

## Appendix D

# Historical Reserves Statistics

These are selected historical data presented at the State and National level. All historical statistics included have previously been published in the annual reports of 1977 through 1999 of the EIA publication *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, DOE EIA-0216.{1-22}

Liquid volumes are in million barrels of 42 U.S. gallons. Gas volumes are in billion cubic feet (Bcf), at 14.73 psia and 60° Fahrenheit. NA appears in this appendix wherever data are not available or are withheld to avoid disclosure of data which may be proprietary. An asterisk (\*) marks those estimates associated with sampling errors (95 percent confidence interval) greater than 20 percent of the value estimated.

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves	Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
<b>Alabama</b>					<b>Alaska</b>				
1977	85	0	530	NA	1977	8,413	846	32,243	NA
1978	*74	0	514	NA	1978	9,384	398	32,045	NA
1979	45	NA	652	213	1979	8,875	398	32,259	23
1980	54	NA	636	226	1980	8,751	0	33,382	11
1981	55	NA	648	192	1981	8,283	0	33,037	10
1982	54	NA	<sup>a</sup> 648	193	1982	7,406	60	34,990	9
1983	51	NA	<sup>a</sup> 785	216	1983	7,307	576	34,283	8
1984	*68	NA	<sup>a</sup> 961	200	1984	7,563	369	34,476	19
1985	69	NA	<sup>a</sup> 821	182	1985	7,056	379	33,847	383
1986	55	20	<sup>b</sup> 951	177	1986	6,875	902	32,664	381
1987	55	20	<sup>b</sup> 842	166	1987	7,378	566	33,225	418
1988	54	20	<sup>b</sup> 809	166	1988	6,959	431	9,078	401
1989	43	20	<sup>b</sup> 819	168	1989	6,674	750	8,939	380
1990	44	<1	<sup>c</sup> 4,125	170	1990	6,524	969	9,300	340
1991	43	<1	<sup>c</sup> 5,414	145	1991	6,083	1,456	9,553	360
1992	41	0	<sup>c</sup> 5,802	171	1992	6,022	1,331	9,638	347
1993	41	0	<sup>c</sup> 5,140	158	1993	5,775	1,161	9,907	321
1994	44	0	<sup>c</sup> 4,830	142	1994	5,767	1,022	9,733	301
1995	43	0	<sup>c</sup> 4,868	120	1995	5,580	582	9,497	306
1996	45	0	<sup>c</sup> 5,033	119	1996	5,274	952	9,294	337
1997	47	0	<sup>c</sup> 4,968	93	1997	5,161	832	10,562	631
1998	39	0	<sup>c</sup> 4,604	81	1998	5,052	832	9,927	320
1999	49	0	<sup>c</sup> 4,287	107	1999	4,900	464	9,734	299

<sup>a</sup>Onshore only; offshore included in Louisiana.

<sup>b</sup>Onshore only; offshore included in Federal Offshore - Gulf of Mexico (Louisiana).

<sup>c</sup>Includes State Offshore: 2,519 Bcf in 1990; 3,191 Bcf in 1991; 3,233 Bcf in 1992; 3,364 Bcf in 1993; 3,297 Bcf in 1994; 3,432 Bcf in 1995; 3,509 Bcf in 1996; 3,422 Bcf in 1997; 3,144 Bcf in 1998; 2,853 Bcf in 1999.

Note: See 1988 Chapter 4 discussion "Alaskan North Slope Natural Gas Reserves".

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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### Arkansas

1977	116	17	1,660	NA
1978	111	8	1,681	NA
1979	107	8	1,703	17
1980	107	11	1,774	16
1981	113	11	1,801	16
1982	107	4	1,958	15
1983	120	4	2,069	11
1984	114	6	2,227	12
1985	97	11	2,019	11
1986	88	9	1,992	16
1987	82	0	1,997	16
1988	77	<1	1,986	13
1989	66	1	1,772	9
1990	60	1	1,731	9
1991	*70	0	1,669	5
1992	58	<1	1,750	4
1993	65	0	1,552	4
1994	51	0	1,607	6
1995	48	0	1,563	6
1996	58	0	1,470	4
1997	45	0	1,475	7
1998	47	0	1,328	5
1999	48	0	1,542	5

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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### California - Coastal Region Onshore

1977	679	NA	334	NA
1978	602	NA	350	NA
1979	578	NA	365	22
1980	652	NA	299	23
1981	621	NA	306	14
1982	580	NA	362	16
1983	559	NA	381	17
1984	628	140	265	15
1985	631	152	256	16
1986	592	164	255	15
1987	625	298	238	13
1988	576	299	215	13
1989	731	361	224	11
1990	588	310	217	12
1991	554	327	216	12
1992	522	317	203	10
1993	528	313	189	12
1994	480	238	194	11
1995	456	234	153	8
1996	425	261	156	9
1997	430	43	164	9
1998	354	40	106	9
1999	491	40	192	31

### California - Total

1977	5,005	1,047	4,737	NA
1978	4,974	968	4,947	NA
1979	5,265	960	5,022	111
1980	5,470	891	5,414	120
1981	5,441	660	5,617	82
1982	5,405	616	5,552	154
1983	5,348	576	5,781	151
1984	5,707	674	5,554	141
1985	<sup>d</sup> 4,810	590	<sup>d</sup> 4,325	<sup>d</sup> 146
1986	<sup>d</sup> 4,734	<sup>d</sup> 616	<sup>d</sup> 3,928	<sup>d</sup> 134
1987	<sup>d</sup> 4,709	<sup>d</sup> 1,493	<sup>d</sup> 3,740	<sup>d</sup> 130
1988	<sup>d</sup> 4,879	<sup>d</sup> 1,440	<sup>d</sup> 3,519	<sup>d</sup> 123
1989	<sup>d</sup> 4,816	<sup>d</sup> 1,608	<sup>d</sup> 3,374	<sup>d</sup> 113
1990	<sup>d</sup> 4,658	<sup>d</sup> 1,425	<sup>d</sup> 3,185	<sup>d</sup> 105
1991	<sup>d</sup> 4,217	<sup>d</sup> 1,471	<sup>d</sup> 3,004	<sup>d</sup> 92
1992	<sup>d</sup> 3,893	<sup>d</sup> 1,299	<sup>d</sup> 2,778	<sup>d</sup> 99
1993	<sup>d</sup> 3,764	<sup>d</sup> 965	<sup>d</sup> 2,682	<sup>d</sup> 104
1994	<sup>d</sup> 3,573	<sup>d</sup> 835	<sup>d</sup> 2,402	<sup>d</sup> 92
1995	<sup>d</sup> 3,462	<sup>d</sup> 823	<sup>d</sup> 2,243	<sup>d</sup> 92
1996	<sup>d</sup> 3,437	<sup>d</sup> 905	<sup>d</sup> 2,082	<sup>d</sup> 92
1997	<sup>d</sup> 3,750	<sup>d</sup> 1,264	<sup>d</sup> 2,273	<sup>d</sup> 95
1998	<sup>d</sup> 3,843	<sup>d</sup> 1,297	<sup>d</sup> 2,244	<sup>d</sup> 72
1999	<sup>d</sup> 3,934	<sup>d</sup> 1,400	<sup>d</sup> 2,387	<sup>d</sup> 98

### California - Los Angeles Basin Onshore

1977	910	NA	255	NA
1978	493	NA	178	NA
1979	513	NA	163	10
1980	454	NA	193	15
1981	412	NA	154	6
1982	370	NA	96	6
1983	343	NA	107	6
1984	373	126	156	5
1985	420	86	181	6
1986	330	66	142	8
1987	361	105	148	8
1988	391	106	151	7
1989	342	32	137	4
1990	316	3	106	5
1991	272	4	115	4
1992	236	4	97	5
1993	238	4	102	6
1994	221	4	103	5
1995	227	4	111	4
1996	234	0	109	3
1997	268	0	141	4
1998	207	0	149	5
1999	297	0	168	7

<sup>d</sup>Excludes Federal offshore; now included in Federal Offshore-Pacific (California).

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**California - San Joaquin Basin Onshore**

1977	2,965	NA	3,784	NA
1978	3,099	NA	3,960	NA
1979	3,294	NA	3,941	77
1980	3,360	NA	4,344	81
1981	3,225	NA	4,163	57
1982	3,081	NA	3,901	124
1983	3,032	NA	3,819	117
1984	3,197	384	3,685	105
1985	3,258	350	3,574	120
1986	3,270	368	3,277	109
1987	3,208	1,070	3,102	107
1988	3,439	1,029	2,912	101
1989	3,301	1,210	2,782	95
1990	3,334	1,109	2,670	86
1991	3,126	1,139	2,614	75
1992	2,898	977	2,415	83
1993	2,772	648	2,327	85
1994	2,647	593	2,044	75
1995	2,577	585	1,920	80
1996	2,597	644	1,768	80
1997	2,871	1,221	1,912	82
1998	3,127	1,257	1,945	58
1999	2,949	1,330	1,951	60

**California - State Offshore**

1977	181	NA	114	NA
1978	519	NA	213	NA
1979	632	NA	231	2
1980	604	NA	164	1
1981	NA	NA	NA	NA
1982	NA	NA	NA	NA
1983	NA	NA	NA	NA
1984	NA	25	NA	NA
1985	501	0	314	4
1986	542	18	254	2
1987	515	18	252	2
1988	473	6	241	2
1989	442	5	231	3
1990	420	3	192	2
1991	265	1	59	1
1992	237	1	63	1
1993	226	0	64	1
1994	225	0	61	1
1995	202	0	59	0
1996	181	0	49	0
1997	181	0	56	0
1998	155	0	44	0
1999	197	30	76	0

**California-State and Federal Offshore**

1977	451	NA	364	NA
1978	780	NA	457	NA
1979	880	NA	553	2
1980	1,004	NA	578	1
1981	1,183	NA	994	5
1982	1,374	NA	1,193	8
1983	1,414	NA	1,474	11
1984	1,509	25	1,448	16
1985	1,492	2	1,433	16
1986	1,516	19	1,579	17
1987	1,552	20	1,704	19
1988	1,497	6	1,793	23
1989	1,429	5	1,727	28
1990	1,382	3	1,646	20
1991	1,050	1	1,221	19
1992	971	1	1,181	21
1993	899	0	1,163	26
1994	878	0	1,231	22
1995	773	0	1,324	25
1996	699	0	1,293	23
1997	709	0	600	14
1998	623	0	524	12
1999	750	30	612	4

**California - Federal Offshore**

1977	270	NA	250	NA
1978	261	NA	246	NA
1979	248	NA	322	0
1980	400	NA	414	0
1981	NA	NA	NA	NA
1982	NA	NA	NA	NA
1983	NA	NA	NA	NA
1984	NA	0	NA	NA
1985	991	2	1,119	12
1986	974	1	1,325	15
1987	1,037	2	1,452	17
1988	1,024	0	1,552	21
1989	987	0	1,496	25
1990	962	0	1,454	18
1991	785	0	1,162	18
1992	734	<1	1,118	20
1993	673	0	1,099	25
1994	653	0	1,170	21
1995	571	0	1,265	25
1996	518	0	1,244	23
1997	528	0	544	14
1998	468	0	480	12
1999	553	0	536	4

