Crude oil & NGL extraction data

Richard Heede
Climate Mitigation Services
File started: 11 January 2005
Last modified: March 2019

Chevron Corporation, USA

www.chevron.com San Francisco

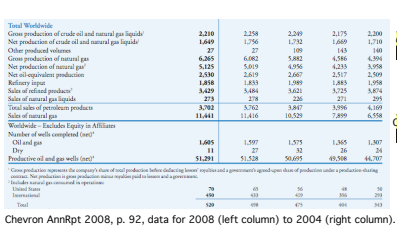
yellow column indicates original **Investor-owned**

Production / Extraction data

Crude Oil & NGL

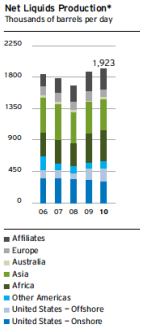
Year	Company 1	Company 2	Company 3	Company 4	Company 5	Company 6	Company 7	Sum production	Company 1	Company 2	Company 3	Company 4	Company 5	Company 6	Company 7	Company 8	Sum production
	Thousand bbl /d	Thousand bbl /d	Thousand bbl /d	Thousand bbl /d	Thousand bbl /d	Thousand bbl /d	Thousand bbl /d	Thousand bbl /d	Million bbl /yr	Million bbl /yr	Million bbl /yr	Million bbl /yr	Million bbl /yr	Million bbl /yr	Million bbl /yr	Million bbl /yr	Million bbl /yr
	Standard Oil of California, and Chevron	Texaco	Pacific Western, & Getty	Tide Water Petr., acq by Getty	Mission & Skelly Oil Co's (acq. by Getty)	Gulf Oil 1937-1984	Tenneco 1950-1988	Total	Socal and Chevron	California Petr., Texas Co, & Texaco	Pacific Western, Getty	Tide Water Petroleum, acq by Getty	Mission & Skelly Oil, acq. by Getty	Gulf Oil	Tenneco	Union Oil, Pure Oil, Unocal	**Total**
1910										California Petr.						Acquired in 200	**Chevron oil**
1911										acq. by Texas Co in 1928							Million bbl /yr
1912										5.7							**6**
1913										5.5							**5**
1914										6.5							**7**
1915										4.4							**4**
1916										3.9							**4**
1917										3.3							**3**
1918										3.4							**3**
1919										3.3							**3**
1920										4.0							**4**
1921										4.3							**4**
1922										8.1							**8**
1923										17.4							**17**
1924										14.9							**15**
1925				Tide Water						14.4						Unocal	**14**
1926				65.0						15.4			24			-	**53**
1927				65.7	assumed growth				20 Mcf gas	17.6			24			13.6	**55**
1928				66.3	1.0 percent/yr					19.5	interpolated		24			13.1	**55**
1929				67.0	1927-1959				Standard Oil Cali	21.4			24			11.7	**65**
1930	41.3			67.6					38.8	23.3			25			19.2	**102**
1931	35.5			68.3					33.4	25.1			25			15.5	**96**
1932	35.7			69.0					33.6	27.0			25			12.3	**99**
1933	36.0			69.7					33.9	28.9	Texas Co net		25			13.2	**100**
1934	37.9			70.4					35.7	30.8			26			11.8	**105**
1935	44.5			71.1					41.9	37.6	Pacific Western		26			12.7	**121**
1936	43.1			71.8					40.5	44.3	2.7		26	Gul Oil net		15.7	**131**
1937				72.5					44.4	49.8	2.8		26	Mission & Skelly	net = 0.841 gro	17.0	**209**
1938				73.2					42.0	48.2	2.6		27	20.8	63.0	18.8	**240**
1939	grs 38.4			74.0				Socal net est.	36.2	63.4	2.0		27	20.6	63.7	36.8	**251**
1940	grs 37.8			74.7	23.6			for 1939-1951	35.6	84.6	1.8		27	8.6	78.4	37.9	**276**
1941	grs 38.9	Socal gross prod		75.5	26.9			from 1952	36.6	73.7	2.2		28	9.8	86.2	40.0	**278**
1942	grs 47.1	Million bbl per yr		76.2	26.9			net of gross	44.4	65.3	2.1		28	9.8	66.5	41.8	**260**
1943	grs 65.5			77.0	58.3	*interpolated*		0.941	61.6	72.0	2.6		28	21	73.1	44.1	**308**
1944	grs 79.2			77.7	89.7				74.5	84.0	3.1		28	33	101	49.3	**380**
1945	grs 97.9			78.5	93.9				92.2	86.4	2.8		29	34	118	55.9	**418**
1946	grs 124.0			79.3	91.7				117	85.1	3.3		29	33	129	55.6	**450**
1947	grs 133.0			80.1	94.2				125	92.3	3.5		29	34	142	net = 0.844 gro	**480**
1948	grs 160.6			80.9	94.7				151	100	3.7		30	35	166	53.5	**544**
1949	grs 167.8			81.7	89.3	Gulf Oil			158	96	3.4		30	33	172	58.1	**543**
1950	grs 178.9	500		82.5	89.3	500			168	184	3.4		30	33	178	net = 0.878 gro	**649**
1951	grs 208.8	560		83.4	103.0	633			197	223	3.4		30	38	231	51.1	**781**
1952		620		84.2	102.9	689			210	239	3.4		31	38	252	52.5	**833**
1953		680		85.0	78.5	737	Tennesse Trnsm		216	259	4.3		31	29	269	58.9	**874**
1954		740		85.9	78.8	763	Tenneco prod'n		227	275	6.9		31	28	279	Tennesse Trnsm	**913**
1955		800		86.7	85.3	886	17		248	301	8.2		32	31	323	Tenneco prod'n	**1,016**
1956		920		87.6	86.8	997	23		277	331	11		32	32	352	65.2	**1,110**
1957		1,040		88.5	89.5	1,151	27		303	358	19		32	33	408	66.7	**1,228**
1958		1,160		89.4	84.8	1,299	31		292	375	21		33	31	461	67.5	**1,283**
1959		1,280		90.3	86.2	1,345	40		304	417	25		33	31	476	65.6	**1,362**
1960		1,269	271	assumed in Getty	85.4	1,506	47		340	463	29			31	550	59.6	**1,283**
1961	net 1,031	1,380	293	1960-1969	87.2	1,531	58		376	504	75			32	559	61.6	**1,362**
1962	net 1,117	1,493	308		71.1	1,699	65		408	545	87			26	620	67.4	**1,497**
1963	net 1,177	1,595	310		71.6	1,809	64		430	582	87			26	660	67.0	**1,634**
1964	net 1,239	1,667	316		72.1	1,933	63		452	608	89			26	706	71.4	**1,780**
1965	net 1,422	1,853	334		72.9	2,082	64		519	676	95			27	760	75.0	**1,883**
1966	net 1,618	2,057	359	Merger 1966	78.4	2,233	66		590	751	102			29	815	79.6	**1,984**
1967	net 1,780	2,367	372		84.6	2,375	67		650	864	105	Merger 1966		31	867	87.4	**2,188**
1968	net 1,972	2,571	377		89.8	2,552	69		720	938	105			33	931	95.1	**2,406**
1969	net 2,154	2,755	388		88.8	2,810	70		786	1,006	109			32	1,026	99.1	**2,640**
1970	net 2,404	2,987			93.1	3,056	72		878	1,090	121			34	1,115	111.8	**2,864**
1971	grs 2,890	3,275				3,289	73		752	1,195	128			33	1,200	124.1	**3,109**
1972	grs 3,324	3,777	423			3,214	75	Socal net est.	865	1,379	122			32	1,173	135.5	**3,400**
1973	grs 3,736	4,286	411			2,904	76	for 1971-1983	972	1,564	119			31	1,060	133.1	**3,731**
1974	grs 3,814	4,607	418			2,407	78	from 1984	993	1,682	121			32	879	138.6	**3,913**
1975	grs 3,025	3,591	409			1,254	81	net of gross	787	1,311	117			32	458	132.8	**3,867**
1976	grs 3,542	4,015	398			871	76	0.713	922	1,396	145			32	318	134.0	**2,869**
1977	grs 3,403	3,933	431			847	77		886	1,367	157			16	309	127.3	**2,968**
1978	grs 3,289	3,552	444		Merger 1977	733	82	Texaco net est.	856	1,235	162			Merger 1977	267	122.3	**2,886**
1979	grs 3,199	3,626	425			792	87	for 1976-1980	833	1,261	155				289	113.8	**2,664**
1980	grs 3,009	3,316	416			756	81	from 1975	783	1,153	152				276	96.8	**2,666**
1981	grs 2,813	3,053	424			615	109	net of gross	732	1,114	155				224	97.0	**2,491**
1982	grs 1,863	1,895	423			581	120	0.953	485	692	154				212	39.9	**2,363**
1983	grs 1,371	1,486	421			593	116		357	542	154				216	43.8	**1,684**
1984	net 952	1,495	210			296	127		347	374	77				108	42.2	**1,409**
1985	net 1,056	1,328	Merger 1984			Merger 1984			385	382	Merger 1984			Merger 1984		46.5	**1,051**
1986	net 1,041							*Oil & Gas Journal*	380	382						52.0	**917**
1987	net 989							1984-2000	361	355						52.0	**912**
1988	net 970								354	329						58.0	**871**
1989	net 949						Merger 1988		346	269						29.0	**809**
1990	net 935								341	261						Merger 1988	**710**
1991	net 958								350	250						95.0	**686**
1992	net 944								345	231						84.0	**694**
1993	net 950								347	228						84.0	**660**
1994	net 993								362	297						84.0	**659**
1995								*Oil & Gas Journal*	365	290						95.0	**754**
1996								1984-2000	382	300						67.0	**722**
1997									391	317						76.0	**758**
1998		net production							405	351						72.0	**780**
1999	net 2,049								411	336						67.0	**823**
2000	net 1,997								424	292						64.0	**811**
2001	net 1,959							Chevron AnnRpts	715	Merger 2001						65.0	**781**
2002	net 1,897							2001-2004	692							61.0	**776**
2003	net 1,808	gross production							660							61.0	**753**
2004	net 1,850	2,200							675							58.4	**718**
2005	net 1,812	2,175							661							58.0	**733**
2006	net 1,841	2,249							672							Acquired 2005	**661**
2007	net 1,783	2,258							651								**672**
2008	net 1,676	2,210							612								**651**
2009	net 1,872	2,380							683								**612**
2010	net 1,923	2,516							702								**683**
2011	1,849								675								**702**
2012	1,764								644								**675**
2013	1,731								632								**644**
2014	1,709								624								**632**
2015	1,744								637								**624**
2016	1,719								627								**637**
2017	1,723								629								**627**
2018	1,782								650								**629**
																	650
Total									**38,228**	**33,517**	**3,065**	**955**	**1,150**	**20,155**	**957**	**5,582**	**103,610**

	Consolidated	Affiliates	Percent affiliates
	Kbpd	Kbpd	Percent
2015	1,408	336	19.3%
2016	1,376	343	20.0%
2017	1,368	355	20.6%
2018	1,443	339	19.0%



Chevron AnnRpt 2008, p. 92, data for 2008 (left column) to 2004 (right column).

