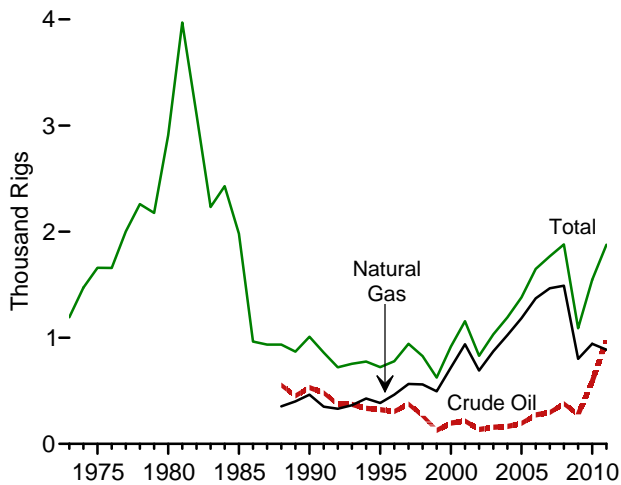


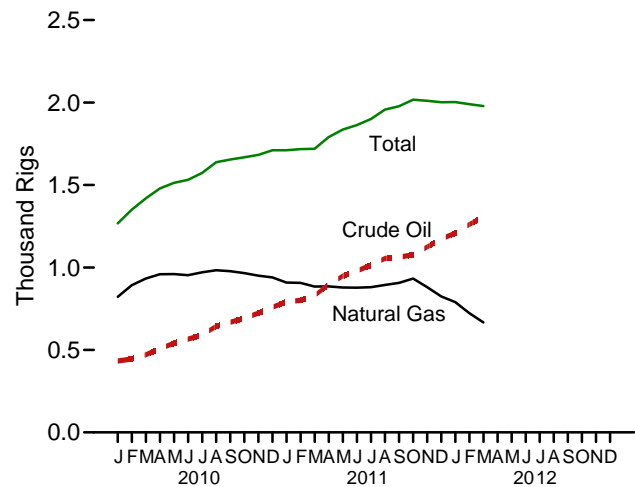
5. Crude Oil and Natural Gas Resource Development

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators

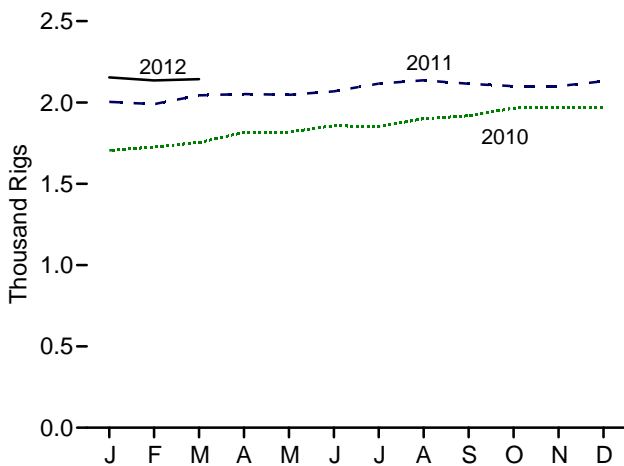
Rotary Rigs in Operation by Type, 1973-2011



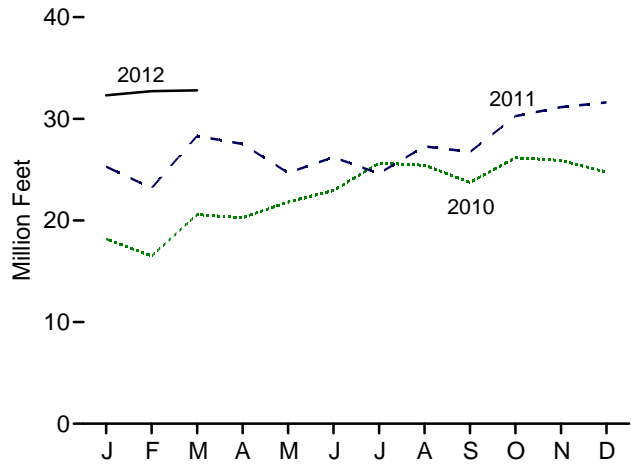
Rotary Rigs in Operation by Type, Monthly