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Colorado**

1977	230	73	2,512	NA
1978	194	75	2,765	NA
1979	159	43	2,608	177
1980	*183	46	2,922	194
1981	147	47	2,961	204
1982	169	100	3,314	186
1983	186	113	3,148	183
1984	198	119	*2,943	155
1985	198	119	2,881	173
1986	207	95	3,027	148
1987	272	67	2,942	166
1988	257	67	3,535	181
1989	359	8	4,274	209
1990	305	8	4,555	169
1991	329	33	5,767	197
1992	304	34	6,198	226
1993	284	22	6,722	214
1994	271	22	6,753	248
1995	252	24	7,256	273
1996	231	22	7,710	287
1997	198	22	6,828	264
1998	212	21	7,881	260
1999	203	21	8,987	303

**Florida**

1977	213	1	151	NA
1978	168	1	119	NA
1979	128	1	77	21
1980	134	1	84	27
1981	109	1	69	NA
1982	97	1	64	17
1983	78	4	49	11
1984	82	2	65	17
1985	77	2	55	17
1986	67	2	49	14
1987	61	0	49	9
1988	59	0	51	16
1989	50	0	46	10
1990	42	0	45	8
1991	37	0	38	7
1992	36	0	47	8
1993	40	0	50	9
1994	71	0	98	18
1995	71	0	92	17
1996	97	0	96	22
1997	91	0	96	17
1998	71	0	88	18
1999	85	0	84	16

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Illinois**

1977	*150	1	NA	NA
1978	*158	1	NA	NA
1979	*136	1	NA	NA
1980	113	2	NA	NA
1981	129	1	NA	NA
1982	150	1	NA	NA
1983	135	1	NA	NA
1984	153	1	NA	NA
1985	136	1	NA	NA
1986	135	1	NA	NA
1987	153	5	NA	NA
1988	143	<1	NA	NA
1989	123	<1	NA	NA
1990	131	0	NA	NA
1991	128	52	NA	NA
1992	138	0	NA	NA
1993	116	0	NA	NA
1994	117	0	NA	NA
1995	119	0	NA	NA
1996	94	0	NA	NA
1997	92	0	NA	NA
1998	81	0	NA	NA
1999	100	0	NA	NA

**Indiana**

1977	*20	0	NA	NA
1978	*29	0	NA	NA
1979	*40	0	NA	NA
1980	23	0	NA	NA
1981	23	0	NA	NA
1982	28	1	NA	NA
1983	34	3	NA	NA
1984	*33	2	NA	NA
1985	*35	2	NA	NA
1986	*32	2	NA	NA
1987	23	2	NA	NA
1988	*22	0	NA	NA
1989	*16	0	NA	NA
1990	12	0	NA	NA
1991	*16	0	NA	NA
1992	17	0	NA	NA
1993	15	0	NA	NA
1994	15	0	NA	NA
1995	13	0	NA	NA
1996	11	0	NA	NA
1997	*10	0	NA	NA
1998	13	0	NA	NA
1999	10	0	NA	NA

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
<b>Kansas</b>				
1977	*349	3	11,457	NA
1978	303	3	10,992	NA
1979	*377	3	10,243	402
1980	310	2	9,508	389
1981	371	2	9,860	409
1982	378	13	9,724	302
1983	344	13	9,553	443
1984	377	2	9,387	424
1985	423	<1	9,337	373
1986	312	<1	10,509	440
1987	357	<1	10,494	462
1988	327	<1	10,104	345
1989	338	3	10,091	329
1990	321	<1	9,614	313
1991	300	<1	9,358	428
1992	310	0	9,681	444
1993	271	0	9,348	380
1994	260	0	9,156	398
1995	275	<1	8,571	369
1996	266	<1	7,694	338
1997	238	0	6,989	271
1998	246	0	6,402	334
1999	175	0	5,753	358

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
<b>Louisiana - Total</b>				
1977	3,600	139	57,010	NA
1978	3,448	143	55,725	NA
1979	2,780	76	50,042	1,424
1980	2,751	62	47,325	1,346
1981	2,985	50	47,377	1,327
1982	2,728	49	<sup>e</sup> 44,916	1,295
1983	2,707	45	<sup>e</sup> 42,561	1,332
1984	2,661	55	<sup>e</sup> 41,399	1,188
1985	<sup>f</sup> 883	35	<sup>f</sup> 14,038	<sup>f</sup> 546
1986	<sup>f</sup> 826	<sup>f</sup> 47	<sup>f</sup> 12,930	<sup>f</sup> 524
1987	<sup>f</sup> 807	<sup>f</sup> 56	<sup>f</sup> 12,430	<sup>f</sup> 525
1988	<sup>f</sup> 800	<sup>f</sup> 69	<sup>f</sup> 12,224	<sup>f</sup> 517
1989	<sup>f</sup> 745	<sup>f</sup> 63	<sup>f</sup> 12,516	<sup>f</sup> 522
1990	<sup>f</sup> 705	<sup>f</sup> 22	<sup>f</sup> 11,728	<sup>f</sup> 538
1991	<sup>f</sup> 679	<sup>f</sup> 44	<sup>f</sup> 10,912	<sup>f</sup> 526
1992	<sup>f</sup> 668	<sup>f</sup> 35	<sup>f</sup> 9,780	<sup>f</sup> 495
1993	<sup>f</sup> 639	<sup>f</sup> 338	<sup>f</sup> 9,174	<sup>f</sup> 421
1994	<sup>f</sup> 649	<sup>f</sup> 340	<sup>f</sup> 9,748	<sup>f</sup> 434
1995	<sup>f</sup> 637	<sup>f</sup> 475	<sup>f</sup> 9,274	<sup>f</sup> 601
1996	<sup>f</sup> 658	<sup>f</sup> 331	<sup>f</sup> 9,543	<sup>f</sup> 543
1997	<sup>f</sup> 714	<sup>f</sup> 313	<sup>f</sup> 9,673	<sup>f</sup> 437
1998	<sup>f</sup> 551	<sup>f</sup> 316	<sup>f</sup> 9,147	<sup>f</sup> 411
1999	<sup>f</sup> 600	<sup>f</sup> 278	<sup>f</sup> 9,242	<sup>f</sup> 457

<sup>e</sup>Includes State and Federal offshore Alabama.  
<sup>f</sup>Excludes Federal offshore; now included in Federal Offshore-Gulf of Mexico (Louisiana).

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
<b>Kentucky</b>				
1977	30	0	451	NA
1978	*40	0	545	NA
1979	25	0	468	26
1980	*35	12	508	25
1981	29	13	530	25
1982	*36	13	551	35
1983	35	12	554	31
1984	*41	0	613	24
1985	*42	0	766	27
1986	*31	0	841	29
1987	25	0	909	23
1988	*34	0	923	24
1989	33	0	992	16
1990	33	0	1,016	25
1991	*31	0	1,155	24
1992	34	0	1,084	32
1993	26	0	1,003	26
1994	26	0	969	39
1995	24	0	1,044	43
1996	21	0	983	46
1997	*20	0	1,364	48
1998	23	0	1,222	54
1999	24	0	1,435	69

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
<b>Louisiana - North</b>				
1977	244	78	3,135	NA
1978	255	78	3,203	NA
1979	216	NA	2,798	96
1980	248	NA	3,076	95
1981	*317	NA	3,270	99
1982	*240	NA	2,912	85
1983	223	NA	2,939	74
1984	165	9	2,494	57
1985	196	5	2,587	65
1986	160	7	2,515	57
1987	175	3	2,306	50
1988	154	23	2,398	56
1989	123	22	2,652	60
1990	120	<1	2,588	58
1991	127	<1	2,384	59
1992	125	<1	2,311	60
1993	108	0	2,325	57
1994	108	0	2,537	69
1995	108	0	2,788	79
1996	128	0	3,105	85
1997	136	<1	3,093	80
1998	101	0	2,898	57
1999	108	0	3,079	61

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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### Louisiana - South Onshore

1977	1,382	46	18,580	NA
1978	1,242	38	17,755	NA
1979	682	NA	13,994	676
1980	682	NA	13,026	540
1981	642	NA	12,645	544
1982	611	NA	11,801	501
1983	569	NA	11,142	527
1984	585	20	10,331	454
1985	565	16	9,808	442
1986	547	30	9,103	428
1987	505	22	8,693	429
1988	511	35	8,654	421
1989	479	30	8,645	411
1990	435	11	8,171	431
1991	408	33	7,504	417
1992	417	26	6,693	380
1993	382	329	5,932	334
1994	391	331	6,251	337
1995	387	324	5,648	495
1996	382	322	5,704	411
1997	427	309	5,855	333
1998	353	307	5,698	325
1999	384	278	5,535	364

### Michigan

1977	*233	0	*1,386	NA
1978	*220	9	*1,422	NA
1979	159	23	1,204	112
1980	*205	14	*1,406	112
1981	*240	17	1,118	102
1982	184	34	1,084	97
1983	209	48	1,219	105
1984	180	46	1,112	84
1985	191	37	985	67
1986	146	34	1,139	88
1987	151	27	1,451	111
1988	132	27	1,323	99
1989	128	8	1,342	97
1990	124	3	1,243	81
1991	119	0	1,334	72
1992	102	0	1,223	68
1993	90	0	1,160	57
1994	91	1	1,323	54
1995	76	1	1,294	45
1996	74	0	2,061	53
1997	68	2	2,195	50
1998	44	0	2,328	51
1999	52	0	2,255	48

### Louisiana - State Offshore

1977	1,974	15	35,295	NA
1978	1,951	27	34,767	NA
1979	1,882	14	33,250	652
1980	1,821	13	31,223	711
1981	2,026	16	31,462	684
1982	1,877	21	<sup>e</sup> 30,203	709
1983	1,915	15	<sup>e</sup> 28,480	731
1984	1,911	27	<sup>e</sup> 28,574	677
1985	<sup>f</sup> 122	2	<sup>f</sup> 1,643	<sup>f</sup> 39
1986	<sup>f</sup> 119	<sup>f</sup> 10	<sup>f</sup> 1,312	<sup>f</sup> 39
1987	<sup>f</sup> 127	<sup>f</sup> 22	<sup>f</sup> 1,431	<sup>f</sup> 46
1988	<sup>f</sup> 135	<sup>f</sup> 11	<sup>f</sup> 1,172	<sup>f</sup> 40
1989	<sup>f</sup> 143	<sup>f</sup> 11	<sup>f</sup> 1,219	<sup>f</sup> 51
1990	<sup>f</sup> 150	<sup>f</sup> 11	<sup>f</sup> 969	<sup>f</sup> 49
1991	<sup>f</sup> 144	<sup>f</sup> 11	<sup>f</sup> 1,024	<sup>f</sup> 50
1992	<sup>f</sup> 126	<sup>f</sup> 9	<sup>f</sup> 776	<sup>f</sup> 55
1993	<sup>f</sup> 149	<sup>f</sup> 9	<sup>f</sup> 917	<sup>f</sup> 30
1994	<sup>f</sup> 150	<sup>f</sup> 9	<sup>f</sup> 960	<sup>f</sup> 28
1995	<sup>f</sup> 142	<sup>f</sup> 151	<sup>f</sup> 838	<sup>f</sup> 27
1996	<sup>f</sup> 148	<sup>f</sup> 9	<sup>f</sup> 734	<sup>f</sup> 47
1997	<sup>f</sup> 151	<sup>f</sup> 4	<sup>f</sup> 725	<sup>f</sup> 24
1998	<sup>f</sup> 97	<sup>f</sup> 2	<sup>f</sup> 551	<sup>f</sup> 29
1999	<sup>f</sup> 108	<sup>f</sup> 0	<sup>f</sup> 628	<sup>f</sup> 32

### Mississippi

1977	241	9	1,437	NA
1978	*250	27	1,635	NA
1979	238	24	1,504	16
1980	202	36	1,769	20
1981	209	93	2,035	18
1982	223	85	1,796	18
1983	205	77	1,596	19
1984	201	50	1,491	15
1985	184	53	1,360	12
1986	199	16	1,300	11
1987	202	12	1,220	11
1988	221	10	1,143	12
1989	218	6	1,104	12
1990	227	8	1,126	11
1991	194	8	1,057	10
1992	165	7	869	9
1993	133	44	797	11
1994	151	40	650	9
1995	140	6	663	8
1996	164	6	631	7
1997	183	0	582	6
1998	141	0	658	8
1999	163	0	677	10

<sup>e</sup>Includes State and Federal offshore Alabama.

