

Oil & natural gas extraction data

Richard Heede
 Climate Mitigation Services
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Murphy Oil Corporation

www.murphyoilcorp.com El Dorado, Arkansas

yellow column indicates original reported units **Investor-owned**



AnnRpt 2010 cover

Production / Extraction data

Year	Crude Oil & NGL			Natural Gas			Background data	
	Net production	Net production	Net production	Net production	Net production	Net production		
	thousand bbl /day	Million bbl /yr	Million bbl /yr	million cf/day	Billion cf/yr	Billion cf/yr		

- 17 1950
- 18 1951
- 19 1952
- 20 1953
- 21 1954
- 22 1955
- 23 1956
- 24 1957
- 25 1958
- 26 1959
- 27 1960
- 28 1961
- 29 1962
- 30 1963
- 31 1964
- 32 1965
- 33 1966
- 34 1967
- 35 1968
- 36 1969
- 37 1970
- 38 1971
- 39 1972
- 40 1973
- 41 1974
- 42 1975
- 43 1976
- 44 1977
- 45 1978
- 46 1979
- 47 1980
- 48 1981
- 49 1982
- 50 1983
- 51 1984
- 52 1985
- 53 1986
- 54 1987
- 55 1988
- 56 1989
- 57 1990
- 58 1991
- 59 1992
- 60 1993
- 61 1994
- 62 1995
- 63 1996
- 64 1997
- 65 1998
- 66 1999
- 67 2000
- 68 2001
- 69 2002
- 70 2003
- 71 2004
- 72 2005
- 73 2006
- 74 2007
- 75 2008
- 76 2009
- 77 2010
- 78 2011
- 79 2012
- 80 2013
- 81 2014
- 82 2015
- 83 2016
- 84 2017
- 85 2018

Incorporated in 1950



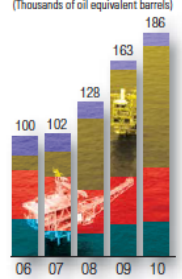
	2013	2012	% Change 2013-2012	2011	% Change 2012-2011
Net Crude Oil and Gas Liquids Produced – barrels per day					
United States	48,387	26,090	85%	17,148	52%
Canada	31,231	28,302	10%	30,049	-6%
Malaysia	53,766	52,683	2%	48,551	8%
Other International	1,694	5,536	-69%	7,412	-25%
Net Natural Gas Sold – thousands of cubic feet per day					
United States	53,212	52,962	0%	47,212	12%
Canada	175,449	217,046	-19%	188,787	15%
Malaysia	194,370	216,745	-10%	217,440	0%
United Kingdom	815	3,371	-76%	3,926	-14%

Murphy Oil Annual Report 2013, p. 2

Estimated Net Proved Hydrocarbon Reserves (Millions of oil equivalent barrels)



Net Hydrocarbons Produced (Thousands of oil equivalent barrels)



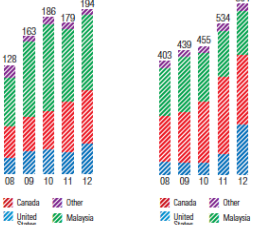
Other
 Malaysia
 Canada
 United States

Other
 Malaysia
 Canada
 United States

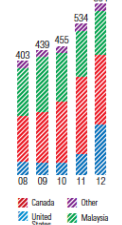
OGJ100

Year	Murphy Oil		Murphy Oil		Murphy Oil		Murphy Oil	
	million bbl /yr	Bcf/yr	million bbl /yr	Bcf/yr	million bbl /yr	Bcf/yr	million bbl /yr	Bcf/yr
1983	no data <1983	no data <1983	21	61	20.8	61.4		
1984	21	61	20	61	20.1	61.4		
1985	19	69	19	69	19.4	69.3		
1986	19	69	19	69	19.4	69.3		
1987	18	67	18	67	17.9	66.5		
1988	18	76	18	76	17.5	75.7		
1989	16	86	16	86	16.1	86.3		
1990	14	93	14	93	14.3	93.2		
1991	11	81	11	81	11.3	80.5		
1992	11	92	11	92	11.4	92.4		
1993	13	101	13	101	12.6	101.2		
1994	19	94	19	94	18.7	94.2		
1995	21	92	21	92	20.8	92.4		
1996	20	82	20	82	19.5	82.3		
1997	57.5	21	21	98	21.0	100.4		
1998	59.1	22	22	84	21.5	84.3		
1999	66.1	24	24	88	24.1	87.8		
2000	65.3	24	24	84	23.9	84.0		
2001	67.4	25	25	103	24.6	103.5		
2002	76.4	28	28	108	23.8	108.3		
2003	83.5	30	30	79	26.7	78.6		
2004	96.7	35	35	51	31.1	51.3		
2005	101.3	37	37	33	33.1	32.9		
2006	87.8	32	32	27	27.7	28.5		
2007	91.5	33	33	22	28.7	24.3		
2008	118.3	43	43	20	38.7	23.0		
2009	131.8	48	48	68	48.2	68.4		
2010	126.9	46	46	130	46.3	130.2		
2011	103.2	38	38	167				
2012	112.6	41	41	179				
2013	135.1	49	49	155	41.2	179.4		
2014	142.4	55	55	163	48.9	154.7		
2015	126.4	50	50	156				
2016	103.4	41	41	138				
2017	90.4	36	36	140				
2018	92.1	37	37	154				
Total	na	1,036	na	3,374	786	2,606		