Note:
Get Caltex (Socal/Texas Co joint) data from 1936 Fwd
Get Casoc data (became Aramco in TK)



Natural gas extraction data

Richard Heede
Climate Mitigation Services
File started: 11 January 2005
Last modified: March 2019

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

Chevron Corporation, USA

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Production / Extraction data

Natural Gas

Year	Company 1	Company 2	Company 3	Company 4	Company 5	Company 6	Sum production	Company 1	Company 2	Company 3	Company 4	Company 5	Company 6	Company 7	Sum production
	Million cf/d	Million cf/d	Million cf/d	Million cf/d	Million cf/d	Million cf/d	Million cf/d	Billion cf/yr	Billion cf/yr	Billion cf/yr	Billion cf/yr	Billion cf/yr	Billion cf/yr	Billion cf/yr	Billion cf/yr
	Standard Oil of California, Chevron	Texas Co & Texaco	Pacific Western, and Getty	Skelly Oil, acq. by Getty	Gulf Oil	Tenneco	Total	Socal and Chevron	Texas Co & Texaco	Pacific Western, and Getty	Skelly Oil, acq. by Getty	Gulf Oil	Tenneco	Union Oil, Pure Oil, Unocal	**Total**
														Acquired in 2005	
1910															
1911															
1912															
1913															
1914															
1915															
1916															
1917															
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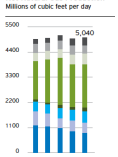
1925															
1926															
1927															
1928															
1929															
1930															
1931	Standard Oil Calif							Standard Oil Calif	Texas Co						**Chevron gas**
1932	Natural gas is produced, "natural gasolines" processed, but no quantities published							15	Texas Company does not report gas prod'n 1934 to 1949						**15**
1933		Texas Co						28							**28**
1934								52							**52**
1935								70							**70**
1936															
1937															
1938	338.2	Texas Company does not report natural gas production for any year from 1934 to 1949			Estim. Gulf Oil net gas prod'n			75	Est. Texas gas			Gulf Oil net gas prod'n			**75**
1939	283.0			Skelly net gas prod'n	64.4			72	57		Skelly net gas prod'n	24			**153**
1940				106.1	78.7			83	50		39	29			**200**
1941	Annual Bcf			104.3	67.4			81	44		38	25			**188**
1942				102.3	82.4			93	49		37	30			**209**
1943			*interpolated*	100.3	126.7			103	57		37	46			**243**
1944				123.7	164.1			91	59		45	60			**254**
1945	Socal reports Bcf per year 1943-1951			147.1	199.7	est. from crude/gas ratio		83	58		54	73			**268**
1946				170.5	244.1			93	63		62	89			**306**
1947				193.8	317.7			113	68		71	116			**368**
1948				217.2	364.4			117	72		79	133			**402**
1949				240.6	418.6		659	114	139		88	153			**493**
1950				264.0	544.6		809	87	163		96	199		Unocal	**545**
1951				287.4	594.4		882	81	181		105	217		-	**585**
1952				310.8	634.1		945	84	209		113	231		64	**702**
1953				320.0	656.3		976	99	244	Estim. Getty gas	117	240		141	**841**
1954	Socal reports Bcf per year 1952-1960			330.0	762.0	36.9	1,129	113	300	39	120	278	13	161	**1,025**
1955				353.2	830.0	33.7	1,217	108	340	51	129	303	12	167	**1,110**
1956				353.1	931.5	45.5	1,330	123	370	88	129	340	17	179	**1,246**
1957				331.5	911.9	73.9	1,317	163	431	98	121	333	27	196	**1,370**
1958				346.8	1,023.3	122.0	1,492	177	471	120	127	374	45	212	**1,524**
1959				340.1	1,148.2	180.1	3,825	217	526	137	124	419	66	244	**1,732**
1960		1,440	716.4	334.4	1,220.5	243.8	4,846	279	576	136	122	445	89	265	**1,912**
1961	763	1,578	706.1	300.5	1,423.5	257.1	5,306	329	622	152	110	520	94	279	**2,106**
1962	902	1,705	718.2	313.6	1,549.1	266.7	5,766	364	680	169	114	565	97	291	**2,281**
1963	997	1,863	776.2	326.1	1,783.4	303.8	6,333	400	729	183	119	651	111	317	**2,510**
1964	1,095	1,998	826.7	332.4	2,092.4	369.5	6,860	413	757	193	121	764	135	326	**2,709**
1965	1,132	2,074	860.3	336.0	2,366.6	435.2	7,931	488	934	205	123	864	159	359	**3,131**
1966	1,337	2,560	896.2	363.6	2,688.0	500.9	8,831	518	1,054	222	133	981	183	382	**3,473**
1967	1,419	2,887	972.0	385.5	2,994.4	566.7	9,775	554	1,191	241	141	1,093	207	408	**3,835**
1968	1,519	3,262	1,046.9	403.8	3,188.1	632.4	10,586	577	1,336	261	147	1,164	231	503	**4,220**
1969	1,581	3,661	1,119.9	458.8	3,486.0	698.1	10,357	616	1,469	272	167	1,272	255	533	**4,585**
1970	1,688	4,026			3,539.3	763.9	10,152	609	1,526	278	174	1,292	279	536	**4,693**
1971	1,668	4,181			3,572.1	829.6	12,019	610	1,710	271	189	1,304	303	544	**4,931**
1972	1,671	4,685	1,261.4		3,360.4	895.3	11,612	576	1,648	274	187	1,227	327	510	**4,749**
1973	1,579	4,516	1,261.2		3,028.4	961.1	11,405	687	1,585	256	178	1,105	351	512	**4,675**
1974	1,883	4,343	1,189.9		2,433.4	1,140.4	10,510	657	1,473	238	165	888	416	480	**4,316**
1975	1,800	4,035	1,101.5		2,035.1	1,154.6	9,898	653	1,433	362	165	743	421	458	**4,235**
1976	1,789	3,927	992.7		2,166.7	1,107.0	9,827	649	1,417	326	82	791	404	412	**4,081**
1977	1,778	3,883	891.9	Merger 1977	2,152.8	1,108.2	9,663	625	1,421	291	Merger 1977	786	404	386	**3,913**
1978	1,712	3,894	796.5		2,175.9	1,156.7	9,594	632	1,331	322		794	422	396	**3,897**
1979	1,732	3,646	883.1		2,032.1	1,139.1	8,891	635	1,133	320		742	416	390	**3,635**
1980	1,739	3,103	877.7		1,896.8	1,221.9	8,097	611	878	328		692	446	384	**3,340**
1981	1,674	2,405	899.7		1,635.9	1,080.2	7,379	593	781	327		597	394	379	**3,072**
1982	1,626	2,140	896.9		1,462.8	979.1	6,803	589	677	325		534	357	373	**2,856**
1983	1,615	1,855	891.5	assumed	731.4	1,188.9		863	1,009	325		267	*371*	*368*	**3,203**
1984	2,365	2,764	891.5	assumed	Merger 1984			940	858	Merger 1984		Merger 1984	371	362	**2,531**
1985	2,575	2,352	Merger 1984	Merger 1984				830	860				371	362	**2,423**
1986	2,274						Chevron AnnRpts 1984-1994	828	885	*Oil & Gas Journal* 1986-2000			372	428	**2,513**
1987	2,269							848	912				186	448	**2,394**
1988	2,324							1,001	803				Merger 1988	481	**2,285**
1989	2,743							1,119	817					521	**2,457**
1990	3,067							1,024	805					581	**2,410**
1991	2,806							1,013	755					611	**2,379**
1992	2,776							922	748					623	**2,293**
1993	2,525							960	782					686	**2,428**
1994	2,631						*Oil & Gas Journal* 1984-2000	888	766					690	**2,344**
1995								900	794					700	**2,394**
1996								886	839					721	**2,446**
1997								873	879					690	**2,442**
1998	net production							913	786					706	**2,405**
1999	4,657							904	682					755	**2,341**
2000	4,466						Chevron AnnRpts 2001-2004	1,612	Merger 2001					786	**2,398**
2001	4,417							1,597						666	**2,264**
2002	4,376							1,567						631	**2,197**
2003	4,292	gross production						1,445						551	**1,996**
2004	3,958	4,394						1,545						Acquired 2005	**1,545**
2005	4,233	4,586						1,809							**1,809**
2006	4,956	5,882						1,832							**1,832**
2007	5,019	6,082						1,871							**1,871**
2008	5,125	6,265						1,821							**1,821**
2009	4,989	6,130						1,840							**1,840**
2010	5,040	6,239						1,803							**1,803**
2011	4,941	includes natural gas consumed in operations						1,852							**1,852**
2012	5,074	includes natural gas consumed in operations						1,895							**1,895**
2013	5,192	includes natural gas consumed in op						1,886							**1,886**
2014	5,167							1,923							**1,923**
2015	5,269							1,917							**1,917**
2016	5,252							2,202							**2,202**
2017	6,032							2,514							**2,514**
2018	6,889														
Total	**na**	**na**	**21,475**			**na**		**63,845**	**44,293**	**6,812**	**4,168**	**23,790**	**8,352**	**23,153**	**174,412**

Chevron Supplement 2013, cover photo

Chevron Annual Report 2010, page 56.

Refined Product Sales — Year ended December 31

Thousands of barrels per day	2010	2009	2008	2007	2006
United States					
Gasoline	700	720	692	728	712
Gas oil and kerosene	232	226	229	221	252
Jet fuel	223	254	274	271	280
Residual fuel oil	99	110	127	138	128
Other petroleum products	95	93	91	99	122
Total United States	1,349	1,403	1,413	1,457	1,494
International[1]					
Gasoline	521	555	589	581	595
Gas oil and kerosene	583	647	710	730	776
Jet fuel	271	264	278	274	266
Residual fuel oil	197	209	257	271	324
Other petroleum products	192	176	182	171	166
Total International	1,764	1,851	2,016	2,027	2,127
Worldwide[2]					
Gasoline	1,221	1,275	1,281	1,309	1,307
Gas oil and kerosene	815	873	939	951	1,028
Jet fuel	494	518	552	545	546
Residual fuel oil	296	319	384	409	452
Other petroleum products	287	269	273	270	288
Total Worldwide	3,113	3,254	3,429	3,484	3,621



Chevron in Nigeria

Produced	Utilized	Flared
Bcf	Bcf	Bcf
194.3	76.0	118.3

	Consolidated	Affiliates	Percent affiliates
	Mcfpd	Mcfpd	Percent
2015	4,888	381	7.2%
2016	4,796	456	8.7%
2017	5,371	661	11.0%
2018	6,244	645	9.4%

Coal & Supplementary data

Richard Heede
Climate Mitigation Services
File started: 11 January 2005
Last modified: March 2019