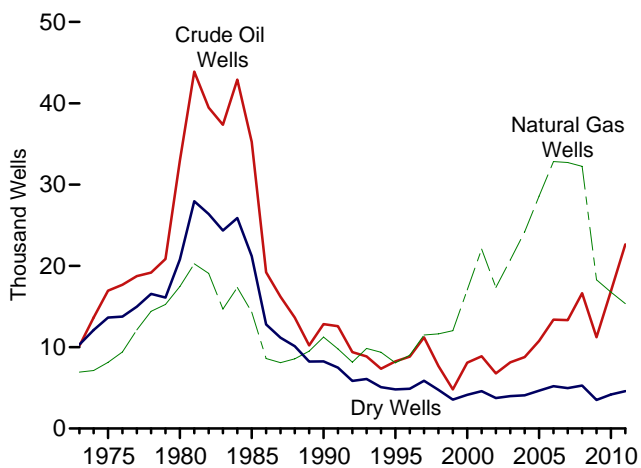
Active Well Service Rig Count, Monthly



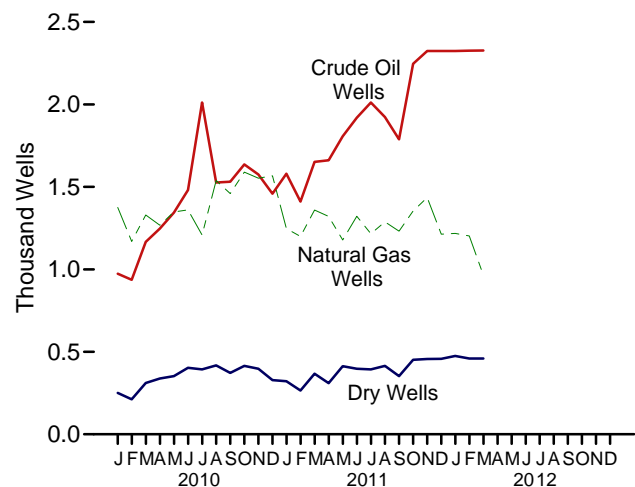
Footage Drilled, Monthly



Total Wells Drilled by Type, 1973-2011



Total Wells Drilled by Type, Monthly



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					Active Well Service Rig Count ^c
	By Site		By Type		Total ^b	
	Onshore	Offshore	Crude Oil	Natural Gas		
1973 Average	1,110	84	NA	NA	1,194	2,008
1975 Average	1,554	106	NA	NA	1,660	2,486
1980 Average	2,678	231	NA	NA	2,909	4,089
1985 Average	1,774	206	NA	NA	1,980	4,716
1990 Average	902	108	532	464	1,010	3,658
1995 Average	622	101	323	385	723	3,041
1996 Average	671	108	306	464	779	3,445
1997 Average	821	122	376	564	943	3,499
1998 Average	703	123	264	560	827	3,014
1999 Average	519	106	128	496	625	2,232
2000 Average	778	140	197	720	918	2,692
2001 Average	1,003	153	217	939	1,156	2,267
2002 Average	717	113	137	691	830	1,830
2003 Average	924	108	157	872	1,032	1,967
2004 Average	1,095	97	165	1,025	1,192	2,064
2005 Average	1,287	94	194	1,184	1,381	2,222
2006 Average	1,559	90	274	1,372	1,649	2,364
2007 Average	1,695	72	297	1,466	1,768	2,388
2008 Average	1,814	65	379	1,491	1,879	2,515
2009 Average	1,046	44	278	801	1,089	1,722
2010						
January	1,225	42	433	822	1,267	1,706
February	1,305	45	446	892	1,350	1,726
March	1,368	51	471	933	1,419	1,754
April	1,426	53	508	959	1,479	1,816
May	1,464	49	541	960	1,513	1,818
June	1,511	20	566	953	1,531	1,857
July	1,558	15	591	971	1,573	1,852
August	1,619	20	644	983	1,638	1,900
September	1,635	19	668	977	1,655	1,918
October	1,647	21	693	966	1,668	1,965
November	1,662	22	723	950	1,683	1,971
December	1,687	24	759	940	1,711	1,968
Average	1,514	31	591	943	1,546	1,854
2011						
January	1,686	26	793	909	1,711	2,004
February	1,692	26	801	907	1,718	1,990
March	1,694	26	830	884	1,720	2,044
April	1,762	28	896	885	1,790	2,052
May	1,804	32	948	878	1,836	2,047
June	1,829	34	979	877	1,863	2,069
July	1,865	35	1,014	880	1,900	2,116
August	1,923	35	1,055	894	1,957	2,136
September	1,946	32	1,063	907	1,978	2,115
October	1,982	35	1,077	933	2,017	2,100
November	1,974	37	1,125	880	2,011	2,100
December	1,960	42	1,173	824	2,002	2,131
Average	1,844	32	980	888	1,876	2,075
2012						
January	1,961	42	1,208	790	2,003	2,154
February	1,949	42	1,261	723	1,990	2,135
March	1,935	43	1,307	667	1,979	2,143
3-Month Average	1,947	42	1,262	722	1,990	2,144
2011 3-Month Average	1,691	26	808	900	1,716	2,013
2010 3-Month Average	1,299	46	450	882	1,345	1,729