Net Hydrocarbons Produced (Thousands of oil equivalent barrels per day)



Estimated Net Proved Hydrocarbon Reserves (Millions of oil equivalent barrels)



Murphy Annual Report 2012

Murphy

Cell: I9

Comment: Rick Heede:

"The Company, headquartered in El Dorado, Arkansas, was originally incorporated in Louisiana in 1950 as Murphy Corporation. It was reincorporated in Delaware in 1964, at which time it adopted the name Murphy Oil Corporation. But, the Company's roots go back to a lumber and banking business in South Arkansas and, more directly, to 1907, when the first oil production was established in the Caddo Field in North Louisiana. Thereafter, oil and gas were important phases of the business. Until the mid 1930's however, oil and gas remained subordinate to timber operations and banking. Today, Murphy Oil Corporation is a worldwide oil and gas exploration and production company with marketing operations in the United States and the United Kingdom, including a refinery in Milford Haven, Wales. The Company's farm, timber and real estate subsidiary was spun-off to shareholders in 1996 and is now known as Deltic Timber Corporation. Business activities are conducted by wholly-owned subsidiaries while Murphy Oil Corporation acts as a holding company. Murphy Exploration & Production Company, (Murphy EXPRO) is engaged worldwide in crude oil and natural gas exploration and production. Murphy EXPRO is headquartered in Houston, Texas. Murphy Oil USA, Inc., (MOUSA) is engaged in marketing and transportation of petroleum products in the United States. It is headquartered in El Dorado at Murphy's corporate offices. A division of MOUSA, Murphy USA Marketing Co., operates retail gasoline stations under the Murphy USA® brand across 23 states in the U.S. These are high-volume, low-cost retail gasoline stations, primarily in the parking areas of Wal-Mart Supercenters. The first Murphy USA station was opened in December 1996. MOUSA also operates a network of 6 terminals. These terminals, along with numerous third-party terminals, provide fuel supply to our retail network and wholesale customers throughout 23 states. Murphy Oil Company, Ltd., (MOCL) is engaged in crude oil and natural gas exploration and production and the extraction and sale of synthetic crude oil. MOCL's headquarters are located in Calgary, Alberta, Canada. Murphy Eastern Oil Company, (MEOC) provides technical and professional services to certain of Murphy Oil Corporation's subsidiaries engaged in crude oil and natural gas exploration and production in the Eastern Hemisphere, and refining, marketing and transporting of petroleum products in the United Kingdom primarily under the MURCO® brand. The Company owns a 130,000 barrel-a-day refinery in the Milford Haven, Wales. MEOC is headquartered in St. Albans, Hertfordshire, England. Murphy Sarawak Oil Co.Ltd., Murphy Sabah Oil Co. Ltd., Murphy Peninsular Malaysia Oil Co. Ltd. In 1999, Murphy opened an office in Kuala Lumpur to oversee its E&P activities in Malaysia. Strategic investments in Malaysia are done through these subsidiaries." www.murphyoilcorp.com/about/default.aspx (April 2012)

Cell: D11

Comment: Rick Heede:

On this worksheet we report extractive data for each company or state-owned enterprise. Three columns under crude oil and natural gas allow for data reported in one of three formats (e.g., thousand barrels per day, or million barrels per year, or million tonnes per year). Coal is normally reported in U.S. or metric tonnes per year. Note: the carbon content of the extracted resources is adjusted by a number of factors before emissions estimates are made in the worksheet 1 to the left. Most important is the subtraction of the fraction typically sequestered in petrochemicals and other non-combusted uses such as road oils, waxes, lubricants, greases, etc. See the comment for each extracted resource for detailed discussions of the combusted vs sequestered fractions.

Cell: H12

Comment: Rick Heede:

Natural gas is typically reported as dry gas; natural gas liquids are reported under crude oil. Carbon dioxide is normally removed from the gas flow at the production site (see "Vented Carbon Dioxide"). "SCM/d" = standard cubic meters per day. "cf/d" = cubic feet per day.

Cell: F50

Comment: Rick Heede:

CMS cites OGJ400 crude oil production data for 1983-1996, in million bbl per year.

Cell: J50

Comment: Rick Heede:

CMS cites OGJ400 natural gas production data for 1983-1996, in billion cf per year.

