.08.1990	WILDCAT	P&A	OIL/GAS

Wellbores - development

Wellbore name	Entered date	Completed date	Purpose	Content
6507/7-A-1	18.04.2015	19.05.2015	PRODUCTION	OIL/GAS
6507/7-A-1 A	28.06.2019	05.07.2019	PRODUCTION	OIL
6507/7-A-2	03.06.2009	31.03.2010	PRODUCTION	OIL/GAS
6507/7-A-2 A	26.12.2015	03.01.2016	INJECTION	WATER
6507/7-A-3	13.07.2011	14.10.2011	INJECTION	WATER
6507/7-A-3 A	12.10.2017	04.11.2017	INJECTION	WATER
6507/7-A-4			NOT AVAILABLE	
6507/7-A-5	29.02.2016	29.03.2016	PRODUCTION	OIL
6507/7-A-6	18.03.2001	25.04.2001	PRODUCTION	OIL
6507/7-A-6 A	07.12.2018	23.12.2018	PRODUCTION	OIL/GAS
6507/7-A-7	10.06.1997	20.12.1997	PRODUCTION	OIL
6507/7-A-8	03.08.2013	29.09.2013	PRODUCTION	OIL
6507/7-A-9	28.04.1996	10.06.1996	PRODUCTION	OIL
6507/7-A-9 A	09.02.2000	01.03.2000	PRODUCTION	NOT APPLICABLE
6507/7-A-9 B	04.03.2000	06.04.2000	PRODUCTION	OIL
6507/7-A-9 C			PRODUCTION	
6507/7-A-10	31.12.2002	02.02.2003	PRODUCTION	OIL
6507/7-A-11	24.04.2006	11.06.2006	OBSERVATION	NOT APPLICABLE
6507/7-A-11 A	13.06.2006	23.06.2006	OBSERVATION	NOT APPLICABLE
6507/7-A-11 B	26.06.2006	27.08.2006	PRODUCTION	OIL
6507/7-A-12	09.10.2004	29.10.2004	OBSERVATION	NOT APPLICABLE
6507/7-A-12 A	31.10.2004	30.11.2004	PRODUCTION	OIL
6507/7-A-13	13.07.1999	18.08.1999	PRODUCTION	OIL



