## Crude oil extraction data

### Richard Heede
**Climate Mitigation Services**

File started: 1 January 2015
Last modified: April 2013

**ConocoPhillips, USA**

### Crude Oil & NGL

<table>
<thead>
<tr>
<th>Year</th>
<th>Company 1</th>
<th>Company 2</th>
<th>Company 3</th>
<th>Company 4</th>
<th>Company 5</th>
<th>Sum production</th>
<th>Company 6</th>
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<th>Sum production</th>
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**Note:** All data in Thousand barrels (bb) unless indicated otherwise.
## Natural gas extraction data

**Richard Heede**  
*Climate Mitigation Services*  
File started: 1 January 2001  
Last modified: April 2013

### ConocoPhillips, USA

<table>
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<th>Year</th>
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<th>Phillips</th>
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</table>

### Notes:  
- **ConocoPhillips** includes Conoco Phillips, Phillips Petroleum, and Gulf Oil.  
- **Gulf Canada** includes Gulf of Mexico.  
- **Phillips** includes only the Phillips Oil Company.  
- **Total** includes all three companies.  
- Values are in Billion cf/yr.  
- **Source:** Oil and Gas Journal, April 1996.
## Coal extraction data

### ConocoPhillips, USA

#### Year | Company 1 production | Company 2 production | Sum production | Company 1 production | Company 2 production | Sum production
---|---|---|---|---|---|---
1923 | | | | | | |
1924 | | | | | | |
1925 | | | | | | |
1926 | | | | | | |
1927 | | | | | | |
1928 | | | | | | |
1929 | | | | | | |
1930 | | | | | | |
1931 | | | | | | |
1932 | | | | | | |
1933 | | | | | | |
1934 | | | | | | |
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1936 | | | | | | |
1937 | | | | | | |
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1942 | | | | | | |
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1956 | | | | | | |
1957 | | | | | | |
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1959 | | | | | | |
1960 | | | | | | |
1961 | | | | | | |
1962 | | | | | | |
1963 | | | | | | |
1964 | | | | | | |
1965 | | | | | | |
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1968 | | | | | | |
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2003 | | | | | | |
2004 | | | | | | |
2005 | | | | | | |
2006 | | | | | | |
2007 | | | | | | |
2008 | | | | | | |
2009 | | | | | | |
2010 | | | | | | |

#### Total

|  | 539 | 495 | 1,820 | - | - | 1,651 |

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**Notes:**
- Conoco acquired Consolidation Coal Company from 1966 to 1998.
- Conoco acquired Consolidation Coal Company's production to CONSOL Energy.
- CMS attributes Conoco Coal Company's production to CONSOL Energy.
- OilGasAdnoc_Encana.xls

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**Source:**
- ConocoPhillips GHG emissions data from company website
- CMS attributes Conoco Coal Company's production to CONSOL Energy.
- OilGasAdnoc_Encana.xls

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**Further Reading:**
- Climate Mitigation Services (CMS): Climate Mitigation Services (CMS) attributes Conoco Coal Company's production to CONSOL Energy.
- CONSOL Energy: CONSOL Energy attributes Conoco Coal Company's production to CONSOL Energy.
- OilGasAdnoc_Encana.xls: OilGasAdnoc_Encana.xls provides additional data on ConocoPhillips coal production from 1964 to 1999.

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**Charts:**
- 2008 Greenhouse Gas Emissions
- Total Greenhouse Gas (GHG) Emissions (CO₂ Equivalent)

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**Diagrams:**
- Graphs comparing greenhouse gas emissions from different sources over time.
- Pie charts illustrating the composition of greenhouse gas emissions by sector.
Phillips Petroleum Company was founded in 1917 and was an early developer of "natural gasolines" (in 1923) and LPG (in 1929) from oil and gas production. We do not guesstimate petroleum production from 1917 to 1937.

In lieu of having Richfield oil production data for 1930-1937 (lacking copies of annual reports for those years), CMS interpolates production from 1930 to 1937.

Phillips Petroleum acquired ARCO Alaska in 2000. We allocate 50 percent of AtlanticRichfield from 1967 through 2000 (the other 50 percent is allocated to BP, which acquired AtlanticRichfield in 1998).

On November 10, 2011 - ConocoPhillips [NYSE: CDP] announced that the new independent downstream company created through its previously announced strategic repositioning will be named Philips 66 and will be headquartered in Houston. Philips 66 will have leading businesses in refining, marketing, midstream and chemicals." History: [wikipedia: en.wikipedia.org/wiki/ConocoPhillips]

In late 2009 the company announced asset sales to increase investor returns. Included are debt reduction and stock buy back. In march 2011 the program was enlarged up to $10 billion assets sales in the next two years.