Chevron Corporation, USA

Production / Extraction data

Year	Coal					
	Company 1	Company 2	Sum production	Company 1	Company 2	Sum production
	Million tons/yr	Million tons/yr	Million tons/yr	Million tonnes/yr	Million tonnes/yr	Million tonnes/yr
		Pittsburgh & Midway / Gulf Oil / Chevron				
1910						
1911						
1912						
1913						
1914						
1915						
1916						
1917						
1918						
1919						
1920						
1921						
1922						
1923						
1924						
1925						
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1930						
1931						
1932						
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1935						
1936						
1937		Chevron Supplement 2013, cover photo				
1938						
1939						
1940						
1941						
1942						
1943						
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1947						
1948						
1949						
1950						
1951						
1952						
1953						
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962		Linked to Pittsburgh & Midway Coal worksheet				
1963						
1964						
1965		8.2				7.4
1966		8.8				8.0
1967		9.0				8.1
1968		9.2				8.4
1969		7.6				6.9
1970		7.8				7.1
1971		7.1				6.4
1972		7.5				6.8
1973		8.1				7.3
1974		7.5				6.8
1975		7.3				6.6
1976		7.9				7.2
1977		8.2				7.4
1978		8.7				7.9
1979		9.3				8.4
1980		9.7				8.8
1981		16.1				14.6
1982		14.2				12.8
1983		12.3				11.2
1984		13.3				12.1
1985		13.3				12.1
1986		12.9				11.7
1987		12.5				11.3
1988		12.9				11.7
1989		15.1				13.7
1990		15.1				13.7
1991		15.0				13.6
1992		16.7				15.2
1993		19.8				18.0
1994		19.8				18.0
1995		17.1				15.5
1996		15.8				14.3
1997		15.5				14.0
1998		22.1				20.0
1999		15.2				13.8
2000		12.9				11.7
2001		16.0				14.5
2002		14.1				12.8
2003		12.2				11.1
2004		10.3				9.3
2005		10.1				9.2
2006		12.6				11.4
2007		12.0				10.9
2008		11.1				10.1
2009		9.8				8.9
2010		7.8	selling coal interests in 2011			7.1
2011						
2012						
2013						
2014						
2015						
2016						
Total	-	538	-	-	-	504

Annual report data

Net Natural Gas Production[1,2]

Year ended December 31

Millions of cubic feet per day		2010	2009	2008	2007	2006
Consolidated Companies						
United States						
Alabama	- Onshore	24	29	30	31	36
	- Offshore	48	54	56	62	67
Alaska	- Onshore	68	69	73	80	85
	- Offshore	32	27	30	30	30
California		96	90	88	97	101
Colorado		104	102	90	98	100
Louisiana	- Onshore	5	8	10	16	22
	- Offshore	332	358	300	405	443
New Mexico		97	99	103	101	122
Oklahoma		39	42	45	52	55
Texas	- Onshore	302	364	441	457	425
	- Offshore	38	39	46	64	95
Utah		1	1	40	48	50
Wyoming		110	99	129	135	153
Other states		18	18	20	23	26
Total United States		1,314	1,399	1,501	1,699	1,810
Other Americas						
Argentina		5	27	45	50	54
Brazil		7	–	–	–	–
Canada		4	4	4	5	6
Colombia		249	245	209	178	174
Trinidad and Tobago		223	199	189	174	174
Venezuela[3]		–	–	–	–	21
Total Other Americas		488	475	447	407	429
Africa						
Angola		52	49	52	48	47
Chad		6	5	5	4	4
Democratic Republic of the Congo		1	1	2	2	2
Nigeria		86	48	72	15	29
Republic of the Congo		10	13	12	7	8
Total Africa		155	116	142	76	90
Asia						
Azerbaijan		11	10	7	5	4
Bangladesh		404	387	414	275	126
China		13	16	22	22	18
Indonesia		236	268	319	277	302
Kazakhstan		149	161	153	149	143
Myanmar		81	76	89	100	89
Partitioned Zone		23	21	20	17	19
Philippines		124	137	128	126	108
Thailand		875	794	894	916	856
Total Asia		1,916	1,870	2,046	1,887	1,665
Total Australia		458	434	376	372	360
Europe						
Denmark		116	119	142	132	146
Netherlands		35	41	40	5	7
Norway		1	1	1	1	1
United Kingdom		194	222	208	220	242
Total Europe		346	383	391	358	396
Total Consolidated Companies		4,677	4,677	4,903	4,799	4,750
Equity Share in Affiliates						
TCO		338	289	195	193	193
Petropiar (Hamaca prior to 2008)		10	8	9	10	9
Petroboscan[4]		6	6	7	6	1
Petroindependiente[4]		9	9	11	11	3
Total Equity Share in Affiliates		363	312	222	220	206
Total Worldwide		5,040	4,989	5,125	5,019	4,956
United States		62	58	70	65	54
International		475	463	450	433	419
Total		537	521	520	498	475

[1] 2006 through 2009 conformed to 2010 geographic presentation.
[2] Net natural gas production excludes royalty interests and a government's agreed-upon share of production under a PSC; includes natural gas consumed in operations.
[3] Includes production from LL-652 through September 2006.
[4] Joint stock company formed in October 2006.

Net Liquids Production[1,2,3]

Year ended December 31

Thousands of barrels per day		2010	2009	2008	2007	2006
Consolidated Companies						
United States						
Alaska	- Onshore	11	12	12	14	15
	- Offshore	3	2	5	5	5
California		183	196	201	205	207
Colorado		10	9	10	10	10
Louisiana	- Onshore	1	1	1	2	2
	- Offshore	178	154	77	106	101
New Mexico		19	21	21	21	20
Texas	- Onshore	66	71	76	77	79
	- Offshore	4	3	4	5	6
Wyoming		7	7	7	7	8
Other states		7	8	7	8	9
Total United States		489	484	421	460	462
Other Americas						
Argentina		31	33	37	39	38
Brazil		23	2	–	–	–
Canada		53	27	36	35	46
Trinidad and Tobago		1	1	–	–	–
Venezuela[4]		–	–	–	–	3
Total Other Americas		108	63	73	74	87
Africa						
Angola		152	141	145	171	156
Chad		27	26	28	31	34
Democratic Republic of the Congo		2	3	2	3	3
Nigeria		239	225	142	126	139
Republic of the Congo		23	19	11	7	11
Total Africa		443	414	328	338	343
Asia						
Azerbaijan		28	28	28	60	46
Bangladesh		2	2	2	2	–
China		18	17	19	22	23
Indonesia		187	199	182	195	198
Kazakhstan		39	42	41	41	38
Partitioned Zone		94	101	103	109	111
Philippines		4	4	5	5	6
Thailand		70	65	67	71	73
Total Asia		442	458	447	505	495
Total Australia		34	35	34	39	39
Europe						
Denmark		32	35	37	41	44
Netherlands		2	2	2	3	3
Norway		3	5	6	6	6
United Kingdom		64	73	71	78	75
Total Europe		101	115	116	128	128
Total Consolidated Companies		1,617	1,569	1,419	1,544	1,554
Equity Share in Affiliates						
TCO		252	226	168	144	135
Petropiar (Hamaca prior to 2008)		28	26	34	39	36
Petroboscan[4]		25	24	27	28	7
Petroindependiente[4]		1	1	1	1	–
Total Equity Share in Affiliates		306	277	230	212	178
Total Consolidated Companies and Affiliates		1,923	1,846	1,649	1,756	1,732
Other Produced Volumes						
Athabasca Oil Sands in Canada		–	26	27	27	27
Boscan operating service agreement in Venezuela[4]		–	–	–	–	82
Total Other Produced Volumes		–	26	27	27	109
Total Worldwide		1,923	1,872	1,676	1,783	1,841
United States		51	50	47	51	48
International		21	20	19	18	19
Total		72	70	66	69	67

[1] 2006 through 2009 conformed to 2010 geographic presentation.
[2] Net liquids production excludes royalty interests and a government's agreed-upon share of production under a PSC.
[3] Net production of natural gas liquids:
[4] Includes production from LL-652 through September 2006.
[5] Joint stock company formed in October 2006.
[6] Includes volumes through September 2006.

Chevron Annual Report 2010, page 41.

Net production of oil and gas through concessions, joint ventures, etc.

Angola, page 21.

Nigeria, page 23

Kazakhstan

Bangladesh

Partitioned Zone (Saudi Arabia / Kuwait)

Cell: J9
Comment: Rick Heede:
History (wikipedia: en.wikipedia.org/wiki/Chevron_Corporation)
"Chevron traditionally traces its roots to an oil discovery in Pico Canyon (now the Pico Canyon Oilfield) north of Los Angeles. The discovery led to the formation, in 1879, of the Pacific Coast Oil Company (also known as "Coast Oil"), the oldest predecessor of Chevron Corporation.
In 1895, Coast Oil initiated its enduring marine history when it launched California's first steel tanker, the George Loomis, which could ship 6,500 barrels of crude between Ventura and San Francisco.[6] Coast Oil was acquired in 1900 by the Standard Oil Co. (Iowa), a subsidiary of John D. Rockefeller's Standard Oil company. In 1906, Coast Oil was reincorporated as Standard Oil Co. (California).
Another side of the genealogical chart points to the founding of The Texas Fuel Company in 1901, a modest enterprise that started out in three rooms of a corrugated iron building in Beaumont, Texas, United States. This company was known as the Texas Company and later Texaco.
In 1911, Standard Oil Co. (California) was severed from its parent corporation, Standard Oil, as a result of the federal government's successful lawsuit against Standard Oil under the Sherman Antitrust Act. It went on to become part of the "Seven Sisters" that dominated the world oil industry in the early 20th century. In 1926, the company fixed its awkward parenthetical name by changing its name to Standard Oil Co. of California, or SoCal. In 1933, Saudi Arabia granted SoCal a concession to find oil, and oil was found in 1938. In 1948, SoCal discovered the world's largest oil field (Ghawar) in Saudi Arabia. SoCal's subsidiary, California-Arabian Standard Oil Company, developed over years, to become the Arabian American Oil Company (ARAMCO) in 1944. In 1973, the Saudi government began buying into ARAMCO. By 1980, the company was entirely owned by the Saudis, and in 1988, the name was changed to Saudi Arabian Oil Company (Saudi Aramco).
Standard Oil of California and Gulf Oil merged in 1984, the largest merger in history at that time. Under the antitrust regulation, SoCal divested many of Gulf's operating subsidiaries, and sold some Gulf stations and a refinery in the eastern United States. SoCal changed the name to Chevron Corporation.
In January 1996, NGC (formerly NYSE: NGL) and Chevron announced plans to merge Chevron's natural gas and natural gas liquids business with NGC. On May 23, 1996, the companies reached an agreement in principle to merge their business. Under the agreement, Chevron transferred its natural gas gathering, operating and marketing operation to NGC in exchange for a roughly 25 percent equity stake in NGC. On August 30, shareholders approved the deal creating North America's largest natural gas and gas liquids wholesaler. In 1998, NGC Corporation was renamed Dynegy (NYSE: DYN).
In a merger completed February 1, 2000, Illinova Corp. (formerly NYSE: ILN) became a wholly owned subsidiary of Dynegy Inc., in which Chevron also took a 28% stake. However, Chevron in May 2007 sold its roughly 12 percent (at the time) Class A common stock in the company for approximately $985 million, resulting in a gain of $680 million.
On October 15, 2000 Chevron announced it would acquire Texaco (NYSE: TX) creating the second largest oil company in the United States and the world's fourth-largest publicly traded oil company with a combined market value of approximately $95 billion. On October 9, 2001, the shareholders of Chevron and Texaco voted to approve the merger creating ChevronTexaco. The deal was valued at $45 billion.
On May 9, 2005, ChevronTexaco announced it would drop the Texaco moniker and return to the Chevron name. Texaco remains as a brand under the Chevron Corporation On April 4, 2005, Chevron announced it planned to purchase Unocal Corporation (NYSE: UCL) for $18.4 billion increasing the company's petroleum and natural gas reserves by about 15 percent. On August 10, 2005, Unocal Corporation shareholders approved Chevron's acquisition of the company. The deal was valued at $18 billion. Because of Unocal's large South East Asian geothermal operations, Chevron became the world's largest producer of geothermal energy.
In July 2010, Chevron ended retail operations in the Mid Atlantic US, removing the Chevron and Texaco names from 1,100 stations in Delaware, Indiana, Kentucky, North Carolina, New Jersey, Maryland, Ohio, Pennsylvania, South Carolina, Virginia, West Virginia, Washington, D.C., and parts of Tennessee.
On November 9, 2010, Chevron announced it would acquire Pennsylvania based Atlas Energy Inc. (NASDAQ: ATLS) for $3.2 billion in cash and an additional $1.1 billion in existing debt owed by Atlas. On February 18, 2011, the shareholders of Atlas energy voted to approve the merger. The deal was valued at $4.3 billion."