<sup>f</sup>Excludes Federal offshore; now included in Federal Offshore-Gulf of Mexico (Louisiana).

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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Montana				
1977	175	27	*887	NA
1978	158	27	926	NA
1979	152	38	825	10
1980	179	13	*1,287	16
1981	186	11	*1,321	11
1982	216	6	847	18
1983	234	8	896	19
1984	224	4	802	18
1985	232	3	857	21
1986	248	27	803	16
1987	246	<1	780	16
1988	241	0	819	11
1989	225	<1	867	16
1990	221	0	899	15
1991	201	0	831	14
1992	193	0	859	12
1993	171	0	673	8
1994	175	0	717	8
1995	178	0	782	8
1996	168	0	796	7
1997	159	1	762	5
1998	167	0	782	5
1999	207	0	841	8

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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New Mexico - Total				
1977	605	97	12,000	NA
1978	579	90	12,688	NA
1979	563	77	13,724	530
1980	547	58	13,287	541
1981	555	93	13,870	560
1982	563	76	12,418	531
1983	576	75	11,676	551
1984	660	87	11,364	511
1985	688	99	10,900	445
1986	644	225	11,808	577
1987	654	235	11,620	771
1988	661	241	17,166	1,023
1989	665	256	15,434	933
1990	687	256	17,260	990
1991	721	275	18,539	908
1992	757	293	18,998	1,066
1993	707	211	18,619	996
1994	718	215	17,228	1,011
1995	732	185	17,491	943
1996	744	148	16,485	1,059
1997	735	146	15,514	869
1998	620	168	14,987	929
1999	718	165	15,449	954

Nebraska				
1977	22	0	NA	NA
1978	30	1	NA	NA
1979	25	0	NA	NA
1980	*46	0	NA	NA
1981	41	0	NA	NA
1982	*32	0	NA	NA
1983	44	0	NA	NA
1984	*46	0	NA	NA
1985	42	0	NA	NA
1986	*45	7	NA	NA
1987	33	0	NA	NA
1988	42	0	NA	NA
1989	32	0	NA	NA
1990	26	0	NA	NA
1991	26	0	NA	NA
1992	26	0	NA	NA
1993	20	0	NA	NA
1994	22	0	NA	NA
1995	25	0	NA	NA
1996	28	0	NA	NA
1997	*21	0	NA	NA
1998	18	0	NA	NA
1999	17	0	NA	NA

New Mexico - East				
1977	576	95	3,848	NA
1978	554	88	3,889	NA
1979	542	77	4,031	209
1980	518	58	3,530	209
1981	522	93	3,598	214
1982	537	76	3,432	209
1983	542	75	3,230	232
1984	625	87	3,197	221
1985	643	98	3,034	209
1986	593	225	2,694	217
1987	608	230	2,881	192
1988	621	235	2,945	208
1989	619	252	3,075	196
1990	633	253	3,256	222
1991	694	275	3,206	205
1992	731	293	3,130	223
1993	688	211	3,034	233
1994	702	215	3,021	234
1995	713	185	2,867	247
1996	731	148	2,790	299
1997	719	146	2,642	273
1998	610	168	2,693	262
1999	705	165	3,037	255

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**New Mexico - West**

1977	*29	2	8,152	NA
1978	*25	2	8,799	NA
1979	21	0	9,693	321
1980	*29	0	9,757	332
1981	*33	0	10,272	346
1982	26	0	8,986	322
1983	34	0	8,446	319
1984	35	0	8,167	290
1985	45	1	7,866	236
1986	51	0	9,114	360
1987	46	5	8,739	579
1988	40	6	14,221	815
1989	46	4	12,359	737
1990	54	3	14,004	768
1991	27	0	15,333	703
1992	26	0	15,868	843
1993	19	0	15,585	763
1994	16	0	14,207	777
1995	19	0	14,624	696
1996	13	0	13,695	760
1997	16	0	12,872	596
1998	10	0	12,294	667
1999	13	0	12,412	699

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**North Dakota**

1977	155	10	361	NA
1978	162	4	374	NA
1979	211	6	439	47
1980	214	6	537	61
1981	223	8	581	68
1982	237	8	629	71
1983	258	53	600	69
1984	260	54	566	73
1985	255	34	569	74
1986	218	35	541	69
1987	215	33	508	67
1988	216	39	541	52
1989	246	31	561	59
1990	285	0	586	60
1991	232	4	472	56
1992	237	3	496	64
1993	226	7	525	55
1994	226	2	507	55
1995	233	6	463	53
1996	248	6	462	48
1997	279	6	479	47
1998	245	1	447	48
1999	262	1	416	53

**New York**

1977	NA	NA	165	NA
1978	NA	NA	193	NA
1979	NA	NA	211	0
1980	NA	NA	208	0
1981	NA	NA	*264	0
1982	NA	NA	229	NA
1983	NA	NA	295	NA
1984	NA	NA	389	NA
1985	NA	NA	*369	NA
1986	NA	NA	*457	NA
1987	NA	NA	410	NA
1988	NA	NA	351	NA
1989	NA	NA	368	NA
1990	NA	NA	354	NA
1991	NA	NA	331	NA
1992	NA	NA	329	NA
1993	NA	NA	*264	NA
1994	NA	NA	242	NA
1995	NA	NA	197	NA
1996	NA	NA	232	NA
1997	NA	NA	*224	NA
1998	NA	NA	218	NA
1999	NA	NA	221	NA

**Ohio**

1977	*74	0	495	NA
1978	69	0	684	NA
1979	*82	0	*1,479	0
1980	*116	0	*1,699	0
1981	*112	0	965	0
1982	111	0	1,141	NA
1983	130	0	2,030	NA
1984	*116	0	1,541	NA
1985	79	0	1,331	NA
1986	72	0	1,420	NA
1987	66	0	1,069	NA
1988	64	0	1,229	NA
1989	56	0	1,275	NA
1990	65	0	1,214	NA
1991	66	0	1,181	NA
1992	58	0	1,161	NA
1993	54	0	1,104	NA
1994	58	0	1,094	NA
1995	53	0	1,054	NA
1996	53	0	1,113	NA
1997	*43	0	985	NA
1998	40	0	890	NA
1999	51	0	1,179	NA



Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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Oklahoma				
1977	1,109	69	13,889	NA
1978	979	33	14,417	NA
1979	1,014	35	13,816	583
1980	930	27	13,138	604
1981	950	43	14,699	631
1982	971	25	16,207	745
1983	931	27	16,211	829
1984	940	40	16,126	769
1985	935	37	16,040	826
1986	874	35	16,685	857
1987	788	56	16,711	781
1988	796	79	16,495	765
1989	789	63	15,916	654
1990	734	37	16,151	657
1991	700	54	14,725	628
1992	698	54	13,926	629
1993	680	40	13,289	643
1994	689	47	13,487	652
1995	676	48	13,438	674
1996	632	43	13,074	684
1997	605	20	13,439	685
1998	599	59	13,645	698
1999	621	58	12,543	749

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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Texas - Total				
1977	9,751	637	56,422	NA
1978	8,911	533	55,583	NA
1979	8,284	471	53,021	2,482
1980	8,206	384	50,287	2,452
1981	8,093	459	50,469	2,646
1982	7,616	377	49,757	2,771
1983	7,539	421	50,052	3,038
1984	7,557	735	49,883	3,048
1985	97,782	609	941,775	92,981
1986	97,152	1,270	940,574	92,964
1987	97,112	1,028	938,711	92,822
1988	97,043	1,099	938,167	92,617
1989	96,966	805	938,381	92,563
1990	97,106	618	938,192	92,575
1991	96,797	756	936,174	92,493
1992	96,441	9612	935,093	92,402
1993	96,171	9581	934,718	92,469
1994	95,847	9491	935,974	92,414
1995	95,743	9395	936,542	92,524
1996	95,736	9358	938,270	92,606
1997	95,687	9479	937,761	92,687
1998	94,927	9400	937,584	92,544
1999	95,339	9426	940,157	92,584

<sup>9</sup>Excludes Federal offshore; now included in Federal Offshore-Gulf of Mexico (Texas).

Pennsylvania				
1977	*57	0	769	NA
1978	27	0	899	NA
1979	33	0	*1,515	1
1980	35	0	951	0
1981	32	0	*1,264	0
1982	37	0	1,429	NA
1983	41	0	1,882	NA
1984	*40	0	1,575	NA
1985	*38	0	*1,617	NA
1986	*26	0	*1,560	1
1987	26	0	1,647	NA
1988	*27	0	2,072	NA
1989	26	0	1,642	NA
1990	22	0	1,720	NA
1991	15	0	1,629	NA
1992	16	0	1,528	NA
1993	14	0	1,717	NA
1994	15	0	1,800	NA
1995	11	0	1,482	NA
1996	10	0	1,696	NA
1997	17	0	1,852	NA
1998	15	0	1,840	NA
1999	16	0	1,772	NA

Texas - RRC District 1				
1977	*174	0	1,319	NA
1978	111	2	986	NA
1979	110	0	919	23
1980	*150	0	829	24
1981	127	5	*1,022	26
1982	129	6	892	29
1983	165	6	1,087	43
1984	173	4	838	39
1985	177	8	967	40
1986	144	1	913	35
1987	143	1	812	27
1988	136	1	1,173	30
1989	139	1	1,267	25
1990	252	0	1,048	26
1991	227	0	1,030	28
1992	185	0	933	27
1993	133	0	698	26
1994	100	1	703	26
1995	90	6	712	26
1996	86	1	906	46
1997	83	<1	953	54
1998	61	0	1,104	38
1999	66	0	1,008	167

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Texas - RRC District 2 Onshore**