Phillips Petroleum acquired ARCO Alaska in 2000. We allocate 50 percent of AtlanticRichfield from 1967 through 2000 (the other 50 percent is allocated to BP, which acquired AtlanticRichfield in 1998).

On November 10, 2011 - ConocoPhillips [NYSE: CDP] announced that the new independent downstream company created through its previously announced strategic repositioning will be named Philips 66 and will be headquartered in Houston. Philips 66 will have leading businesses in refining, marketing, midstream and chemicals." History: [wikipedia: en.wikipedia.org/wiki/ConocoPhillips]

CMS allocates 50 percent of Richfield and later ARCO production to British Petroleum, and the other 50 percent to ConocoPhillips. These companies each acquired significant assets from ARCO. An asset allocation has not been done; instead we have assumed an equal allocation to each company.

CMS allocates 50 percent of Richfield and later ARCO production to British Petroleum, and the other 50 percent to ConocoPhillips. These companies each acquired significant assets from ARCO. An asset allocation has not been done; instead we have assumed an equal allocation to each company.

OilGasAdnoc_Encana.xls
CMS allocates 50 percent of Atlantic, Richfield, and ARCO production to British Petroleum, and the other 50 percent to ConocoPhillips. These companies each acquired significant assets from ARCO, although an asset allocation has not been done; instead we have assumed an equal allocation to each company.

**Cell:** K35
**Comment:** Rick Heede:
Phillips Petroleum Company Annual Report for 1940, p. 2: 23.895 million bbl. We add production of "natural gasoline," which we take to mean natural gas liquids (NGL), totaling 6.828 million bbl in 1940 (286.8 million gallons), or an "NGL adder" of 28.58 percent, or 1.2858. This factor is thus higher in 1940 than calculated for 1946.

**Cell:** F34
**Comment:** Rick Heede:
Data for 1941-1950 "total production, including LPG" from: Atlantic Refining Company (1951) Annual Report for the Year Ending 31Dec 1950, operating data tables. (Added 14March06)

Data for "net production" vs "total production," 1941-1950

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<th>Year</th>
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<th>Net Production (bbl)</th>
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<td>15.1 thousand bbl per day to 41.345</td>
<td>14.5 thousand bbl per day</td>
</tr>
<tr>
<td>1942</td>
<td>17.7 thousand bbl per day</td>
<td></td>
</tr>
<tr>
<td>1943</td>
<td>24.6 thousand bbl per day</td>
<td></td>
</tr>
<tr>
<td>1944</td>
<td>24.8 thousand bbl per day</td>
<td></td>
</tr>
<tr>
<td>1945</td>
<td>23.6 thousand bbl per day</td>
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<td>27.7 thousand bbl per day</td>
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<tr>
<td>1950</td>
<td>25.8 thousand bbl per day</td>
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</tbody>
</table>

* No explanation for why these data are so different. Later reports only report total production, which is never called gross production. In order to make data the same units and type, we use total production here for 1941-1950.

**Cell:** K35
**Comment:** Rick Heede:
Phillips Petroleum Company Annual Report for 1942, p.4: 23.066 million bbl. We estimate production of natural gas liquids by multiplying this net crude oil production by the known crude to NGL ratio in 1946 (in which year NGL was, conservatively, 8.738 million bbl and net crude totaled 33.542 million bbl, or an NGL adder of 26 percent or 1.260.

**Cell:** M15
**Comment:** Rick Heede:
Richfield reports 9.3 million gross production and 7.2 million bbl net (0.774).

**Cell:** A235
**Comment:** Rick Heede:
Phillips Petroleum Company Annual Report for 1942, p. 2: 280 billion cubic feet, 8.6 percent over [1941].

**Cell:** K36
**Comment:** Rick Heede:
Phillips Petroleum Company Annual Report for 1944, p.4: net oil production of 24.698 million bbl. We estimate un-reported production of natural gas liquids by multiplying this net crude oil production by the known crude to NGL ratio in 1946 (NGL, conservatively, was 8.738 million bbl and net crude totaled 33.542 million bbl, or an NGL adder of 26 percent or 1.260.

Phillips does, in this year, also report gross crude oil production of 43.695 million bbl, or a net equal to 0.5405 of gross "after allocations to outside interests, such as partners and royalty owners."

