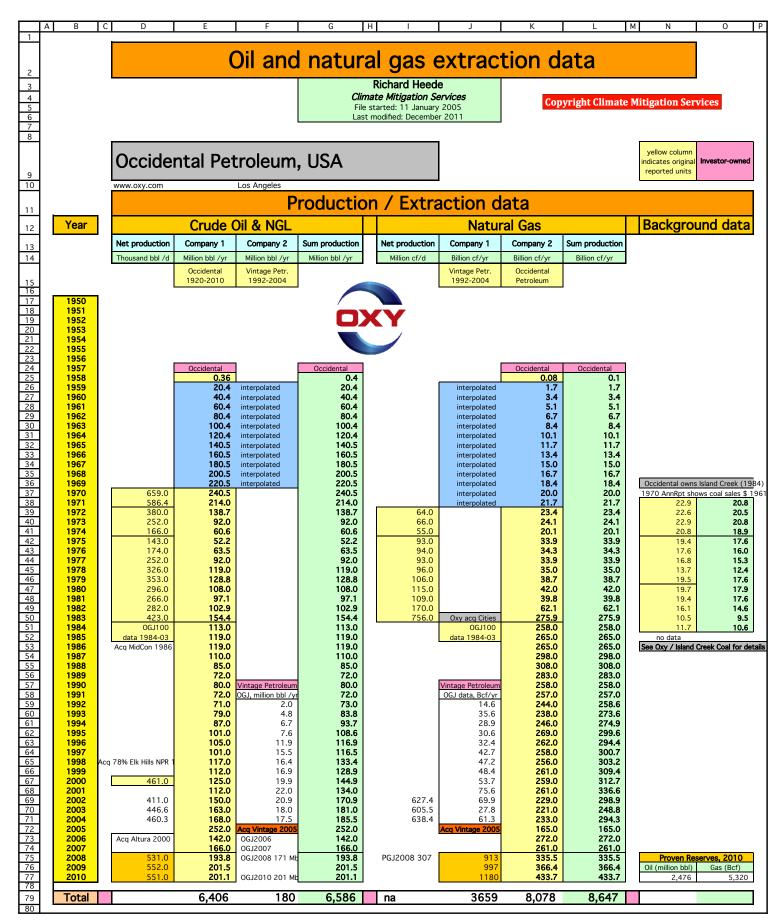
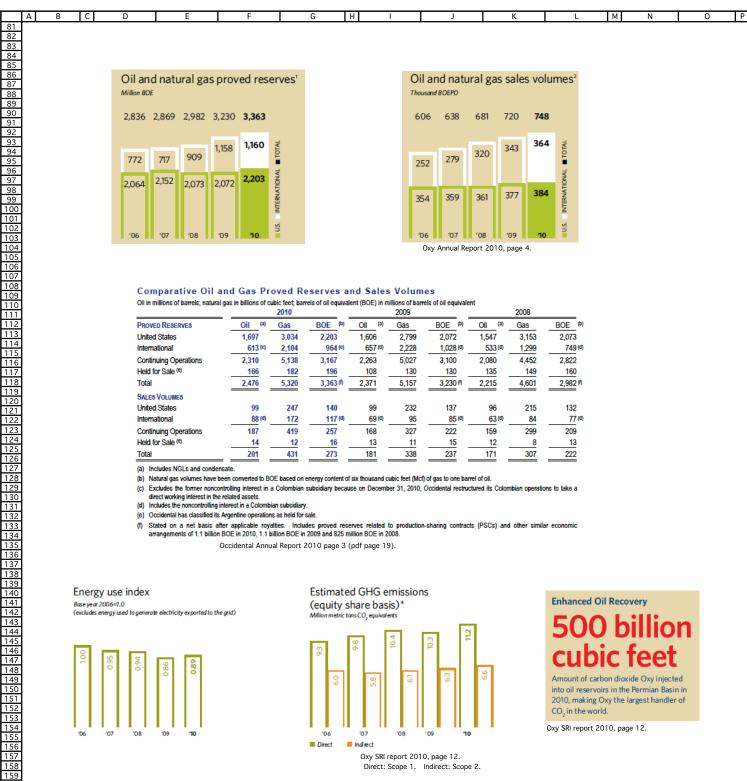
Оxy



OilGasOxy_Shell.xls

Oil and natural gas proved reserves' Million BOE Oil and natural gas sales volumes² Thousand BOEPD



direct working interest in the related assets.