6507/7-A-13 A	07.02.2019		INJECTION	
6507/7-A-14	04.11.1993	01.01.1995	PRODUCTION	OIL
6507/7-A-14 A	02.02.2014	01.03.2014	PRODUCTION	OIL
6507/7-A-14 B	03.03.2014	11.03.2014	PRODUCTION	OIL
6507/7-A-14 C	22.05.2019	12.06.2019	INJECTION	WATER
6507/7-A-15	27.01.2006	19.02.2006	OBSERVATION	NOT APPLICABLE
6507/7-A-15 A	25.02.2006	30.03.2006	INJECTION	WATER/GAS
6507/7-A-16	25.10.2001	22.11.2001	PRODUCTION	OIL
6507/7-A-17	12.08.1993	16.02.1994	PRODUCTION	OIL
6507/7-A-17 A	15.04.2007	24.04.2007	OBSERVATION	OIL
6507/7-A-17 B	25.04.2007	07.05.2007	PRODUCTION	DRY
6507/7-A-17 C	05.06.2014	11.07.2014	OBSERVATION	OIL
6507/7-A-17 D	12.07.2014	18.07.2014	PRODUCTION	OIL
6507/7-A-18	02.04.1998	05.05.1998	PRODUCTION	OIL
6507/7-A-18 A	27.04.2016	13.05.2016	PRODUCTION	OIL
6507/7-A-19	11.10.1993	26.12.2000	PRODUCTION	OIL
6507/7-A-19 A	04.09.2013	16.10.2013	PRODUCTION	OIL
6507/7-A-19 B	12.10.2016	09.11.2016	PRODUCTION	OIL
6507/7-A-20	13.10.1992	14.12.1992	PRODUCTION	OIL
6507/7-A-20 A	26.06.2015	12.07.2015	INJECTION	WATER
6507/7-A-21	02.01.2012	06.03.2012	PRODUCTION	OIL
6507/7-A-22	04.02.1998	09.03.1998	PRODUCTION	OIL
6507/7-A-23	18.07.2000	20.08.2000	PRODUCTION	OIL
6507/7-A-24	17.03.2002	21.05.2002	PRODUCTION	NOT APPLICABLE
6507/7-A-24 A	05.10.2002	12.10.2002	PRODUCTION	OIL
6507/7-A-25	19.09.1993	23.10.1996	INJECTION	WATER
6507/7-A-25 A	21.04.2017	11.05.2017	PRODUCTION	OIL
6507/7-A-26	08.11.1999	16.12.1999	PRODUCTION	OIL
6507/7-A-26 A	29.01.2009	24.03.2009	PRODUCTION	OIL
6507/7-A-27	24.05.2005	09.07.2005	INJECTION	WATER
6507/7-A-28	07.11.1992	14.09.1997	PRODUCTION	OIL
6507/7-A-28 A	18.01.2005	28.01.2005	PRODUCTION	OIL
6507/7-A-28 B	25.02.2013	08.04.2013	OBSERVATION	OIL
6507/7-A-28 C	12.04.2013	27.04.2013	PRODUCTION	OIL
6507/7-A-29	16.08.1993	10.12.1993	PRODUCTION	OIL
6507/7-A-29 AY1	30.08.2005	28.10.2005	PRODUCTION	OIL
6507/7-A-29 AY2	29.10.2005	01.12.2005	PRODUCTION	OIL
6507/7-A-30	22.10.2002	11.11.2002	OBSERVATION	NOT APPLICABLE
6507/7-A-30 A	12.12.2002	20.12.2002	PRODUCTION	OIL
6507/7-A-30 B	04.08.2007	14.08.2007	OBSERVATION	OIL



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Field

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6507/7-A-30 C	17.08.2007	29.08.2007	PRODUCTION	OIL
6507/7-A-30 D	31.07.2018	28.08.2018	PRODUCTION	OIL
6507/7-A-31	03.07.2002	25.07.2002	PRODUCTION	OIL
6507/7-A-32	28.12.2001	21.01.2002	PRODUCTION	OIL
6507/7-A-33	22.10.1992	16.03.1993	PRODUCTION	OIL
6507/7-A-33 A	24.12.2013	11.02.2014	PRODUCTION	OIL
6507/7-A-33 B	27.06.2017	17.07.2017	INJECTION	WATER
6507/7-A-34	30.06.2003	26.07.2003	OBSERVATION	OIL
6507/7-A-34 A	27.07.2003	18.08.2003	PRODUCTION	OIL
6507/7-A-34 B	27.06.2018	03.07.2018	INJECTION	WATER
6507/7-A-35	29.10.1992	09.01.1994	PRODUCTION	OIL
6507/7-A-35 A	19.06.2001	11.07.2001	PRODUCTION	OIL
6507/7-A-35 B	12.07.2001	19.07.2001	PRODUCTION	OIL
6507/7-A-35 C	13.03.2005	19.03.2005	OBSERVATION	OIL
6507/7-A-35 D	21.03.2005	01.04.2005	OBSERVATION	OIL
6507/7-A-35 E	03.04.2005	10.04.2005	PRODUCTION	OIL
6507/7-A-36	23.09.1993	17.04.1997	PRODUCTION	OIL
6507/7-A-36 A	29.08.2008	26.10.2008	PRODUCTION	OIL
6507/7-A-36 B	29.11.2016	28.02.2017	PRODUCTION	OIL
6507/7-A-37	20.10.1998	21.12.1998	INJECTION	WATER
6507/7-A-38	31.03.1994	25.04.1994	INJECTION	GAS
6507/7-A-39	01.02.2004	18.02.2004	OBSERVATION	OIL
6507/7-A-39 AY1	23.02.2004	11.04.2004	PRODUCTION	OIL
6507/7-A-39 AY2	12.04.2004	20.04.2004	PRODUCTION	OIL
6507/7-A-40	14.05.1998	20.06.1998	PRODUCTION	OIL
6507/7-A-40 A	14.08.2004	14.09.2004	INJECTION	WATER
6507/7-A-41	29.07.2001	15.08.2001	PRODUCTION	OIL
6507/7-A-41 A	12.06.2008	20.07.2008	PRODUCTION	OIL
6507/7-A-41 B	30.06.2016	26.07.2016	PRODUCTION	OIL
6507/7-A-42	11.08.2002	03.09.2002	OBSERVATION	OIL
6507/7-A-42 A	12.09.2002	19.09.2002	PRODUCTION	OIL
6507/7-A-42 B	30.08.2015	15.11.2015	PRODUCTION	OIL
6507/7-A-43	15.09.1999	14.10.1999	INJECTION	WATER
6507/7-A-43 A	23.06.2012	01.08.2012	PRODUCTION	OIL
6507/7-A-44	17.02.1999	09.04.1999	PRODUCTION	OIL
6507/7-A-44 A	08.02.2007	11.03.2007	PRODUCTION	OIL
6507/7-A-44 B	25.02.2015	20.03.2015	PRODUCTION	OIL
6507/7-A-45	18.10.1993	21.10.2000	PRODUCTION	OIL
6507/7-A-45 A	09.06.2011	17.06.2011	PRODUCTION	OIL
6507/7-A-45 B	18.08.2016	03.09.2016	PRODUCTION	OIL
6507/7-A-46	03.10.1993	24.12.1996	PRODUCTION	OIL
6507/7-A-46 A	27.11.2010	28.03.2011	PRODUCTION	OIL