**Cell:** M36
**Comment:** Rick Heede:
Richfield Oil Corporation does not report gross or net production for 1943 but does report net production of 8.236 million bbl in 1944, "an increase of approx 11% over ... 1943." This is used to estimate net production in 1943; production is halved in order to allocate half to BP and half to ConocoPhillips.

**Cell:** K37
**Comment:** Rick Heede:
Phillips Petroleum Company Annual Report for 1944, p.2: 28.584 million bbl. We estimate un-reported production of natural gas liquids by multiplying this net crude oil production by the known crude to NGL ratio in 1946 (NGL, conservatively, was 8.738 million bbl and net crude totaled 33.542 million bbl, or an NGL adder of 26 percent or 1.260.

**Cell:** N37
**Comment:** Rick Heede:
ARCO acquired Sinclair Oil Corporation in 1969, and since half of ARCO is allocated to both BP and Conoco half of Sinclair is also allocated to each BP and Conoco. Also see notes under columns for Atlantic Oil, ARCO, and Richfield Oil.

**Cell:** K38
**Comment:** Rick Heede:
Phillips Petroleum Company Annual Report for 1945, p.4: 34.223 million bbl. We estimate un-reported production of natural gas liquids by multiplying this net crude oil production by the known crude to NGL ratio in 1946 (NGL, conservatively, was 8.738 million bbl and net crude totaled 33.542 million bbl, or an NGL adder of 26 percent or 1.260.

**Cell:** M38
**Comment:** Rick Heede:
Richfield Oil Corp does not (in our partial copy of the Annual report) show gross or net production for 1945. Refinery runs are shown, however, and we use the net production/refinery run relationship for the year known (1944: 8.236 net prod/25.598 refinery runs = 0.3217) times the reported refinery runs for 1945 (25.691 million bbl times 0.3217 = 8.266 million bbl estimated net production in 1945.

**Cell:** D39
**Comment:** Rick Heede:

**Cell:** K39
**Comment:** Rick Heede:
Conservative net production estimate.

Phillips Petroleum Company Annual Report 1950 (Consolidated Five-Year Statistical Information) shows net crude oil produced, to which we add reported "natural gasoline produced, net gallons 26-70 equivalent"* at each 42 gal per bbl. For example, 1950: 35.527 million bbl of crude, plus 9.602 million bbl (403.288 million gallons) totals 45.129 million bbl. In other words, the data here reported is conservative in that net crude plus net NGL reported for 1950 in the 1959 annual report totals 51.6 million bbl, or not the 45.129 million bbl estimated here. Unfortunately, Phillips does not report total net NGL for 1946-1949 and we have to rely on a conservative estimate. While do not increase stated figures by the likely multiplier (31.62/45.129) of 1.144.

**Cell:** M39
**Comment:** Rick Heede:


Atlantic (1959) Annual Report for 1958. Data for "crude oil production, bbl per day, net." No discussion of apparent change from total to net production.

Atlantic (1957) Annual Report for 1956. Data for "crude oil production, bbl per day, net." No discussion of apparent change from total to net production.

Richfield also reports substantial crude oil purchases (e.g., 96,738 bbl per day in 1964, up from 70,041 bbl per day in 1955). While much of this oil is produced by Richfield and deducted from gross production as royalty payments, the origination is seldom specified. CMS does not include this oil, instead reporting only net crude oil and NGL production. (The difference between net and gross is ~28,000 bbl per day in 1964.)

Richfield Petroleum reports natural gas sales (not production, net or gross) for 1955 through 1964. No gas production is mentioned or listed in prior years' annual reports.

Richfield Petroleum reports natural gas sales (not production, net or gross) for 1955 through 1964. No gas production is mentioned or listed in prior years' annual reports.

ARCO acquired Sinclair Oil Corporation in 1969, and since half of ARCO is allocated to both BP and Conoco, half of Sinclair is also allocated to each BP and Conoco. Also see notes under columns for Atlantic Oil, ARCO, and Richfield Oil.


Atlantic's natural gas production estimated for 1950-1959 based on reported crude oil production in relation to the known ratio in 1960.

Continental Oil Company Annual Report 1959, p. 30 (Ten Year Operating Review for 1950-1959), shows annual "natural gas delivered from leases."

Atlantic's natural gas production estimated for 1950-1959 based on reported crude oil production in relation to the known ratio in 1960.

Richfield Petroleum reports natural gas sales (not production, net or gross) for 1955 through 1964. No gas production is mentioned or listed in prior years' annual reports.

