# ANNUAL SURVEY OF DOMESTIC OIL AND GAS RESERVES FORM EIA-23L

Field Survey Instructions 2006

U.S. Department of Energy Energy Information Administration Office of Oil and Gas

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#### ANNUAL SURVEY OF DOMESTIC OIL AND GAS RESERVES FORM EIA-23L CALENDAR YEAR 2006

#### **Field Survey Package**

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For Information, Assistance, or Additional Forms, Contact the EIA-23 Coordinator at 1-800-879-1470 8:30 a.m. – 5:00 p. m. CST FAX (202) 586-1076



#### U.S. DEPARTMENT OF ENERGY

Energy Information Administration Washington, DC 20585 Form Approved OMB Number: 1905-0057 Expiration Date: 12/31/09

# ANNUAL SURVEY OF DOMESTIC OIL AND GAS RESERVES FORM EIA-23L CALENDAR YEAR 2006

#### **GENERAL INSTRUCTIONS**

#### A. PURPOSE

The Energy Information Administration (EIA) of the Department of Energy (DOE) seeks, with Form EIA-23, to gather and summarize credible and timely data regarding proved reserves and production of crude oil, natural gas, lease condensate and other related matters. The Government will use the resulting information to develop national and regional estimates of proved reserves of domestic crude oil, natural gas and natural gas liquids and to facilitate national energy policy decisions.

#### **B. WHO MUST SUBMIT FORM EIA-23**

Each operator of domestic oil and/or gas wells as of December 31, 2006 that has been selected <u>must file</u> Form EIA-23. The definition of an operator as used in these instructions and forms is as follows:

Operator: The person responsible for the management and day-to-day operation of one or more crude oil and/or natural gas wells on December 31, 2006. The operator is generally a working interest owner or a company under contract to the working interest owner(s). Wells included are those that have proved reserves of crude oil, natural gas and/or lease condensate in the reservoirs associated with them, whether or not they are producing. Wells abandoned during the year are also to be considered "operated" on December 31.

Note that as defined, day-to-day physical operation of a well or wells does not alone qualify a person as the operator. Physical operation may occasionally be divorced from operatorship, such as in the instance of manipulation of swing wells by a gas pipeline company representative or the manipulation and maintenance of wells located on an offshore platform by the platform manager. While the operator's own personnel usually perform such duties, the key factor is that the operator is the person who makes management decisions regarding the well(s) in question on behalf of the owner(s). For example, such decisions might include deciding the following:

- what flow rates can be sustained without reservoir damage;
- whether well(s) should be shut-in, worked over or abandoned;
- whether additional or replacement wells should be drilled into a reservoir;
- 4) whether a waterflood program should be initiated; or

5) whether additional or different production equipment should be installed.

Filing requirements are based on operator category or size, which is determined by the total or gross (8/8ths) annual operated production rate. Production refers to the total calendar year production from all domestic oil and/or gas wells you operated on December 31, 2006, including wells abandoned during the year.

Each operating affiliate of a parent company must file its own Form EIA-23. The parent company must file only if it is an operator itself. If no parent company exercises ultimate control over your company, please indicate that on the Cover Page

If you have received the Field Form (Schedule A), but your total gross operated production is below both 400 thousand barrels (400 MBarrels) of crude oil and 2 billion cubic feet (2,000 MMCF or 2 BCF) of natural gas, contact the EIA-23 Coordinator to obtain the appropriate form and instructions. Operators of wells in the federal offshore and/or of coalbed methane wells are requested to file using this Field Form regardless of their total production levels.

If in a particular instance you are **not** certain whether you are the operator, contact the EIA-23 Coordinator for assistance in making this determination. If you are **not** the operator of oil and/or gas wells on December 31, 2006 (perhaps a former operator or solely a working or royalty interest owner), you should:

- complete and sign the Cover Page and return it to DOE along with
- a letter stating when operations ceased and what became of the wells you previously operated.

#### C. WHAT MUST BE SUBMITTED

Production data and estimates of proven reserves of crude oil, natural gas and lease condensate are required of each operator selected. This survey segregates selected operators into three categories, according to the annual production of hydrocarbons from wells that they operated on December 31, 2006. The three size categories are as follows:

Category I - Large Operators: Operators who produced 1.5 million barrels or more of crude oil or 15 billion cubic feet or more of natural gas. Production and proven reserves estimates are required from all Category I operators.

These operators must file:

- Cover Page
- Schedule A Operated proved reserves, production and related data by fields
- Schedule B Footnotes

Category II - Intermediate Operators: Operators that produced at least 400,000 barrels of crude oil or 2 billion cubic feet of natural gas but less than Category I operators. Production data are required from all Category II operators. Proved reserves estimates are required only if such data exists in company records. To the extent that these operators do not have proved reserves estimates associated with one or more specific properties, they must report their production data in "calendar year production". If production data includes properties for which reserves were not estimated, a footnote on Schedule B must be added.

These operators must file:

- Cover Page
- Schedule A Operated proved reserves (if available), production and related data by fields
- Schedule B Footnotes

Category III - Small Operators: Operators who produced less than Category II operators. These operators file an EIA-23 form with a different format. If, however, they operate either coalbed methane gas wells and/or federal offshore wells, then they should file the information shown above for a Category II operator.

#### D. WHEN AND WHERE TO SUBMIT

The completed 2006 forms must be submitted on or before April 1, 2007.

Completed forms may be submitted by mail, fax or e-mail.

Mail completed forms or RIGS diskettes to:

United States Department of Energy Energy Information Administration P O Box 8279 Silver Spring, MD 20907 Attention: Form EIA-23

Fax completed forms to: (202) 586-1076

E-mail completed forms to: OOG.SURVEYS@eia.doe.gov

RIGS (Reserves Information Gathering System) Electronic Reporting Packages (CD-ROM and RIGS Instruction Booklet) were sent to each Category I and II operator. To facilitate the processing of data, the use of EIA forms is requested (either hardcopies or these diskettes). Additional copies of the EIA-23 form and instructions are available in PDF format on the EIA Website at <a href="http://www.eia.doe.gov">http://www.eia.doe.gov</a>. (After logging on the EIA website, highlight the By Fuel category; select Petroleum or Natural Gas; then select Survey Forms on the sidebar at the left of the screen; then scroll to Reserves Survey Forms).

In addition, filing electronically, when possible (i.e., using e-mail or by fax), is encouraged. When entering responses on hard copies, type or print in black ink using all capital letters.

Computer printouts on other than an exact duplicate of the forms provided are not acceptable.

For information concerning requests for extension of time to file or for exception from filing Form EIA-23, contact the EIA-23 Coordinator toll-free at 1-800-879-1470 from 8:30 a.m. to 5:00 p.m. CST.

#### E. RECORD KEEPING REQUIREMENTS

All records necessary to reconstruct the data on this form must be kept at the reporting site or on file and available for a period of three (3) years from the filing due date.

EIA will follow this survey with efforts to perform Quality Assurance on the data, assessing the accuracy of the resulting information. Respondents may encounter two principal Quality Assurance activities:

- 1) government personnel will make or supervise independent reserve estimates on a sample basis or
- a sample of operators will be visited to review the data submitted.

EIA recognizes that the judgment of geologists and petroleum engineers is required in the reserve estimation process, and that as a result, proved reserves are estimates rather than precise quantitative measurements.

#### F. SANCTIONS

The timely submission of Form EIA-23 by those required to report is mandatory under Section 13 (b) of the Energy Information Administration Act of 1974 (FEAA) (Public Law 93-275), as amended. Failure to respond may result in a civil penalty of not more than \$2,750 a day for each violation, or a fine of not more than \$5,000 a day for each willful violation. The government may bring a civil action to prohibit reporting violations that may result in a temporary restraining order or a preliminary or permanent injunction without bond. In such civil action, the court may also issue mandatory injunctions commanding any person to comply with these reporting requirements.

#### **G. CONFIDENTIALITY**

The calendar year production of crude oil and natural gas data reported on Form EIA-23 are not considered as confidential and may be publicly released in identifiable form. In addition to the use of the information by EIA for statistical purposes, the information may be used for any non-statistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

All other information reported on Form EIA-23 will be kept confidential and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the DOE regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Energy Information Administration (EIA) will protect your information in accordance with its confidentiality and security policies and procedures.

The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another component of the Department of Energy (DOE); to any Committee of Congress, the General Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any non-statistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are applied to the statistical data published from EIA-23 survey information to ensure that the risk of disclosure of identifiable information is very small.