NPD Factpages

Field

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6507/7-A-46 B	03.04.2019		PRODUCTION	
6507/7-A-47	19.01.2001	16.02.2001	PRODUCTION	OIL
6507/7-A-48	03.05.1999	16.06.1999	PRODUCTION	OIL
6507/7-A-48 A	29.03.2018	15.04.2018	PRODUCTION	OIL
6507/7-A-49	28.05.2004	29.06.2004	INJECTION	WATER
6507/7-A-50	09.08.1993	14.03.1994	PRODUCTION	OIL
6507/7-A-50 A	04.10.2003	27.11.2003	PRODUCTION	OIL
6507/7-A-51	19.10.1993	08.04.1996	INJECTION	WATER
6507/7-A-51 A	04.10.2012	13.12.2012	PRODUCTION	OIL
6507/7-A-52	18.10.1992	07.02.1993	PRODUCTION	OIL
6507/7-A-52 A	09.09.2014	29.10.2014	PRODUCTION	OIL
6507/7-A-53	02.11.1992	14.04.1993	PRODUCTION	OIL
6507/7-A-53 A	21.08.2017	06.09.2017	PRODUCTION	OIL/GAS
6507/7-A-54	20.04.2003	24.05.2003	PRODUCTION	OIL
6507/7-A-55	30.08.2001	02.10.2001	INJECTION	WATER
6507/7-A-56	23.02.2003	19.03.2003	INJECTION	WATER
6507/7-B-1 H	13.08.1994	21.03.1995	INJECTION	WATER
6507/7-B-2 H	15.08.1994	03.03.1995	INJECTION	WATER
6507/7-B-3 H	10.08.1994	17.02.1995	INJECTION	WATER
6507/7-B-4 H	11.04.1999	16.06.1999	INJECTION	WATER
6507/7-C-1 H	19.05.1994	28.07.1994	INJECTION	WATER
6507/7-C-2 H	16.05.1994	09.06.1994	INJECTION	WATER
6507/7-C-3 H	17.05.1994	12.07.1994	INJECTION	WATER
6507/7-C-4 H	28.02.1999	03.04.1999	INJECTION	WATER
6507/7-C-4 AH	25.11.2003	09.03.2004	INJECTION	WATER
6507/8-D-1 H	20.02.2000	29.05.2000	PRODUCTION	OIL
6507/8-D-1 AH	26.12.2010	15.01.2011	PRODUCTION	OIL
6507/8-D-1 BH	12.01.2018	31.01.2018	PRODUCTION	OIL
6507/8-D-2 H	18.08.1999	09.10.1999	PRODUCTION	OIL
6507/8-D-2 AH	26.01.2009	10.02.2009	OBSERVATION	OIL
6507/8-D-2 BH	12.02.2009	20.02.2009	PRODUCTION	OIL
6507/8-D-2 CH	24.02.2009	14.03.2009	PRODUCTION	OIL
6507/8-D-3 H	25.12.1999	14.02.2000	PRODUCTION	OIL
6507/8-D-3 AH	03.09.2001	09.10.2001	PRODUCTION	OIL
6507/8-D-3 BH	07.04.2005	23.05.2005	PRODUCTION	OIL
6507/8-D-3 CH	29.04.2011	19.05.2011	PRODUCTION	OIL
6507/8-D-4 H	26.10.2001	02.12.2001	OBSERVATION	NOT APPLICABLE
6507/8-D-4 AH	04.12.2001	12.12.2001	OBSERVATION	NOT APPLICABLE
6507/8-D-4 BH	20.12.2001	12.02.2002	PRODUCTION	OIL
6507/8-D-5 H	24.05.2006	23.02.2007	PRODUCTION	OIL
6507/8-E-1 H	03.08.2000	27.08.2000	OBSERVATION	NOT APPLICABLE