Richfield Petroleum reports natural gas sales (not production, net or gross) for 1955 through 1964. No gas production is mentioned or listed in prior years' annual reports.

ARCO acquired Sinclair Oil Corporation in 1969, and since half of ARCO is allocated to both BP and Conoco, half of Sinclair is also allocated to each BP and Conoco. Also see notes under columns for Atlantic Oil, ARCO, and Richfield Oil.

Continental Oil Company Annual Report 1959, p. 30 (Ten Year Operating Review for 1950-1959), shows annual net production of crude oil (including equity production in Hudson Bay Oil and Gas Ltd) and natural gas liquids, which we sum. Unlike the previous armpit for 1955, this AnnRpt shows natural gas production.

For natural gas production sources, see Sinclair oil column.


Comment: Rick Heede:  

Cell: V3
Comment: Rick Heede:  

Cell: W3
Comment: Rick Heede:  

Cell: X3
Comment: Rick Heede:  
Gas sales data first appeared in Atlantic’s 1961 annual report with sales data for 1960. No trace of previous years’ sales. Data not reported for production, but only sales.

Cell: F4
Comment: Rick Heede:  

Cell: M5
Comment: Rick Heede:  
Richfield’s net production from 1962 through 1964 is accounted for in the AtlanticRichfield (ARCO) annual report for 1966. Hence we exclude Richfield’s production for 1962 (91.556 million bbl), 1963 (92.093 million bbl), and 1964 (88.017 million bbl) – half of each allocated to BP and Conoco.

Cell: O56
Comment: Rick Heede:  

Cell: AF56
Comment: Rick Heede:  

Cell: X57
Comment: Rick Heede:  

Cell: X58
Comment: Rick Heede:  
CMS assumes that Atlantic Richfield combines Atlantic & Richfield natural gas sales 1965 fwd; previous years’ sales are for each company separately.

Cell: F59
Comment: Rick Heede:  
Data for 1962-1966 in Atlantic Refining (1967) Annual Report for 1966. This report shows “North America (net) and Foreign (net)” with “North America (net)” plus “Foreign (net).” The reason or protocol for such obscure reporting by a major oil company is unknown. We use this revised sum for all years 1962 through 1966, previous incomplete reporting notwithstanding.

Previous data for 1962-1966:  
1962: 179.4 thousand bbl per day (1966 report: 275.4 k bbl per day) 
182.4 thousand bbl per day 
213.7 thousand bbl per day 
222.6 thousand bbl per day 
1966: 200.6 thousand bbl per day (1966 report: 302.7 k bbl per day).

Cell: G60
Comment: Rick Heede:  

Cell: G61
Comment: Rick Heede:  

Cell: X60
Comment: Rick Heede:  

Cell: AF60
Comment: Rick Heede:  

Cell: F62
Comment: Rick Heede:  

Cell: G63
Comment: Rick Heede:  
Continental Oil Company Annual Report 1979, p. 44, shows “petroleum liquids production, worldwide” for 1970-1979 (includes NGL). We assume this is net production, but not defined.

Cell: E63
Comment: Rick Heede:  

Cell: K63
Comment: Rick Heede:  
Annual production from column “E” (Phillips, kbbbl converted to million bbl). Phillips annual reports. We have not replaced the 1984 datum from Oil & Gas Journal (=114 million bbl) with that reported in Phillips Petroleum annual report 460 kbbbl (= 167.3 million bbl).

Cell: V63
Comment: Rick Heede:  

Cell: W63
Comment: Rick Heede:  
ConocoPhillips

Comment: Rick Heede:
Conoco Inc Annual Report for 1979, p. 45, shows annual steam and metallurgical coal production for 1970-1979. CMS copies of Conoco and Continental Oil Company’s earlier annual reports are incomplete and do not show coal production, although there likely was coal produced. Conoco’s coal production (and carbon emissions therefrom) are entered on a separate coal production worksheet and summarized to CoalSum.xls therefrom.

Comment: Rick Heede:

Comment: Rick Heede:

Comment: Rick Heede:
Gulf Canada (1976) Annual Report 1975, p. 26. Both net and gross reported (here and earlier in Bcf); we report Net production here (typ 0.785 to 0.898 of gross).

