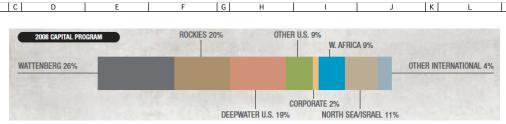


C D	l E l	F	G H					K	
			0 11	ı	'			K	
OPERATING D	ΔΤΑ		20	1Ω	2017	20	016	2015	
Year-end Prove				<u></u>		=`	<u> </u>		
Liquids (MMBbls)			7	23	686		552	496	
Natural Gas (Bcf)			7,2		7,680		308	5,549	
Total (MMBoe)			1,9:	29	1,965	1,4	437	1,421	
Sales Volumes f	rom Continuing (Operations							
Liquids (MBbl/d) ¹	J		1	99	195		186	158	
Natural Gas (MMc	cf/d)			22	1,118		397	1,187	
Total (MBoe/d)				53	381		420	355	
(Noble Energy AnnRpt	2019 2000 9		~			0		
	Noble Ellergy Allikpt	2016, page 6.							
		Sales Volumes	; (1)			Average	Realized Sales	s Prices (1)	
	Crude Oil &	NGI - N	tural Con	Total	Crude O		NOL	N	latural
	Condensate (MBbl/d)		itural Gas MMcf/d) (Total MBoe/d)	Conden: (Per Bl		NGLs (Per Bbl)	(P	Gas er Mcf)
Year Ended Decembe									
United States (2) Eastern Mediterranean	114	62	472 237	255 40	\$	61.12 \$	25.88	S \$	2.53 5.47
West Africa (3)	16	_	213	51		68.53	_	-	0.27
Total Consolidated									
Operations Equity Investees (4)	130	62 5	922	346 7		62.01 68.99	25.88 42.14		2.76
Total	132	67	922			62.10 \$			2.76
Year Ended Decembe	r 31, 2017								
United States	111	58	607		\$	49.11 \$	23.40	\$	3.02
Eastern Mediterranean West Africa (3)	18	_	272 239	46 57		53.68	_		5.32 0.27
Total Consolidated									
Operations	129	58	1,118	373 8		49.73	23.40		3.01
Equity Investees (4) Total	131	64	1,118			55.13 49.84 \$	38.48		3.01
Year Ended Decembe		04	1,110	301	.	47.04 4	24.01		5.01
United States	99	54	881		\$	39.59 \$	14.92	2 \$	2.11
Eastern Mediterranean West Africa (3)	26	_	281 235	47 65		43.54			5.21 0.27
Total Consolidated	20		233	03	•	43.34		-	0.27
Operations	125	54	1,397	413		40.39	14.92		2.42
Equity Investees (4) Total	127	5 59	1,397	7 420		45.44 40.46 \$	26.30 15.96		2.42
Total							13.90		2.42
	Noble Energy 10-K for	2018, page 50.	No details on	total produc	tion vs sale	es			
OPERATING DA	ATA		2015	2014		2013	2012		2011
Year-end Proved R	eserves								
Liquids (MMBbls)			496	432	!	435	357	, 	369
Natural Gas (Bcf)			5,549	5,833		5,828	4,964		5,043
Total (MMBoe)			1,421	1,404		1,406	1,184		1,209
		•••••							
Sales Volumes from	n Continuing Opera	ations							
Liquids (MBbl/d) [1]			158	133		123	109		78
Natural Gas (MMcf/	/d)		1,187	992		901	774		806
Total (MBoe/d)			355	298		273	239		213
	Noble Annual Report								
	zazz zamadi nopon								
OPERATIN	G & FINANCIAL	DATA - 2007 A	NNUAL REDO	DRT					
- OF EMATTIN		LOOF A							
OPERATING DA	NTA .	2007	2006	2005		2004	2003		
OI EIMING DA		2007	2300	2003		2001	2000		
YEAR-END PRO	OVED RESERVES								
Natural Gas (Bo		3,307	3,231	3,	,091	1,987	1,	,642	
Liquids (MMBbl	ls)	329	296	5	291	293	3	183	
Total (MMBoe)		880	835		806	525		457	
SALES VOLUM				,	100			100	
	(1)	251	227		186	134		123	
Natural Gas (Bo									
	ls) [1]	31	30		22	17	' <u> </u>	13	
Natural Gas (Bo	ls) [1]	31 73			22 53	17 39		13 34	
Natural Gas (Bo Liquids (MMBbl	ls) [1] Noble Annual Report	73							

N



Noble Annual Report 2007, page 2.

