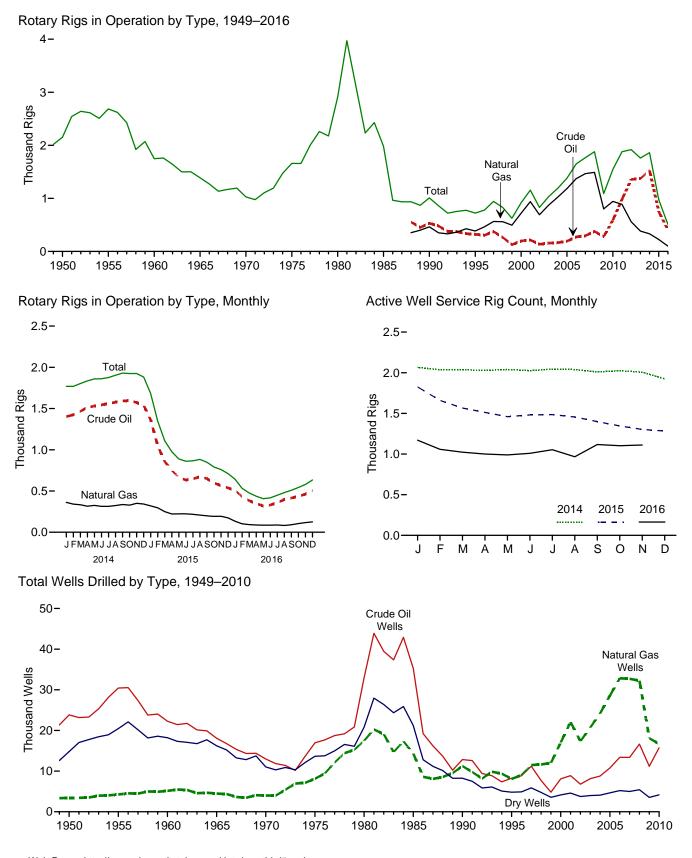
5. Crude Oil and Natural Gas Resource Development

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



Web Page: http://www.eia.gov/totalenergy/data/monthly/#crude. Sources: Tables 5.1 and 5.2.

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements (Number of Rigs)

	Rotary Rigs in Operation ^a								
	By Site		Ву	Туре		Active			
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Well Service Rig Count ^c			
950 Average	NA	NA	NA	NA	2.154	NA			
955 Average	NA	NA	NA	NA	2,686	NA			
960 Average	NA	NA	NA	NA	1,748	NA			
965 Average	NA	NA	NA	NA	1,388	NA			
970 Average	NA	NA	NA	NA.	1,028	NA NA			
75 Average	1,554	106	NA	NA	1,660	2.486			
80 Average	2,678	231	NA NA	NA	2.909	4,089			
85 Average	1,774	206	ŇÄ	ŇÄ	1,980	4,716			
On Average	902	108	532	464	1,010	3,658			
90 Average	622	101	323	385	723	3,041			
95 Average									
00 Average	778	140	197	720	918	2,692			
01 Average	1,003	153	217	939	1,156	2,267			
02 Average	717	113	137	691	830	1,830			
03 Average	924	108	157	872	1,032	1,967			
04 Average	1,095	97	165	1,025	1,192	2,064			
05 Average	1,287	94	194	1,184	1,381	2,222			
06 Average	1,559	90	274	1,372	1,649	2,364			
07 Average	1,695	72	297	1,466	1,768	2,388			
08 Average	1,814	65	379	1,491	1,879	2,515			
09 Average	1,046	44	278	801	1.089	1,722			
10 Average	1,514	31	591	943	1,546	1,854			
11 Average	1,846	32	984	887	1,879	2,075			
12 Average	1,871	48	1,357	558	1,919	2,113			
13 Average	1,705	56	1,373	383	1,761	2,064			
14 January	1,711	58	1,403	362	1,769	2,066			
February	1,714	55	1,424	341	1,769	2,036			
March	1,750	54	1,466	333	1,803	2,037			
April	1,784	52	1,515	316	1,835	2,028			
May	1,801	58	1,530	325	1,859	2,040			
June	1.804	58	1,545	314	1,861	2,026			
July	1.819	57	1,560	314	1,876	2,044			
August	1,842	62	1,578	324	1,904	2.039			
September	1,866	64	1,592	336	1,930	2,010			
	1,867		1,596	328	1,924	2,010			
October	1,872	58	1,573	351	1,925	2,024			
November		53							
December	1,824	59 53	1,539	342	1,882	1,925			
Average	1,804	57	1,527	333	1,862	2,024			
15 January	1,629	53	1,362	320	1,683	1,826			
February	1,296	52	1,050	296	1,348	1,659			
March	1,066	43	857	250	1,109	1,566			
April	943	33	750	222	976	1,512			
May	858	32	662	223	889	1,460			
June	833	28	634	224	861	1,481			
July	835	31	649	216	866	1,485			
August	849	34	673	209	883	1,456			
September	816	32	650	198	848	1,399			
October	758	33	597	193	791	1,345			
November	729	31	566	194	760	1,303			
December	686	24	537	174	711	1,283			
Average	943	35	750	226	978	1,481			
6 January	615	28	510	133	643	1.170			
	506	26 26	430	102	532	1,170			
February	451	26 27	384	93	477	1,023			
March									
April	411	26	348	88	437	1,000			
May	384	24	320	86	407	989			
June	396	21	330	86	417	1,009			
July	429	20	359	88	449	1,053			
August	464	17	397	82	481	967			
September	491	18	416	91	509	1,117			
October	521	23	436	105	543	1,102			
November	558	22	462	117	580	R 1,111			
	611	44				1,111			
December		23	507	126	634	NA			