1977	395	80	3,162	NA
1978	334	1	2,976	NA
1979	292	1	2,974	64
1980	252	1	2,502	64
1981	229	1	2,629	88
1982	206	0	2,493	75
1983	192	0	2,534	99
1984	192	<1	2,512	103
1985	168	0	2,358	100
1986	148	<1	2,180	89
1987	137	0	2,273	102
1988	117	0	2,037	92
1989	107	0	1,770	72
1990	91	0	1,737	80
1991	90	0	1,393	75
1992	86	0	1,389	80
1993	77	0	1,321	86
1994	74	0	1,360	86
1995	61	0	1,251	93
1996	63	<1	1,322	93
1997	66	0	1,634	87
1998	45	<1	1,614	85
1999	53	0	1,881	76

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Texas - RRC District 4 Onshore**

1977	145	7	9,621	NA
1978	123	3	9,031	NA
1979	113	4	8,326	248
1980	96	3	8,130	252
1981	97	6	8,004	260
1982	87	7	8,410	289
1983	96	3	8,316	292
1984	99	3	8,525	295
1985	98	2	8,250	269
1986	87	2	8,274	281
1987	80	2	7,490	277
1988	65	1	7,029	260
1989	77	<1	7,111	260
1990	67	<1	7,475	279
1991	52	<1	7,048	273
1992	50	<1	6,739	272
1993	59	<1	7,038	278
1994	41	<1	7,547	290
1995	50	<1	7,709	287
1996	51	0	7,769	323
1997	70	<1	8,099	347
1998	40	0	8,429	363
1999	42	0	8,915	422

**Texas - RRC District 3 Onshore**

1977	937	33	7,518	NA
1978	794	22	7,186	NA
1979	630	32	6,315	231
1980	581	11	5,531	216
1981	552	11	5,292	230
1982	509	22	4,756	265
1983	517	27	4,680	285
1984	522	25	4,708	270
1985	471	6	4,180	260
1986	420	3	3,753	237
1987	386	4	3,632	241
1988	360	16	3,422	208
1989	307	11	3,233	213
1990	275	13	2,894	181
1991	300	28	2,885	208
1992	304	27	2,684	211
1993	327	31	2,972	253
1994	330	61	3,366	254
1995	267	27	3,866	272
1996	281	27	4,349	289
1997	259	28	4,172	286
1998	211	28	3,961	246
1999	221	25	3,913	226

**Texas - RRC District 5**

1977	68	0	931	NA
1978	*68	0	*1,298	NA
1979	55	1	1,155	34
1980	52	0	1,147	44
1981	49	0	1,250	49
1982	45	0	1,308	53
1983	42	0	1,448	73
1984	36	<1	1,874	74
1985	*59	1	2,058	77
1986	*53	1	2,141	86
1987	54	0	2,119	88
1988	48	0	1,996	81
1989	46	0	1,845	80
1990	47	0	1,875	81
1991	46	0	1,863	71
1992	56	0	1,747	71
1993	52	0	1,867	64
1994	49	0	2,011	59
1995	34	0	1,862	54
1996	29	0	2,079	54
1997	54	0	1,710	35
1998	40	0	1,953	35
1999	37	0	2,319	32

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Texas - RRC District 6**

1977	1,568	12	3,214	NA
1978	1,444	3	3,240	NA
1979	1,177	6	3,258	272
1980	1,115	6	4,230	321
1981	1,040	7	4,177	308
1982	947	6	4,326	278
1983	918	5	4,857	342
1984	889	5	4,703	298
1985	851	4	4,822	293
1986	750	2	4,854	277
1987	733	3	4,682	264
1988	685	5	4,961	263
1989	631	4	5,614	266
1990	605	6	5,753	247
1991	504	7	5,233	243
1992	442	7	5,317	251
1993	406	<1	5,508	248
1994	424	<1	5,381	265
1995	409	1	5,726	271
1996	359	1	5,899	290
1997	348	1	5,887	260
1998	308	0	5,949	276
1999	245	4	5,857	223

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Texas - RRC District 7C**

1977	191	NA	2,831	NA
1978	202	NA	2,821	NA
1979	206	NA	2,842	182
1980	207	NA	2,378	135
1981	230	NA	2,503	186
1982	229	NA	2,659	199
1983	228	NA	2,568	219
1984	240	24	2,866	233
1985	243	21	2,914	256
1986	213	22	2,721	246
1987	220	25	2,708	243
1988	212	31	2,781	238
1989	247	16	3,180	238
1990	274	8	3,514	256
1991	253	9	3,291	241
1992	255	33	3,239	289
1993	199	15	3,215	273
1994	221	14	3,316	265
1995	204	8	3,107	274
1996	219	5	3,655	303
1997	227	4	3,407	327
1998	173	1	3,113	282
1999	209	3	3,178	305

**Texas - RRC District 7B**

1977	250	NA	699	NA
1978	190	NA	743	NA
1979	208	NA	*751	64
1980	196	NA	*745	85
1981	254	NA	804	102
1982	199	NA	805	105
1983	217	NA	1,027	133
1984	218	62	794	106
1985	239	63	708	104
1986	193	64	684	109
1987	200	46	697	92
1988	205	42	704	98
1989	204	11	459	73
1990	198	8	522	76
1991	184	8	423	82
1992	163	11	455	68
1993	*171	7	477	79
1994	145	5	425	62
1995	126	4	440	70
1996	136	4	520	65
1997	155	3	478	59
1998	115	0	442	51
1999	123	0	416	36

**Texas - RRC District 8**

1977	2,915	127	11,728	NA
1978	2,795	102	11,093	NA
1979	2,686	88	10,077	505
1980	2,597	86	9,144	498
1981	2,503	105	8,546	537
1982	2,312	75	8,196	588
1983	2,350	99	8,156	681
1984	2,342	363	7,343	691
1985	2,333	325	7,330	665
1986	2,183	592	7,333	717
1987	2,108	399	6,999	640
1988	2,107	412	7,058	547
1989	2,151	366	6,753	554
1990	2,152	282	6,614	558
1991	2,114	328	6,133	477
1992	2,013	260	5,924	444
1993	2,057	262	5,516	439
1994	2,002	256	5,442	414
1995	2,032	187	5,441	444
1996	2,079	217	5,452	429
1997	2,100	308	5,397	459
1998	1,865	272	4,857	491
1999	2,067	279	5,434	495

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Texas - RRC District 8A**

1977	2,626	291	1,630	NA
1978	2,439	330	1,473	NA
1979	2,371	270	1,055	351
1980	2,504	196	1,057	290
1981	2,538	247	1,071	335
1982	2,481	200	1,041	296
1983	2,366	203	966	262
1984	2,413	217	907	282
1985	2,711	147	958	283
1986	2,618	559	845	331
1987	2,735	525	876	307
1988	2,800	569	832	326
1989	2,754	377	1,074	332
1990	2,847	285	1,036	354
1991	2,763	363	1,073	333
1992	2,599	273	1,239	257
1993	2,435	264	1,043	298
1994	2,223	154	1,219	267
1995	2,233	156	941	284
1996	2,207	99	931	262
1997	2,098	131	847	290
1998	1,895	99	807	226
1999	2,089	115	1,257	223

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Texas - RRC District 10**

1977	*120	4	7,744	NA
1978	90	0	7,406	NA
1979	97	2	6,784	375
1980	89	2	6,435	369
1981	107	2	6,229	364
1982	112	2	6,210	391
1983	105	6	5,919	413
1984	108	6	5,461	440
1985	*140	5	5,469	433
1986	*104	5	5,276	428
1987	102	2	4,962	417
1988	99	4	4,830	363
1989	97	3	4,767	342
1990	99	3	4,490	328
1991	95	2	4,589	356
1992	89	<1	4,409	336
1993	83	<1	4,040	329
1994	75	<1	4,246	326
1995	80	6	4,436	353
1996	74	4	4,391	332
1997	79	4	4,094	382
1998	62	0	4,273	354
1999	61	0	4,424	217

**Texas - RRC District 9**

1977	260	28	724	NA
1978	190	27	*908	NA
1979	200	30	*700	79
1980	218	37	649	92
1981	225	34	953	86
1982	219	17	*1,103	119
1983	220	18	932	121
1984	214	25	900	119
1985	285	27	892	111
1986	237	19	868	119
1987	206	21	834	115
1988	202	18	783	106
1989	200	16	703	94
1990	193	12	776	104
1991	162	11	738	101
1992	176	1	670	92
1993	168	2	688	92
1994	159	<1	728	98
1995	149	<1	738	94
1996	144	0	705	119
1997	144	0	794	98
1998	111	0	734	93
1999	123	0	1,137	158

**Texas - State and Federal Offshore**

1977	102	0	5,301	NA
1978	131	1	6,422	NA
1979	139	0	7,865	54
1980	149	0	7,510	62
1981	142	0	7,989	75
1982	141	0	7,558	84
1983	123	0	7,562	75
1984	111	0	8,452	98
1985	119	0	8,129	90
1986	103	0	8,176	109
1987	96	0	7,846	98
1988	85	0	7,802	94
1989	75	0	7,573	84
1990	77	0	7,758	87
1991	67	0	7,150	84
1992	197	0	7,344	122
1993	196	0	6,996	119
1994	209	10	6,613	105
1995	257	16	6,838	136
1996	218	5	6,288	133
1997	366	5	6,277	124
1998	311	0	5,996	147
1999	305	0	6,271	165

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Texas - State Offshore**

1977	NA	NA	NA	NA
1978	NA	NA	NA	NA
1979	NA	NA	NA	NA
1980	NA	NA	NA	12
1981	NA	NA	NA	13
1982	NA	NA	NA	18
1983	NA	NA	NA	11
1984	NA	NA	NA	10
1985	7	0	869	10
1986	2	0	732	9
1987	8	0	627	9
1988	7	0	561	5
1989	6	0	605	6
1990	6	0	458	5
1991	7	0	475	5
1992	5	0	348	4
1993	4	0	335	4
1994	4	0	230	2
1995	8	0	313	2
1996	8	0	292	1
1997	4	0	289	3
1998	1	0	348	4
1999	3	0	418	4

**Virginia**

1977	NA	NA	NA	NA
1978	NA	NA	NA	NA
1979	NA	NA	NA	NA
1980	NA	NA	NA	NA
1981	NA	NA	118	NA
1982	NA	NA	122	NA
1983	NA	NA	175	NA
1984	NA	NA	216	NA
1985	NA	NA	235	NA
1986	NA	NA	253	NA
1987	NA	NA	248	NA
1988	NA	NA	230	NA
1989	NA	NA	217	NA
1990	NA	NA	138	NA
1991	NA	NA	225	NA
1992	NA	NA	904	NA
1993	NA	NA	1,322	NA
1994	NA	NA	1,833	NA
1995	NA	NA	1,836	NA
1996	NA	NA	1,930	NA
1997	NA	NA	2,446	NA
1998	NA	NA	1,973	NA
1999	NA	NA	2,017	NA

**Utah**

1977	252	6	877	NA
1978	188	7	925	NA
1979	201	NA	948	59
1980	198	NA	1,201	127
1981	190	NA	1,912	277
1982	173	NA	2,161	(h)
1983	187	NA	2,333	(h)
1984	172	8	2,080	(h)
1985	276	13	1,999	(h)
1986	269	14	1,895	(h)
1987	284	22	1,947	(h)
1988	260	21	1,298	(h)
1989	246	50	1,507	(h)
1990	249	44	1,510	(h)
1991	233	66	1,702	(h)
1992	217	65	1,830	(h)
1993	228	54	2,040	(h)
1994	231	70	1,789	(h)
1995	216	50	1,580	(h)
1996	237	46	1,633	(h)
1997	234	70	1,839	(h)
1998	201	56	2,388	(h)
1999	268	42	3,213	(h)

**West Virginia**

1977	21	0	1,567	NA
1978	*30	0	1,634	NA
1979	*48	0	1,558	74
1980	30	8	*2,422	97
1981	30	8	1,834	85
1982	48	8	2,148	79
1983	49	0	2,194	91
1984	*76	0	2,136	80
1985	40	0	2,058	85
1986	37	0	2,148	87
1987	34	0	2,242	87
1988	33	0	2,306	92
1989	30	0	2,201	100
1990	*31	0	2,207	86
1991	26	0	2,528	103
1992	27	0	2,356	97
1993	24	0	2,439	108
1994	25	0	2,565	93
1995	28	0	2,499	62
1996	25	0	2,703	61
1997	26	0	2,846	71
1998	17	0	2,868	72
1999	21	0	2,936	73

<sup>h</sup>Included with Wyoming.