Confidential information collected on Form EIA-23 will be provided to United States Department of Interior offices (the Mineral Management Service and the United States Geological Survey) for statistical purposes only, in conducting their resource estimation activities. In addition, company-specific data considered as critical infrastructure information may be provided to other Federal agencies for emergency planning and response.

#### H. REPORTING STANDARDS

#### 1. Proved Reserves

Proved reserves of oil and gas as of December 31, 2006 are the estimated quantities of oil and/or gas, which geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under current economic and operating conditions.

Oil and gas reservoirs are considered "proved" if economic producibility is supported by actual production or conclusive formation tests (drill stem or wire line), or if economic producibility is supported by core analyses and/or electric or other log interpretations. The area of a reservoir considered "proved" includes:

- that portion delineated by drilling and defined by gas-oil, gas-water and/or oil-water contacts, if any; and
- the immediately adjoining portions not yet drilled, but which can be reasonably judged as economically productive on the basis of available geological and engineering data.

In the absence of information on fluid contacts, the lowest known structural occurrence of hydrocarbons controls the lower proved limit of the reservoir.

Reserves that can be produced economically through application of improved recovery techniques (such as fluid injection) are included in the "proved" classification when:

- 1) successfully tested by a pilot project, or
- operation of an installed program in the reservoir provides support for the engineering analysis on which the project or program was based.

For natural gas reserves, wet after lease separation, an appropriate reduction in the reservoir gas volume shall be made to cover the removal of:

 liquefiable portions of the gas in <u>lease and/or field</u> <u>separation facilities</u>, and  non-hydrocarbon gases where they occur in sufficient quantity to render the gas unmarketable.

Estimates of proved reserves do not include the following:

- oil that may become available from known reservoirs in the future;
- oil and/or gas, the recovery of which is subject to reasonable doubt because of uncertainty as to geology, reservoir characteristics or economic factors;
- 3) oil and/or gas that may occur in undrilled prospects;
- oil that may be recovered from oil shales, coal, gilsonite and other such sources; and
- 5) volumes placed in underground storage.

It is not necessary that production, gathering or transportation facilities are installed or operative for a reservoir to be considered proved.

#### 2. Calendar Year Production

Production data are required from all operators. If the actual 2006 production data are not available at the time Form EIA-23 is prepared, estimate production. Note that amended schedules are not required to correct preliminary production data. Production data reported in the prior year survey may have been subsequently revised or corrected, thereby altering the end of the prior year reserves. Any change in the end of the prior year reserves due to this factor should be accounted for as part of the "Revision Increases" or "Revision Decreases" reported in the current survey.

If any properties were acquired during the Calendar Year, production data from the acquired properties should be reported from the date of purchase. If any properties were sold during the Calendar Year, production data should be reported until the date of sale.

#### 3. Total Operated Basis

All data on Schedule A (reserves and related data by field) are to be reported on an 8/8ths or Total Operated Basis. When reporting on this basis, production and reserves data for any properties on which operations were acquired during the Calendar Year should be reported from the date of transfer or purchase. If any properties were sold or transferred to a new operator during the Calendar Year, production and reserves data should be reported until the date of sale or transfer.

#### **EXAMPLES:**

Of the total 8/8ths interest, respondent's share is 50 percent and the associated royalty share is 6.25 percent. Respondent operates property. Respondent reports 100 percent of proved reserves and production.

Of the total 8/8ths interest, respondent's share is zero but it operates the property (i.e., a contract operator). Respondent reports 100 percent of proved reserves and production.

#### 4. States and Geographic Subdivisions

The determination of which state or geographic subdivision within which to report proved reserves and production data is based on the location of the field(s) containing the oil and/or gas. If a field overlaps two or more states or subdivisions, the proved reserves data must be subdivided into the appropriate geographic components. Refer to the

maps in the **Glossary** for the subdivision boundaries in the States of Alaska, California, Louisiana, New Mexico and Texas.

Offshore proved reserves data are required separately for the State and Federal domains. If an offshore field lies on or between disputed boundaries, include all data in the State offshore area.

#### 5. Reporting Units

All volumes are to be reported in the appropriate reporting units as shown below.

#### a. Crude Oil

All crude oil volumes are to be reported in **thousands of barrels (MBarrels)** (42 U.S. gallons per barrel at atmospheric pressure corrected to 60° Fahrenheit) and excluding basic sediment and water.

#### b. Natural Gas

All natural gas volumes are to be reported in millions of cubic feet (MMCF) at 14.73 psia and 60° Fahrenheit, wet after lease separation.

It is recognized that the operator in many instances has no knowledge of the ultimate reduction of the gas stream produced from his properties, which may result from further downstream processing. The operator is requested to report volumes of natural gas, which remain after processing through lease and field separation facilities. Volumes of gas that are flared are also considered production.

The EIA obtains data from gas processing plants separately. Gas volumes reported on Form EIA-23 should not be corrected for liquids removed by these plants. If you do not know if a field facility through which your gas is processed is currently reporting data to the EIA or not, contact the EIA-23 Coordinator to obtain information on those plants which report.

Operators should segregate natural gas data into associated-dissolved and nonassociated gas entries (see natural gas, associated-dissolved and natural gas, nonassociated in Glossary, Section J). For a given reservoir, the gas type should represent the State classification as of December 31, 2006. This gas type may differ from the classification reflected in the prior year's Form EIA-23 filing. Use identical "Revision Increases" of one gas type and "Revision Decreases" of the other gas type to record any changes in gas type classifications from previous EIA-23 filings.

#### c. Lease Condensate

All lease condensate volumes are to be reported in **thousands of barrels (MBarrels)** (42 U.S. gallons per barrel, at atmospheric pressure corrected to  $60^{\circ}$  Fahrenheit).

#### d. Rounding

When rounding liquid volumes, round 500 barrels and above up to "1" MBbls, and less than 500 barrels down to "0" MBbls. For gas volumes, round 500 MCF and above up to

"1" MMCF, and less than 500 MCF down to "0" MMCF. Blank entries should not be completed with "0".

Volumes should be reported in whole numbers. Volumes containing decimals should be rounded to the nearest whole number.

#### e. Negative and Positive Volumes

All data are to be entered as whole number integers without plus (+) or minus (-) symbols. By definition, "Revision Decreases," "Sales," and "Production" all constitute reserve decreases and are entered without the minus symbol.

An unusual situation may occur when, for pressure maintenance, a field is injected with natural gas produced from another field. The resultant increase in proved gas reserves is considered a "Revision Increase" for those volumes that are reasonably expected to be recovered at some future date. A Schedule B footnote must indicate the total injected volume and the expected future recoveries.

#### 6. Prior Year's Filing

Entries for "Reserves, December 31, 2005" in this year's Form EIA-23 filing should not differ from those quantities reported as end-of-year reserves in the prior year's filing. Special situations that can occur are listed below:

#### a. Properties Were Purchased or Acquired

If operations were transferred <u>from</u> another company to the respondent during the calendar year, then these reserves should be shown in "Acquisitions" (column (e) on Schedule A). Reserves and production for the acquired properties should be reported from the date of purchase. Additionally, a Schedule B footnote must be provided indicating the name of the previous operator and the month in which operations were acquired.

#### b. Properties Were Sold or Transferred

If operations were transferred <u>to</u> another company during the calendar year, then these reserves should be shown in "Sales" (column (d) on Schedule A). Reserves and production for these properties should be reported until the date of sale. Additionally, a Schedule B footnote must be provided indicating the name of the new operator and the month in which operations were transferred. In the event the respondent no longer operates any properties in this field, then the "Reserves, December 31, 2006" (column (j) on Schedule A) would be zero.

#### c. Gas Type Reclassified

In the case where the type of gas was improperly reported or reclassified from associated-dissolved (AD) to non-associated (NA), or vice-versa, report the "Reserves, December 31, 2005" from last year's Schedule A for the previous classification. Eliminate the reserves of the previous classification by a Revision Decrease {Schedule A, Column c} and create the reserves of the new classification by an equal Revision Increase {Schedule A, Column b}. Enter zero for December 31, 2005 reserves for the new classification. Note the reclassification of natural gas on Schedule B.

#### d. First Time Reserve Report

If a respondent reports reserves estimates in the current survey but not in the prior year's survey because such estimates were not available in the company records at that time, add column (i), "Calendar Year Production" and column (j), "Reserves December 31, 2006". Enter the sum in column (a), "Reserves December 31, 2005".