a Rotary rigs in operation are reported weekly. Monthly data are averages of 4-or 5-week reporting periods, not calendar months. Multi-month data are averages of the reported data over the covered months, not averages of the weekly data. Annual data are averages over 52 or 53 weeks, not calendar years. Published data are rounded to the nearest whole number.
 b Sum of rigs drilling for crude oil, rigs drilling for natural gas, and other rigs (not shown) drilling for miscellaneous purposes, such as service wells, injection wells, and stratigraphic tests. "Total" values may not equal the sum of "Onshore" and "Offshore" due to independent rounding.
 c The number of rigs doing true workovers (where tubing is pulled from the well), or doing rod string and pump repair operations, and that are, on average, crewed and working every day of the month.

R=Revised. NA=Not available.

R=Revised. NA=Not available.

Note: Geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • Rotary Rigs in Operation: Baker Hughes, Inc., Houston, TX, "North America Rig Count," used with permission. See http://phx.corporate-ir.net/phoenix.zhtml?c=79687&p=irol-reportsother. • Active Well Service Rig Count: Cameron International Corporation, Houston, TX. See http://www.aesc.net/AESC/Industry_Resources/Rig_Counts/AESC/Industry_Resources/Well_Service_Rig_Count.aspx?hkey=0f7d9987-7819-421e-9c4c-7e7d9323ab3c.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