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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### Wyoming

1977	851	31	6,305	NA
1978	845	36	7,211	NA
1979	841	40	7,526	285
1980	928	28	9,100	341
1981	840	53	9,307	384
1982	856	58	9,758	681
1983	957	61	10,227	789
1984	954	71	10,482	860
1985	951	18	10,617	949
1986	849	126	9,756	950
1987	854	27	10,023	924
1988	815	35	10,308	1,154
1989	825	46	10,744	896
1990	794	42	9,944	812
1991	757	24	9,941	748
1992	689	18	10,826	660
1993	624	12	10,933	600
1994	565	13	10,879	564
1995	605	12	12,166	593
1996	603	14	12,320	727
1997	627	11	13,562	761
1998	547	10	13,650	675
1999	590	5	14,226	615

<sup>i</sup>Utah and Wyoming are combined.

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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### Federal Offshore - Pacific (California)

1985	991	NA	1,119	12
1986	974	2	1,325	15
1987	1,037	2	1,452	17
1988	1,024	0	1,552	21
1989	987	0	1,496	25
1990	962	0	1,454	18
1991	785	0	1,162	16
1992	734	0	1,118	20
1993	673	0	1,099	25
1994	653	0	1,170	21
1995	571	0	1,265	25
1996	518	0	1,244	23
1997	528	0	544	14
1998	468	0	480	12
1999	553	0	536	4

Note: Data not tabulated for years 1977-1984.

### Federal Offshore - Total

1985	2,862	11	34,492	702
1986	2,715	16	34,223	681
1987	2,639	21	31,931	638
1988	2,629	21	32,264	622
1989	2,747	32	32,651	678
1990	2,805	49	31,433	619
1991	2,620	18	29,448	640
1992	2,569	31	27,767	610
1993	2,745	18	27,143	630
1994	2,780	53	28,388	624
1995	3,089	62	29,182	655
1996	3,085	45	29,096	776
1997	3,477	41	28,466	920
1998	3,261	7	26,902	931
1999	3,297	5	25,987	998

<sup>j</sup>Includes State offshore Alabama.

Note: Data not tabulated for years 1977-1984.

### Federal Offshore - Gulf of Mexico (Louisiana)

1985	1,759	11	26,113	610
1986	1,640	14	25,454	566
1987	1,514	19	23,260	532
1988	1,527	21	23,471	512
1989	1,691	32	24,187	575
1990	1,772	49	22,679	519
1991	1,775	18	21,611	545
1992	1,643	31	19,653	472
1993	1,880	18	19,383	490
1994	1,922	43	20,835	500
1995	2,269	46	21,392	496
1996	2,357	40	21,856	621
1997	2,587	36	21,934	785
1998	2,483	7	20,774	776
1999	2,442	5	19,598	833

<sup>f</sup>Includes State and Federal offshore Alabama.

<sup>k</sup>Includes Federal offshore Alabama.

Note: Data not tabulated for years 1977-1984.

Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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Year	Crude Oil Proved Reserves	Crude Oil Indicated Additional Reserves	Dry Natural Gas Proved Reserves	Natural Gas Liquids Proved Reserves
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**Federal Offshore - Gulf of Mexico (Texas)**

1985	112	0	7,260	80
1986	101	0	7,444	100
1987	88	0	7,219	89
1988	78	0	7,241	89
1989	69	0	6,968	78
1990	71	0	7,300	82
1991	60	0	6,675	79
1992	192	0	6,996	118
1993	192	0	6,661	115
1994	205	10	6,383	103
1995	249	16	6,525	134
1996	210	5	5,996	132
1997	362	5	5,988	121
1998	310	0	5,648	143
1999	302	0	5,853	161

Note: Data not tabulated for years 1977-1984.

**Miscellaneous**

1977	23	0	102	NA
1978	24	0	109	NA
1979	22	1	*153	2
1980	*38	0	176	3
1981	40	7	191	21
1982	33	0	69	4
1983	30	8	78	5
1984	23	0	75	5
1985	35	0	76	3
1986	33	0	133	2
1987	30	0	65	4
1988	34	0	83	5
1989	39	0	83	5
1990	43	1	*70	3
1991	42	5	75	8
1992	29	0	92	8
1993	34	0	94	8
1994	20	0	65	8
1995	*22	0	*69	7
1996	18	0	67	7
1997	19	0	*43	9
1998	14	0	38	8
1999	15	0	66	10

Note: States included may vary for different report years and hydrocarbon types.

**Lower 48 States**

1977	23,367	2,168	175,170	NA
1978	21,971	1,964	175,988	NA
1979	20,935	1,878	168,738	6,592
1980	21,054	1,622	165,639	6,717
1981	21,143	1,594	168,693	7,058
1982	20,452	1,478	166,522	7,212
1983	20,428	1,548	165,964	7,893
1984	20,883	1,956	162,987	7,624
1985	21,360	1,662	159,522	7,561
1986	20,014	2,597	158,922	7,784
1987	19,878	3,084	153,986	7,729
1988	19,866	3,169	158,946	7,837
1989	19,827	2,999	158,177	7,389
1990	19,730	2,514	160,046	7,246
1991	18,599	2,810	157,509	7,104
1992	17,723	2,451	155,377	7,104
1993	17,182	2,292	152,508	6,901
1994	16,690	2,129	154,104	6,869
1995	16,771	2,087	155,649	7,093
1996	16,743	1,924	157,180	7,486
1997	17,385	2,375	156,661	7,342
1998	15,982	2,328	154,114	7,204
1999	16,865	2,400	157,672	7,515

**U.S. Total**

1977	31,780	3,014	207,413	NA
1978	31,355	2,362	208,033	NA
1979	29,810	2,276	200,997	6,615
1980	29,805	1,622	199,021	6,728
1981	29,426	1,594	201,730	7,068
1982	27,858	1,478	201,512	7,221
1983	27,735	2,124	200,247	7,901
1984	28,446	2,325	197,463	7,643
1985	28,416	2,041	193,369	7,944
1986	26,889	3,499	191,586	8,165
1987	27,256	3,649	187,211	8,147
1988	26,825	3,600	168,024	8,238
1989	26,501	3,749	167,116	7,769
1990	26,254	3,483	169,346	7,586
1991	24,682	4,266	167,062	7,464
1992	23,745	3,782	165,015	7,451
1993	22,957	3,453	162,415	7,222
1994	22,457	3,151	163,837	7,170
1995	22,351	2,669	165,146	7,399
1996	22,017	2,876	166,474	7,823
1997	22,546	3,207	167,223	7,973
1998	21,034	3,160	164,041	7,524
1999	21,765	2,865	167,406	7,906

**Table D1. U.S. Proved Reserves of Crude Oil, 1976–1999**  
(Million Barrels of 42 U.S. Gallons)

Year	Adjustments <sup>a</sup> (1)	Revision Increases (2)	Revision Decreases (3)	Revisions <sup>b</sup> and Adjustments (4)	Extensions (5)	New Field Discoveries (6)	New Reservoir Discoveries in Old Fields (7)	Total <sup>c</sup> Discoveries (8)	Estimated Production (9)	Proved <sup>d</sup> Reserves 12/31 (10)	Change from Prior Year (11)
1976	–	–	–	–	–	–	–	–	–	<sup>e</sup> 33,502	–
1977	<sup>f</sup> –40	1,503	1,117	346	496	168	130	794	2,862	31,780	–1,722
1978	366	2,799	1,409	1,756	444	267	116	827	3,008	31,355	–425
1979	337	2,438	2,001	774	424	108	104	636	2,955	29,810	–1,545
1980	219	2,883	994	2,108	572	143	147	862	2,975	29,805	–5
1981	138	2,151	880	1,409	750	254	157	1,161	2,949	29,426	–379
1982	–83	2,245	1,811	351	634	204	193	1,031	2,950	27,858	–1,568
1983	462	2,810	1,299	1,973	629	105	190	924	3,020	27,735	–123
1984	159	3,672	1,227	2,604	744	242	158	1,144	3,037	28,446	+711
1985	429	3,037	1,439	2,027	742	84	169	995	3,052	28,416	–30
1986	57	2,724	1,869	912	405	48	81	534	2,973	26,889	–1,527
1987	233	3,687	1,371	2,549	484	96	111	691	2,873	27,256	+367
1988	364	2,684	1,221	1,827	355	71	127	553	2,811	26,825	–431
1989	213	2,698	1,365	1,546	514	112	90	716	2,586	26,501	–324
1990	86	2,483	1,000	1,569	456	98	135	689	2,505	26,254	–247
1991	163	2,097	1,874	386	365	97	92	554	2,512	24,682	–1,572
1992	290	1,804	1,069	1,025	391	8	85	484	2,446	23,745	–937
1993	271	2,011	1,516	766	356	319	110	785	2,339	22,957	–788
1994	189	2,364	1,357	1,196	397	64	111	572	2,268	22,457	–500
1995	122	1,823	795	1,150	500	114	343	957	2,213	22,351	–106
1996	175	1,723	986	912	543	243	141	927	2,173	22,017	–334
1997	520	1,998	1,084	1,434	477	637	119	1,233	2,138	22,546	+529
1998	–638	2,752	2,234	–120	327	152	120	599	1,991	21,034	–1,512
1999	139	6,284	4,465	1,958	259	321	145	725	1,952	21,765	+731

<sup>a</sup>Includes operator reported corrections for the years 1978 through 1981. After 1981 operators included corrections with revisions.

<sup>b</sup>Revisions and adjustments = Col. 1 + Col. 2 - Col. 3.

<sup>c</sup>Total discoveries = Col. 5 + Col. 6 + Col. 7.

<sup>d</sup>Proved reserves = Col. 10 from prior year + Col. 4 + Col. 8 - Col. 9.

<sup>e</sup>Based on following year data only.

<sup>f</sup>Consists only of operator reported corrections and no other adjustments.

– = Not applicable.

Notes: Old means discovered in a prior year. New means discovered during the report year. The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves". They may differ from the official Energy Information Administration production data for crude oil contained in the *Petroleum Supply Annual*, DOE/EIA-0340.