Cell: T11
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: T12
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 OGJ150 and OGJ100.
Crude production includes natural gas liquids (NGL) unless noted.

Cell: AM12
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: AW12
Comment: Rick Heede:
Coal production by coal mining companies and state-owned enterprises, including subsidiaries of oil and gas companies. The coal rank (which reflects the heating value and carbon content per tonne) of produced coals is noted where reported by each entity. See the coal entity workbooks or summary worksheets for details.

Cell: D15
Comment: Rick Heede:
Standard Oil (California) becomes independent upon the dissolution of Standard Oil by the the Supreme Court in 1911. Known as Socal since 1926. Acquired Signal Oil in 1947. Acquired Standard Oil (KY) in 1961. Gulf Oil merges with Socal and becomes Chevron Corporation in 1984.

Cell: E15
Comment: Rick Heede:
Texaco: Texas Fuel Company founded in 1901. Acquired California Petroleum Corp in 1928 and Indian Refining Co in 1931, Trinidad Oil Co in 1956, Seaboard Oil Co in 1958, and Paragon Oil Co in 1959. Texaco acquired Getty Oil in 1984.
We have not tracked or included Trinidad, Seabord, or Paragon oil and gas production. Getty Oil Co.'s production is included, but neither Mission nor Skelly production has been included.

Cell: F15
Comment: Rick Heede:
Getty Oil: Pacific Western Oil Corp founded 1928; changes name to Getty Oil Co in 1956; Mission Corp and Skelly Oil Co merge into Getty Oil in 1977; acquired by Texaco in 1984.

Cell: G15
Comment: Rick Heede:
http://en.wikipedia.org/wiki/Texaco -
"Texaco bought Getty Oil (including Tidewater Petroleum) in 1984. The Getty name and stations in the Northeastern United States were sold to Power Test and are now owned by Lukoil. Getty's Skelly stations in several Midwestern states rebranded as Texaco stations.
http://en.wikipedia.org/wiki/Tidewater_Petroleum
"In 1878 Tidewater Oil Company of Pennsylvania moved to Bayonne, NJ. In 1928, Pacific Western Oil Corporation incorporated as a holding company for Edward L. Dohery and family which subsequently came under the control of J. Paul Getty. In 1938, Tidewater merged with Associated Oil from the west coast to form Tide Water Associated Oil which began to use the “Flying A” symbol of Associated Oil. In 1966, “Flying A” stations on the west coast were sold and the new east coast company became the Getty Oil Company, and in 1969 the brand became Getty. Getty was later acquired by Texaco in 1984."

Cell: I15
Comment: Rick Heede:
Gulf Oil (J.M. Guffey Petroleum in 1907) acq Warren Petroleum in 1956. Spencer Chemical and its subsidiary The Pittsburgh & Midway Coal Mining Co. acq in 1963. Gulf Oil merges with Socal and becomes Chevron Corporation in 1984.
Wiki: Getty Oil is an oil company founded by J. Paul Getty in 1964. Soon after 1970, the Getty Oil Company sold its European activities to Burmah Oil. At that time its assets included the rights to the Veedol name and a refinery in Gaeta, Italy (which had an associated Getty branded service station).[2] Burmah kept Veedol separate from its main Castrol brand, and the name was still in used in several countries after BP bought Burmah in 2000. In 1984, Texaco bought Getty Oil of Los Angeles, California. By General Assignment, Conveyance, Bill of Sale and Transfer dated December 31, 1984, Getty Oil Company transferred its upstream interests to Texaco. On November 19, 1985, Pennzoil won a US$10.53 billion verdict from Texaco in the largest civil verdict in US history. (Texaco established a signed contract to buy Getty Oil after Pennzoil had already entered into an unsigned, yet still binding, buyout contract with Getty.)

Cell: J15
Comment: Rick Heede:
Tenneco assets acquired by Chevron Corp in 1988.
ChevTex history at website.

Cell: AS15
Comment: Rick Heede:
Gulf Oil acquired Pittsburgh & Midway Coal Mining Company in 1963 (unknown source, CK details, including the coal company's disposition by Gulf prior to being acquired by Texaco in 1984, or perhaps thereafter).

Cell: M17
Comment: Rick Heede:
Getty net oil production; no deduction for Skelly.

Cell: M19
Comment: Rick Heede:
Chevron reports both gross and net production. Since most company data is given in net, we report net here. For benchmarking total production, gross for 1984 = 2,855 Mcf/d whereas net = 2,365 Mcf/d. (gross = 1.21 of net).

Cell: G33
Comment: Rick Heede:
"Letter from Paul Shoup, President, Associated Oil Company, San Francisco, March 6, 1926. To the Stockholders of the Associated Oil Company:
Enclosed statement and offer are submitted by resolution of the Board of Directors of your Company for your consideration. The statement [not on the file] sets forth comprehensively a plan for the affiliation of the Associated Oil Company (of California) and the Tide Water Oil Company through the organization of the Tide Water Associated il Company of Delaware which will acquire the stock of the other two companies....
The two companies handle about 130,000 barrels per day, approximately one-half their own production and the other half purchased."

Cell: G34
Comment: Rick Heede:
CMS does not have Tide Water Petroleum annual reports subsequent to the 1926 production estimate. CMS assumes a growth in crude oil and NGL production of a modest 1.0 percent per year through 1959, at which point CMS also assumes Tide Water's production is reflected in Getty's 1969 annual report. Actual production data will, of course, differ from our estimated production, however conservative.

Cell: M34
Comment: Rick Heede:
CMS estimates Getty's production of natural gas by assuming a constant crude oil to gas ratio based on the known ratio in 1960. CMS only estimates gas production for 1956-1959.

Cell: L36
Comment: Rick Heede:
Standard Oil Company of California reports crude oil production (gross only) for years 1930 through 1952. CMS estimates net oil production (including NGL for 1943-1951) based on the net equal to 0.9413 of gross in 1952. Details below.

Cell: D37
Comment: Rick Heede:
Standard Oil Company of California annual report for 1931, p. 3, shows company gross production of 35.45 million bbl (97,136 bbl per day) in 1931, and 41.27 million bbl (113,070 bbl per day) in 1930. CMS estimates company net production (details below and in column K).

Cell: L37
Comment: Rick Heede:
Standard Oil Company of California net production estimated from reported gross production in annual reports for 1931 through 1938. Details below and in column D.

Cell: Y38
Comment: Rick Heede:
Oil plus NGL production 1971-1973 from Socal (1976) AnnRpt 1975, p. 41. Gross production only.

Cell: D40
Comment: Rick Heede:
Standard Oil Company of California annual report for 1934, p. 3, shows company gross production of 36.04 million bbl domestic (field development in Bahrein, but no reported production). CMS estimates company net production (details below and in column K).

Cell: N40
Comment: Rick Heede:
Net crude oil production from Texas Company and Texaco Annual Reports, various years, is shown in column M, starting in 1935 (1912-21934 is California Petroleum Company, acquired by Texas Co in 1929). We are misssing annual reports for 1941 and 1942, and we interpolate between 1940 and 1943. All years report net production, except 1934-1938, in which years we apply the known net of gross factor for 1939 (net = 0.823 of gross).
No natural gas production data reported in any annual reports from 1934 through 1949.

Cell: D41
Comment: Rick Heede:
Standard Oil Company of California annual report for 1934, p. 5, shows company gross production of 37.616 million bbl domestic, plus 0.285 million bl in Bahrein, for a total of 37.901 million bbl. CMS estimates company net production (details below and in column K).

Cell: M41
Comment: Rick Heede:
Texas Company Annual Report for 1935, p. 1, only reports gross production for 1934 and 1935. We apply the known net of gross factor in 1939, in which year net = 0.8230 of gross.
1934: reported gross of 37.4183 * 0.8230 = estimated net of 30.7953 million bbl.

Cell: D42
Comment: Rick Heede:
Standard Oil Company of California annual report for 1935, p.5, shows crude oil production (domestic) totaling 44.54 million bbl; CMS may be missing this report's pages that detail foreign production. Since net production, or in the day's parlance, "working interest barrels," is not shown, CMS applies the net of gross factor shown for the company in 1952, when net totaled 0.9413 of gross.
Note: likely production of wet gas and processed "natural gasoline" is not reported and not estimated here.

Cell: M42
Comment: Rick Heede:
Texas Company Annual Report for 1936, p. 2, oinly reports gross production for 1935 and 1936). In 1939, net = 0.8230 of gross.
1935: reported gross of 45.707 * 0.8230 = estimated net of 37.617 million bbl.
1936: reported gross of 53.838 * 0.8230 = estimated net of 44.309 million bbl.

Cell: AF42
Comment: Rick Heede:
Standard Oil of California reports production of natrual gas for most years from 1939. CMS estimates gas production for 1935-1938 based on the known crude oil / natural gas ratio in 1939, but as increasing from 50 percent of the ratio in 1935 to ninety percent of the ratio in 1938 in order to reflect the rapidly increasing market for natural gas in the U.S.

Cell: D43
Comment: Rick Heede:
Standard Oil Company of California annual report for 1936, p.6, shows crude oil production (domestic) totaling 43.06 million bbl; CMS may be missing this report's pages that detail foreign production.* Since net production, or in the day's parlance, "working interest barrels," is not shown, CMS applies the net of gross factor shown for the company in 1952, when net totaled 0.9413 of gross.
Note: likely production of wet gas and processed "natural gasoline" is not reported and not estimated here.
* Company acreage in Venezuela, Mexico, Colombia, Arabia, Bahrain, Java, and Sumatra is mentioned.

Cell: L43
Comment: Rick Heede:
Estimated net production; see column D.

Cell: N43
Comment: Rick Heede:
Pacific Western Oil Corporation Annual Report for 1937, p. 8, shows gross and net crude oil production; we enter net production here. 1937 net (2.815 million bbl) was 0.759 of gross (3.595 million bbl).