	Year Ended December 31,											
		2007		2005								
	Production (1) Sales			Production (1)	Sales (2)							
	Bopd	Bopd		\$/Bb1	Bopd	Bopd		\$/Bb1	Bopd		\$/Bb1	
United States (3)	42,332	42,332	\$	53.22	45,798	45,798	\$	50.68	25,941	\$	46.67	
West Africa (4)	15,523	15,070		71.27	17,326	17,860		62.51	17,786		42.51	
North Sea	12,813	12,505		76.47	3,988	3,717		67.43	5,380		52.68	
Other International (5)	6,806	6,674		53.69	7,491	7,540		52.05	7,851		42.37	
Total Consolidated Operations	77,474	76,581		60.61	74,603	74,915		54.47	56,958		45.35	
Equity Investees (6)	8,014	7,684		55.09	7,531	8,032		45.83	3,240		43.43	
Total	85,488	84,265	\$	60.10	82,134	82,947	\$	53.64	60,198	\$	45.25	

85.488 Noble Energy 10-K for 2007, page 41.

Average daily natural gas sales volumes and average realized sales prices were as follows:

	Year Ended December 31,											
	2007			20	06		2005					
	Mcfpd	\$/Mcf		Mcfpd	\$	/Mcf	Mcfpd	\$/Mcf				
North America (1)	412,212	\$	7.51	451,712	\$	6.61	343,953	\$	7.43			
West Africa (2)	132,464		0.29	45,422		0.37	65,581		0.25			
North Sea	6,235		6.54	8,130		8.00	9,299		5.93			
Israel	110,820		2.79	92,894		2.72	66,377		2.68			
Ecuador (3)	25,713		_	24,475		_	22,795		_			
Other International	_		-	294		0.96	190		1.10			
Total	687,444	\$	5.26	622,927	\$	5.55	508,195	\$	5.78			

Noble Energy 10-K for 2007, page 40.

PRODUCTION ACTIVITIES

| 193 | 1945 | 196 | 197 | 200 | 201 | 202 | 203 | 204 | 200 | 207 | 211 | 212 | 213 | 214 | 215 | 222 | 223 | 233 | 234 | 225 | 226 | 227 | 228 | 239 | 230 | 231 | 215 | 222 | 223 | 233 | 234 | 225 | 226 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 230 | 231 | 241 | 242 | 253 | 233 | 234 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243 | 243

As of December 31, 1993, Samedan owned approximately 1,809 net producing oil and gas wells in the United States and Canada and approximately 4 net producing oil and gas wells in other foreign jurisdictions. Net production of oil (including condensate and natural gas liquids), excluding royalty sales, totaled 6,916,767 bbls in 1993 compared to 6,362,593 bbls in 1992. Net production of natural gas, excluding royalty sales, totaled 75,139,423 Mcf in 1993 compared to 73,292,461 Mcf in 1992.

Samedan operates approximately 28 percent of the gross oil and gas wells in which it has an interest, with the remainder operated by others under operating agreements customarily used in the industry.

Samedan Oil 10-K for 1994, page 4.



Noble Annual Report 2018, p. 5.

Cell: M11

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 short tons or metric tonnes per year.

The subtraction of the fraction typically sequestered in petrochemicals and other non-combusted uses such as road oils, waxes, lubricants, greases, etc. Non-fuel uses are accounted for in the emission factors and applied to each entity in the oil, gas, and coal summary worksheets.

Cell: F12

Comment: Rick Heede:

Total net worldwide crude oil plus natural gas liquids produced by each company or state-owned enterprise. Where data is available, we list net production (after royalty production is deducted).

We rely on company annual reports, Form 10-k, or other company data where available. In some cases -- particularly for state-owned oil and gas companies -- we use production data from the Oil & Gas Journal in its OG I150 and OG I100

Crude production includes natural gas liquids (NGL) unless noted.

Cell: J12

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.

Net production typically excludes a number of diverted gas streams. Quantities and fractions vary; ExxonMobil's exclusions are typical of the industry: "Net production available for sale quantities are the volumes withdrawn from ... natural gas reserves, excluding royalties and volumes due to others when produced, and excluding gas purchased from others, gas consumed in producing operations, field processing plant losses, volumes used for gas lift, gas injections and cycling operations, quantities flared, and volume shrinkage due to the removal of condensate or natural gas liquids production." ExxonMobil Corporation (2004) 2003 Financial and Operating Review, www.exxonmobil.com, p. 55.