#### 7. Schedule Preparation Standards

Prior to submission, completed forms must be assembled and paginated consecutively within each schedule in the following order:

- 1) Cover Page
- 2) Schedule A ... by state, then subdivision within state, in the same sequence as shown in the Location Code list of the Glossary. Field entries should be listed alphabetically by field name within each subdivision, or within each state not having subdivisions. The last Schedule A page is to contain the National Summary total for all reported fields
- 3) Schedule B (if needed) ... by state, then subdivision within state, in the same sequence as Schedule A.

#### SPECIFIC INSTRUCTIONS

# I. OPERATOR IDENTIFICATION AND DETAILED REPORT

This information is to be reported on the Cover Page submitted. You are required to enter those items that are incorrect or missing from the preprinted form.

#### 1. COVER PAGE - Operator Identification

#### Part I. Identification

**EIA Identification Number**: This item is for DOE use only.

Company Name, Address, City, State, ZIP Code. Enter the legal name and address of the operator. Use standard State abbreviations found in the Glossary on page 17. If a foreign address, enter city, local equivalent of State name (e.g., province), and country on the second address line.

#### Item Instructions:

**Item 1: Contact Information.** Name, telephone number, fax number, and e-mail address of the person most knowledgeable about the reported data. This person should be familiar with the data provided, and will be the person to whom inquiries will be directed, if necessary.

Item 2: "Was your company an oil and gas field operator ...?" Check the appropriate box and follow the instructions for completing the rest of the form.

Item 3: Company Status, Name, and/or Address Change or Correction. If there was a change to the company name or address, or if the company was sold, merged with another company or the company went out of business, check the appropriate box and complete Item 4.

Item 4: Change Company Name, Address, and/or Contact Information. If any box in Item 3 was checked, enter the new or correct company name, address, or contact person here.

#### Part II. Parent Company Identification

**Item 5. Is there a parent company ...?**" Check the appropriate box. If Box 2 is checked, provide parent company information in Items 6 through 10.

**Item 6. Company Name.** Enter the legal name and address of the parent company, if any that exercises ultimate control over the respondent.

**Example:** You are Company A, which takes direction from Company B, which in turn takes direction from Company C. Report Company C as the parent company, rather than Company B.

**Items 7-10:** Address, City, State, and Zip Code. Enter the address, City, State, and Zip Code of the parent company.

#### Part III. Approval

Items 11 thru 14: Approval - Enter the name and title of the individual designated by the respondent company to review and approve the accuracy of this submission and the date of the signing. This report should be reviewed and approved by a responsible officer or the office responsible for regulatory filings.

# 2. SCHEDULE A – Operated Proved Reserves, Production and Related Data By Field

All proved reserves, production and reserve changes data on Schedule A are to be reported on a Total Operated Basis for each field in which the respondent operated oil and/or gas wells on December 31, 2006, including abandonments during the year. (See **Total Operated Basis** in Section H.3 and J) If a field overlaps two or more States or subdivisions, data pertaining to each must be separately reported.

#### SECTION 1.0: Operator and Report Identification Data

The information in this section is to be reported on each Schedule A submitted.

#### Item Instructions:

**Item 1.1:** Operator EIA ID Code - If the operator ID from the preprinted form on the Cover Page is incorrect, enter the correct 10-digit number.

Item 1.2: Operator Name - If the name of the operator from the preprinted form on the Cover Page is incorrect, enter the first 35 characters of the operator name. If the name exceeds 35 characters, do not abbreviate, but simply truncate the extra characters from the right.

**Item 1.3: Original** - Enter an 'X' if this is the first submission of this schedule for the report year. Otherwise, leave blank.

**Item 1.4: Resubmission** - Enter an `X' if this schedule amends a previously submitted schedule. Otherwise, leave blank.

**Item 1.5: Page** – Enter the current page number in this schedule series.

#### **SECTION 2.0: Field Data (Operated Basis)**

Production data and/or estimates of proved reserves of crude oil, natural gas, and lease condensate are required of each operator selected. This survey segregates selected operators into three categories, according to the annual production of hydrocarbons from wells that they operated on December 31, 2006. The three size categories are as follows:

**Category I - Large Operators:** Operators who produced 1.5 million barrels or more of crude oil, or 15 billion cubic feet or more of natural gas, or both.

**Category II - Intermediate Operators:** Operators who produced at least 400,000 barrels of crude oil or 2 billion cubic feet of natural gas, or both, but less than Category I operators.

**Category III - Small Operators:** Operators who produced less than the Category II operators.

Production refers to the total report year production from all domestic oil and/or gas wells you operated on December 31, 2006, including wells abandoned during the year.

Production data and proved reserve estimates are required from all Category I operators. Production data are required from all Category II operators. Proved reserves estimates are required from Category II operators only if such data exist in company records. To the extent that Category II operators do not have proved reserves estimates associated with one or more specific properties, they must report total production for all properties. They need to provide a footnote that separates their production data according to production from properties for which proved reserves have been estimated and production from properties for which proved reserves have not been estimated.

Field data blocks, items 2.1 through 2.3, are to be utilized by both the Category I and Category II respondents to report their production and proved reserves at the field level. A Category II operator may elect to file as a Category I operator.

All Category II operators are required to complete Subitems 1, 2, 3, 4, and 6. Subitem 11 must also be completed if this information is available. Category II operators who have reserve estimates should complete Columns (a) through (i), Subitems 12 through 15 as Category II operators who do not have appropriate. proved reserve estimates should use Subitems 12 through 15, Column (i) only, as appropriate to report field production data. In the event the operator has partial reserve estimates for a given field, production for that portion for which no reserve estimates are available should be combined with the production for which reserves were estimated. Subitems 12 through 15 should be utilized to report available reserves and associated production data from the remaining part of the field.

If it would make your forms preparation easier, a new State or State subdivision may be started in the first field data block of a new Schedule A page. In all other cases, utilize all three-field data blocks on each Schedule A. When completing more than one page of Schedule A, do not renumber items 2.1 through 2.3 on successive pages. However, be certain to enter the correct, consecutive page numbers on each page in item 1.5.

#### Items 2.1 through 2.3:

Subitem 1: State Abbreviation - Enter the two-character alphabetic abbreviation of the State to which data reported for this field pertains. For offshore fields, use the abbreviation of the adjacent state. (See Geographic Codes in Section L)

**Subitem 2: Subdivision Code** - Enter the two-digit code of the appropriate geographic subdivision to which data reported for this field pertain; leave blank if not applicable. (See **Geographic Codes** in Section L)

Subitem 3: County Code - For onshore areas, enter the three-digit numeric code for the county or parish in which the field is located, as it appears on the EIA 2006 Annual Oil and Gas Field Code Master List. The RIGS CD-ROM sent to all Category I and II operators contains the information from the 2006 Annual Oil and Gas Field Code Master List publication. The List is also available on our website at http://www.eia.doe.gov. After logging on the EIA website, highlight the By Fuel category; select Petroleum or Natural Gas; then select Publications on the sidebar at the left of the screen; then scroll to Oil and Gas Field Code Master List under Annual. If the field is located in more than one county, enter the code for the county that contains the largest lease acreage, overlying proved reserves, which you operate. (See County Codes in Section L)

**Subitem 4:** Field Code - Enter the six-digit field identification code as it appears on the EIA 2006 Annual Oil and Gas Field Code Master List. If you cannot locate the field name on the list or there is substantial doubt that a field identified on the list is the same field that you are reporting, insert UNK001 for the first such field, then UNK002 for the second such field, etc. for this Subitem. (See Field Coding Conventions in Section L)

**Subitem 5: Type Code** – Enter the alpha code to recognize the volumes of field production and proved reserves from conventional reservoirs, and designated unconventional reservoirs. These alpha codes are C for conventional reservoirs, CB for coal bed reservoirs, SH for shale reservoirs, CH for chalk reservoirs and LP for other low permeability reservoirs. Low permeability reservoirs are those with values of 0.1 millidarcy or less.

**Subitem 6:** Field Name - Enter the name of the field to which data entered in this data block item pertains. Do not include reservoir names unless they are part of the proper field name. (See Field Naming Conventions in Section K)

Subitem 7: Proved Non-producing Reserves. Enter the estimated volumes of <u>proved</u> reserves in the field, which were in non-producing status at the end of the calendar year. This includes proved developed non-producing and proved undeveloped reserves. (See Non-producing Reserves in Section J.)

**Subitem 8:** Footnote - Enter an "X" if further explanatory information pertaining to data for this field appears on Schedule B, Footnotes. Leave blank if there is no footnote information.

**Subitem 9:** Water Depth - For an offshore field, enter the average depth of water (from mean sea level to seabed) over the field, in feet. Leave blank if an onshore field.