Cell: Q43
Comment: Rick Heede:
Net crude oil production from Gulf Oil annual reports.

Cell: L44
Comment: Rick Heede:
Standard Oil Company of California annual report for 1937, p.3, shows "Working Interest Barrels" totaling 44.04 million bbl (Gross production of 48.15 million bbl less 3.74 million bbl of "Lessors Royalty"). CMS adds reported "royalty received barrels" of 0.364 million bbl. Total net production reported here = 44.41 million bbl.

Cell: M44
Comment: Rick Heede:
Texas Company Annual Report for 1938, p. 3, oinly reports gross production (60.4766 million bbl). We apply the "net of gross" datum reported in 1939: 60.4766 * 0.8230 = 49.770 million bbl estimated net in 1938.

Cell: Q44
Comment: Rick Heede:
Gulf Oil Corporation (1939) 1938 Annual Report, p. 5, shows gross and net crude oil produced; we report net here; 1938 net = 62.984 million bbl, gross = 74.900 million bbl, net = 0.841 of gross.

Cell: L45
Comment: Rick Heede:
Standard Oil Company of California annual report for 1938, p.3, shows "Working Interest Barrels" totaling 41.9 million bbl (Gross production of 44.8 million bbl less 2.8 million bbl of "Lessors Royalty"). CMS adds reported "royalty received barrels" of 0.143 million bbl. Total net production reported here = 42.01 million bbl.

Cell: M45
Comment: Rick Heede:
Texas Company Annual Report for 1939, p. 3. Net crude oil production of 48.16 million bbl, and 58.52 million bbl gross; net = 0.8230 of gross.

Cell: N45
Comment: Rick Heede:
Pacific Western Oil Corporation Annual Report for 1938, p. 8, shows gross and net crude oil production; we enter net crude oil production (2.437 million bbl) plus net Casinghead Gasoline production (0.163 million bbl) here.

Cell: P45
Comment: Rick Heede:
Mission Corporation / Tide Water Associated Oil Company (1940) Annual Report for 1939, shows 20.768 million bbl net production in 1938. See following note.

Cell: D46
Comment: Rick Heede:
Standard Oil Company of California gross world-wide production.

Cell: L46
Comment: Rick Heede:
Standard Oil Company of California net production is estimated by multiplying the company's gross production by its "net of gross" shown in 1952. See below for details.

Cell: M46
Comment: Rick Heede:
The Texas Company (1941?) Annual Report for 1940, p. 4, reports net and gross crude oil production for 1939 and 1940. In 1940, gross totaled 99.07 million bbl, and net of 84.60 million bbl; net = 0.854 of gross. We report net production here.

Cell: N46
Comment: Rick Heede:
Pacific Western Oil Corporation Annual Report for 1939, p. 8, shows gross and net crude oil production; we enter net crude oil production (1.882 million bbl) plus net Casinghead Gasoline production (0.109 million bbl) here.

Cell: P46
Comment: Rick Heede:
Mission Corporation / Tide Water Associated Oil Company (1941) Annual Report for 1940, shows 21.7575 million bbl net production in 1940 and 20.5603 million bbl in 1939. Tide Water (presumably) became Skelly the following year, with (presumably) some disinvestment of assets (since 1940 production is reported as 21.7 million bbl here and as 8.6 millin bbl the following year. We have, therefore, only entered the datum for 1939: 20.56 million bbl.

Cell: Q46
Comment: Rick Heede:
Gulf Oil Corporation (1940) Annual Report for 1939, p. 5.

Cell: AC46
Comment: Rick Heede:
CMS estimates Gulf Oil's production of natural gas by assuming a the known crude oil to gas ratio in 1956, but, as conservatism, a ration that declines by ten percent for each year prior to 1950. CMS estimates gas production for 1940-1955.

Cell: AG46
Comment: Rick Heede:
CMS estimates Texas Co's production of natural gas by assuming a constant crude oil to gas ratio based on the known ratio in 1950; the ratio is discounted by 10 percent for 1940-1948. CMS only estimates gas production for 1940-1949.

Cell: H47
Comment: Rick Heede:
Mission Corporation / Skelly Oil Company (1942) 22nd Annual Report, 1941.

Cell: H48
Comment: Rick Heede:
Mission Corporation / Skelly Oil Company (1943) 23rd Annual Report, 1942. "Company's net crude oil production for 1942 and 1941 in both bbl per day and per year.

Cell: M48
Comment: Rick Heede:
Texas Company Annual Report 1950, p. 34-35, shows net and gross crude oil and condensate produced.

Cell: Q49
Comment: Rick Heede:

Gulf Oil Corporation (1943) Annual Report for 1942, p. 7; production was "substantially less than in 1941. ... decrease in foreign production" (mostly Mexico and Venezuela). However, no statistical data is shown. The report also mentions natural gas wells, but no production data.
Gulf Oil's 1943 Annual Report shows gross and net production for 1942 and 1943; we report net crude oil prod'n here. 1943: net = 0.852 of gross.

Cell: AB49

Comment: Rick Heede:
Mission Corporation / Skelly Oil Company (1943) 23rd Annual Report, 1942. The company reports on oil and gas wells completed, and crude oil produced, but no natural gas production, except in the "Manufacturing" paragraph, in which the company "processed 57,118,778 M cu. ft. of natural and casinghead gas" in 1942 (= 57.119 Bcf); also reports 58.096 Bcf in 1941. We assume here that two-thirds of this gas is net natural gas production, or 104.326 million cf per day in 1942 and 106.111 million cf/d in 1941.

Cell: D50
Comment: Rick Heede:
Standard Oil Company of California gross world-wide production of crude oil and NGL. CMS estimates net production as discussed in column K for 1943 to 1951.

Cell: L50
Comment: Rick Heede:
Standard Oil Company of California annual report for 1952, pp. 12-13, does not report world-wide net production. (The company instead reports gross and net western hemisphere crude oil plus NGL, the company's proportion of eastern hemisphere gross crude oil production by stock interest, purchases of crude oil (excluding royalty), refinery runs, sales of crude oil, and sales of petroleum products.) Given the lack of reported net world-wide crude plus NGL production, CMS estimates SoCal's global net oil plus NGL production by multiplying its reported global gross crude oil plus NGL times the 1952 global net of gross reported in the company's 1961 annual report, when net = 0.9413 of gross production.

Cell: M50
Comment: Rick Heede:
The Texas Company (1945?) Annual Report for 1944, "statistical information" shows net and gross crude oil production for 1943 and 1944 (which is reported below). In 1943, gross totals 84.70 million bbl, and net of 71.952 million bbl; net = 0.849 of gross. We report net production here. Operating data also shows additional "crude oil purchased" of 70.19 million bbl in 1943.

Cell: N50
Comment: Rick Heede:
Pacific Western Oil Corporation Annual Report for 1943, p. 4, shows gross and net crude oil production; we enter net crude oil production.

Cell: AF50
Comment: Rick Heede:
Standard Oil Company of California annual report for 1952, pp. 12-13.

Cell: H51
Comment: Rick Heede:
Data for 1944-1952 from Mission Corporation / Skelly Oil Company (1954) Annual Report for 1953, table on production. Data is "net production, total liquids, bbl/ per day," sum of crude oil and NGL (of which NGL is 5 to 8 percent).

Cell: M51
Comment: Rick Heede:
The Texas Company (1946) Annual Report for 1945, consolidated operating data shows net and gross crude oil produced in 1945 and 1944. Gross totals 101.64 million bbl in 1945 and net of 86.44 million bbl; net = 0.850 of gross. We report net production here. Operating data also shows additional "crude oil purchased" of 94.865 million bbl in 1945.

Cell: Q51
Comment: Rick Heede:
Gulf Oil Corporation (1946) Annual Report for 1945, p. 19, shows net and gross production for 1944 and 1945; we show net.

Cell: AB51
Comment: Rick Heede:
The Mission / Skelly Annual Report for 1953 shows crude oil and substantial NGL production, but no natural gas production is shown. If we assume that natural gas production is a constant relative to reported NGL production, which was 310.8 million cf of gas and 14,226 bbl of NGL (in 1953, in the 1962 AnnRpt), or 21,846 cf per bbl of NGL, then 1944 reported NGL production of 4,591 bbl per day suggests 100.29 million cf of natural gas production per day.

Cell: M53
Comment: Rick Heede:
The Texas Company (1948) Annual Report, consolidated operating data shows net and gross crude oil and condensate production in US and South America in 1946 and 1947. Gross totals 108.79 million bbl in 1947 and net of 92.34 million bbl; net = 0.849 of gross. We report net production here. Operating data also shows additional "crude oil purchased, less sales" of 53.55 million bbl in 1947.

Cell: Q53
Comment: Rick Heede:
Gulf Oil Corporation (1948) Annual Report for 1947, p. 7, shows gross and net; we report "net crude oil produced, US plus foreign plus Kuwait (Gulf's share)" of 129.215 million bbl in 1946; excluding Kuwait, net = 0.844 of gross.

Cell: M55
Comment: Rick Heede:
The Texas Company (1950) Annual Report, consolidated operating data shows net and gross crude oil and condensate production in US, Canada, and South America. Gross totals 114.515 million bbl in 1949 and net of 96.281 million bbl; net = 0.841 of gross. We report net production here. Operating also shows additional "crude oil purchased, less sales" of 66.446 million bbl in 1949.

Cell: N55
Comment: Rick Heede:
Pacific Western Oil Corporation Annual Report for 1949, p. 4, shows net crude oil production only for 1948 and 1949. CMS estimates net production for 1947 by interpolation.

Cell: Q55
Comment: Rick Heede:
Gulf Oil Corporation (1948) Annual Report for 1947, p. 7, shows gross and net; we report "net crude oil produced, US plus foreign" of 171.859 million bbl in 1949; net = 0.844 of gross.

Cell: D57
Comment: Rick Heede:
Total crude oil production for Standard Oil Company of California cited in Bamberg (2000) for the year 1950 totaled 450,000 bbl per day, or 164.3 million bbl per year, which is quite close to our estimatd net production in the same year (168.4 million bbl).

Cell: E57
Comment: Rick Heede:
Bamberg (2000) "History of British Petroleum" shows Texaco oil production estimates for 1950, 1955, 1960, 1965, and 1970. Bamberg presumably reports gross production, but this is not explicit, and we infer this from comparing his estimates to actual net and gross production data from Texas Company reports, when available.

Cell: I57
Comment: Rick Heede:
Bamberg, History of British Petroleum, Gulf oil production estimates for 1950, 1961, 1965, and 1970.