NPD Factpages

Field

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6507/8-E-1 AH	13.10.2000	18.11.2000	PRODUCTION	OIL
6507/8-E-1 BH	29.08.2002	30.09.2002	PRODUCTION	OIL
6507/8-E-1 CH	14.05.2016	29.05.2016	PRODUCTION	OIL
6507/8-E-2 H	13.01.2001	12.03.2001	OBSERVATION	NOT APPLICABLE
6507/8-E-2 AH	01.07.2001	28.07.2001	PRODUCTION	OIL
6507/8-E-2 BH	30.07.2001	08.08.2001	PRODUCTION	OIL
6507/8-E-3 H	30.07.2000	04.09.2000	OBSERVATION	NOT APPLICABLE
6507/8-E-3 AH	05.09.2000	23.09.2000	OBSERVATION	NOT APPLICABLE
6507/8-E-3 BH	25.09.2000	09.10.2000	OBSERVATION	NOT APPLICABLE
6507/8-E-3 CH	26.11.2000	15.02.2001	PRODUCTION	OIL/GAS
6507/8-E-3 DH	19.02.2001	25.02.2001	PRODUCTION	OIL
6507/8-E-3 EH	20.07.2009	27.07.2009	PRODUCTION	OIL
6507/8-E-3 FH	28.07.2009	05.08.2009	PRODUCTION	OIL
6507/8-E-3 GH	29.01.2019	12.02.2019	PRODUCTION	OIL
6507/8-E-4 H	13.01.2001	10.04.2001	PRODUCTION	OIL
6507/8-E-4 AH	31.03.2006	25.04.2006	PRODUCTION	OIL
6507/8-F-1 H	07.07.2003	14.12.2003	INJECTION	WATER
6507/8-F-1 AH	31.07.2014	18.08.2014	INJECTION	WATER
6507/8-F-2 H	25.04.2002	23.06.2002	INJECTION	WATER
6507/8-F-2 AH	20.09.2017	13.10.2017	INJECTION	WATER
6507/8-F-3 H	01.07.2003	19.11.2003	INJECTION	WATER
6507/8-F-3 AH	05.04.2017	10.06.2017	PRODUCTION	WATER
6507/8-F-4 H	17.03.2002	02.04.2002	INJECTION	WATER
6507/8-F-4 AH	31.03.2014	23.04.2014	INJECTION	WATER
6507/8-F-4 BH	13.02.2017	28.02.2017	INJECTION	WATER