Subitem 10: Field Discovery Year - Enter the calendar year in which the field was discovered. Field discovery years may be found in the 2006 Annual Oil and Gas Field Code Master List. Footnote on Schedule B and check Subitem 8 if this represents a change from a previously reported discovery year for this field. Enter 'NA' if not known. (See Field Discovery Year in Section J)

**Subitem 11: Prospect Name (Optional)** – Respondent may enter the prospect name used by the respondent company to define the wells, properties and/or leases to which data entered in this block pertains. Generally utilized prior to the assignment of an official field name by the state or other jurisdictional agency,

Subitem 12: Crude Oil (MBarrels)

Subitem 13: Associated-Dissolved Gas (MMCF)

Subitem 14: Non-associated Gas (MMCF)

Subitem 15: Lease Condensate (MBarrels)

Column (a): Total Proved Reserves, December 31, 2005 - Enter the volumes of total proved reserves as of December 31, 2005. (See Proved Reserves of Crude Oil, Proved Reserves of Lease Condensate and Proved Reserves of Natural Gas, Wet After Lease Separation in Section J) (See Section H, Item 6, page 4, for explanation of reserve changes from prior year's filing.)

Column (b): Revision Increases - Enter the total of upward revisions made in the field during the calendar year. Explain any total revision increase in excess of 2,500 MBarrels of liquid or 15,000 MMCF of gas in a Schedule B footnote and check Subitem 8. To the extent that reserves are revised upward due to implementation of secondary or tertiary recovery techniques, such revisions should be indicated by volume and by recovery method in a Schedule B footnote. Also, indicate in a Schedule B footnote the volume of any upward revisions due to the transfer of reserves previously reported as 'Indicated Additional Reserves of Crude Oil' to proved status. (See Revisions in Section J.)

Column (c): Revision Decreases - Enter the total of downward revisions made in the field during the calendar year. Do not enter a minus sign as entries in this column are assumed to be negative. Explain any total revision decrease in excess of 2,500 MBarrels of liquid or 15,000 MMCF of gas in a footnote on Schedule B and check subitem 8. (See Revisions in Section J.)

**Column (d):** Sales – If operations were transferred to another company during the calendar year, then these reserves should be reported as "Sales." Enter the reserves for these properties until the date of sale. Additionally, a Schedule B footnote must be provided indicating the name of the new operator and the month in which operations were transferred. In the event the respondent no longer operates

any properties in this field, then the "Reserves, December 31, 2006" (column (j)) will be zero.

**Column (e):** Acquisitions — If operations were transferred from another company to the respondent during the calendar year, then these reserves should be reported as "Acquisitions." Enter the reserves for the acquired properties from the date of purchase or transfer. Additionally, a Schedule B footnote must be provided indicating the name of the previous operator and the month in which operations were acquired.

**Column (f): Extensions** – If this is an old field, enter the increases to the field's reserves attributable to extensions, including increased density and recompleted wells, during the current calendar year. (See **Extensions** in Section J.)

Column (g): New Field Discoveries - If the field was discovered during the calendar year 2006, enter the estimated initial volumes of proved reserves attributable thereto (before reducing it by production during the calendar year, if any). See New Field Discoveries in Section J.)

Column (h): New Reservoir Discoveries in Old Fields - If this is an old field and any new reservoir discoveries were made in it during the calendar year, enter the estimated initial volumes attributable thereto, (before reducing by production during the calendar year, if any). (See New Field and Old Field in Section J.)

Column (i): Calendar Year Production - Enter the volumes produced from the field during the calendar year. (See Production, Crude Oil, Production, Lease Condensate and Production, Natural Gas, Wet After Lease Separation in Section J.)

Column (j): Total Proved Reserves, December 31, 2006 - Enter the volumes of total proved reserves as of December 31, 2006. This item should be the algebraic sum of Columns (a) + (b) + (e) + (f) + (g) + (h), less Columns (c), (d), and (i). This value includes producing and non-producing reserves and therefore should always be equal to or greater than the values shown in Subitem 7.

#### **NATIONAL TOTALS**

National totals for each of the volumetric data elements reported on Schedule A are required. After all fields in which you operate have been reported on Schedule A, sum each data element included in subitem 7, 11, and 12 through 15. Enter these national totals in corresponding subitem locations of the first unused field data block, items 2.1 through 2.4. Enter "ZZ" in Subitems 1 through 4 and "NATIONAL TOTALS" or "COMPANY TOTALS" in Subitem 6 to identify these data as national summary totals.

#### 3. SCHEDULE B - Footnotes

At a minimum, submit footnotes in clarification of reported data items when required to do so by the instructions for the applicable schedule. This includes sales or acquisitions of properties during the calendar year 2006. Additionally, you may footnote any other reported item if this will enhance its clarity.

#### **SECTION 1.0: Operator and Report Identification Data**

This information is to be reported for each Schedule B submitted.

#### Item Instructions:

Item 1.1: Operator EIA ID Code - If the operator ID from the preprinted form on the Cover Page is incorrect, enter into this space the correct 10-digit operator code. If no code has been assigned to you, leave this space blank.

Item 1.2: Operator Name - If the operator name from the preprinted form on the Cover Page is incorrect, enter the first 35 characters of the operator name. If the name exceeds 35 characters, do not abbreviate, but simply truncate the extra characters from the right.

**Item 1.3: Original** - Enter an "X" if this is the first submission of this schedule for the calendar year. Otherwise, leave blank.

**Item 1.4: Resubmission** - Enter an "X" if this schedule amends a previously submitted schedule. Otherwise leave blank.

Item 1.5: Page - Enter the current page number in this schedule series.

#### **SECTION 2.0: Footnote Data**

Use all lines on each Schedule B page before using additional pages. Columns (a) thru (e) must be filled in only for the first line of each footnote.

**Column (a):** State Abbreviation - Enter the abbreviation for the state in which the field is located that is referenced by this footnote.

**Column (b):** Subdivision Code – Enter the corresponding state geographic subdivision code, if any, from Schedule A referenced by this footnote. Leave blank if the subdivision code is not applicable for this particular state.

**Column (c): County Code** - Enter the county code from Schedule A referenced by this footnote.

**Column (d):** Field Code - Enter the field code from Schedule A referenced by this footnote.

Column (e): MMS Code - Enter the Minerals Management Service (MMS) code for federal offshore blocks, or the alpha code that recognizes fields historically identified as non-conventional reservoirs., if available and applicable, referenced by this footnote. Otherwise leave blank.

Column (f): Hydrocarbon Type - Enter the number for the type of hydrocarbon shown in Schedule A referenced by this footnote. For example, use 12 for crude oil, 13 for associated dissolved gas, 14 for non-associated gas and 15 for lease condensate. Use 7 for footnote references to proved non-producing reserves regardless of the type of hydrocarbon.

**Column (g): Column** - Enter the column designation (alphabetic character, a through j), if applicable, that is referenced by the footnote. Otherwise leave blank.

**Column (h):** Footnote - Enter the text of the footnote, using as many lines as necessary.

#### **GLOSSARY AND CODES**

#### J. DEFINITIONS

The definitions contained herein have been formulated with reference to the particular purposes to be served by Form EIA-23. They are not necessarily synonymous with the same or similar terms as used in DOE regulations and are not to be constructed as definitions applicable for any purposes other than the collection and reporting of data on Form EIA-23.

**Acquisitions:** The volumes of proved reserves of crude oil, natural gas and/or lease condensate associated with properties that were purchased and/or transferred from another company to the respondent's operatorship during the calendar year.

**Affiliated (Associated) Company:** An entity that is directly or indirectly owned, operated or controlled by another entity. (See **Person** and **Control**)

**Control:** The term "control" (including the terms "controlling," "controlled by" and "under common control with") means the possession, direct or indirect, of the power to direct or cause the direction of the management and policies of a person, whether through the ownership of voting shares, by contract or otherwise. (See **Person**)

Corrections: (See Revisions)

Crude Oil (excluding Lease Condensate): A mixture of hydrocarbons that exists primarily in the liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Such hydrocarbons as lease condensate and natural gasoline recovered as liquids from natural gas wells in lease or field separation facilities and later mixed into the crude stream are excluded. Depending upon the characteristics of the crude stream, it may also include:

- small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured and/or
- small amounts of non-hydrocarbons produced with the oil, such as sulfur and various metals.

When a State regulatory agency specifies a definition of crude oil, which differs from that set forth above, the State definition is followed.

