### Oil & natural gas extraction data

**Richard Heede**  
*Climate Mitigation Services*  
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Last modified: October 2012

#### Hess Corporation, USA

www.hess.com  
New York City

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**Copyright Climate Mitigation Services**  
yellow column indicates original reported units  
Investor-owned

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**Production / Extraction data**

<table>
<thead>
<tr>
<th>Year</th>
<th>Crude Oil &amp; NGL</th>
<th>Natural Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Net production</td>
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</tr>
<tr>
<td></td>
<td>Million bbl / yr</td>
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**Hess AnnRpt 2010, page 10**  
Valhall Field, offshore Norway

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**Hess Corporation history, hess.com, 1960**
The Hess Company has operations in the United States, United Kingdom, Norway, Denmark, Equatorial Guinea, Gabon, Azerbaijan, Thailand and Indonesia. We continue to increase reserves outside the mature regions of the United States and North Sea. Roughly half of gas production from US (329 million cf/d), but significant (221 million cf/d) from UK, 5,130 bbld from Norway, and 22.599 bbld from US, 10,819 bbld.

Amerada Hess Annual Report 1979, p. 62-63, shows daily net production of crude oil, natural gas liquids, and natural gas. In 1979, 49,315 bbl per day from Libya, 10,267 from Abu Dhabi, 84,086 bbld from Canada, and a subsidiary of Petroleos de Venezuela, S.A. (PDVSA), is one of the largest crude oil refiners in the world. Refined petroleum products, as well as natural gas and electricity, are marketed to customers throughout the East Coast of the United States. This integrated approach to marketing allows the Company to meet the total energy needs of our customer base while maintaining a low-cost operating base.

Oil and Gas production data for 2002 and 2003 from “operating highlights,” hess.com, 15Mar05.

**Cell: D11**

**Comment: Rick Heede:**

On this worksheet we report extractive data for each company or state-owned enterprise. Three columns under crude oil and natural gas allow for data reported in one of three formats (e.g., thousand barrels per day, or million barrels per year, or million tonnes per year). Coal is normally reported in U.S. or metric tonnes per year.

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

**Cell: D12**

**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 gross production (before royalty production is netted out). More often, however, oil companies report production net of royalty production. Crude production includes natural gas liquids (NGL) unless noted.

**Cell: H12**

**Comment: Rick Heede:**

Natural gas is typically reported as dry gas; natural gas liquids are reported under crude oil.

Carbon dioxide is normally removed from the gas flow at the production site (see "Vented Carbon Dioxide").

“SCM/d” = standard cubic meters per day. “cf/d” = cubic feet per day.

**Cell: F21**

**Comment: Rick Heede:**

CMS also reviewed Hess Oil & Chemical Corporation annual reports 1962 forward, which shows refinery and shipping data, but no production data. 1963, for example, shows refinery runs of 92,651 bbl per day; in 1967, refinery runs were 188,000 bbl per day and refined products sold totaled 302,000 bbl per day.

**Cell: D25**

**Comment: Rick Heede:**


**Cell: D28**

**Comment: Rick Heede:**


**Cell: D30**

**Comment: Rick Heede:**


**Cell: D32**

**Comment: Rick Heede:**


**Cell: D36**

**Comment: Rick Heede:**

Amerada Hess Annual Report 1979, p. 62-63, shows daily net production of crude oil, natural gas liquids, and natural gas. In 1979, 49,315 bbl per day from Libya, 10,267 from Abu Dhabi, 84,086 bbl from US, 10,819 bbl from Canada, 5,130 bbl from Norway, and 22.599 bbl from UK North Sea. Roughly half of gas production from US (329 million cf/d), but significant (221 million cf/d) from UK, and the remainder from Canada and Norway.

**Cell: E50**

**Comment: Rick Heede:**

Oil & Gas Journal OGL400 and OGL100, various years, for Amerada Hess 1984-2001.

**Cell: D68**

**Comment: Rick Heede:**


**Cell: D70**

**Comment: Rick Heede:**


**Cell: E70**

**Comment: Joanie Henderson:**

OilGasENI_NorskHydro.xls

**Cell: H70**
**Comment:** Rick Heede:

**Cell: H72**
**Comment:** Rick Heede (Dec09):

**Cell: H72**
**Comment:** Rick Heede:

**Cell: D75**
**Comment:** Rick Heede:

**Cell: I172**
**Comment:** Rick Heede:
CDP Hess rpt 2010 viewed 1Oct12. GHG (p. 7-fwd): 10.348 MtCO2e. Uses IPIECA and WRI, and SAR GWP values. Scope 1: 8.51 MtCO2e; Scope 2: 0.548 MtCO2e. Scope 1 sources listed by country. p. 9: Exploration & Production: 5.61; Refining: 2.83, Retail & marketing: 0.009, Storage, transportation and distribution: 0.54 MtCO2e. CO2: 8.132, CH4: 0.338, Other: N20: 0.040 MtCO2e. Scope 2: Exploration & Production: 0.323, Refining: 0.790 Retail & Marketing: 0.135 Storage, transportation and distribution: 0.011 MtCO2e. Fuel: 13.28 TWh, Electricity: 3.55 TWh, Heat: 0, Steam 0, Cooling: 0. Residual fuel oil: 0.127 TWh, Distillate fuel oil No 2: 1.32 TWh, Natural gas: 10.30 TWh, Petroleum coke: 1.53 TWh. Scope 3: “Use of products sold”: 35.70 MtCO2e (biz travel 0.023 MtCO2e, tankers and trucks [third party]: 0.24 MtCO2e. Ratio of “use of products sold” to Scope 1: 35.70 MtCO2e / 8.51 MtCO2e = 4.20 x. Reserves: Oil: 1.17 Gbbl; Gas: 0.404 Gbbloe.