	Wells Drilled												
	Exploratory				Development			Total				Total	
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Footage Drilled
	Number										Thousand Feet		
1950 Total	1,583	431	8,292	10,306	22,229	3,008	6,507	31,744	23,812	3,439	14,799	42,050	157,358
1955 Total	2,236	874	11,832 9,515	14,942 11,704	28,196	3,392	8,620	40,208	30,432 22,258	4,266	20,452 18,212	55,150 45,619	226,182
1960 Total	1,321 946	868 515	9,515 8.005	9,466	20,937 17,119	4,281 3,967	8,697 8,221	33,915 29.307	22,258 18.065	5,149 4,482	16,212	38,773	192,176 174.882
1970 Total	757	477	6,162	7,396	12,211	3,534	4,869	20,614	12,968	4,011	11,031	28,010	138,556
1975 Total	982	1,248	7,129	9,359	15,966	6,879	6,517	29,362	16,948	8,127	13,646	38,721	180,494
1980 Total	1,777	2,099	9,081	12,957	31,182	15,362	11,704	58,248	32,959	17,461	20,785	71,205	316,943
1985 Total	1,680 778	1,200 811	8,954 3.652	11,834 5,241	33,581	13,124	12,257	58,962 27,089	35,261 12,839	14,324	21,211	70,796 32,330	314,409 156.044
1990 Total	778 570	558	3,652 2.024	3,152	12,061 7,678	10,435 7,524	4,593 2.790	27,089 17,992	8,248	11,246 8,082	8,245 4,814	32,330 21,144	117,156
2000 Total	288	657	1,341	2,286	7,802	16,394	2,805	27,001	8.090	17,051	4,146	29,287	144,425
2001 Total	357	1,052	1,733	3,142	8,531	21,020	2,865	32,416	8,888	22,072	4,598	35,558	180,141
2002 Total	258	844	1,282	2,384	6,517	16,498	2,472	25,487	6,775	17,342	3,754	27,871	145,159
2003 Total	350	997	1,297	2,644	7,779	19,725	2,685	30,189	8,129	20,722	3,982	32,833	177,239
2004 Total	383 539	1,671 2,141	1,350 1,462	3,404 4,142	8,406 10,240	22,515 26,449	2,732 3,191	33,653 39,880	8,789 10,779	24,186 28,590	4,082 4,653	37,057 44,022	204,279 240,307
2006 Total	646	2,141	1,402	4,142	12,739	30.382	3,659	46,780	13.385	32.838	5,206	51.429	282.675
2007 Total	808	2,794	1,582	5,184	12,563	29,925	3,399	45,887	13,371	32,719	4,981	51,071	301,515
2008 January	88	208	144	440	1,111	2,321	272	3,704	1,199	2,529	416	4,144	25,306
February	82	230	107	419	1,080	2,261	247	3,588	1,162	2,491	354	4,007	24,958
March April	66 68	216 189	127 130	409 387	1,132 1,177	2,363 2,415	271 281	3,766 3,873	1,198 1,245	2,579 2,604	398 411	4,175 4,260	26,226 26,920
May	88	206	124	418	1,317	2,413	240	4,006	1,405	2,655	364	4,424	27,947
June	63	195	139	397	1,428	2,540	299	4,267	1,491	2,735	438	4,664	28,739
July	79	163	171	413	1,439	2,695	344	4,478	1,518	2,858	515	4,891	29,140
August	67	165	144	376	1,448	2,735	379	4,562	1,515	2,900	523	4,938	28,942
September	52 80	166 243	164 173	382 496	1,488 1,549	2,667 2,841	355 373	4,510 4,763	1,540 1,629	2,833 3.084	519 546	4,892 5,259	28,960 31.505
October November	97	192	160	496 449	1,361	2,641	334	4,763	1,629	2,610	494	4,562	29,276
December	67	172	132	371	1,206	2,196	313	3,715	1,273	2,368	445	4.086	26,222
Total	897	2,345	1,715	4,957	15,736	29,901	3,708	49,345	16,633	32,246	5,423	54,302	334,141
2009 January	80	171	99	350	1,192	2,253	250	3,695	1,272	2,424	349	4,045	28,077
February March	62 59	125 146	88 88	275 293	991 867	1,925 1,771	195 210	3,111 2,848	1,053 926	2,050 1,917	283 298	3,386 3,141	25,440 25,304
April	36	68	93	197	755	1,396	205	2,356	791	1,464	298	2,553	21,406
May	47	90	80	217	584	1,136	156	1,876	631	1,226	236	2,093	20,055
June	44	91	75	210	804	1,297	189	2,290	848	1,388	264	2,500	16,301
July	40	100	101	241	789	1,188	217	2,194	829	1,288	318	2,435	13,543
August September	49 61	84 71	88 96	221 228	867 945	1,372 1,170	207 207	2,446 2,322	916 1,006	1,456 1,241	295 303	2,667 2,550	15,970 15,547
October	55	71	78	212	966	1,170	222	2,355	1,000	1,241	300	2,567	17,261
November	38	83	85	206	931	1,133	199	2,263	969	1,216	284	2,469	16,236
December	34	98	84	216	894	1,074	213	2,181	928	1,172	297	2,397	16,424
Total	605	1,206	1,055	2,866	10,585	16,882	2,470	29,937	11,190	18,088	3,525	32,803	231,562
2010 January	55 44	91 71	81 67	227 182	898 871	1,264 1.096	169 144	2,331 2.111	953 915	1,355 1.167	250 211	2,558 2,293	15,304 16.862
March	59	85	88	232	1,062	1,224	216	2,502	1,121	1,309	304	2,734	15,102
April	49	78	77	204	1,173	1,152	249	2,574	1,222	1,230	326	2,778	17,904
May	48	107	86	241	1,282	1,208	255	2,745	1,330	1,315	341	2,986	17,987
June	61	100	90	251	1,385	1,250	302	2,937	1,446	1,350	392	3,188	19,408
July	46 56	103 104	105 94	254 254	1,386 1,434	1,443 1,402	390 314	3,219	1,432 1,490	1,546 1,506	495 408	3,473 3,404	20,847 22,923
August September	56 57	73	88	218	1,434	1,402	268	3,150 3,000	1,490	1,431	356	3,404	23,037
October	75	87	117	279	1,502	1,463	283	3,248	1,577	1,550	400	3,527	22,123
November	62	114	103	279	1,400	1,352	263	3,015	1,462	1,466	366	3,294	24,561
December	57	92	70	219	1,317	1,379	243	2,939	1,374	1,471	313	3,158	23,189
Total	669	1,105	1,066	2,840	15,084	15,591	3,096	33,771	15,753	16,696	4,162	36,611	239,247