**Extensions:** The reserves credited to a reservoir because of enlargement of its proved area. Normally, the ultimate size of newly discovered fields or newly discovered reservoirs in old fields is determined by wells drilled in years subsequent to discovery. When such wells add to the proved area of a previously discovered reservoir, the increase in proved reserves is classified as an extension. This would also include increased density wells and recompletions that extend the drainage area of the field beyond the existing wells.

**Field:** An area consisting of a single reservoir or multiple reservoirs all grouped on, or related to, the same individual geological structural feature and/or stratigraphic condition. There may be two or more reservoirs in a field, which are separated vertically by intervening impervious strata or laterally by local geologic barriers or by both.

**Field Area:** A geographic area encompassing two or more pools that have a common gathering and metering system, the reserves of which are reported as a single unit. This concept applies primarily to the Appalachian region. (See **Pool**)

**Field Discovery Year:** The calendar year in which a field was first recognized as containing economically recoverable accumulations of oil and/or gas. The official dates may be found in the *Oil and Gas Field Code Master List*.

**Field Separation Facility:** A surface installation designed to recover lease condensate from a produced natural gas stream usually originating from more than one lease, and managed by the operator of one or more of these leases. (See **Lease Condensate**)

Gas Processing Plant: Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities also control the quality of the natural gas stream to be marketed. Cycling plants are classified as natural gas processing plants.

Gross Working Interest Ownership Basis: Gross working interest ownership is the respondent's working interest in a given property plus the proportionate share of any royalty interest, including overriding royalty interest, associated with the working interest. (See Working Interest and Royalty [Including Overriding Royalty] Interest)

**Lease Condensate:** A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease or field separation facilities. This category excludes natural gas plant liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. The output of natural gas processing plants is reported on Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production," and Form EIA-816, "Monthly Natural Gas Liquids Report."

**Lease Separator:** A facility installed at the surface for the purpose of separating gases from:

- produced crude oil and water at the temperature and pressure conditions of the separator, and/or
- that portion of the produced natural gas stream, which liquefies at the temperature and pressure conditions of the separator.

Natural Gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its sources of production, associated/dissolved natural gas and non-associated natural gas, and dry natural gas, which are produced from wet natural gas. This EIA survey does not include landfill gas (biomass gas), synthetic natural gas, coke oven gas or manufactured gas.

Wet natural gas: A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in porous rock formations at reservoir conditions. The principal hydrocarbons normally contained in the mixture are methane, ethane, propane, butane and pentane. Typical nonhydrocarbon gases that may be present in reservoir natural gas are water vapor, carbon dioxide, hydrogen sulfide, nitrogen and trace amounts of helium. Under reservoir conditions, natural gas and its associated liquefiable portions occur either in a single gaseous phase in the reservoir or in solution with crude oil and are not distinguishable at the time as separate substances. Note: The Securities and Commission and The Exchange Financial Accounting Standards Board refer to this product as natural gas.

**Associated-dissolved natural gas:** Natural gas that occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (casinghead gas). See **natural gas**.

**Non-associated natural gas:** Natural gas that is not in contact with significant quantities of crude oil in the reservoir. See **natural gas**.

Dry natural gas: Natural gas that remains after:

- the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field and/or plant separation); and
- any volumes of non-hydrocarbon gases have been removed where they occur in sufficient quantity to reduce the gas quality below minimum pipeline specifications (rendering it unmarketable).

Note: Dry natural gas is also known as consumergrade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute (psia). See *natural gas*.

**New Field:** A field discovered during the calendar year.

**New Field Discoveries:** The volumes of proved reserves of crude oil, natural gas and/or lease condensate discovered in new fields during the calendar year.

**New Reservoir:** A reservoir discovered during the calendar year.

**New Reservoir Discoveries in Old Fields:** The volumes of proved reserves of crude oil, natural gas, and/or natural gas liquids discovered during the calendar year in new reservoir(s) located in old fields.

Non-producing Reserves: Quantities of proved liquid or gaseous hydrocarbon reserves that have been identified, but which did not produce during the last calendar year regardless of the availability and/or operation of production, gathering or transportation facilities. This includes both proved undeveloped and proved developed non-producing reserves.

**Old Field:** A field discovered prior to the calendar year.

**Old Reservoir:** A reservoir discovered prior to the calendar year.

Operator: The person responsible for the management and day-to-day operation of one or more crude oil and/or natural gas wells as of December 31, 2006. The operator is generally a working interest owner or a company under contract to the working interest owner(s). Wells included are those, which have proved reserves of crude oil, natural gas, and/or lease condensate in the reservoirs associated with them, whether or not they are producing. Wells abandoned during 2006 are also to be considered "operated" as of December 31, 2006. (See Person, Proved Reserves of Crude Oil, Proved Reserves of Natural Gas, Proved Reserves of Lease Condensate, Report Year, and Reservoir)

Ownership: (See Gross Working Interest Ownership Basis)

Parent Company: A firm that directly or indirectly controls another entity. (See Affiliated [Associated] Company and Control)

**Person:** An individual, a corporation, a partnership, an association, a joint-stock company, a business trust or an unincorporated organization.

**Pool:** In general, a reservoir. In certain situations a pool may consist of more than one reservoir. (See **Field Area**)

**Production, Crude Oil:** The volumes of crude oil that was extracted from oil reservoirs during 2006. These volumes are determined through measurement of the volumes delivered from lease storage tanks or at the point of custody transfer, with adjustment for:

- net differences between opening and closing lease inventories, and
- 2) basic sediment and water.

Crude oil used on the lease is considered production.

**Production, Lease Condensate:** The volume of lease condensate produced during 2006. Lease condensate volumes include only those volumes recovered from lease or field separation facilities. (See **Lease Condensate**)

**Production, Natural Gas:** The volume of natural gas withdrawn from reservoirs during the calendar year less:

- the volume returned to such reservoirs in cycling, repressuring of oil reservoirs and conservation operations;
- the shrinkage resulting from the removal of lease condensate; and
- non-hydrocarbon gases where they occur in sufficient quantity to render the gas unmarketable.

Volumes of gas withdrawn from gas storage reservoirs and native gas, which has been transferred to the storage category, are not considered production. Flared and vented gas is also considered production and should be included in the volumes reported.

**Prospect:** An area of exploration or development in which hydrocarbons have been predicted to exist in economic quantity. A prospect is commonly an anomaly, such as a geologic structure or a seismic amplitude anomaly, which is recommended by exploration personnel for drilling a well. A single drilling location may also be called a prospect but the term is more properly used in the context of exploration.

**Proved Reserves of Crude Oil:** Proved reserves of crude oil as of December 31, 2006 are the estimated quantities of all liquids defined as crude oil, which geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions.

Reservoirs are considered proved if economic producibility is supported by actual production or conclusive formation test (drill stem or wire line), or if economic producibility is supported by core analyses and/or electric or other log interpretations. The area of an oil reservoir considered proved includes:

- that portion delineated by drilling and defined by gasoil and/or oil-water contacts, if any; and
- the immediately adjoining portions not yet drilled, but which can be reasonably judged as economically productive on the basis of available geological and engineering data.

In the absence of information on fluid contacts, the lowest known structural occurrence of hydrocarbons is considered to be the lower proved limit of the reservoir.

Volumes of crude oil placed in underground storage are not considered proved reserves.

Reserves of crude oil which can be produced economically through application of improved recovery techniques (such as fluid injection) are included in the "proved" classification when successful testing by a pilot project, or the operation of an installed program in the reservoir, provides support for the engineering analysis on which the project or program was based.

Estimates of proved crude oil reserves do not include the following:

- oil that may become available from known reservoirs in the future;
- 2) natural gas liquids (including lease condensate);
- oil, the recovery of which is subject to reasonable doubt because of uncertainty as to geology, reservoir characteristics or economic factors;
- 4) oil that may occur in undrilled prospects; and

- 5) oil that may be recovered from oil shales, coal, Gilsonite and other such sources.
- It is not necessary that production, gathering or transportation facilities are installed or operative for a reservoir to be considered proved.

Proved Reserves of Lease Condensate: The volumes of lease condensate expected to be recovered in future years in conjunction with the production of proved reserves of natural gas based on the recovery efficiency of lease and/or field separation facilities currently installed. (See Lease Condensate and Proved Reserves of Natural Gas)

**Proved Reserves of Natural Gas:** The estimated quantities which analysis of geologic and engineering data demonstrates with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions. Reservoirs are considered proved if economic producibility is supported by actual production or conclusive formation test (drill stem or wire line), or if economic producibility is supported by core analyses and/or electric or other log interpretations.