(d) Includes the noncontrolling interest in a Colombian subsidiary.

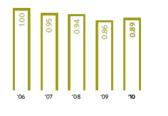
(e) Occidental has classified its Argentine operations as held for sale

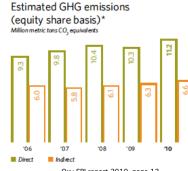
(f) Stated on a net basis after applicable royalties. Includes proved reserves related to production-sharing contracts (PSCs) and other similar economic arrangements of 1.1 billion BOE in 2010, 1.1 billion BOE in 2009 and 825 million BOE in 2008.

Occidental Annual Report 2010 page 3 (pdf page 19).

Energy use index

160 161 Base year 2006=1.0 (excludes energy used to generate electricity exported to the grid)





Oxy SRI report 2010, page 12. Direct: Scope 1. Indirect: Scope 2.

Enhanced Oil Recovery

500 billion cubic feet

Amount of carbon dioxide Oxy injected into oil reservoirs in the Permian Basin in 2010, making Oxy the largest handler of CO₂ in the world.

Oxy SRI report 2010, page 12.

Cell: 19

Comment: Rick Heede

Occidental ("Oxy") was established in 1920 in California. Led by Armand Hammer into early production in Libya and Soviet Union.

2010: Oxy announced the acquisition of assets in South Texas and North Dakota and the selling of its assets in Argentina. Eni, Oxy and Korea Gas signed a contract with Iraq's state-owned South Oil Company and Missan Oil Company as State Partner, to redevelop the Zubair Field, near Basra in southern Iraq. The government of Abu Dhabi selected Oxy to help develop the Shah Gas Field, one of the largest gas fields in the Middle East. Oxy holds a 40-percent participating interest in a 30-year contract.

2009: Oxy announced a significant discovery of oil and gas reserves in Kern County, California — believed to be the state's largest oil and gas discovery in 35 years. Oxy and Mubadala Development Company (Mubadala) with the National Oil and Gas Authority of Bahrain (NOGA) started operations for the further development of the Bahrain Field. Oxy also acquired the commodities investment company Phibro from Citigroup and OxyChem acquired Dow Chemical Company's calcium chloride operations, the world's largest.

2008: Oxy signed agreements for various projects in the Middle East/North Africa region, including an agreement to develop gas fields and to explore for potential new discoveries in the Sultanate of Oman. In the U.S., Oxy purchased interests in the Permian and Piceance basins.

2007: The giant Dolphin Project, one of the largest energy projects ever undertaken in the Middle East, became fully operational and currently delivers natural gas to customers in the United Arab Emirates and Oman. Oxy has been a partner in the Dolphin Project since 2002.

2006: Oxy acquired production assets from Vintage Petroleum in Latin America, California and the Middle East. OxyChem acquired chemical assets in the U.S. from Vulcan Materials Company. 2005: Oxy signed an agreement with Libya's National Oil Company to re-enter the country to participate in exploration and production operations.

2003. Oxy signed an agreement with Libya's National On Company to re-enter the country to participate in exp

2004: Oxy signed a new production-sharing contract for the Mukhaizna oilfield, one of the largest in Oman.

2000: The purchase of Altura Energy, Ltd., in the Permian Basin of West Texas and southeast New Mexico made Oxy the largest oil producer in Texas.

1998: Oxy became the largest natural gas producer in California with the purchase of the U.S. Department of Energy's 78-percent interest in Elk Hills Naval Petroleum Reserve.

Cell: 011

Comment: Rick Heede:

Oil and natual gas production for 1958 from Occidental Petroleum (1959) Annual Report, p.1.

Cell: G12

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

Cell: L12

Comment: Rick Heede:

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

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

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

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

ExxonMobil Corporation (2004) 2003 Financial and Operating Review, www.exxonmobil.com, p. 55.

Cell: E25

Comment: Rick Heede:

Oil and natual gas production for 1958 from Occidental Petroleum (1959) Annual Report, p.1.

Cell: E26

Comment: Rick Heede:

Sum of interpolated oil production 1959-1969 is 1,325 million bbl .

Cell: B28

Comment: Rick Heede:

1961: Oxy's first "major discovery" in Sacramento Basin.

Cell: D37

Comment: Rick Heede:

Occidental Petroleum Corporation 1971 Annual Report, p. 6, shows daily and annual crude oil production, but no data on condensate or NGL (or natural gas, for that matter). Nor does the report state whether production is net or gross, or includes oil produced for the Libyan Government (which is shown in the 1974 AnnRpt).