Source: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1977 through 1999 annual reports, DOE/EIA-0216.{1-22}



**Table D2. U.S. Lower 48 Proved Reserves of Crude Oil, 1976–1999**  
(Million Barrels of 42 U.S. Gallons)

Year	Adjustments <sup>a</sup> (1)	Revision Increases (2)	Revision Decreases (3)	Revisions <sup>b</sup> and Adjustments (4)	Extensions (5)	New Field Discoveries (6)	New Reservoir Discoveries in Old Fields (7)	Total <sup>c</sup> Discoveries (8)	Estimated Production (9)	Proved <sup>d</sup> Reserves 12/31 (10)	Change from Prior Year (11)
1976	–	–	–	–	–	–	–	–	–	<sup>e</sup> 24,928	–
1977	<sup>f</sup> –40	1,499	1,116	343	496	168	130	794	2,698	23,367	–1,561
1978	–48	1,909	1,400	461	444	142	116	702	2,559	21,971	–1,396
1979	342	2,404	1,975	771	424	108	104	636	2,443	20,935	–1,036
1980	210	2,505	981	1,734	479	143	147	769	2,384	21,054	+119
1981	276	1,887	878	1,285	750	254	157	1,161	2,357	21,143	+89
1982	–82	2,146	1,462	602	633	204	193	1,030	2,323	20,452	–691
1983	462	2,247	1,298	1,411	625	105	190	920	2,355	20,428	–24
1984	160	2,801	1,214	1,747	742	207	158	1,107	2,399	20,883	+455
1985	361	2,864	1,197	2,028	581	84	169	834	2,385	21,360	+477
1986	70	2,001	1,642	429	399	48	81	528	2,303	20,014	–1,346
1987	233	2,566	1,213	1,586	294	38	101	433	2,155	19,878	–136
1988	359	2,399	1,218	1,540	340	43	127	510	2,062	19,866	–12
1989	214	2,438	1,325	1,327	342	108	87	537	1,903	19,827	–39
1990	151	1,997	996	1,152	371	98	135	604	1,853	19,730	–97
1991	164	1,898	1,848	214	327	97	87	511	1,856	18,599	–1,131
1992	297	1,343	1,066	574	279	8	84	371	1,821	17,723	–876
1993	250	1,712	1,514	448	343	319	109	771	1,760	17,182	–541
1994	187	1,873	1,346	714	316	64	111	491	1,697	16,690	–492
1995	117	1,521	765	873	434	114	333	881	1,673	16,771	+81
1996	172	1,654	926	900	479	115	141	735	1,663	16,743	–28
1997	514	1,724	1,029	1,209	459	520	119	1,098	1,665	17,385	+642
1998	–639	2,485	2,170	–324	299	56	120	475	1,554	15,982	–1,403
1999	138	3,933	2,264	1,807	253	242	145	640	1,564	16,865	+883

<sup>a</sup>Includes operator reported corrections for the years 1978 through 1981. After 1981 operators included corrections with revisions.

<sup>b</sup>Revisions and adjustments = Col. 1 + Col. 2 - Col. 3.

<sup>c</sup>Total discoveries = Col. 5 + Col. 6 + Col. 7.

<sup>d</sup>Proved reserves = Col. 10 from prior year + Col. 4 + Col. 8 - Col. 9.

<sup>e</sup>Based on following year data only.

<sup>f</sup>Consists only of operator reported corrections and no other adjustments.

– = Not applicable.

Notes: Old means discovered in a prior year. New means discovered during the report year. The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves". They may differ from the official Energy Information Administration production data for crude oil contained in the *Petroleum Supply Annual*, DOE/EIA-0340.

Source: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1977 through 1999 annual reports, DOE/EIA-0216.{1-22}

**Table D3. U.S. Proved Reserves of Dry Natural Gas, 1976–1999**  
(Billion Cubic Feet at 14.73 psia and 60° Fahrenheit)

Year	Adjustments <sup>a</sup> (1)	Revision Increases (2)	Revision Decreases (3)	Revisions <sup>b</sup> and Adjustments (4)	Extensions (5)	New Field Discoveries (6)	New Reservoir Discoveries in Old Fields (7)	Total <sup>c</sup> Discoveries (8)	Estimated Production (9)	Proved <sup>d</sup> Reserves 12/31 (10)	Change from Prior Year (11)
1976	–	–	–	–	–	–	–	–	–	<sup>e</sup> 213,278	–
1977	<sup>f</sup> –20	13,691	15,296	–1,625	8,129	3,173	3,301	14,603	18,843	207,413	–5,865
1978	2,429	14,969	15,994	1,404	9,582	3,860	4,579	18,021	18,805	208,033	+620
1979	–2,264	16,410	16,629	–2,483	8,950	3,188	2,566	14,704	19,257	200,997	–7,036
1980	1,201	16,972	15,923	2,250	9,357	2,539	2,577	14,473	18,699	199,021	–1,976
1981	1,627	16,412	13,813	4,226	10,491	3,731	2,998	17,220	18,737	201,730	+2,709
1982	2,378	19,795	19,340	2,833	8,349	2,687	3,419	14,455	17,506	201,512	–218
1983	3,090	17,602	17,617	3,075	6,909	1,574	2,965	11,448	15,788	200,247	–1,265
1984	–2,241	17,841	14,712	888	8,299	2,536	2,686	13,521	17,193	197,463	–2,784
1985	–1,708	18,775	16,304	763	7,169	999	2,960	11,128	15,985	193,369	–4,094
1986	1,320	21,269	17,697	4,892	6,065	1,099	1,771	8,935	15,610	191,586	–1,783
1987	1,268	17,527	14,231	4,564	4,587	1,089	1,499	7,175	16,114	187,211	–4,375
1988	2,193	23,367	38,427	–12,867	6,803	1,638	1,909	10,350	16,670	<sup>g</sup> 168,024	–19,187
1989	3,013	26,673	23,643	6,043	6,339	1,450	2,243	10,032	16,983	167,116	–908
1990	1,557	18,981	13,443	7,095	7,952	2,004	2,412	12,368	17,233	169,346	+2,230
1991	2,960	19,890	15,474	7,376	5,090	848	1,604	7,542	17,202	167,062	–2,284
1992	2,235	18,055	11,962	8,328	4,675	649	1,724	7,048	17,423	165,015	–2,047
1993	972	17,597	12,248	6,321	6,103	899	1,866	8,868	17,789	162,415	–2,600
1994	1,945	21,365	15,881	7,429	6,941	1,894	3,480	12,315	18,322	163,837	+1,422
1995	580	20,465	12,731	8,314	6,843	1,666	2,452	10,961	17,966	165,146	+1,309
1996	3,785	17,132	13,046	7,871	7,757	1,451	3,110	12,318	18,861	166,474	+1,328
1997	–590	21,658	16,756	4,312	10,585	2,681	2,382	15,648	19,211	167,223	+749
1998	–1,635	28,003	22,263	4,105	8,197	1,074	2,162	11,433	18,720	164,041	–3,182
1999	982	42,167	31,663	11,486	7,043	1,568	2,196	10,807	18,928	167,406	+3,365

<sup>a</sup>Includes operator reported corrections for the years 1978 through 1981. After 1981 operators included corrections with revisions.

<sup>b</sup>Revisions and adjustments = Col. 1 + Col. 2 - Col. 3.

<sup>c</sup>Total discoveries = Col. 5 + Col. 6 + Col. 7.

<sup>d</sup>Proved reserves = Col. 10 from prior year + Col. 4 + Col. 8 - Col. 9.

<sup>e</sup>Based on following year data only.

<sup>f</sup>Consists only of operator reported corrections and no other adjustments.

<sup>g</sup>An unusually large revision decrease to North Slope dry natural gas reserves was made in 1988. It recognizes some 24.6 trillion cubic feet of downward revisions reported during the last few years by operators because of economic and market conditions. EIA in previous years carried these reserves in the proved category.

– = Not applicable.

Notes: Old means discovered in a prior year. New means discovered during the report year. The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production". They may differ from the official Energy Information Administration production data for natural gas contained in the *Natural Gas Annual*, DOE/EIA-0131.

Source: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1977 through 1999 annual reports, DOE/EIA-0216.{1-22}

**Table D4. U.S. Lower 48 Proved Reserves of Dry Natural Gas, 1976–1999**  
(Billion Cubic Feet at 14.73 psia and 60° Fahrenheit)

Year	Adjustments <sup>a</sup> (1)	Revision Increases (2)	Revision Decreases (3)	Revisions <sup>b</sup> and Adjustments (4)	Extensions (5)	New Field Discoveries (6)	New Reservoir Discoveries in Old Fields (7)	Total <sup>c</sup> Discoveries (8)	Estimated Production (9)	Proved <sup>d</sup> Reserves 12/31 (10)	Change from Prior Year (11)
1976	–	–	–	–	–	–	–	–	–	<sup>e</sup> 180,838	–
1977	<sup>f</sup> –21	13,689	15,229	–1,561	8,056	3,173	3,301	14,530	18,637	175,170	–5,668
1978	2,446	13,912	14,670	1,688	9,582	3,860	4,277	17,719	18,589	175,988	818
1979	–2,202	15,691	16,398	–2,909	8,949	3,173	2,566	14,688	19,029	168,738	–7,250
1980	1,163	15,881	15,819	1,225	9,046	2,539	2,577	14,162	18,486	165,639	–3,099
1981	1,840	16,258	13,752	4,346	10,485	3,731	2,994	17,210	18,502	168,693	3,054
1982	2,367	17,570	19,318	619	8,349	2,687	3,419	14,455	17,245	166,522	–2,171
1983	3,089	17,296	16,875	3,510	6,908	1,574	2,965	11,447	15,515	165,964	–558
1984	–2,245	16,934	14,317	372	8,298	2,536	2,686	13,520	16,869	162,987	–2,977
1985	–1,349	18,252	15,752	1,151	7,098	999	2,960	11,057	15,673	159,522	–3,465
1986	1,618	21,084	16,940	5,762	6,064	1,099	1,761	8,924	15,286	158,922	–600
1987	1,066	16,809	14,164	3,711	4,542	1,077	1,499	7,118	15,765	153,986	–4,936
1988	2,017	22,571	13,676	10,912	6,771	1,638	1,909	10,318	16,270	158,946	4,960
1989	2,997	26,446	23,507	5,936	6,184	1,450	2,243	9,877	16,582	158,177	–769
1990	1,877	17,916	13,344	6,449	7,898	2,004	2,412	12,314	16,894	160,046	+1,869
1991	2,967	19,095	15,235	6,827	5,074	848	1,563	7,485	16,849	157,509	–2,537
1992	1,946	17,878	11,941	7,883	4,621	649	1,724	6,994	17,009	155,377	–2,132
1993	915	16,918	12,139	5,694	6,076	899	1,858	8,833	17,396	152,508	–2,869
1994	1,896	21,121	15,832	7,185	6,936	1,894	3,480	12,310	17,899	154,104	+1596
1995	973	19,903	12,680	8,196	6,801	1,666	2,452	10,919	17,570	155,649	+1,545
1996	3,640	16,930	12,875	7,695	7,751	1,390	3,110	12,251	18,415	157,180	+1,531
1997	–609	19,849	16,657	2,583	10,571	2,681	2,382	15,634	18,734	156,661	–519
1998	–1,463	27,834	22,138	4,233	8,195	1,070	2,162	11,427	18,207	154,114	–2,547
1999	849	38,590	28,138	11,301	7,041	1,512	2,173	10,726	18,469	157,672	+3,558

<sup>a</sup>Includes operator reported corrections for the years 1978 through 1981. After 1981 operators included corrections with revisions.

