Appendix I

Annual Survey Forms for Domestic Oil and Gas Reserves

Figure I1. Form EIA-23, Cover Page

OFFICIAL USE ONLY

1998

ANNUAL SURVEY OF DOMESTIC OIL AND GAS RESERVES
U.S. DEPARTMENT OF ENERGY
CALENDAR YEAR 1998

Form Approved
OMB No. 1905-0057
Expires 12/2000

of Management and Budget, Washington, DC 20503.

COVER PAGE

IDENTIFICATION

1. Were you an operator *(see definition of an operator; p.1)* **of one or more oil or gas wells on December 31, 1998?**
(1)** No... *Complete only items 3 through 22 below and return this page with a letter stating when operations ceased and what became of the wells you operated to* **P.O. Box 1470 Rockville, MD 20849-1470**
(2)** Yes... *Complete the attached forms and return them to* **P.O. Box 1470 Rockville, MD 20849-1470**

2. I.D. Code FOR DOE USE ONLY

			0	0	0	0

If information to the left is incorrect or is missing, enter correct information below.

3. Name
4. Address
5. City
6. State
7. Zip Code
8. EIN
Check if Attestor's Social Security Number **
9. Name of Contact Person
10. Telephone Number of Contact Person Area Code ( ) _____-_____

SAMPLE

PARENT COMPANY IDENTIFICATION

11. Is there a parent company which exercises ultimate control over your company?
(1)** No... Answer 18 thru 22
(2)** Yes... Answer 12 thru 22

12. Name
13. Address
14. City
15. State
16. Zip Code
17. Parent Company EIN

18. What is the total number of pages (including this page) submitted in this filing?

ATTESTATION

(This report must be attested to by a responsible official of the company.)

appended is true and complete.

19. Name of Attestor *(Please print)*
20. Title
21. Signature
22. Date

Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or

FOR ASSISTANCE CALL 1-800-879-1470

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

Figure I2. Form EIA-23, Summary Report – Page 1

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1998

ANNUAL SURVEY OF DOMESTIC OIL AND GAS RESERVES

Form Approved
OMB No. 1905-0057
Expires 12/2000

SUMMARY REPORT
PAGE 1 OF 2

(Report All Volumes of Crude Oil and Lease Condensate in Thousands of Barrels [Mbbl];
Report All Volumes of Natural Gas in Millions of Cubic Feet [MMcf] at 14.73 psia and 60 F)

1.0 OPERATOR AND REPORT IDENTIFICATION DATA

1.1 OPERATOR I.D. CODE | 1.2 OPERATOR NAME | REPORT DATE 12 31 98 | 1.3 ORIGINAL | 1.4 AMENDED

2.0 PRODUCTION AND RESERVES DATA

STATE OR GEOGRAPHIC SUBDIVISION		CRUDE OIL			NATURAL GAS			LEASE CONDENSATE		
		RESERVES	1998 PRODUCTION		RESERVES	1998 PRODUCTION		RESERVES	1998 PRODUCTION	
		Proved Reserves Dec. 31, 1998 (Mbbl) (A)	(From properties for which reserves were Estimated) (Mbbl) (B)	(From properties for which reserves were Not Estimated) (Mbbl) (C)	Proved Reserves Dec. 31, 1998 (MMcf) (D)	(From properties for which reserves were Estimated) (MMcf) (E)	(From properties for which reserves were Not Estimated (MMcf) (F)	Proved Reserves Dec. 31, 1998 (Mbbl) (G)	(From properties for which reserves were Estimated) (Mbbl) (H)	(From properties for which reserves were Not Estimated) (Mbbl) (I)
ALABAMA-ONSHORE	AL									
ALABAMA-STATE OFFSHORE	AL05									
ALASKA-NORTH ONSHORE AND OFFSHORE	AK50									
ALASKA-SOUTH ONSHORE	AK10									
ALASKA-SOUTH STATE OFFSHORE	AK05									
ARIZONA	AZ									
ARKANSAS	AR									
CALIFORNIA-COASTAL REGION ONSHORE	CA50									
CALIFORNIA-LOS ANGELES BASIN ONSHORE	CA90									
CALIFORNIA-SAN JOAQUIN BASIN ONSHORE	CA10									
CALIFORNIA-STATE OFFSHORE	CA05									
COLORADO	CO									
FLORIDA-ONSHORE	FL									
FLORIDA-STATE OFFSHORE	FL05									
ILLINOIS	IL									
INDIANA	IN									
KANSAS	KS									
KENTUCKY	KY									
LOUISIANA-NORTH	LA50									
LOUISIANA-SOUTH ONSHORE	LA10									
LOUISIANA-SOUTH STATE OFFSHORE	LA05									
MARYLAND	MD									
MICHIGAN	MI									
MISSISSIPPI-ONSHORE	MS									
MISSISSIPPI-STATE OFFSHORE	MS05									
MISSOURI	MO									
MONTANA	MT									
NEBRASKA	NE									
NEVADA	NV									
NEW MEXICO-EAST	NM10									
NEW MEXICO-WEST	NM50									
NEW YORK	NY									
NORTH DAKOTA	ND									
OHIO	OH									