Cell: M50

Comment: Rick Heede:

No gas production data in OGJ400 for 1983; CMS assumes 95 percent of 1984 production.

Cell: D64

Comment: Rick Heede:

Murphy Annual report 2001, page 9, "net crude oil, condensate, and NGLs production, bbl per day" for 1997-2001.

Cell: F64

Comment: Rick Heede:

Murphy Oil Corp AnnRpts 2001 and 2008 for 1997-2008 data. Plus 2010 AnnRpt.

Cell: H64

Comment: Rick Heede:

Murphy Annual report 2001, page 9, "net natural gas sold" - million cf per day for 1997-2001.

Cell: J64

Comment: Rick Heede:

Murphy Oil Corp AnnRpts 2001 and 2008 for 1997-2008 data. 2009 and 2010 from AnnRpt 2010.

Cell: D69

Comment: Rick Heede:

Murphy Annual report 2008, page 6, "net crude oil, condensate, and NGLs production, bbl per day" for 2002-2008.

Cell: H69

Comment: Rick Heede:

Murphy Annual report 2008, page 6, "net natural gas sold" - million cf per day for 2002-2008.

Cell: D76

Comment: Rick Heede:

AR 2010 pg 7 total liquids produced

Cell: H76

Comment: Rick Heede:

AR 2010 pg 7 total natural gas sold; big jump from 2008 noted; sales figures for 2004-2008 consistent with AR 2010

Cell: D78

Comment: Rick Heede:

Murphy Oil AnnRpt 2013, page 2, operating highlights, "net crude oil and gas liquids produced, thousand bbl per day."

Cell: H78

Comment: Rick Heede:

Murphy Oil AnnRpt 2013, page 2, operating highlights, "net natural gas sold, million cf per day."

Cell: D81

Comment: Rick Heede:

Murphy Oil Form 10-K for 2016, p. 28. CAI lists net crude and NGL produced (not sold). US ~45%, Canada ~15% (including 2.766 kbpd heavy oil, 4.637 kbpd synthetic), and Malaysia ~35%.

Cell: H81

Comment: Rick Heede:

Murphy Oil 10-K, page 28. "Net natural gas sold," US ~53 Mcfpd, Canada ~209 Mcfpd, Malaysia ~116 Mcfpd.

Cell: D83

Comment: Rick Heede:

Murphy Oil 10-K for 2018, page 30. Net crude and condensate (92.1 thousand bpd in 2018) plus NGL (9.6 thousand bpd). Production data for 2016-2018. Tables reproduced below.

Cell: H83

Comment: Rick Heede:

Murphy Oil 10-K for 2018, page 30. Net natural gas production for 2016-2018 (2018: 422.8 million cfpd). Table reproduced below.

Cell: L84

Comment: Rick Heede:

Oil & Gas Journal OGJ150, September 2018, page 34.

Cell: L108

Comment: Rick Heede:

CLIMATE CHANGE

On issues of global warming and climate change, Murphy shares the concerns of our shareholders, employees and community. As a company, we recognize that our planet has experienced periods of global warming as well as global cooling.

As of 2012, nine of the previous 12 years have been the warmest of the 21st century since modern records began in 1861. According to NASA's Goddard Institute, 2005 was the warmest year on record, and while the data is incomplete, 2010 appears to have sustained this trend.

The need to advance our knowledge notwithstanding, it is incumbent upon all of us to do what is possible to mitigate the potential impact of greenhouse gases (GHG) on our environment, as well as prepare to adapt to unavoidable changes in the climate system.

Murphy, in consultation with some of the foremost climate experts and scientists in the world that have been studying the issue for nearly a decade, developed in 2008, a corporate set of "Guiding Principles for Climate Change", that is current today, to assist Murphy in communicating to our employees, the public and policy makers our position as climate change events unfold throughout the world. We are a financial sponsor and actively participate in the Massachusetts Institute of Technology Joint Program on the Science and Policy of Global Change since 1998.

With this in mind, Murphy has initiated a series of actions designed to produce a measured and verifiable inventory of greenhouse gas emissions. We began in 2001 and have continued a program of conducting and establishing verifiable, third party measurement of our greenhouse gas emissions annually. Refinement of our emission surveys have continued through the years. A three-year (2009-2011) emission trend and review of Murphy climate change initiatives can be reviewed here. Murphy continues to evaluate a number of cost effective initiatives designed to reduce our greenhouse gas emissions. As these initiatives are implemented, we will monitor our progress through annual emission surveys.

While our program is clearly nascent, we believe with the advent of new technologies and programs such as carbon sequestration, various offsets and trading mechanisms, and reduced flaring, it may be possible for Murphy to continue reducing greenhouse gas emissions on an absolute basis despite growth in our upstream operations. This will benefit not just our shareholders, but our community and world at large.

www.murphyoilcorp.com/Responsibility/Health-Safety-Environment/#Environment

Viewed 24 September 2013