<sup>b</sup>Revisions and adjustments = Col. 1 + Col. 2 - Col. 3.

<sup>c</sup>Total discoveries = Col. 5 + Col. 6 + Col. 7.

<sup>d</sup>Proved reserves = Col. 10 from prior year + Col. 4 + Col. 8 - Col. 9.

<sup>e</sup>Based on following year data only.

<sup>f</sup>Consists only of operator reported corrections and no other adjustments.

– = Not applicable.

Notes: Old means discovered in a prior year. New means discovered during the report year. The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production". They may differ from the official Energy Information Administration production data for natural gas contained in the *Natural Gas Annual*, DOE/EIA-0131.

Source: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1977 through 1999 annual reports, DOE/EIA-0216.{1-22}

**Table D5. U.S. Proved Reserves of Wet Natural Gas, After Lease Separation, 1978–1999**  
(Billion Cubic Feet at 14.73 psia and 60° Fahrenheit)

Year	Adjustments <sup>a</sup> (1)	Revision Increases (2)	Revision Decreases (3)	Revisions <sup>b</sup> and Adjustments (4)	Extensions (5)	New Field Discoveries (6)	New Reservoir Discoveries in Old Fields (7)	Total <sup>c</sup> Discoveries (8)	Estimated Production (9)	Proved <sup>d</sup> Reserves 12/31 (10)	Change from Prior Year (11)
1978	–	–	–	–	–	–	–	–	–	<sup>e</sup> 208,033	–
1979	5,356	17,077	17,300	5,133	9,332	3,279	2,637	15,248	20,079	208,335	+302
1980	1,253	17,668	16,531	2,390	9,757	2,629	2,648	15,034	19,500	206,259	–2,076
1981	2,057	17,156	14,413	4,800	10,979	3,870	3,080	17,929	19,554	209,434	+3,175
1982	2,598	20,596	20,141	3,053	8,754	2,785	3,520	15,059	18,292	209,254	–180
1983	4,363	18,442	18,385	4,420	7,263	1,628	3,071	11,962	16,590	209,046	–208
1984	–2,413	18,751	15,418	920	8,688	2,584	2,778	14,050	18,032	205,984	–3,062
1985	–1,299	19,732	17,045	1,388	7,535	1,040	3,053	11,628	16,798	202,202	–3,782
1986	2,137	22,392	18,557	5,972	6,359	1,122	1,855	9,336	16,401	201,109	–1,093
1987	1,199	18,455	14,933	4,721	4,818	1,128	1,556	7,502	16,904	196,428	–4,681
1988	2,180	24,638	<sup>f</sup> 39,569	–12,751	7,132	1,677	1,979	10,788	17,466	<sup>f</sup> 176,999	–19,429
1989	2,537	27,844	24,624	5,757	6,623	1,488	2,313	10,424	17,752	175,428	–1,571
1990	1,494	19,861	14,024	7,331	8,287	2,041	2,492	12,820	18,003	177,576	+2,148
1991	3,368	20,758	16,189	7,937	5,298	871	1,655	7,824	18,012	175,325	–2,251
1992	2,543	18,906	12,532	8,917	4,895	668	1,773	7,336	18,269	173,309	–2,016
1993	1,048	18,394	12,853	6,589	6,376	927	1,930	9,233	18,641	170,490	–2,819
1994	1,977	22,345	16,509	7,813	7,299	1,941	3,606	12,846	19,210	171,939	+1,449
1995	889	21,548	13,457	8,980	7,204	1,709	2,518	11,431	18,874	173,476	+1,537
1996	4,288	18,034	13,757	8,565	8,189	1,491	3,209	12,889	19,783	175,147	+1,671
1997	–730	22,712	17,655	4,327	11,179	2,747	2,455	16,381	20,134	175,721	+574
1998	–1,624	29,401	23,419	4,385	8,630	1,116	2,240	11,986	19,622	172,433	–3,288
1999	1,102	44,233	33,051	12,284	7,401	1,622	2,265	11,288	19,856	176,159	+3,726

<sup>a</sup>Includes operator reported corrections for the years 1978 through 1981. After 1981 operators included corrections with revisions.

<sup>b</sup>Revisions and adjustments = Col. 1 + Col. 2 - Col. 3.

<sup>c</sup>Total discoveries = Col. 5 + Col. 6 + Col. 7.

<sup>d</sup>Proved reserves = Col. 10 from prior year + Col. 4 + Col. 8 - Col. 9.

<sup>e</sup>Based on following year data only.

<sup>f</sup>An unusually large revision decrease to North Slope wet natural gas reserves was made in 1988. It recognizes some 25 trillion cubic feet of downward revisions reported during the last few years by operators because of economic and market conditions. EIA in previous years carried these reserves in the proved category.

– = Not applicable.

Notes: Old means discovered in a prior year. New means discovered during the report year. The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves". They may differ from the official Energy Information Administration production data for natural gas contained in the *Natural Gas Annual*, DOE/EIA-013.

Source: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1979 through 1999 annual reports, DOE/EIA-0216.{2-22}

**Table D6. U.S. Lower 48 Proved Reserves of Wet Natural Gas, After Lease Separation, 1978–1999**  
(Billion Cubic Feet at 14.73 psia and 60° Fahrenheit)

Year	Adjustments <sup>a</sup> (1)	Revision Increases (2)	Revision Decreases (3)	Revisions <sup>b</sup> and Adjustments (4)		Extensions (5)	New Field Discoveries (6)	New Reservoir Discoveries in Old Fields (7)	Total <sup>c</sup> Discoveries (8)	Estimated Production (9)	Proved <sup>d</sup> Reserves 12/31 (10)	Change from Prior Year (11)
1978	–	–	–	–	–	–	–	–	–	–	<sup>e</sup> 175,988	–
1979	5,402	16,358	17,069	4,691	9,331	3,264	2,637	15,232	19,851	176,060		+72
1980	1,218	16,577	16,427	1,368	9,446	2,629	2,648	14,723	19,287	172,864		–3,196
1981	2,270	17,002	14,352	4,920	10,973	3,870	3,076	17,919	19,318	176,385		+3,521
1982	2,586	18,371	20,119	838	8,754	2,785	3,520	15,059	18,030	174,252		–2,133
1983	4,366	18,136	17,643	4,859	7,262	1,628	3,071	11,961	16,317	174,755		+503
1984	–2,409	17,844	15,023	412	8,687	2,584	2,778	14,049	17,708	171,508		–3,247
1985	–1,313	19,203	16,490	1,400	7,463	1,040	3,053	11,556	16,485	167,979		–3,529
1986	2,114	22,207	17,797	6,524	6,357	1,122	1,845	9,324	16,073	167,754		–225
1987	1,200	17,733	14,865	4,068	4,772	1,116	1,556	7,444	16,553	162,713		–5,041
1988	2,025	23,829	14,439	11,415	7,099	1,677	1,979	10,755	17,063	167,820		+5,107
1989	2,545	27,616	24,488	5,673	6,467	1,485	2,313	10,265	17,349	166,409		–1,411
1990	1,811	18,784	13,925	6,670	8,232	2,041	2,492	12,765	17,661	168,183		+1,774
1991	3,367	19,961	15,948	7,380	5,281	871	1,614	7,766	17,657	165,672		–2,511
1992	2,265	18,728	12,511	8,482	4,840	668	1,773	7,281	17,851	163,584		–2,088
1993	996	17,714	12,743	5,967	6,349	927	1,922	9,198	18,245	160,504		–3,080
1994	1,924	22,071	16,458	7,537	7,294	1,941	3,606	12,841	18,756	162,126		+1,622
1995	1,304	20,928	13,403	8,829	7,162	1,709	2,518	11,389	18,443	163,901		+1,775
1996	4,219	17,832	13,586	8,465	8,183	1,430	3,209	12,822	19,337	165,851		+1,950
1997	–835	20,878	17,556	2,497	11,165	2,747	2,455	16,367	19,657	165,048		–803
1998	–1,461	29,231	23,294	4,476	8,628	1,112	2,240	11,980	19,104	162,400		–2,648
1999	958	40,606	29,476	12,088	7,399	1,566	2,242	11,207	19,391	166,304		+3,904

<sup>a</sup>Includes operator reported corrections for the years 1978 through 1981. After 1981 operators included corrections with revisions.

<sup>b</sup>Revisions and adjustments = Col. 1 + Col. 2 - Col. 3.

<sup>c</sup>Total discoveries = Col. 5 + Col. 6 + Col. 7.

<sup>d</sup>Proved reserves = Col. 10 from prior year + Col. 4 + Col. 8 - Col. 9.

<sup>e</sup>Based on following year data only.

– = Not applicable.

Notes: Old means discovered in a prior year. New means discovered during the report year. The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves". They may differ from the official Energy Information Administration production data for natural gas contained in the *Natural Gas Annual*, DOE/EIA-0131.

Source: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1979 through 1999 annual reports, DOE/EIA-0216.{2-22}

**Table D7. U.S. Proved Reserves of Natural Gas Liquids, 1978–1999**  
(Million Barrels of 42 U.S. Gallons)

Year	Adjustments <sup>a</sup> (1)	Revision Increases (2)	Revision Decreases (3)	Revisions <sup>b</sup> and Adjustments (4)	Extensions (5)	New Field Discoveries (6)	New Reservoir Discoveries in Old Fields (7)	Total <sup>c</sup> Discoveries (8)	Estimated Production (9)	Proved <sup>d</sup> Reserves 12/31 (10)	Change from Prior Year (11)
1978	–	–	–	–	–	–	–	–	–	<sup>e</sup> 6,772	–
1979	<sup>f</sup> 64	677	726	15	364	94	97	555	727	6,615	–157
1980	153	743	639	257	418	90	79	587	731	6,728	+113
1981	231	729	643	317	542	131	91	764	741	7,068	+340
1982	299	811	832	278	375	112	109	596	721	7,221	+153
1983	849	847	781	915	321	70	99	490	725	7,901	+680
1984	–123	866	724	19	348	55	96	499	776	7,643	–258
1985	426	906	744	588	337	44	85	466	753	7,944	+301
1986	367	1,030	807	590	263	34	72	369	738	8,165	+221
1987	231	847	656	422	213	39	55	307	747	8,147	–18
1988	11	1,168	715	464	268	41	72	381	754	8,238	+91
1989	–277	1,143	1,020	–154	259	83	74	416	731	7,769	–469
1990	–83	827	606	138	299	39	73	411	732	7,586	–183
1991	233	825	695	363	189	25	55	269	754	7,464	–122
1992	225	806	545	486	190	20	64	274	773	7,451	–13
1993	102	764	640	226	245	24	64	333	788	7,222	–229
1994	43	873	676	240	314	54	131	499	791	7,170	–52
1995	192	968	691	469	432	52	67	551	791	7,399	+229
1996	474	844	669	649	451	65	109	625	850	7,823	+424
1997	–14	1,199	910	275	535	114	90	739	864	7,973	+150
1998	–361	1,302	1,094	–153	383	66	88	537	833	7,524	–449
1999	99	2,048	1,321	826	313	51	88	452	896	7,906	+382

<sup>a</sup>Includes operator reported corrections for the years 1978 through 1981. After 1981 operators included corrections with revisions.