SAMPLE

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

Figure I3. Form EIA-23, Summary Report – Page 2

OFFICIAL USE ONLY

1998

ANNUAL SURVEY OF DOMESTIC OIL AND GAS RESERVES

Form Approved
OMB No. 1905-0057
Expires 12/2000

SUMMARY REPORT
PAGE 2 OF 2

(Report All Volumes of Crude Oil and Lease Condensate in Thousands of Barrels [Mbbl];
Report All Volumes of Natural Gas in Millions of Cubic Feet [MMcf] at 14.73 psia and 60 F)

1.0 OPERATOR AND REPORT IDENTIFICATION DATA

1.1 OPERATOR I.D. CODE	1.2 OPERATOR NAME	REPORT DATE	1.3 ORIGINAL	1.4 AMENDED
		12 31 98		

2.0 PRODUCTION AND RESERVES DATA

STATE OR GEOGRAPHIC SUBDIVISION		CRUDE OIL			NATURAL GAS			LEASE CONDENSATE		
		RESERVES	1998 PRODUCTION		RESERVES	1998 PRODUCTION		RESERVES	1998 PRODUCTION	
		Proved Reserves Dec. 31, 1998 (Mbbl) (A)	(From properties for which reserves were Estimated) (Mbbl) (B)	(From properties for which reserves were Not Estimated) (Mbbl) (C)	Proved Reserves Dec. 31, 1998 (MMcf) (D)	(From properties for which reserves were Estimated) (MMcf) (E)	(From properties for which reserves were Not Estimated (MMcf) (F)	Proved Reserves Dec. 31, 1998 (Mbbl) (G)	(From properties for which reserves were Estimated) (Mbbl) (H)	(From properties for which reserves were Not Estimated) (Mbbl) (I)
OKLAHOMA	OK									
PENNSYLVANIA	PA									
SOUTH DAKOTA	SD									
TENNESSEE	TN									
TEXAS-RRC DISTRICT 1	TX10									
TEXAS-RRC DISTRICT 2 ONSHORE	TX20									
TEXAS-RRC DISTRICT 3 ONSHORE	TX30									
TEXAS-RRC DISTRICT 4 ONSHORE	TX40									
TEXAS-RRC DISTRICT 5	TX50									
TEXAS-RRC DISTRICT 6	TX60									
TEXAS-RRC DISTRICT 7B	TX70									
TEXAS-RRC DISTRICT 7C	TX75									
TEXAS-RRC DISTRICT 8	TX80									
TEXAS-RRC DISTRICT 8A	TX85									
TEXAS-RRC DISTRICT 9	TX90									
TEXAS-RRC DISTRICT 10	TX95									
TEXAS-STATE OFFSHORE	TX05									
UTAH	UT									
VIRGINIA	VA									
WEST VIRGINIA	WV									
WYOMING	WY									
FEDERAL OFFSHORE-GULF OF MEXICO (ALABAMA)	AL00									
FEDERAL OFFSHORE-GULF OF MEXICO (FLORIDA)	FL00									
FEDERAL OFFSHORE-GULF OF MEXICO (LOUISIANA)	LA00									
FEDERAL OFFSHORE-GULF OF MEXICO (MISSISSIPPI)	MS00									
FEDERAL OFFSHORE-GULF OF MEXICO (TEXAS)	TX00									
FEDERAL OFFSHORE-PACIFIC (ALASKA)	AK00									
FEDERAL OFFSHORE-PACIFIC (CALIFORNIA)	CA00									
FEDERAL OFFSHORE-PACIFIC (OREGON)	OR00									
OTHER STATE (SPECIFY)										
TOTAL (SUM EACH COLUMN)	US									