Comment: Rick Heede:

Comment: Rick Heede:

Comment: Rick Heede:

Comment: Rick Heede:

Comment: Rick Heede:
Gulf Oil Canada (1980) Annual Report 1979, p. 40. Both net and gross crude oil and NGL is shown (in thousand cubic metres per year); we report net crude plus NGL production here; 1979 net of 5.379 million m³ = 0.685 of 7.858 million m³ gross. Conversion: 1 cubic meter of crude oil equals 6.3 bbl.

Comment: Rick Heede:

Comment: Rick Heede:
Gulf Canada (1980) Annual Report 1979, p. 40, shows net and gross natural gas production. Net is typ 0.714 to 0.785 of gross. We report net production, and convert from million cubic meters per year (e.g., 1979 = 2,854) to billion cubic feet at 35.31466 cf/m³ (1979 = 100.8 Bcf).

Comment: Rick Heede:
ARCO annual report 1980 shows “crude oil and NGL production - net bbl per day” for 1976-1980. CMS shows total ARCO liquids production in this column, but attributes half of the total to each BP and ConocoPhillips in the ARCO column reporting total annual production in million bbl yr.

Comment: Rick Heede:

Comment: Rick Heede:

Comment: Rick Heede:
Coal shipment data (which we take as equivalent to production) for 1984-1987 from ARCO (1988) Annual Report 1987, p. 60. Half of these quantities are allocated to BP and half to Conoco.

Comment: Rick Heede:
We do not have Gulf Oil annual reports covering 1980 through 1987 and we interpolate between known oil + NGL production in 1979 and Oil & Gas Journal’s 1988 estimate.

Comment: Rick Heede:
In order to interpolate between known 1979 gas production from company annual reports and Oil & Gas Journal’s estimate in 1988, we have entered the result of the 1979 calculation, as follows = 2854*35.31466/1000 = 100.788 Bcf.

Comment: Rick Heede:
ARCO annual report 1983 shows “crude oil nd NGL production - net bbl per day.” CMS shows total ARCO liquids production in this column, but attributes half of the total to each BP and ConocoPhillips in the ARCO column reporting total annual production in million bbl yr.

Comment: Rick Heede:

Comment: Rick Heede:

Comment: Rick Heede:
Coal shipment data (which we take as equivalent to production) for 1984-1987 from ARCO (1988) Annual Report 1987, p. 60. Half of these quantities are allocated to BP and half to Conoco.

Comment: Rick Heede:
Data from Oil & Gas Journal, various years.

Comment: Rick Heede:
Data discontinuity, possible due to this year’s production being from a table (Top US and World Liquids Production) in OGJ 400, and NOT from the standard long tables. Verify.

OILGasAdnoc_Encana.xls
ARCO 1999 production (OGJ 2000): 228 million bbl, of which we allocate half to BP and half to ConocoPhillips.

We allocate 50 percent of AtlanticRichfield from 1967 through 2000 to BP (the other 50 percent is allocated to Phillips Petroleum -- now ConocoPhillips -- which acquired ARCO's Prudhoe Bay operations in Alaska in 2000).

Rick Heede:
L92

Rick Heede:
AM91
combusted uses such as road oils, waxes, lubricants, greases, etc. See the comment for each extracted resource for detailed discussions of the combusted vs sequestered fractions.

Note: the carbon content of the extracted resources is adjusted by a number of factors before emissions estimates are ... 1 to the left. Most important is the subtraction of the fraction typically sequestered in petrochemicals and other

On this worksheet we report extractive data for each company or state-owned enterprise. Three columns under crude oil and natural gas liquids, and one under natural gas. Where data is available for two or more companies, or for the same company in different years, we show only the total in the annual total column (Bcf/yr), in this case column AA.


Rick Heede:
AM81
ARCO annual report for 1993, p.1 Highlights, shows "natural gas sales, domestic and foreign, in million cf per day," for 1989 - 1993. These years, as well as years reported above, is all of Atlantic's, Richfield's, and ARCO's natural gas sales. Estimates are allocated equally to BP and ConocoPhillips in the annual total column (Bcf/yr), in this case column AA.


OGJ shows total ARCO liquids production in this column, but attributes half of the total to each BP and ConocoPhillips in the ARCO column reporting total annual production in million bbl yr.

Rick Heede:
AM71
Oil & Gas Journal Data Book (our primary source for oil and gas production from 1988 through 2003) reports net production.

Total net worldwide crude oil plus natural gas liquids produced by each company or state-owned enterprise. Where data is available, we list gross production (before royalty production is netted out). More often, however, oil companies report production net of royalty production.

Oil & Gas Journal (various) OGJ100 or OGJ200 natural gas production estimates.