<sup>b</sup>Revisions and adjustments = Col. 1 + Col. 2 - Col. 3.

<sup>c</sup>Total discoveries = Col. 5 + Col. 6 + Col. 7.

<sup>d</sup>Proved reserves = Col. 10 from prior year + Col. 4 + Col. 8 - Col. 9.

<sup>e</sup>Based on following year data only.

<sup>f</sup>Consists only of operator reported corrections and no other adjustments.

– = Not applicable.

Notes: Old means discovered in a prior year. New means discovered during the report year. The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production". They may differ from the official Energy Information Administration production data for natural gas liquids contained in the *Natural Gas Annual*, DOE/EIA-0131.

Source: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1979 through 1999 annual reports, DOE/EIA-0216.{2-22}

**Table D8. U.S. Lower 48 Proved Reserves of Natural Gas Liquids, 1978–1999**  
(Million Barrels of 42 U.S. Gallons)

Year	Adjustments <sup>a</sup> (1)	Revision Increases (2)	Revision Decreases (3)	Revisions <sup>b</sup> and Adjustments (4)	Extensions (5)	New Field Discoveries (6)	New Reservoir Discoveries in Old Fields (7)	Total <sup>c</sup> Discoveries (8)	Estimated Production (9)	Proved <sup>d</sup> Reserves 12/31 (10)	Change from Prior Year (11)
1978	–	–	–	–	–	–	–	–	–	<sup>e</sup> 6,749	–
1979	<sup>f</sup> 63	677	726	14	364	94	97	555	726	6,592	–157
1980	165	743	639	269	418	90	79	587	731	6,717	+125
1981	233	728	643	318	542	131	91	764	741	7,058	+341
1982	300	811	832	279	375	112	109	596	721	7,212	+154
1983	850	847	781	916	321	70	99	490	725	7,893	+681
1984	–115	847	724	8	348	55	96	499	776	7,624	–269
1985	70	883	731	222	334	44	85	463	748	7,561	–63
1986	363	1,030	804	589	263	34	72	369	735	7,784	+223
1987	179	846	655	370	212	39	55	306	731	7,729	–55
1988	10	1,167	715	462	267	41	72	380	734	7,837	+108
1989	–273	1,141	1,018	–150	259	83	74	416	714	7,389	–448
1990	–60	827	606	161	298	39	73	410	714	7,246	–143
1991	183	815	677	321	187	25	55	267	730	7,104	–142
1992	225	796	542	479	183	20	64	267	746	7,104	0
1993	101	755	631	225	245	24	64	333	761	6,901	–203
1994	38	872	676	234	314	54	131	499	765	6,869	–32
1995	204	918	688	434	432	52	67	551	761	7,093	+224
1996	417	832	654	595	450	56	109	615	817	7,486	+393
1997	–107	965	910	–52	533	114	90	737	829	7,342	–144
1998	–74	1,301	1,093	134	383	66	88	537	809	7,204	–138
1999	102	1,902	1,285	719	304	50	86	440	848	7,515	+311

<sup>a</sup>Includes operator reported corrections for the years 1978 through 1981. After 1981 operators included corrections with revisions.

<sup>b</sup>Revisions and adjustments = Col. 1 + Col. 2 - Col. 3.

<sup>c</sup>Total discoveries = Col. 5 + Col. 6 + Col. 7.

<sup>d</sup>Proved reserves = Col. 10 from prior year + Col. 4 + Col. 8 - Col. 9.

<sup>e</sup>Based on following year data only.

<sup>f</sup>Consists only of operator reported corrections and no other adjustments.

– = Not applicable.

Notes: Old means discovered in a prior year. New means discovered during the report year. The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production". They may differ from the official Energy Information Administration production natural gas liquids contained in the *Natural Gas Annual*, DOE/EIA-0131.

Source: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1979 through 1999 annual reports, DOE/EIA-0216.{2-22}

**Table D9. Deepwater Production and Proved Reserves of the Gulf of Mexico Federal Offshore, 1992-1999**

Year	Gulf of Mexico			Depth		Deepwater Percentage
	Total	Louisiana <sup>a</sup>	Texas	Greater than 200 meters	Less than 200 meters	
<b>Crude Oil</b> (million barrels of 42 U.S. gallons)						
<b>Production</b>						
1992	267	253	14	46	221	17.2
1993	266	252	14	46	220	17.3
1994	265	245	20	53	212	20.1
1995	292	262	30	77	215	26.4
1996	303	265	38	90	213	29.7
1997	342	298	44	123	219	36.0
1998	372	336	36	171	201	46.0
1999	421	376	45	228	193	54.2
<b>Reserves</b>						
1992	1,835	1,643	192	557	1,278	30.4
1993	2,072	1,880	192	824	1,248	39.8
1994	2,127	1,922	205	877	1,250	41.2
1995	2,518	2,269	249	1,241	1,277	49.3
1996	2,567	2,357	210	1,311	1,256	51.1
1997	2,949	2,587	362	1,682	1,267	57.0
1998	2,793	2,483	310	1,611	1,182	57.8
1999	2,744	2,442	302	1,626	1,118	59.3
<b>Natural Gas, Wet After Lease Separation</b> (billion cubic feet at 14.73 psia and 60° Fahrenheit)						
<b>Production</b>						
1992	4,576	3,292	1,284	166	4,410	3.6
1993	4,651	3,383	1,268	229	4,422	4.9
1994	4,797	3,505	1,292	294	4,503	6.1
1995	4,679	3,421	1,258	354	4,315	7.8
1996	5,045	3,752	1,293	549	4,496	10.9
1997	5,230	3,984	1,246	577	4,653	11.0
1998	4,967	3,817	1,150	724	4,243	14.6
1999	5,000	3,829	1,171	1,124	3,876	22.5
<b>Reserves</b>						
1992	27,050	20,006	7,044	3,273	23,777	12.1
1993	26,463	19,751	6,712	3,495	22,968	13.2
1994	27,626	21,208	6,418	4,772	22,854	17.3
1995	28,229	21,664	6,565	5,811	22,418	20.6
1996	28,153	22,119	6,034	6,389	21,764	22.7
1997	28,455	22,428	6,027	7,491	20,964	26.3
1998	26,937	21,261	5,676	7,575	19,362	28.1
1999	26,062	20,172	5,890	7,726	18,336	29.6
<b>Natural Gas Liquids</b> (million barrels of 42 U.S. gallons)						
<b>Production</b>						
1992	91	76	15	4	87	4.4
1993	97	80	17	6	91	6.2
1994	98	83	15	6	92	6.1
1995	85	71	14	12	73	14.1
1996	101	84	17	13	88	12.9
1997	140	123	17	17	123	12.1
1998	139	120	19	26	113	18.7
1999	167	136	31	51	116	30.5
<b>Reserves</b>						
1992	590	472	118	91	499	15.4
1993	605	490	115	97	508	16.0
1994	603	500	103	110	493	18.2
1995	630	496	134	294	336	46.7
1996	753	621	132	300	456	39.8
1997	906	785	121	349	557	38.5
1998	919	776	143	387	532	42.1
1999	994	833	161	411	583	41.3

<sup>a</sup>Includes Federal Offshore Alabama.

<sup>b</sup>Revisions result from reclassing all field depths to match Minerals Management Service assignments.

Source: Based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves."



**Table D10. 1999 Reported Reserves in Nonproducing Reservoirs for Crude Oil, Lease Condensate, and Natural Gas<sup>a</sup>**

State and Subdivision	Crude Oil (mmbbls)	Lease Condensate (mmbbls)	Nonassociated Gas (bcf)	Associated Dissolved Gas (bcf)	Total Gas (bcf)
Alaska	932	-	696	97	793
<b>Lower 48 States</b>	<b>3,274</b>	<b>418</b>	<b>30,539</b>	<b>5,542</b>	<b>36,080</b>
Alabama	2	5	172	1	173
Arkansas	5	-	186	9	195
California	511	-	73	215	288
Coastal Region Onshore	134	-	0	63	63
Los Angeles Basin Onshore	56	-	0	43	43
San Joaquin Basin Onshore	321	-	73	108	181
State Offshore	0	-	0	0	0
Colorado	30	8	1,689	296	1,985
Florida	12	-	-	-	-
Illinois	11	-	-	2	2
Indiana	-	-	-	-	-
Kansas	12	-	92	7	99
Kentucky	-	-	226	-	226
Louisiana	226	58	2,970	456	3,426
North	42	5	936	123	1,059
South Onshore	146	50	1,796	289	2,085
State Offshore	38	3	238	44	282
Michigan	1	1	52	1	53
Mississippi	68	2	152	4	156
Montana	83	-	89	20	110
Nebraska	-	-	-	-	-
New Mexico	157	8	2,423	122	2,545
East	156	4	286	118	404
West	0	4	2,137	4	2,141
New York	-	-	32	-	32
North Dakota	22	3	67	15	81
Ohio	17	-	142	69	211
Oklahoma	80	18	1,559	181	1,741
Pennsylvania	5	-	190	26	216
Texas	565	71	7,642	860	8,502
RRC District 1	13	2	309	5	314
RRC District 2 Onshore	7	3	380	73	453
RRC District 3 Onshore	26	18	769	141	910
RRC District 4 Onshore	9	25	2,395	79	2,474
RRC District 5	5	2	857	4	860
RRC District 6	10	10	1,146	45	1,191
RRC District 7B	6	-	7	2	8
RRC District 7C	33	1	332	54	386
RRC District 8	234	1	430	364	794
RRC District 8A	212	-	3	55	58
RRC District 9	4	-	489	2	491
RRC District 10	5	6	471	33	505
State Offshore	-	2	54	3	57
Utah	58	1	1,177	101	1,278
Virginia	-	-	165	-	165
West Virginia	3	-	427	1	428
Wyoming	52	9	3,075	60	3,136
Federal Offshore <sup>b</sup>	1,355	234	7,941	3,093	11,034
Pacific (California)	15	4	48	20	68
Gulf of Mexico (Louisiana) <sup>b</sup>	1,133	180	6,267	2,099	8,366
Gulf of Mexico (Texas)	207	50	1,625	975	2,600
Miscellaneous <sup>c</sup>	1	-	-	1	1
<b>Total</b>	<b>4,206</b>	<b>418</b>	<b>31,235</b>	<b>5,639</b>	<b>36,873</b>

<sup>a</sup>Includes only those operators who produced during the report year 400,000 barrels of crude oil or 2 billion cubic feet of wet natural gas, or more (Category I and Category II operators).

<sup>b</sup>Includes Federal offshore Alabama.

<sup>c</sup>Includes Arizona, Maryland, Missouri, Nevada, Oregon, South Dakota and Tennessee.

Source: Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves," 1999.