Cell: D59

Comment: Rick Heede:

Noble Affiliates Inc (Samedan Oil) Form 10-K for 1993, page 4: "As of December 31, 1993, Samedan owned approximately 1,809 net producing oil and gas wells in the United States and Canada and approximately 4 net producing oil and gas wells in other foreign jurisdictions. Net production of oil (including condensate and natural gas liquids), excluding royalty sales, totaled 6,916,767 bbls in 1993 compared to 6,362,593 bbls in 1992. Net production of natural gas, excluding royalty sales, totaled 75,139,423 Mcf in 1993 compared to 73,292,461 Mcf in 1992.

Cell: D61

Comment: Rick Heede:

Noble Affiliates Inc (Samedan Oil) Form 10-K for 1995, page 4: "As of December 31, 1995, Samedan owned approximately 1,895 net producing oil and gas wells in the United States and Canada and approximately 3.3 net producing oil and gas wells in other foreign jurisdictions. Net production of oil (including condensate and natural gas liquids), excluding royalty sales, totaled 9,136,312 bbls in 1995 compared to 8,081,047 bbls in 1994. Net production of natural gas, excluding royalty sales, totaled 96,984,816 Mcf in 1995 compared to 87,729,371 Mcf in 1994

Cell: D63

Comment: Rick Heede:

Noble Affiliates Form 10-K for 1997, page 6 shows "Net Production. The following table sets forth Samedan's net production including royalty and working interest of oil and natural gas" for 1995 to 1997. Note: oil and gas production reported for 1995 is slightly higher (9.3 Mb and 99.4 Bcf) than reported in the 1995 10-K.

Page 3: "The Company's wholly owned subsidiary, Samedan, has been engaged in the exploration, production and marketing of oil and gas since 1932. Samedan has exploration, exploitation and production operations in nine prominent areas: four domestic areas and five international areas. The domestic areas consist of: offshore in the Gulf of Mexico, the Gulf Coast (Texas and Louisiana), the Mid Continent (Oklahoma and Southern Kansas), and the Rocky Mountain division (Colorado, Montana, North Dakota, Wyoming and California). The international areas of operations include Argentina, China, Ecuador, Equatorial Guinea and the U.K. Sector of the North Sea.

Cell: D65

Comment: Rick Heede:

Noble Affiliates Form 10-K for 1999, page 6 shows "Net Production of oil (Mb) and natural gas (Bcf).

Cell: D67 Comment: Rick Heede:

Noble Affiliates Form 10-K for 2001, page 6 shows Net Production of oil (Mb) and natural gas (Bcf).

Cell: D69

Comment: Rick Heede:

Noble Affiliates Inc Form 10-K for 2004, page 23 shows Operating Statistics for 2000 to 2004; production of crude oil (and presumably NGLs) and natural gas.

Cell: D72

Comment: Rick Heede:

Noble Form 10-K for 2007, page 41 "Average daily crude oil sales volumes and average realized sales prices" (table reproduced below). This table shows both oil production and sales for 2007, though, for consistency with data entered for later years, we enter data for oil sales, total of Consolidated Operations and Equity Investees.

Footnote 1: "The variance between production and sales volumes is attributable to the timing of liquid hydrocarbon tanker

liftings.

Cell: H72 Comment: Rick Heede:

Noble Form 10-K for 2007, page 41 "Average daily natural gas sales volumes and average realized sales prices" (table reproduced below). Of 2007 sales of 687 millio cfpd, 412 Mcfpd in USA, 132 Mcfpd from Equitorial Guinea (to methanol and LG plant and NGL facility), and 111 Mcfpd in Israel. See table below.

Cell: D75

Comment: Rick Heede:

Noble Energy AnnRpt and 10-K for 2010, page 49, "Average daily sales volumes and average realized sales prices" for both crude oil and condensate and NGLs, in thousand bpd.

Cell: H75

Comment: Rick Heede:

Noble Energy AnnRpt and 10-K for 2010, page 49, "Average daily sales volumes and average realized sales prices" for natural gas, in million cfpd.

Note: Noble uses 6,000 cf per bbl conversion.

Cell: D78

Comment: Rick Heede:

Noble Annual Report 2015, page 6. Sales volumes from continuin operations, in thousand bbl per day, 2011-2015,

Cell: D82

Comment: Rick Heede:

Noble Energy AnnRpt 2018, page 8. Total liquids "sales volumes from continuing operations" in thousand bbl per day.

Cell: H82

Comment: Rick Heede:

Noble Energy AnnRpt 2018, page 8. Total natural gas "sales volumes from continuing operations" in million cf per day.

Comment: Rick Heede:

Noble Annual report 2018 gives sals data from 2015 to 2018; the 10-K only gives detailed data, including NGLs, page 50, for 2016 - 2018.