Cell: N37

Comment: Rick Heede:

Have 1970 and 1979 AnnRpts Ten Year Summaries, but financial data only, no production data. Coal sales are shown back to 1961 (\$79.8 million, compared to 262.2 million in 1970).

Cell: N38

Comment: Rick Heede:

Occidental Petroleum Corporation 1975 Annual Report, Island Creek Coal Division, p. 34, shows coal production 1971-1975 and marketed coal by rank: of the total mined in 1975 (19.421 million tons), 11.067 million tons was utility coal, 2.494 million tons industrial and retail, and 2.329 (domestic) plus 4.416 million tons (export) metallurgical coal (coal sales totaled 20.306 million tons).

Cell: D39

Comment: Rick Heede:

Occidental Petroleum Corporation 1974 Annual Report, Statistical Highlights, shows crude oil production (net or gross is not stated). CMS has NOT included reported crude oil produced for the Government of Libya: 53,000 bbl per day in 1972, 112,000 in in 1973, and 164,000 bl per day in 1974.

Cell: 139

Comment: Rick Heede:

Occidental Petroleum Corporation 1974 Annual Report, Statistical Highlights, shows natural gas production in million cf per day for 1972-1974.

Cell: D42

Comment: Rick Heede:

Production data (disaggregated by region and not summed) for 1975-1979 from Occidental Petroleum (1980) Annual Report, p. 16.

Cell: 142

Comment: Rick Heede:

Production data (disaggregated by region and not summed) for 1975-1979 from Occidental Petroleum (1980) Annual Report, p. 16.

Cell: N42

Comment: Rick Heede:

Coal productiin data 1975-1984 from various company annual reports.

Cell: D46

Comment: Rick Heede:

Oxy reports production by region, but (apparently) reports total production for several joint projects rather than Oxy's equity production. We had to calculate equity production in 1979 (for example) at 353,000 bbld vs total production of 838,000 bbld.

Cell: N47

Comment: Rick Heede:

Occidental Petroelum Corporation Annual Report for 1984, p. 16, mention's "Occidental's Island Creek coal operations." CMS does not have later annual reports and do not know the date of divesture.

Occidental also refers to joint development of the Ping Shuo coal mine in PR China, with Occidental interest of 25 percent, Bank of China trust 25 percent, and China National Coal Development Corporation holding 50 percent.

Cell: B49

Comment: Rick Heede:

Oxy acquired Cities Service 1982 (no data available in Oil & Gas Journal)

Cell: N52

Comment: Rick Heede:

Occidental coal production does not show up in any EIA Coal Industry Annual or Keystone Coal Industry Manual 1983-fwd.

Cell: F57

Comment: Rick Heede:

• 1983: Vintage Petroleum is incorporated (Tulsa). • 1990: Initial public offering of stock is completed. • 1992: First California properties are acquired. • 1995: Company makes first acquisitions in Argentina. • 1996: Company makes first acquisitions in Bolivia. • 1998: Ecuador and Yemen interests are added. • 2000: First Canadian property is acquired. Approximately 60 percent of its total production is generated in North America, with nearly an equal split between gas and oil production.

Cell: D67

Comment: Rick Heede:

Occidental's annual reports are among the most obscure in the industry; the company only reports combined oil & gas in oil equivalent units. This year 2000 datum is thousand BOE.

Cell: E69

Comment: Rick Heede:

Original data from Occidental (2004) SEC Form 10-K, p. 4.

The table shows the following footnotes:

Oil "includes natural gas liquids and condensate."

Oil production also includes "Occidental's share of reserves and production from equity investees in Russia and Yemen, partially offset by minority interests for a Colombian affiliate" of 9 million bbl in 2004, 10 in 2003, and 8 in 2002.

Cell: D75

Comment: Rick Heede:

2008-2010 data from Occidental AR 2010 page 83 (pdf p.98), production volumes per day, including occidental's Argentine operations as "held for sale".

Cell: J75

Comment: Rick Heede:

Occidental Annual Report 2010, page 83 (production data, including gas production "held for sale" 2008-2010.

Cell: 075

Comment: Rick Heede:

Occidental Annual Report 2010 page 3 (pdf page 19).

Cell: E77

Comment: Rick Heede:

Oil & Gas Journal OGJ150 30ct2011, page 38 shows 201 million bbl world production.