SAMPLE

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

Figure I4. Form EIA-23, Detail Report – Schedule A

OFFICIAL USE ONLY

1998

ANNUAL SURVEY OF DOMESTIC OIL AND GAS RESERVES

SCHEDULE A - OPERATED PROVED RESERVES, PRODUCTION, AND RELATED DATA BY FIELD

(Report All Liquid Volumes in Thousands of Barrels [Mbbl] at 60 F;
Report All Volumes of Natural Gas in Millions of Cubic Feet [MMcf] at 60 F and 14.73 psia)

Form Approved
OMB No. 1905-0057
Expires 12/2000

1.0 OPERATOR AND REPORT IDENTIFICATION DATA

1.1. OPERATOR I.D. CODE | 1.2 OPERATOR NAME | REPORT DATE 12 31 98 | 1.3 ORIGINAL | 1.4 AMENDED | 1.5 PAGE | FOR DOE USE ONLY

2.0 FIELD DATA (OPERATED BASIS)

2.1

1. STATE ABBR.	2. SUBDIV. CODE	3. COUNTY CODE	4. FIELD CODE	5. OCS BLOCK NUMBER	6. FIELD NAME	7. Calendar Year PRODUCTION From Properties For which RESERVES Were NOT ESTIMATED			8. FOOTNOTE
						CRUDE OIL (Mbbl) (a)	ASSOC-DISSOLVED GAS (MMcf) (b)	NONASSOCIATED GAS (MMcf) (c)	LEASE CON-DENSATE (Mbbl) (d)

9. WATER DEPTH	10. FIELD DISCOVERY YEAR			11. INDICATED ADDITIONAL RESERVES OF CRUDE OIL (M bbl)			
TYPE HYDROCARBON	RESERVES DECEMBER 31, 1997 (a)	REVISION INCREASES (b)	REVISION DECREASES (c)	EXTENSIONS (d)	NEW FIELD DISCOVERIES (e)	NEW RESERVOIRS IN OLD FIELDS (f)	CALENDAR YEAR PRODUCTION (g)	RESERVES DECEMBER 31, 1998 (h)	NONPRODUCING RESERVES (i)
12. CRUDE OIL (Mbbl)									
13. ASSOCIATED-DISSOLVED GAS(MMcf)									
14. NONASSOCIATED GAS (MMcf)									
15. LEASE CONDENSATE (Mbbl)									

2.2

1. STATE ABBR.	2. SUBDIV. CODE	3. COUNTY CODE	4. FIELD CODE	5. OCS BLOCK NUMBER	6. FIELD NAME	7. Calendar Year PRODUCTION From Properties For which RESERVES Were NOT ESTIMATED			8. FOOTNOTE
						CRUDE OIL (Mbbl) (a)	ASSOC-DISSOLVED GAS (MMcf) (b)	NONASSOCIATED GAS (MMcf) (c)	LEASE CON-DENSATE (Mbbl) (d)

9. WATER DEPTH	10. FIELD DISCOVERY YEAR			11. INDICATED ADDITIONAL RESERVES OF CRUDE OIL (M bbl)			
TYPE HYDROCARBON	RESERVES DECEMBER 31, 1997 (a)	REVISION INCREASES (b)	REVISION DECREASES (c)	EXTENSIONS (d)	NEW FIELD DISCOVERIES (e)	NEW RESERVOIRS IN OLD FIELDS (f)	CALENDAR YEAR PRODUCTION (g)	RESERVES DECEMBER 31, 1998 (h)	NONPRODUCING RESERVES (i)
12. CRUDE OIL (Mbbl)									
13. ASSOCIATED-DISSOLVED GAS(MMcf)									
14. NONASSOCIATED GAS (MMcf)									
15. LEASE CONDENSATE (Mbbl)									

2.3

1. STATE ABBR.	2. SUBDIV. CODE	3. COUNTY CODE	4. FIELD CODE	5. OCS BLOCK NUMBER	6. FIELD NAME	7. Calendar Year PRODUCTION From Properties For which RESERVES Were NOT ESTIMATED			8. FOOTNOTE
						CRUDE OIL (Mbbl) (a)	ASSOC-DISSOLVED GAS (MMcf) (b)	NONASSOCIATED GAS (MMcf) (c)	LEASE CON-DENSATE (Mbbl) (d)

9. WATER DEPTH	10. FIELD DISCOVERY YEAR			11. INDICATED ADDITIONAL RESERVES OF CRUDE OIL (M bbl)			
TYPE HYDROCARBON	RESERVES DECEMBER 31, 1997 (a)	REVISION INCREASES (b)	REVISION DECREASES (c)	EXTENSIONS (d)	NEW FIELD DISCOVERIES (e)	NEW RESERVOIRS IN OLD FIELDS (f)	CALENDAR YEAR PRODUCTION (g)	RESERVES DECEMBER 31, 1998 (h)	NONPRODUCING RESERVES (i)
12. CRUDE OIL (Mbbl)									
13. ASSOCIATED-DISSOLVED GAS(MMcf)									
14. NONASSOCIATED GAS (MMcf)									
15. LEASE CONDENSATE (Mbbl)									