The area of a gas reservoir considered proved includes:

- that portion delineated by drilling and defined by gasoil and/or gas-water contacts, if any; and
- the immediately adjoining portions not yet drilled, but which can be reasonably judged as economically productive on the basis of available geological and engineering data.

In the absence of information on fluid contacts, the lowest known structural occurrence of hydrocarbons is considered to be the lower proved limit of the reservoir.

Volumes of natural gas placed in underground storage are not considered proved reserves.

For natural gas reserves, wet after lease separation, an appropriate reduction in the reservoir gas volume must be made to cover the removal of the liquefiable portions of the gas in lease and/or field separation facilities and the exclusion of nonhydrocarbon gases where they occur in sufficient quantity to render the gas unmarketable.

It is not necessary that production, gathering or transportation facilities are installed or operative for a reservoir to be considered proved. It is to be assumed that compression will be initiated if and when economically justified.

**Report Year:** The calendar year to which data reported on this form pertains.

Reserves: (See Proved Reserves)

**Reserves Changes:** Positive and negative revisions, sales, acquisitions, extensions, new field discoveries and new reservoir discoveries in old fields which occurred during the calendar year.

**Reservoir:** A porous and permeable underground formation containing an individual and separate natural accumulation of producible hydrocarbons (oil and/or gas) which is confined by impermeable rock or water barriers and is characterized by a single natural pressure system.

Revisions: Changes to prior year-end proved reserves estimates, either positive or negative, resulting from new information other than an increase in proved acreage (extension) or acquisition or sales of properties. Revisions include increases of proved reserves associated with the installation of improved recovery techniques or equipment. They also include correction of prior calendar year arithmetical or clerical errors and adjustments to prior year-end production volumes to the extent that these alter previous reserves estimates.

Royalty (Including Overriding Royalty) Interests: Rights that entitle their owner(s) to a share of the mineral production from a property or to a share of the proceeds from a property. They do not contain the rights and obligations of operating the property and normally do not bear any of the costs of exploration, development and operation of the property.

**Sales**: The volumes of proved reserves of crude oil, natural gas and/or lease condensate associated with properties that were sold and/or transferred during the calendar year from the respondent's operatorship to that of another company.

**Subdivision:** A prescribed portion of a given State or other geographical region defined in this publication for statistical reporting purposes.

**Subsidiary Company:** A company which is controlled through the ownership of voting stock or a corporate joint venture in which a corporation is owned by a small group of businesses as a separate and specific business or project for the mutual benefit of the members of the group. (See **Control**)

**Total Operated Basis:** The total reserves or production associated with the wells operated by an individual operator. This is also commonly known as the "gross operated" or "8/8ths" basis.

**Working Interest:** Rights that permits the owner(s) to explore, develop and operate a property. The working interest owner(s) bear(s) the costs of exploration, development and operation of the property. In return for these investments, the owner(s) is (are) entitled to a share of the mineral production from the property or to a share of the proceeds from the property.

#### K. FIELD NAMING AND CODING CONVENTIONS

Information from the EIA 2006 Annual Oil and Gas Field Code Master List were included on the RIGS CD-ROM enclosed for all Category I and Category II operators. This List is also available on our website at <a href="http://www.eia.doe.gov">http://www.eia.doe.gov</a>. After logging on the EIA website, highlight the By Fuel category; select Petroleum or Natural Gas; then select Publications on the sidebar at the left of the screen; then scroll to Oil and Gas Field Code Master List under Annual. Please consult this publication for the appropriate State, county and field codes and spelling conventions for field names.

#### 1. Field Naming Conventions

Field naming conventions are used to provide a standard nomenclature for each geologic field that is recognizable to both the personnel working with the EIA-23 form and the computer system and fits into 26 characters. In most instances, field names should reflect the conventions imposed by State oil and gas regulatory agencies. (See 2006 Annual Oil and Gas Field Code Master List, Table 1. List of Authorities for Naming Oil and Gas Fields.) Field names that have come into general acceptance in an area may be used, unless they have been specifically altered or replaced by the appropriate naming authority. Also, field names used strictly by one company must give precedence to the State recognized name.

Exceptions occur for names of fields located in Texas and New Mexico, in which States the regulatory agencies consider geologic reservoirs to be "fields." For example, in Texas, Parker (Pennsylvanian) and Parker (Wolfcamp) are considered separate fields by the State. In actuality, Parker is the name of the geologic field and Pennsylvanian and Wolfcamp are reservoir names of the geologic reservoirs in the field (by Texas Railroad Commission convention, the geologic reservoir name appears in parentheses after the geologic field name). For the purpose of reporting names on Schedule A of form EIA-23, only the geologic field name should be used. In the example above, "PARKER" would be entered as the field name, subitem 6, in the field data block of Schedule A. Some specific conventions include the following:

 Offshore field names usually (but not always) consist of a basic offshore area name and block number specified by the U.S. Minerals Management Service. Example: East Cameron South addition Block 265.
 If offshore area names must be abbreviated to fit within 26 characters allowed, the following standard abbreviations should be used:

Name	Code	Name	Code	
NORTH	Ν	NORTH ADDITION	NA	
SOUTH	S	SOUTH ADDITION	SA	
EAST	Ε	EAST ADDITION	EA	
WEST	W	WEST ADDITION	WA	
BLOCK	BLK	SOUTH EXTENSION	SX	
ISLAND	IS	EAST EXTENSION	EX	

For example, High Island East Addition South Extension Block A-375 should be abbreviated as follows:

HIGH IS EA SX BLK A-375.

- Such abbreviations should not be applied to names of onshore fields (except for non-cardinal compass points such as NW for northwest or SE for southeast). If an onshore field name is too long to fit in the allotted space, truncate it on the right and provide the full name on Schedule B.
- 3) Compass point words used in field names are to be placed at the end of the field name (i.e. Three Mile Creek North). Exceptions are made for geographic places, such as East Texas field of East Texas or East Branch, a field named for East Branch, Pennsylvania.
- 4) Special attention should be given to reporting field names in Michigan. Most fields have the section, township and range after the field name. For example: Kalkaska 12-27N-7W. Operators should report field name as indicated.
- 5) If a field that has been reported in the previous year is changed or aliased to another field according to the field code publication, report the data under the new field name. For example, Mud Spring is an alias of Four Mile Creek. All data that was previously reported under Mud Spring should now be reported under and combined with any previous Four Mile Creek data.
- 6) Lease names are not acceptable in lieu of geologic field names. To determine the field name for a particular lease, contact the EIA-23 Field Coordinator at 1-800-879-1470, the state geologic survey or conservation commission. If a field name cannot be determined, report the field name as "unknown."

Any names other than official EIA field names will be researched during routine editing of Form EIA-23 data.

#### 2. Field Coding Conventions

Field codes are to be entered on Schedule A for all fields reported by Category I and Category II respondents. The field names and corresponding six-digit code are contained in the EIA 2006 Annual Oil and Gas Field Code

Master List. If a field for which you are reporting does not appear on the Master List, enter UNK001 or UNK002 for the field code and enter the field name and location information. Please use Schedule B - Footnotes for such clarifying data as may allow us to properly identify fields not on the Master List.

#### L. LOCATION CODES

Wherever applicable, the following codes are those specified as in the EIA 2006 Annual Oil and Gas Field Code Master List.

#### 1. Geographic Codes

The following State abbreviations and geographic subdivision codes should be used in Schedule A, Subitems 1 and 2 of Items 2.1 through 2.3.

State and geographic codes are to be entered on Schedule A for all fields reported by Category I and Category II respondents. The State and geographic subdivision names and corresponding codes are contained in the EIA 2006 Annual Oil and Gas Field Code Master List. If a field for which you are reporting does not appear on the Master List, enter UNK001 or UNK002, etc. for the field code and enter the state location, county code and field name information in Schedule A. Please use Schedule B - Footnotes for such clarifying data as may allow us to properly identify fields not on the Field Code Master List.

#### 2. County Codes

The county codes should be used in Schedule A, Subitem 3 of Items 2.1 through 2.3. County codes are to be entered on Schedule A for all fields reported by Category I and Category II respondents. The county names and corresponding three-digit code are contained in the EIA 2006 Annual Oil and Gas Field Code Master List publication. If a field for which you are reporting does not appear on the Master List, enter UNK001 or UNK002, etc. for the field code and enter the field name, county name and state location information in Schedule B. Please use Schedule B - Footnotes for such clarifying data as may allow us to properly identify fields not on the Master List.