Cell: M57
Comment: Rick Heede:
Texaco Inc. Annual Report 1959, Operations Summary, shows "net crude oil produced, including equity in affiliates" (405.2 million bbl in 1959 *) and "production of natural gas liquids" (11.5 million bbl in 1950). CMS adds these data for each year 1950-1959. * note: Texaco includes operations of the Paragon group of companies for 1958 and 1959 only "to reflect a pooling of interests in 1959." Production data for the year 1950 overlaps prduction data in the 1950 annual report (see below), in which net production of 10.29 million bbl is reported. In the 1959 annual report, however, shows 1950 net production of 179.1 million bbl of crude oil plus 5.2 million bbl of NGL. CMS uses this data set for 1950 through 1959 on the assumption that newer data reflect better estimates and the production by acquired companies and operations.
Texas Company Annual Report 1950, p. 34-35, shows net (102.9 million bbl) and gross (122.2 million bbl) crude oil and condensate produced in 1950 (net = 0.917 of gross); the report shows production for 1941-1950. The Company does not report natural gas production for these years.
Note: the above 1950 Annual Report shows lower production than subsequent reports:
Texaco crude oil production data for 1950, 1955, 1960, 1965, and 1970 inferred from a chart comparing crude oil production 1950-1970 (five-year "datums").
Bamberg (2000) British Petroleum and Global Oil 1950-1975, Fig. 9.1 (p. 221) shows production by all Seven Sisters (SONJ, Shell, BP, Gulf, Texaco, Socal, and Socony Mobil (in that order in 1961)).
Original data in kbbl/d. Texaco 1950 = 500 kbbl/d, 1955 = 800, 1960 = 1,400, 1965 = 2,050, and 1970 = 3,200 kbb/d.

Cell: Q57
Comment: Rick Heede:
Gulf Oil Corporation (1960) Annual Report for 1959, p. 16-17, shows gross and net; we report "net crude oil and condensate produced." By 1959, net (476 million bbl) had increased to 0.927 of gross (513.5 million bbl).

Cell: AG57
Comment: Rick Heede:
Texaco Inc. Annual Report 1959, Operations Summary, shows "natural gas sales" for 1950-1959. Production data is not shown.

Cell: E58
Comment: Rick Heede:
Interpolated production data 1951-1954, and 1956-1959.

Cell: N58
Comment: Rick Heede:
Getty Oil Company (1961) 32nd Annual Report for 1960, pp. 6-7, shows "Net company barrels Crude Oil Produced and Sold," we sum domestic and foreign; all US in 1951, but 89 percent foreign by 1960.

Note: No natural gas production is shown.

Cell: AC58
Comment: Rick Heede:
Gulf annual reports do not show natural gas production for 1950-1955. CMS estimates gas production by assuming that the company's crude oil production for the same years is a reasonably accurate guide to its gas production. Thus, the known ratio between oil and gas (997,452 bbl/d and 830 Bcf/d) in 1956 is applied to Gulf's oil prduction for 1950-1955 to estimate gas production for hte same years. Actual production likely differs somewhat, and may be updated if Gulf provides gas production data prior to 1956 (and oil production prior to 1950, for that matter).

Cell: L59
Comment: Rick Heede:
Standard Oil Company of California annual report for 1961, pp. 30-31, reports "net production of crude oil and natural gas liquids" world-wide for 1952-1961. Also reports gross production and sales of petroleum products.
Gross production: 222.7 million bbl in 1952 and 401.0 million bbl in 1961.
Net production: 209.6 million bbl in 1952 and 376.5 million bbl in 1961.
Net of gross: 0.941 in 1952 and 0.939 in 1961.
Sales of petroleum products: 225.1 million bbl in 1952 and 436.1 million bbl in 1961.
Sales of net production: 1.074 in 1952 and 1.158 in 1961.

Cell: AF59
Comment: Rick Heede:

Standard Oil Company of California 1961 Annual Report, p. 30-31: "Sales of natural gas," billion cu. ft. per year, for 1952-1960, western hemisphere only (no gas sales reported for worldwide or eastern hemisphere, although gross production of natural gas liquids is reported, but combined with crude oil.

Cell: H60
Comment: Rick Heede:
Data for 1953-1961 from Mission Corporation / Skelly Oil Company (1963) Annual Report for 1962, table on production. Data is "net production, total liquids, bbl/ per day," sum of crude oil and NGL (of which NGL is 18 to 26 percent).
As in 1962, there is a reporting discontinuity at 1953; the 1954 report shows 99,024 bbl per day for 1953 whereas the 1963 rpt shows 78,514 bbl per day, a discrepancy of over 20 thousand bbl/d or 7.5 million bbl per year.

Cell: AB60
Comment: Rick Heede:
Data for 1953-1961 from Mission Corporation / Skelly Oil Company (1963) Annual Report for 1962, table on production. Data is "net natural gas produced," in thousand cf per day (entered here in million cf/d).

Cell: I61
Comment: Rick Heede:
Gulf annual report 1955, p. 2, shows net crude oil produced for 1954 and 1955.

Cell: J61
Comment: Rick Heede:
Tennesse Gas Transmission Annual Report 1955 shows substantial gas purchases (539 Bcf in 1955) and transmission for 1946-1955, but no oil or natural gas production (although 860 to 1,430 producing wells are shown in the table for 1954 and 1955, and zero prior to 1954).

Cell: J62
Comment: Rick Heede:
Tennessee Gas Transmission Company (Tenneco) Annual Report 1964 shows net crude oil and condensate, NGLs, and natural gas production, daily bbl and mcf. We sum crude + condensate and NGL (9,516 bbl per day of 63,247 bbl per day total liquids, or 0.150 of total liquids in 1964).

Cell: AD62
Comment: Rick Heede:
Tennessee Gas Transmission Company (Tenneco) Annual Report 1964 shows net natural gas production, daily mcf.

Cell: I63
Comment: Rick Heede:
Gulf annual report 1965, pp. 36-37, shows "net crude and condensate produced" and "net natural gas liquids" for 1956-1965. CMS adds these data sets.

Cell: AC63
Comment: Rick Heede:
Gulf Annual report 1965, pp. 36-37 shows "net natural gas production" for 1956-1965. CMS uses a later annual report for 1965, however, since that year's production totaled 2,092 Bcf per day in the 1969 report and 1,982 Bcf per day in the 1965 report. Which suggests that production for 1956-1964 may also be higher than reported here; such updating happens with regularity.

Cell: I64
Comment: Rick Heede:
Oil production global data for 1957 and 1958 only from Gulf Oil (1959) Annual Report, pp. 18-19.

Cell: AC64
Comment: Rick Heede:
Gas production (US only) data for 1957 and 1958 only from Gulf Oil (1959) Annual Report, pp. 18-19.

Cell: I66
Comment: Rick Heede:
Oil production (net) for 1959 and 1960 in Gulf Oil (1961) Annual Report, p. 12. Also reports annual production (gross) of 513.52 million bbl in 1959 and (net) of 476.03 million bbl.

Cell: E67
Comment: Rick Heede:
Texaco, Inc. Annual Report 1969, Ten-Year Operations Summary 1960-1969, shows "net production of crude oil and natural gas liquids, worldwide, including equity in affiliates," in million bbl per day. Also reports gross production; in 1969, net (2,755 thousand bbl per day), gross (2,987 thousand bbl per day), net = 0.922 of gross.

Cell: G67
Comment: Rick Heede:
Tide Water oil production for 1960 to the company's acquisition by Getty in 1966 is included in the data provided in Getty's Annual Report for 1969.

Cell: Z67
Comment: Rick Heede:
Texaco, Inc. Annual Report 1969, Ten-Year Operations Summary 1960-1969, shows "natural gas sales, worldwide, including equity in affiliates."

Cell: AA67
Comment: Rick Heede:
Getty net natural gas production data for 1960-1969 is entered here. Production calculated in Column AB, however, is net of Getty's "100 percent (ownership) of Skelly Oil Company."

Cell: AH67
Comment: Rick Heede:
Getty Oil (1970) 41st Annual Report, 1969, shows "net daily production of natural gas" (entered in Column U). Getty production includes "100 percent of Missions Corporation and Skelly Oil," hence we deduct Skelly production from the total entered in this Column AB with the following formula: =(U41*0.365)-AC41, etc.

Cell: D68
Comment: Rick Heede:
Standard Oil Company of California / Chevron Annual report for 1970, table on operating data, pp. 30-31, "worldwide net production of crude oil and natural gas liquids" for 1961-1970 is reported in column D. The company also reports gross production, and its net of gross is atypically high: in 1961, net of gross was 0.9388 and in 1970 was 0.9397. Later annual reports would only report gross production.

Cell: I68
Comment: Rick Heede:
Bamberg (2000) British Petroleum and Global Oil 1950-1975, Fig. 6.1 shows comparative 1961 production by seven sisters by region: SONJ (2.7 million bbl/d), Shell (2.1 Mbbl/d), BP (1.6 Mbbl/d), Gulf (1.6 Mbbl/d), Texaco (1.5 Mbbl/d), Socal (1.1 Mbbl/d), and Socony-Mobil (0.85 Mbbl/d).

Cell: N68
Comment: Rick Heede:
Getty Oil (1970) 41st Annual Report, 1969, shows "net daily production of crude oil and condensate, plus NGL" in barrels per day (entered in Column F). Getty production includes "100 percent of Missions Corporation and Skelly Oil," hence we deduct Skelly production from the total entered in this Column M with the following formula: =(F52*0.365)-N52, etc.

Cell: Y68
Comment: Rick Heede:
Standard Oil Company of California 1970 Annual Report, p. 29-30: "Sales of natural gas, millions of cu. ft. daily" for 1961-1970, western hemisphere only (no gas sales reported for worldwide or eastern hemisphere, although gross production of natural gas liquids is reported, but combined with crude oil.

Cell: H69
Comment: Rick Heede:
Data for 1962-1970 from Mission Corporation / Skelly Oil Company (1972) Annual Report for 1971, table on production data. Data is "net production, total liquids, bbl/ per day," sum of crude oil, condensate, and NGL.
Note on discontinuity at 1961/1962: The Annual Reports (1962 and 1971) differ with respect to reported production in the year 1962. Both report the same crude oil prod'n (62,566 bbl per day), but the 1962 rpts 22,581 bbl/d of NGL compared to 8,577 bbl/d in the 1971 report. The later report "net quantity of of liquids recovered from the company's lease interest in wet gas delivered for processing. No reduction has been made for in such quantities for the portion retained by gas processing plants for extraction of liquids" (Note 1.)

Cell: P69
Comment: Rick Heede:
Skelly, 1962-1970, original data in kbbl/d, converted to million bbl per year.

Cell: AB69
Comment: Rick Heede:
Data for 1962-1970 from Mission Corporation / Skelly Oil Company (1972) Annual Report for 1971, table on production data. Data is "net production, natural gas" (chiefly LA, TX, OK). Data in thousand cf/day reported here in million cf/day.
Note: as in oil production, there is a discontinuity at 1962: the 1962 Annual Rpt shows 333,749 thousand cf/day, whereas the 1971 Rpt shows 300,547 thousand cf/day. We enter the later datum here.

Cell: AI69
Comment: Rick Heede:
Data from Skelly, in million cf/day, Bcf/yr here.

Cell: J72
Comment: Rick Heede:
Tenneco, Inc Annual Report 1966 shows (in chart form only) crude oil + condensate, NGL, and natural gas production (net). Data accuracy is slightly compromised (~+/- 2 percent).

Cell: AC72
Comment: Rick Heede:
Gulf Oil Corporation Annual Report 1969, p. 31, shows "net natural gas produced," chiefly in the U.S.