DuPont/Conoco's (1994) SEC Form 10-K, p. 6, shows net production of 367 kilobbl/day = 134 million bbl/yr, plus royalty production of 37 kilobbl/day = 13.5 million bbl/yr; sum = 147.5 million bbl for 1993.


Oil & Gas Journal production estimates (OGJ100).


Total net worldwide crude oil plus natural gas liquids produced by each company or state-owned enterprise. Where data is available, we list gross production (before royalty production is netted out). More often, however, oil companies report production net of royalty production.

Oil & Gas Journal Data Book (our primary source for oil and gas production from 1988 through 2003) reports net production.

Crude production includes natural gas liquids (NGL) unless noted. On this worksheet we report extractive data for each company or state-owned enterprise. These 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). Oil is normally reported in U.S. or metric tonnes per year.

Note: the carbon content of the extracted resources is adjusted by a number of factors before emissions estimates are made in the worksheet 1 to the left. Most important is the subtraction of the fraction typically sequestered in petrochemicals and other non-combusted uses such as road oils, waxes, lubricants, greases, etc. See the comment for each extracted resource for detailed discussions of the combusted vs sequestered fractions.


We allocate 50 percent of AtlanticRichfield from 1967 through 2000 to BP (the other 50 percent is allocated to Phillips Petroleum -- now ConocoPhillips -- which acquired ARCO's Prudhoe Bay operations in Alaska in 2000).

ARCO 1999 production (OGJ 2000): 228 million bbl, of which we allocate half to BP and half to ConocoPhillips.
We allocate 50 percent of ARCO to BP and 50 percent to Phillips Petroleum, which acquired ARCO in 1999. 1999 ARCO total gas production = 868 Bcf.

Oil and gas production data from Energy Intelligence (2003) Top 100: Ranking the World’s Oil Companies, p. 126.

Phillips' merger with Conoco was completed in August, 2002. We assume Phillips' crude oil production at one-half the previous year's level, although the specific accounting is not clear.

ConocoPhillips Databook for 2004, global summary, p. 3: 905 thousand bbl per day crude oil plus 84 thousand bbl per day of NGLs per day. Equity production in Lukoil is not included (reason or quantity is unknown).

ConocoPhillips Databook for 2004, global summary, p. 3: 3,817 million cf per day.

ConocoPhillips Annual Rpt 2006, page 1. This adds worldwide crude oil production (in 2006: 972 mbbl per day), world NGL (153 mbbl per day)), Lukoil investment production (445 mbbl per day), and world syncrude production (22 mbbl per day). CMS excludes "NGL extracted - Midstream" (188 mbbl per day in 2006 vs 195 in 2005), which should, perhaps, be added. CMS uses this data for 2005 and 2006, rather than the lower OGJ data (449 million bbl in 2005 and 534 million bbl in 2006).

ConocoPhillips Annual Report 2008, page 1. This adds worldwide crude oil production (in 2008: 806 mbbl per day), world NGL (153 mbbl per day), Lukoil investment production (445 mbbl per day)), and world syncrude production (22 mbbl per day). CMS excludes "NGL extracted - Midstream" (188 mbbl per day), which should, perhaps, be added. CMS uses this data for 2007 and 2008, rather than the lower OGJ data.

ConocoPhillips Annual Report 2008, page 1. This yields annual production of 1.86 and 1.77 Tcf in 2007 and 2008, respectively, lower than that reported in OGJ200 (2.11 Tcf and 2.10 Tcf, respectively). CMS applies the AnnRpt data.

ConocoPhillips: • 2/10/10 - Heede: Total GHG 2008 of 64.3 million tonnes (up 1.4 percent): 80.6% global ops, 9.7% imported electricity, 3.5% from imported steam, Flaring: 30.3 Bcf (down from 36.1 Bcf in 2007); 74% of flaring in E&P, 23% in refining, and 3% other. Joined World banks GGFR partnership in 2007. No details on methane, joined EPA Gas STAR. CMS: relative to 2008 Product emissions (203 MtCO2 oil + 103 MtCO2 gas direct) relative to company emissions: 64.3 MtCO2 / 306 MtCO2 = 21.0 percent. Also see their CDP submission. Page 10: CDP: "Normalized per unit of throughput, refining emissions are about 33,177 tonnes CO2 equivalent per million barrels of hydrocarbon refined. Normalized E&P and Gas Processing GHG emissions are about 19,253 tonnes per million barrels of oil equivalent produced."