Notes: • Data are estimates. • For 1960–1969, data are for well completion reports received by the American Petroleum Institute during the reporting year; for all other years, data are for well completions in a given year. • Through 1989, these well counts include only the original drilling of a hole intended to discover or further develop already discovered crude oil or natural gas resources. Other drilling activities, such as drilling an old well deeper, drilling of laterals from the original well, drilling of service and injection wells, and drilling for resources other than crude oil or natural gas are excluded. Beginning in 1990, a new well is defined as the first hole in the ground whether it is lateral or not. Due to the methodology used to estimate ultimate well counts from the available partially reported data, the counts shown on this page are frequently revised. See Note, "Crude Oil and

Natural Gas Exploratory and Development Wells," at end of section. \bullet Geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

beginning in 1973.
Sources:

1949–1965: Gulf Publishing Company, World Oil, "Forecast-Review" issue.

1966–1969: American Petroleum Institute (API), Quarterly Review of Drilling Statistics for the United States, annual summaries and monthly reports.

1970–1989: U.S. Energy Information Administration (EIA) computations based on well reports submitted to the API.

1990 forward: EIA computations based on well reports submitted to the API.

1990 forward: EIA

Data for 2011 forward in this table have been removed while EIA evaluates the quality of the data and the estimation methodology.

Crude Oil and Natural Gas Resource Development

Note. Crude Oil and Natural Gas Exploratory and Development Wells. Three well types are considered in the *Monthly Energy Review* (*MER*) drilling statistics: "completed for crude oil," "completed for natural gas," and "dry hole." Wells that productively encounter both crude oil and natural gas are categorized as "completed for crude oil." Both development wells and exploratory wells (new field wildcats, new pool tests, and extension tests) are included in the statistics. All other classes of wells drilled in connection with the search for producible hydrocarbons are excluded. If a lateral is drilled at the same time as the original hole it is not counted separately, but its footage is included.

Prior to the March 1985 MER, drilling statistics consisted of

completion data for the above types and classes of wells as reported to the American Petroleum Institute (API) during a given month. Due to time lags between the date of well completion and the date of completion reporting to the API, as-reported well completions proved to be an inaccurate indicator of drilling activity. During 1982, for example, as-reported well completions rose, while the number of actual completions fell. Consequently, the drilling statistics published since the March 1985 MER are U.S. Energy Information Administration (EIA) estimates produced by statistically imputing well counts and footage based on the partial data available from the API. These estimates are subject to continuous revision as new data, some of which pertain to earlier months and years, become available. Additional information about the EIA estimation methodology may be found in "Estimating Well Completions," a feature article published in the March 1985 MER.

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