There are no counties in Alaska. Census Divisions have been used to locate oil and gas fields in the past. However, these Divisions are subject to change every 10 years. Therefore, pseudo-county codes as defined by the American Petroleum Institute (API) are to be used for Form EIA-23 reporting. The API pseudo-county codes are used by the State of Alaska and are generally accepted within the industry. They correspond to Universal Transverse Mercator 1 degree by 3-degree quadrangles. Each quadrangle is assigned a 3-digit code that should be entered in the county code blank. See the map of Alaska for the location of the quadrangles.

The EIA-23 Coordinator can be contacted at 1-800-879-1470 for assistance with both county codes and the Alaska codes.

#### State Abbreviation and Geographic Subdivision Codes

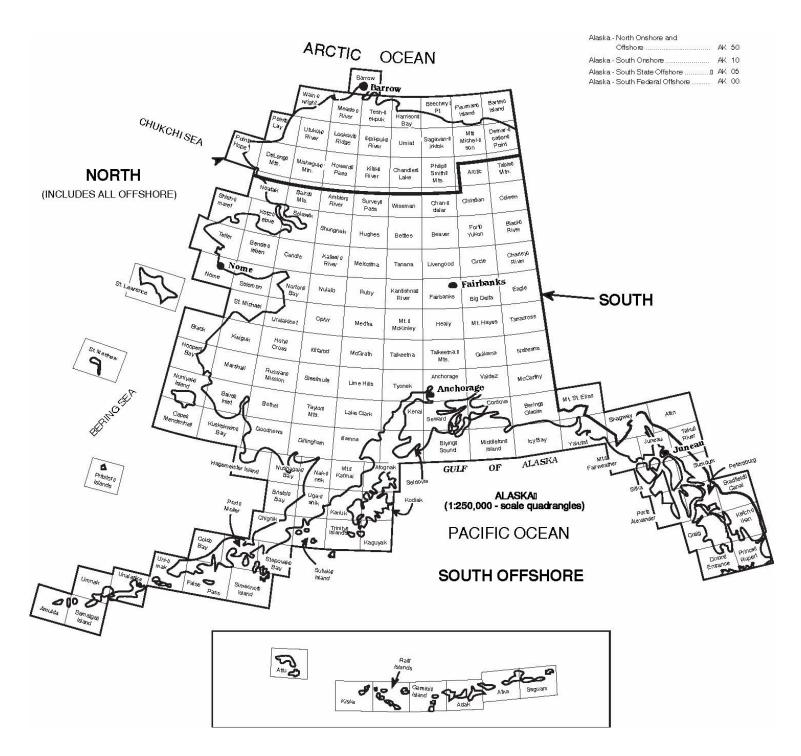
State Name and Geographic Subdivisions <sup>1</sup>	State Subdivision Abbreviation Code		4	tate eviation	Subdivision Code
Alaska - South State Offshore <sup>2</sup>	AK	05	Michigan	MI	Blank
Alaska - South Onshore	AK	10	Minnesota	MN	Blank
Alaska - North Onshore and Offshore <sup>3</sup>	AK	50	Missouri	MO	Blank
Alabama - Onshore		Blank	Mississippi - Onshore	MS	Blank
Alabama - State Offshore <sup>2</sup>		05	Mississippi - State Offshore <sup>2</sup>	MS	05
Arkansas		Blank	Montana	MT	Blank
Arizona	AZ	Blank	North Carolina	NC	Blank
California - State Offshore <sup>2</sup>		05	North Dakota	ND	Blank
California - San Joaquin Basin Onshore		10	Nebraska	NE	Blank
California - Coastal Region Onshore		50	New Hampshire	NH	Blank
California - Los Angeles Basin Onshore		90	New Jersey	NJ	Blank
Colorado		Blank	New Mexico - East	NM	10
Connecticut		Blank	New Mexico - West	NM	50
District of Columbia		Blank	Nevada	NV	Blank
Delaware		Blank	New York	NY	Blank
Federal Offshore - Atlantic		00	Ohio	OH	Blank
Federal Offshore - Gulf of Mexico	Α0	00	Oklahoma	OK	Blank
	AL	00	Oregon	OR	Blank
(Alabama)	AL	00	•	PA	Blank
Federal Offshore - Gulf of Mexico		00	Pennsylvania Rhode Island		
(Florida)	FL	00		RI	Blank
Federal Offshore - Gulf of Mexico		00	South Carolina	SC	Blank
(Louisiana)	. LA	00	South Dakota	SD	Blank
Federal Offshore - Gulf of Mexico			Tennessee	TN	Blank
(Mississippi)	MS	00	Texas - State Offshore <sup>2</sup>	TX	05
Federal Offshore - Gulf of Mexico			Texas - Railroad Commission District 1	TX	10
(Other Gulf)	OG	00	Texas - Railroad Commission District 2		
Federal Offshore - Gulf of Mexico			Onshore	TX	20
(Texas)		00	Texas - Railroad Commission District 3		
Federal Offshore - Pacific (Alaska)		00	Onshore	TX	30
Federal Offshore - Pacific (California)	CA	00	Texas - Railroad Commission District 4		
Federal Offshore - Pacific (Oregon)	OR	00	Onshore	TX	40
Federal Offshore - Pacific (Washington)	WA	00	Texas - Railroad Commission District 5	TX	50
Florida - Onshore	FL	Blank	Texas - Railroad Commission District 6	TX	60
Florida - State Offshore <sup>2</sup>	FL	05	Texas - Railroad Commission District 7B	ΤX	70
Georgia	GA	Blank	Texas - Railroad Commission District 7C	ΤX	75
Hawaii	. HI	Blank	Texas - Railroad Commission District 8	TX	80
lowa	. IA	Blank	Texas - Railroad Commission District 8A	TX	85
Idaho	ID	Blank	Texas - Railroad Commission District 9	TX	90
Illinois	IL	Blank	Texas - Railroad Commission District 10	TX	95
Indiana		Blank	Utah	UT	Blank
Kansas	KS	Blank	Virginia	VA	Blank
Kentucky		Blank	Vermont	VT	Blank
Louisiana - South State Offshore <sup>2</sup>		05	Washington	WA	Blank
Louisiana - South Onshore		10	Wisconsin	WI	Blank
Louisiana - North		50	West Virginia	WV	Blank
Massachusetts		Blank	Wyoming	WY	Blank
Maryland		Blank	** yourning	V V I	Dialik
Maine		Blank	National Totals	ZZ	ZZ
IVIAITIG	IVIL	DIGITIK	National Totals		

<sup>&</sup>lt;sup>1</sup> Refer to maps for subdivision boundaries in the States of Alaska, California, Louisiana, New Mexico and Texas.

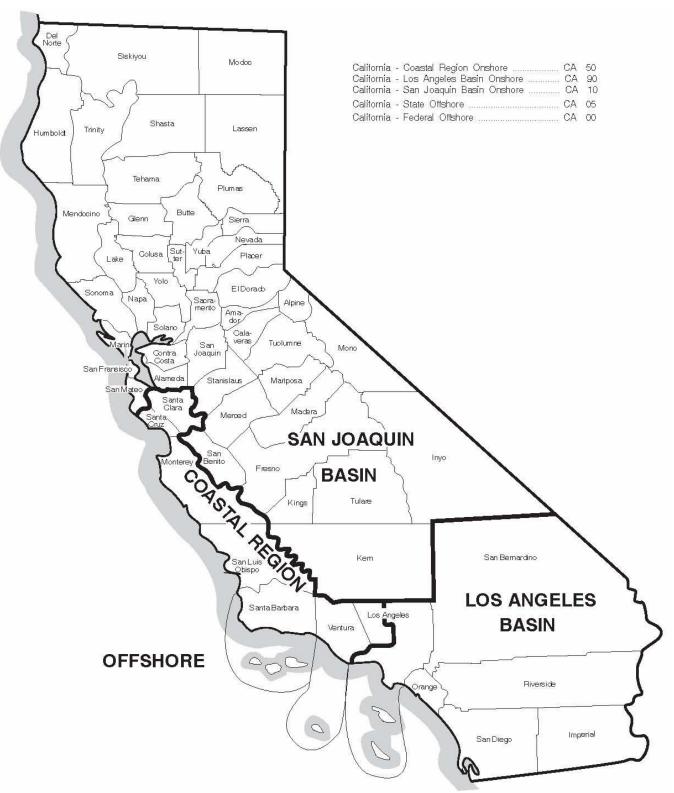
<sup>&</sup>lt;sup>2</sup> If you are not certain whether an offshore field lies in the Federal or the State domain, assume that it lies in the State domain and indicate this in a footnote in Schedule B.