2.4

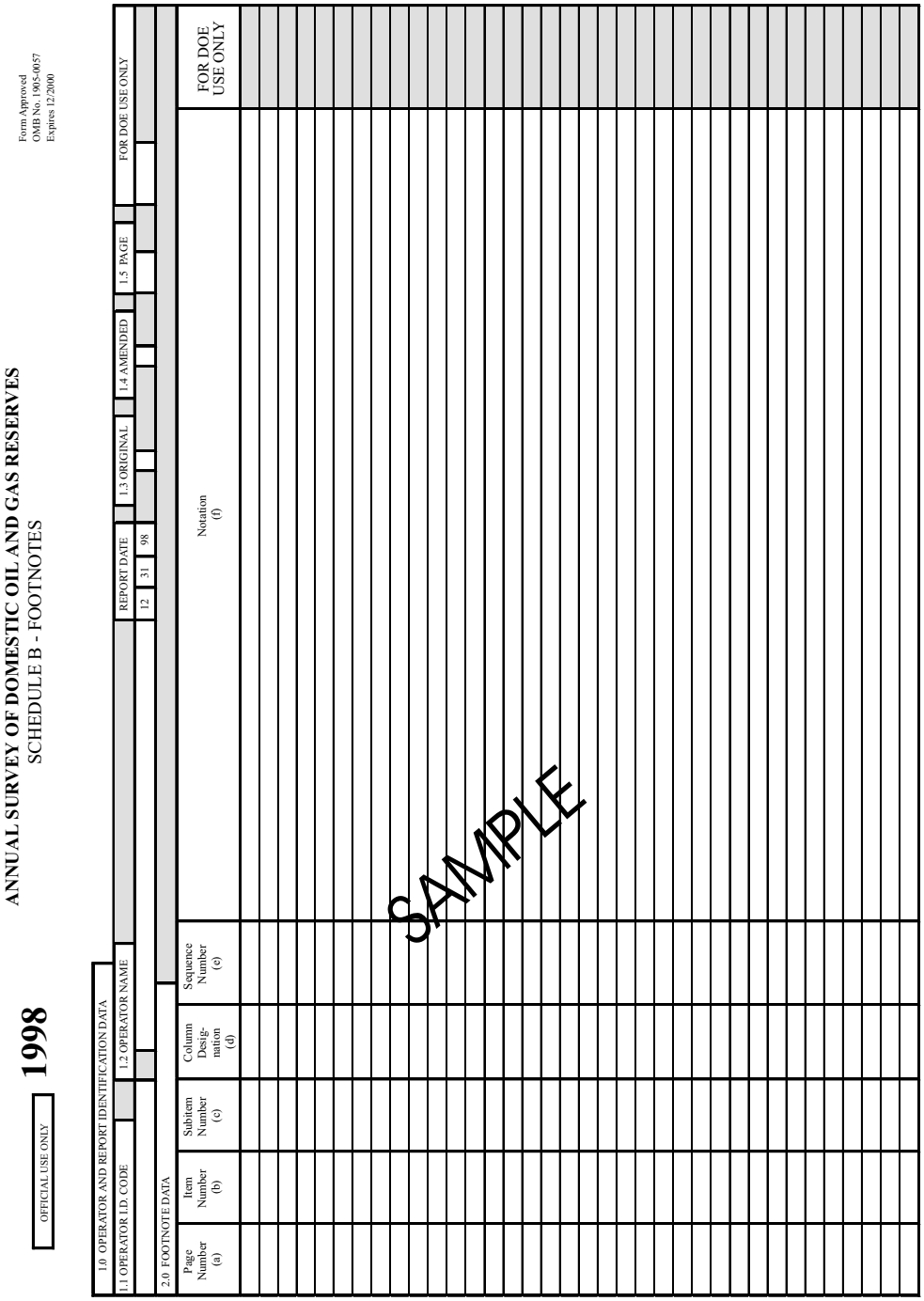
1. STATE ABBR.	2. SUBDIV. CODE	3. COUNTY CODE	4. FIELD CODE	5. OCS BLOCK NUMBER	6. FIELD NAME	7. Calendar Year PRODUCTION From Properties For which RESERVES Were NOT ESTIMATED			8. FOOTNOTE
						CRUDE OIL (Mbbl) (a)	ASSOC-DISSOLVED GAS (MMcf) (b)	NONASSOCIATED GAS (MMcf) (c)	LEASE CON-DENSATE (Mbbl) (d)