Cell: E73
Comment: Rick Heede:
Oil plus NGL production (net) from 1966-1975 from Texaco (1976) AnnRpt 1975, p.45.
We report net production, not gross. In 1966, net = 2,057 kbbl/d and gross = 2,250 kbbl/d. In 1975 = 3,591 kbbl/d and gross = 3,770 kbbl/d.
Net of gross: 0.914 in 1966 and 0.953 in 1975.

Cell: I73
Comment: Rick Heede:
Gulf Oil Corporation Annual Report 1969, p. 31, shows "net crude oil, condensate, and natural gas liquids produced."

Cell: Z73
Comment: Rick Heede:
Natural gas SALES from 1966-1975 from Texaco (1976) AnnRpt 1975, p.45. Production data not available.

Cell: I76
Comment: Rick Heede:
Gulf Oil Corporation 1972 Annual Report, p. 17, shows "net crude oil, condensate, and natural gas liquids produced" for 1968-1972.

Cell: N77
Comment: Rick Heede:
Getty Oil Company 43rd Annual Report, 1971, p. 2, shows "net production of crude oil and condensate and NGL" in the US and outside US; we list "Getty and wholly owned subsidiaries" (thus excluding listed totals for Mission and Skelly, which are accounted for in a separate column). In 1970, 351 k bbl per day = 128.115 million bbl. Also shows natural gas.

Cell: Y77
Comment: Rick Heede:
Standard Oil Company of California 1974 Annual Report, p. 37: "Sales of natural gas, millions of cu. ft. daily" western hemisphere only (no gas sales reported for worldwide or eastern hemisphere, although gross production of natural gas liquids is reported, but combined with crude oil.

Cell: AC77
Comment: Rick Heede:
Gulf Oil Corporation 1972 Annual Report, p. 17, shows "net natural gas produced" for 1968-1972 (CMS enters 1970-1972 here).

Cell: AH77
Comment: Rick Heede:
Getty Oil Company 43rd Annual Report, 1971, p. 2, shows "production of natural gas" in the US and outside US; we list "Getty and wholly owned subsidiaries" (thus excluding listed totals for Mission and Skelly, which are accounted for in a separate column). In 1970, 746 million cf per day = 272.29 Bcf. Note: no mention of production being gross or net, or marketed production; we assume the latter.

Cell: P78
Comment: Rick Heede:
Data for 1971-1975 from Mission Corporation / Skelly Oil Company (1976) Annual Report for 1975, table on production data. Data is "net production, total liquids," I.e., crude oil and condensate, plus NGL (~10-14 percent of total), in million bl per year.

Cell: AI78
Comment: Rick Heede:
Data for 1971-1975 from Mission Corporation / Skelly Oil Company (1976) Annual Report for 1975, table on production data. Data is "net production, natural gas" (chiefly LA, TX, OK). Data in million cf per year converted to Bcf/yr.

Cell: F79
Comment: Rick Heede:
Getty Oil Company 47th Annual Report 1975, p. 62, shows net daily production of crude oil and NGL (US and foreign), including Mission and Skelly Oil, which we subtract at the Getty annual production (column M) with the following formula: =(F53*0.365)-N53

Cell: N79
Comment: Rick Heede:
Getty oil production (net) specifically ecxludes Mission and Skelly production; see note under daily oil production.

Cell: AA79
Comment: Rick Heede:
Getty Oil Company 47th Annual Report 1975, p. 62, shows net daily production of natural gas (US and foreign), including Mission and Skelly Oil, which we subtract at the Getty annual production (column AB) with the following formula: =(U53*0.365)-AC53

Cell: I80
Comment: Rick Heede:
Gulf Oil Corporation annual report 1977, p. 46-47, shows "net crude oil produced, including participatoin and long-term purchase arrangements (daily average barrels" for 1973-1977. Unlike previous annual reports, this give details on equity production, participation purchases, and long-term purchases. This allows CMS to estimate total net production with better accuracy than in previous years by deducting long-term purchases in Venezuela (95,500 bbl per day in 1977), Kuwait (439,000 bbl per day in 1977), and Iran (305,400 bbl per day in 1977). Thus, Gulf Oil Corporation's net production is reduced from 1.61 million bbl per day (in 1977) to 771,300 bbl per day. CMS also adds net production of natural gas liquids (p. 47) of 76,000 bbl per day for a 1977 total net production of 847,300 bbl per day, or 1.06 billion bbl per year.
Note: CMS assumes that "participation purchases" are procured from crude production that Gulf has an equity interest in, and is therefore added to net production. Future information from Chevron may change this estimate.

Cell: AC80
Comment: Rick Heede:
Gulf Oil Corporation 1977 Annual Report and Form 10-K, p. 48, shows "net natural gas produced."

Cell: D81
Comment: Rick Heede:
Oil data production data 1974-1978 from Socal (1979) AnnRpt 1978, p. 46. Only reports gross production.

Cell: J81
Comment: Rick Heede:
Oil production data for 1974-1979 from Tenneco (1979) Annual Report, p.11.

Cell: Y81
Comment: Rick Heede:
Natural gas production data 1974-1978 from Socal (1979) AnnRpt 1978, p. 46. Only reports gross production.

Cell: AD81
Comment: Rick Heede:
Gas production data for 1974-1979 from Tenneco (1979) Annual Report, p.11.

Cell: E83
Comment: Rick Heede:
Oil plus NGL production gross (net not reported) from 1976-1980 from Texaco (1981) AnnRpt 1975, p.78.
We report gross production, not net.

Cell: F83
Comment: Rick Heede:
Getty Oil Company 51st Annual Report 1979, p. 61, shows net daily production of crude oil and NGL (US and foreign), but no mention of Mission and Skelly Oil, which we therefore do NOT subtract from the Getty annual production (column M).

Cell: K83
Comment: Rick Heede:
We estimate Socal net production for 1971-1983 (only reported gross for those years), based on Chevron's 1984: net production of 952 kbbl /day, and gross of 1,335 kbbl /day; net of gross = ~0.713. Socal merges with Gulf Oil in 1984 to become Chevron. While Gulf consistently reports net production, and Socal varies from net and gross (sometimes both), we nonetheless apply Chevron's net of gross to Socal gross production for 1971-1983. This may be revised at a later data if better data becomes available.
Chevron (1995) AnnRpt 1994, p. 62.

Cell: P83
Comment: Rick Heede:
1976 production assumed equal to 1975. Companies acquired by Getty in 1977. CMS assumes merger at mid-year, and 1977 production = 0.5 of 1976.

Cell: Z83
Comment: Rick Heede:
Natual gas SALES (production, neither net nor gross, is reported) from 1976-1980 from Texaco (1981) AnnRpt 1975, p. 78.

Cell: AI83
Comment: Rick Heede:
1976 production assumed equal to 1975. Companies acquired by Getty in 1977. CMS assumes merger at mid-year, and 1977 production = 0.5 of 1976.

Cell: I85
Comment: Rick Heede:
Gulf Oil Corporation annual report 1980, p. 55, shows net crude oil and natural gas liquids in bbl per day (exclusive of "Long-Term Purchases," which declined from 1.18 million bbl per day in 1976 to 413,600 bbl per day in 1980. CMS adds NGL production to net crude oil production (1980 crude of 650,100 bbl per day plus NGL of 105,700 bbl per day = 755,800 bbl per day total net production).

Cell: AC85
Comment: Rick Heede:
Gulf Oil Corporation annual report 1980, p. 57, shows "Net natural gas produced" for 1976-1980. A footnote states: "In the U.S. natural gas volumes are before extraction of natural gas liquids."

Cell: D86
Comment: Rick Heede:
Oil data 1979-1983 from Socal (1984) AnnRpt 1983, p. 50. Only reports gross production.

Cell: Y86
Comment: Rick Heede:
Gas data 1979-1983 from Socal (1984) AnnRpt 1983, p.50. Only reports gross production.

Cell: F87
Comment: Rick Heede:
Getty Oil Company 1982 Annual Report, p. 68, shows "net production of crude oil, condenstate, and natural gas liquids for 1978-1982.

Cell: J87
Comment: Rick Heede:
Crude oil and condensate production data for 1979-1984 from Tenneco (1985) Annual Report, p.10.

Cell: AA87
Comment: Rick Heede:
Getty Oil Company 1982 Annual Report, p. 68, shows "net natural gas production" for 1978-1982.

Cell: AD87
Comment: Rick Heede:
Gas production data for 1979-1984 from Tenneco (1985) Annual Report, p.10.

Cell: E88

Comment: Rick Heede:
Oil plus NGL net production from 1980-1985 from Texaco (1986) AnnRpt 1985, p. 78.
Texaco reports both net and gross. Gross in 1981= 3188 kbbl/d, net = 3053 kbbl/d. Gross over net = 1.044.

Cell: I88
Comment: Rick Heede:
Gulf Oil Corporation annual report 1983, p. 44, shows total net production of crude oil (506,600 bbl per day in 1983) and net production of natural gas liquids (86,300 bbl per day in 19830. CMS does not include "Crude Oil Purchases (including royalty purchases)," which totaled 992,900 bbl per day in 1983. Gulf also purchases substantial quantities of NGLs (132,200 bbl per day in 1983). Total net crude and NGL in 1983 = 592,900 bbl per day (~35 percent of Gulf's total crude and NGL supply of 1.718 million bbl per day). Gulf sold an average of 1.11 million bbl per day of oil products worldwide (19,287 outlets, of which 14,908 in the US (of which 4,063 were direct retail)).
Natural gas liquids in bbl per day (exclusive of "Long-Term Purchases," which declined from 1.18 million bbl per day in 1976 to 413,600 bbl per day in 1983. CMS adds NGL production to net crude oil production (1983 crude of 650,100 bbl per day plus NGL of 105,700 bbl per day = 755,800 bbl per day total net production).

Cell: Z88
Comment: Rick Heede:
Natural gas net production from 1980-1985 from Texaco (1986) AnnRpt 1985, p. 78.

Cell: F90
Comment: Rick Heede:
CMS has not acquired Getty annual reports for 1983 and 1984, and we have assumed 1983 crude & NGL to average 1980-1982, and have assumed 1984 (the year Getty was acquired by Texaco) at 50 percent of 1983.

Cell: AA90
Comment: Rick Heede:
CMS has not acquired Getty annual reports for 1983 and 1984, and we have assumed 1983 natural gas to average 1980-1982, and have assumed 1984 (the year Getty was acquired by Texaco) at 50 percent of 1983.

Cell: AS90
Comment: Rick Heede:
Gulf Oil Corporation annual report 1983, p.45, shows coal production similar to the Keystone production data; 1983 = 12.4 million tons.

Cell: D91
Comment: Rick Heede:
Oil data 1984-1994 from Chevron (1995) AnnRpt 1994, p. 62. Reports net production (gross is ~40 percent higher).
Chevron reports both gross and net production. Since most company data is given in net, we report net here. For benchmarking total production, gross for 1984 = 1,335 kbbl/d whereas net = 952 kbbl/d.
Note: OGJ reports about 10-15 percent lower production than actual Chevron data per year.

Cell: I91
Comment: Rick Heede:
CMS does not have a copy of Gulf Oil's 1984 annual report, and we assume mid-year merger and thus 1984 production equal to half of 1983.

Cell: Y91
Comment: Rick Heede:
Natural gas production (net) 1984-1994 from Chevron (1985) AnnRpt 1995.