 $<sup>^{\</sup>rm 3}$  Alaska - North Onshore and Offshore includes both State and Federal domain.

### MAPS OF SELECTED STATE SUBDIVISIONS



Alaska Subdivisions and U.S. Geological Survey Quadrangles



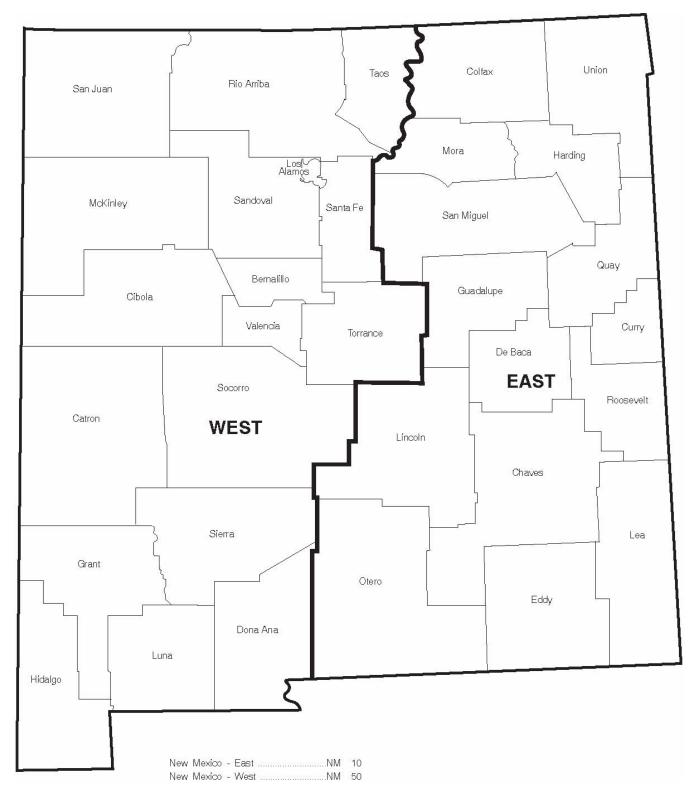
Source: Energy Information Administration, Office of Oil and Gas.

### **Subdivisions of California**



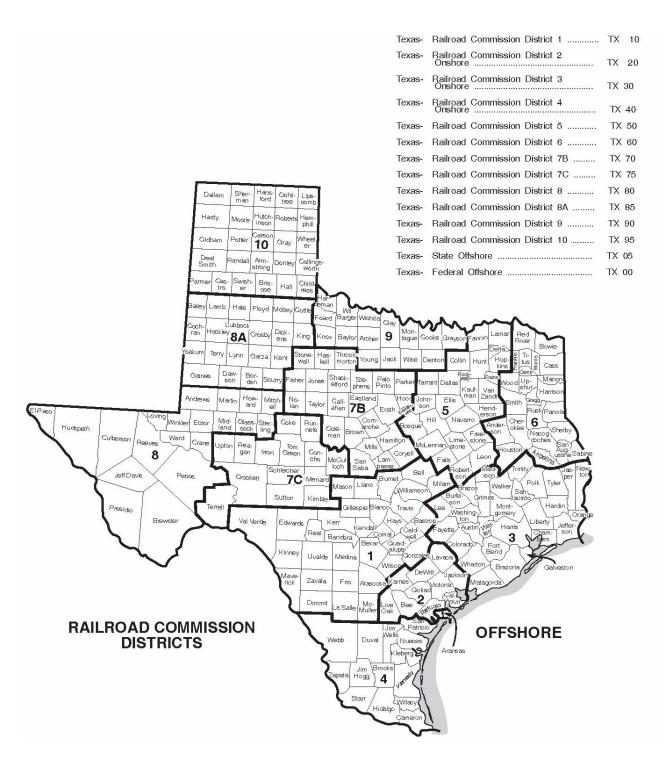
Source: Energy Information Administration, Office of Oil and Gas

## **Subdivisions of Louisiana**



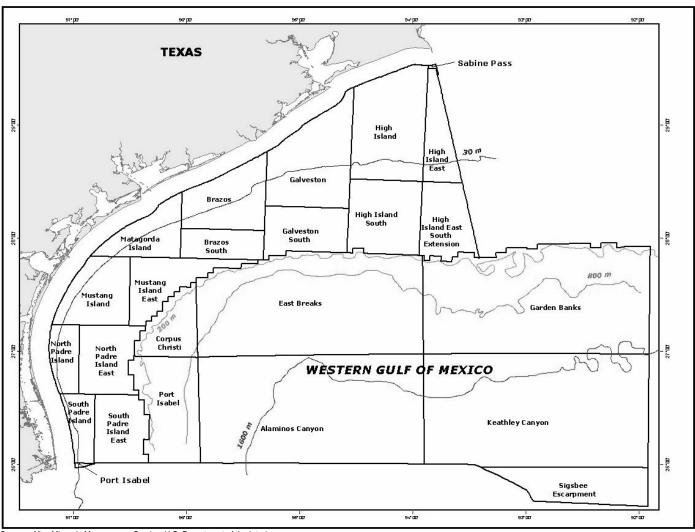
Source: Energy Information Administration, Office of Oil and Gas

# **Subdivisions of New Mexico**

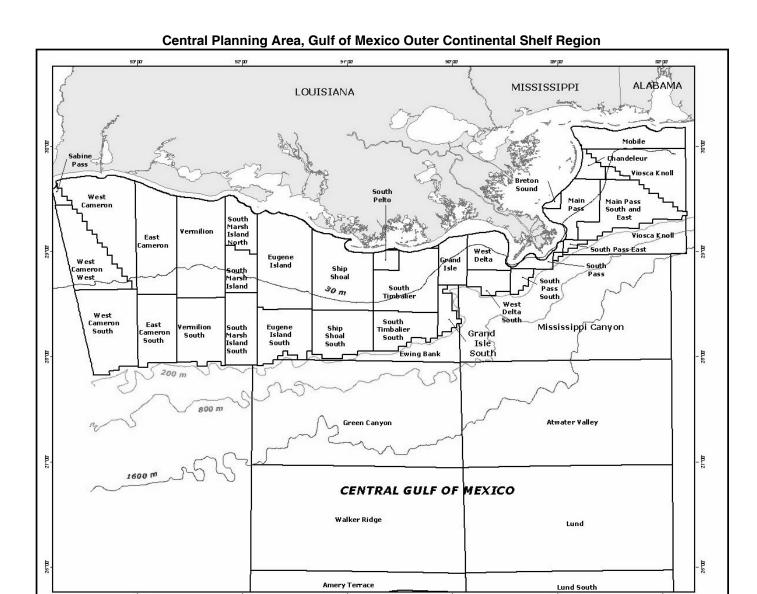


**Subdivisions of Texas** 

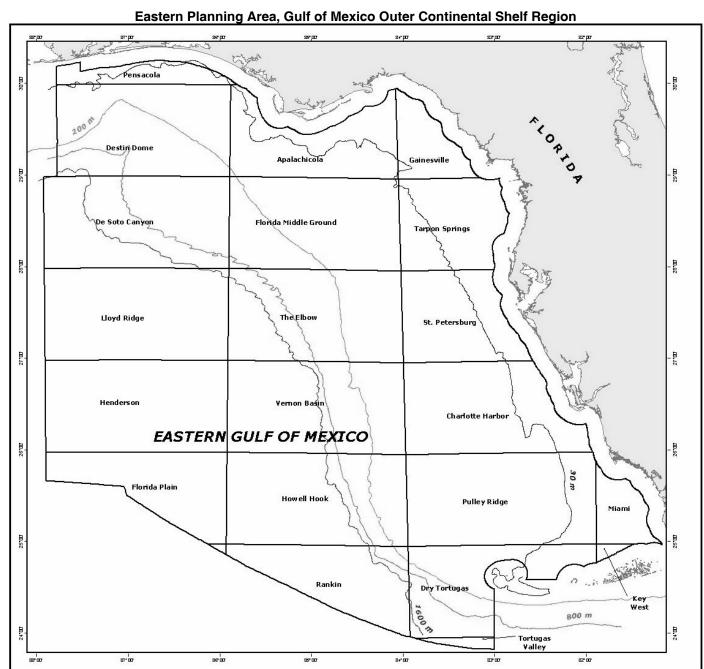
#### Western Planning Area, Gulf of Mexico Outer Continental Shelf Region



Source: After Minerals Management Service, U.S. Department of the Interior



Source: After Minerals Management Service, U.S. Department of the Interior



Source: After Minerals Management Service, U.S. Department of the Interior.