9. WATER DEPTH	10. FIELD DISCOVERY YEAR			11. INDICATED ADDITIONAL RESERVES OF CRUDE OIL (M bbl)			
TYPE HYDROCARBON	RESERVES DECEMBER 31, 1997 (a)	REVISION INCREASES (b)	REVISION DECREASES (c)	EXTENSIONS (d)	NEW FIELD DISCOVERIES (e)	NEW RESERVOIRS IN OLD FIELDS (f)	CALENDAR YEAR PRODUCTION (g)	RESERVES DECEMBER 31, 1998 (h)	NONPRODUCING RESERVES (i)
12. CRUDE OIL (Mbbl)									
13. ASSOCIATED-DISSOLVED GAS(MMcf)									
14. NONASSOCIATED GAS (MMcf)									
15. LEASE CONDENSATE (Mbbl)									

SAMPLE

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

Figure I5. Form EIA-23, Detail Report – Schedule B



OFFICIAL USE ONLY

1998

ANNUAL SURVEY OF DOMESTIC OIL AND GAS RESERVES
SCHEDULE B - FOOTNOTES

Form Approved
OMB No. 1905-0057
Expires 12/2000

1.0 OPERATOR AND REPORT IDENTIFICATION DATA

1.1 OPERATOR I.D. CODE | 1.2 OPERATOR NAME | REPORT DATE 12 31 98 | 1.3 ORIGINAL | 1.4 AMENDED | 1.5 PAGE | FOR DOE USE ONLY

2.0 FOOTNOTE DATA

Page Number (a)	Item Number (b)	Subitem Number (c)	Column Desig-nation (d)	Sequence Number (e)	Notation (f)	FOR DOE USE ONLY

SAMPLE

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

Figure I6. Form EIA-64A

EIA-64A (Revised 9/91)

OFFICIAL USE ONLY **1998**

Energy Information Administration
U.S. DEPARTMENT OF ENERGY
Calendar Year 1998

Form Approved
OMB No. 1905-0057
Expires 12/31/2000

ANNUAL REPORT OF THE ORIGIN OF NATURAL GAS LIQUIDS PRODUCTION
FORM EIA-64A

This report is mandatory under Public Law 93-275. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For the sanctions and the provisions concerning the confidentiality of information submitted on this form, see Page 2 of the Instructions. Public reporting burden for this collection of information is estimated to average 5.9 hours per respondent, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Statistics and Methods Group EI-70, Washington, DC 20585; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PLEASE COMPLETE THIS FORM AND RETURN TO

ENERGY INFORMATION ADMINISTRATION, EI-45
1000 INDEPENDENCE AVE, SW, MAIL STATION 2G-024
WASHINGTON, DC 20585

PLANT AND PRODUCTION REPORT IDENTIFICATION

1.0 Does this report reflect active natural gas processing at the facility for the entire year? ¨ Yes ¨ No
Months covered by this report_____ through _____ (Include Explanatory Notes in Section **8.0**)

2.0 *If label is incorrect or information is missing or no label is given, enter correct information to the right*

2.1 Plant Operator's Name
2.2 Contact Person's Name
2.3 Plant Name
2.4 Geographic Location (Use Area of Origin Codes, Page 6)
2.5 Mailing Address
2.6 City State Zip Code
2.7 Telephone Number ( )

3.0 Parent Company's Name

4.0 Submission Status ! Original ! Amended

5.0 Origin of Natural Gas Received and Natural Gas Liquids Produced

Line	Area of Origin Code (A)	Natural Gas Received (MMcf) (B)	Natural Gas Liquids Production (Mbbl) (C)
5.1			
5.2			
5.3			
5.4			
5.5			
5.6			
5.7			
5.8			
5.9			
5.10			
5.11			
5.12			
5.13			
5.14			
5.15			
5.16	**TOTAL**		

SAMPLE

6.0 Gas Shrinkage Resulting from Natural Gas Liquids Extracted (MMcf)
7.0 Natural Gas Used as Fuel in Processing (MMcf)
8.0 Explanatory Notes

9.0 Certification: I certify that the information provided herein and appended hereto is true and accurate to the best of my knowledge.

Name (Please Print) Date
Signature Title

Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

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