Cell: AC91
Comment: Rick Heede:
CMS does not have Gulf gas production for 1984, and a mid-year acquisition by Texaco is assumed, thus one-half of 1983.

Cell: R92
Comment: Rick Heede:
Oil production 1985-1987 from Oil & Gas Journal (various) Databook. OGJ's Tenneco production in 1984 = 50 million bbl; we use Tenneco annual report datum of 127.4 kbbl/d (=46.5 million bbl) in 1984.

Cell: AG93
Comment: Rick Heede:
Oil & Gas Journal data for 1986-2004.

Cell: R95
Comment: Rick Heede:
CMS assumes 1988 production equal to half of 1987, i.e., merger effective at mid-year.

Cell: AK95
Comment: Rick Heede:
CMS assumes a merger at mid-year 1988 and estimates gas production at 50 percent of the 1987 production.

Cell: L102
Comment: Rick Heede:
Oil & Gas Journal.

Cell: AF102
Comment: Rick Heede:
Oil & Gas Journal data for 1995-2004.

Cell: D106
Comment: Rick Heede:
Chevron Annual rpt.

Cell: Y106
Comment: Rick Heede:
Chevron Corporation annual report for 2003, Five-Year Summary, net production of natural gas. The company also reports natural gas sales, which are typically considerable higher than both net and gross production. In 2000, for example, net was 4,466, gross was 5,352, and sales totaled 9,700 million cf per day.

Cell: BA110
Comment: Rick Heede:
Angola LNG Chevron has a 36.4 percent interest in Angola LNG Limited, which will operate the 5.2 million-metric-ton-per-year LNG plant. The onshore plant in Soyo, Angola, is designed with the capacity to process 1.1 billion cubic feet of natural gas per day with expected average total daily sales of 670 million cubic feet of regasified LNG and up to 63,000 barrels of NGLs. The project is expected to enter production in 2012. The estimated total cost of the plant is $9.0 billion, and the anticipated life is in excess of 20 years.

Cell: D111
Comment: Rick Heede (Dec09):
Chevron Annual Rpt 2008, p. 5 and 92; "Net production of crude oil and natural gas liquids." Includes "net production of oil sands" (27,000 bbl per day in 2007 and 2008, 109,000 in 2006, 143,000 in 2005, and 140,000 bbl per day in 2004).

Cell: E111
Comment: Rick Heede (Dec09):
Chevron Annual Rpt 2008, p. 92. Five-Year Operating Summary also lists "gross production" data 2004-2008: "Gross production represents the company's share of total production before deducting lessors' royalties and a government's agreed-upon share of production under a production-sharing contract. Net production is gross production minus royalties paid to lessors and a government."

Cell: Y111
Comment: Rick Heede (Dec09):
Chevron Annual Rpt 2008, p. 5 and 92; "net production of natural gas." As footnote 2 in Chevron's table explains (see oil section at left), "Includes natural gas consumed in operations;" e.g., worldwide own consumption of 520 million cf/day in 2008, vs 343 million cf/day in 2004.

Cell: Z111
Comment: Rick Heede:
Chevron Annual Rpt 2008, p. 92. Five-Year Operating Summary also lists "gross production" data 2004-2008: "Gross production represents the company's share of total production before deducting lessors' royalties and a government's agreed-upon share of production under a production-sharing contract. Net production is gross production minus royalties paid to lessors and a government."

Cell: BA112
Comment: Rick Heede:
Page 23: Nigeria Chevron operates and holds a 40 percent interest in 13 concessions, predominantly in the onshore and near-offshore regions of the Niger Delta. The concessions cover approximately 2.2 million acres (8,900 sq km) and are operated under a joint-venture arrangement with the Nigerian National Petroleum Corporation (NNPC), which owns a 60 percent interest. The company also holds acreage positions in 10 deepwater blocks with working interests ranging from 18 percent to 100 percent. Production In 2010, total daily production averaged 524,000 barrels of crude oil (237,000 net), 206 million cubic feet of natural gas (86 million net) and 5,000 barrels of LPG (2,000 net).

Cell: AD114
Comment: Rick Heede:
Nigerian NPC Statistical Bulletin 2010, Table 11. Chevron 2010: 194.3 Bcf produced, 5.7 Bcf used as fuel, 23.5 Bcf sold to third parties, 21.2 Bcf sold to NGC, 0 Bcf re-injected, 3.1 Bcf used for LPG/NGL AS, 0 Bcf for LNG, 22.5 Bcf for gas lift; 76.0 Bcf utilized (61 percent); 118.3 Bcf flared (39 percent).

Cell: BA114
Comment: Rick Heede:
Kazakhstan Chevron has a 50 percent interest in the Tengizchevroil (TCO) affiliate and a 20 percent nonoperated working interest in the Karachaganak Field. TCO production is from the Tengiz and Korolev fields. Total daily production in 2010 from TCO and Karachaganak was 831,000 barrels of crude oil and NGLs (291,000 net) and 1.7 billion cubic feet of natural gas (487 million net). page 25.

Cell: AS115
Comment: Rick Heede (Dec09):
CMS could find only one reference to Chevron's coal production for 2005 through 2008, namely for 2008. CMS interpolates between 2004 and 2008.
Chevron website: "As part of its diverse portfolio of energy resources, Chevron owns and operates three U.S.-based coal mines. Chevron Mining Inc. is one of the oldest continuously operating mining companies in the United States and currently operates mines in North River, Alabama; McKinley County, New Mexico; and Kemmerer, Wyoming. The company's coal sales in 2008 reached 11.1 million tons.
As part of its diverse portfolio of energy resources, Chevron owns and operates three U.S.-based coal mines. Chevron Mining Inc. is one of the oldest continuously operating mining companies in the United States and currently operates mines in North River, Alabama; McKinley County, New Mexico; and Kemmerer, Wyoming. The company's coal sales in 2008 reached 11.1 million tons.
In 2007, the Pittsburg & Midway Mining Co. and Molycorp Inc., both wholly owned subsidiaries of Chevron, merged to form Chevron Mining Inc.
Chevron operates two coal mines and a minerals mine in the United States through its subsidiary Chevron Mining Inc. Headquartered in Englewood, Colorado, Chevron Mining's 1,200 employees provide coal and molybdenum to customers around the world.
www.chevron.com/about/ourbusiness/otherbusinesses/mining/

Cell: D116
Comment: Rick Heede:

Chevron AR 2010 pdf, pg 73,net + other produced volumes. Chevron reports production of 524,000 bbl per day "under a joint-venture arrangement with the Nigerian National Petroleum Corporation (NNPC), which owns a 60 percent interest" and net to Chevron of 237,000 bbl per day. Chevron AnnRpt, page 23.
Note: 237 of 524 is 45.2 percent, not 40 percent, and the reason for this discrepancy is not clear.

Cell: Y116
Comment: Rick Heede:
Chevron AR 2010 pdf, pg 73

Cell: AS116
Comment: Rick Heede:
Chevron AR 2010 Supplement pdf, pg 61, updated 2006 value; business report says Chevron selling off coal interests in 2011.

Cell: BA116
Comment: Rick Heede:
Bangladesh Production In 2010, total daily production averaged 883 million cubic feet of natural gas (404 million net) and 5,000 barrels of condensate (2,000 net).

Cell: D121
Comment: Rick Heede:
Chevron (2015) Annual report 2014, page 69, unadited, "Five-Year Operating Summary." 1,709 thousand bbl per day.

Cell: Y121
Comment: Rick Heede:
Chevron (2015) Annual report 2014, page 69, unadited, "Five-Year Operating Summary." Net production of natural gas: 5,167 million cf/day. Note: Chevron also lists "Sales of natural gas" at 8,299 Mcf/day, presumably (but not shown) gas purchases.

Cell: D122
Comment: Rick Heede:
CVX Form 10-K for 2015, page FS-10, Selected operating Data, Feb16. US Upsteam totaled 501 mbpd, plus international net production of 1,243 mbpd. Note that Chevron SELLS Refined Products totaling 2,735 mbpd.

Cell: Y122
Comment: Rick Heede:
CVX Form 10-K for 2015, page FS-10, Selected operating Data, Feb16. US Upsteam net production totaled 1,310 mmcfpd, plus international net production of 3,959 mmcfpdd. Note that Chevron SELLS 3,913 mmcfpd in the US plus 4,299 mmcfpd internationally.

Cell: D123
Comment: Rick Heede:
Chevron Form 10-K for 2016 (Feb17), page 5: Liquids production: 1,719 kbpd, of which consolidated companies produced 1,376 kbpd and affiliates produced 343 kbpd (which includes 50 kbpd synthetic oil in Canada and 28 kbpd in Venezuela.

Cell: Y123
Comment: Rick Heede:
Chevron Form 10-K for 2016 (Feb17), page 5: Natural gas production of 5,252 Mcfpd (of which 4,796 Mcfpd by consolidated companies and 456 Mcfpd from affiliates).
Footnote to table declares "volumes include natural gas consumed in operations of 486 million and 496 million cf per day in 2016 and 2015, respectively." I.e., 9.3% of production consumed in Chevron operations (2016).
Conflicting data on Chevron 10-K for 2016, page FS-12, "Selected Operating Data" that shows Sales of natural gas of 7,808 Mcfpd (3,317 US + 4,491 Mcfpd interntional).

Cell: D124
Comment: Rick Heede:
Chevron Annual Report 2017, Operating Highlights, includes equity in affiliates; net production of crude oil, condensate, NGLs, and synthetic oil: 1,723 kb/d.

Cell: Y124
Comment: Rick Heede:
Chevron Annual Report 2017, Operating Highlights, includes equity in affiliates; net production of natural gas: 6,032 Mcf/d.

Cell: D125
Comment: Rick Heede:
Chevron (2019) Annual Report and Form 10-K for 2018, 22 February, page 5. All liquids, in thousand bbl per day. Includes Canada synthetic oil of 53 kbblpd, plus Venezuela affiliate net production of 24 kbblpd.

Cell: Y125
Comment: Rick Heede:
Chevron (2019) Annual report and Form 10-K for 2018, 22 February, page 5.
Footnote #6 to table Net Production of Liquids and Natural Gas (p. 5): "Volumes include natural gas consumed in operations of 619 million and 565 million cubic feet per day in 2018 and 2017, respectively. Total "as sold" natural gas volumes were 6,270 million and 5,467 million cubic feet per day for 2018 and 2017, respectively."

Cell: BA126
Comment: Rick Heede:
Partitioned Zone, page 31. Chevron holds a concession with the kingdom of Saudi Arabia to operate the kingdom's 50 percent interest in the hydrocarbon resources of the onshore area of the Partitioned Zone between Saudi Arabia and Kuwait. Under the concession agreement, Chevron has the right to Saudi Arabia's 50 percent interest in the hydrocarbon resources. The concession expires in 2039. Production During 2010, total daily production from four fields averaged 236,000 barrels of crude oil (94,000 net) and 45 million cubic feet of natural gas (23 million net). During 2010, 67 wells were drilled, and 1,062 wells were producing at the end of 2010. Development drilling, well workovers and numerous facility-enhancement programs scheduled for 2011 and 2012 are expected to partially offset overall field declines.