^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.

^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.

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> for all available data beginning in 1973.
 Sources: • **Rotary Rigs in Operation: By Site**—Baker Hughes, Inc., Houston, Texas, *Rotary Rigs Running—by State*. • **By Type**—Baker Hughes, Inc., Houston, Texas, weekly phone recording. • **Active Well Service Rig Count**: Cameron International Corporation, Houston, Texas. See <http://www.c-i-m.com/Forms/Product.aspx?prodID=cdc209c4-79a3-47e5-99c2-fdeda6d4aad6>.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

	Wells Drilled												Total Footage Drilled Thousand Feet
	Exploratory				Development				Total				
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	
Number													
1973 Total	642	1,067	5,952	7,661	9,525	5,866	4,368	19,759	10,167	6,933	10,320	27,420	138,223
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	1,200	8,954	11,834	33,581	13,124	12,257	58,962	35,261	14,324	21,211	70,796	314,409
1990 Total	778	811	3,652	5,241	12,061	10,435	4,593	27,089	12,839	11,246	8,245	32,330	156,056
1995 Total	570	558	2,024	3,152	7,678	7,524	2,790	17,992	8,248	8,082	4,814	21,144	117,186
1996 Total	489	576	1,956	3,021	8,347	8,451	2,934	19,732	8,836	9,027	4,890	22,753	126,369
1997 Total	491	562	2,113	3,166	10,715	10,936	3,761	25,412	11,206	11,498	5,874	28,578	161,300
1998 Total	327	566	1,590	2,483	7,355	11,073	3,171	21,599	7,682	11,639	4,761	24,082	137,241
1999 Total	197	570	1,157	1,924	4,608	11,457	2,393	18,458	4,805	12,027	3,550	20,382	102,845
2000 Total	288	657	1,341	2,286	7,802	16,394	2,805	27,001	8,090	17,051	4,146	29,287	144,439
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	180,116
2002 Total	258	844	1,282	2,384	6,517	16,498	2,472	25,487	6,775	17,342	3,754	27,871	145,171
2003 Total	350	997	1,297	2,644	7,779	19,725	2,685	30,189	8,129	20,722	3,982	32,833	177,258
2004 Total	383	1,671	1,350	3,404	8,406	22,515	2,732	33,653	8,789	24,186	4,082	37,057	204,277
2005 Total	539	2,141	1,462	4,142	10,240	26,449	3,191	39,880	10,779	28,590	4,653	44,022	240,334
2006 Total	646	2,456	1,547	4,649	12,739	30,382	3,659	46,780	13,385	32,838	5,206	51,429	282,696
2007 Total	808	2,794	1,582	5,184	12,522	29,925	3,396	45,843	13,330	32,719	4,978	51,027	301,327
2008 Total	897	2,345	1,715	4,957	15,736	29,901	3,569	49,206	16,633	32,246	5,284	54,163	333,518
2009 Total	R 605	R 1,206	R 1,060	R 2,871	R 10,630	R 17,083	R 2,448	R 30,161	R 11,235	R 18,289	R 3,508	R 33,032	R 217,899
2010 January	R 56	91	82	R 229	918	1,284	R 169	R 2,371	R 974	1,375	R 251	R 2,600	R 18,167
February	R 45	71	R 68	R 184	892	R 1,098	R 144	R 2,134	R 937	R 1,169	R 212	R 2,318	R 16,508
March	58	85	91	234	1,109	1,245	220	2,574	1,167	1,330	311	2,808	R 20,574
April	49	R 78	R 80	207	1,198	1,189	258	2,645	1,247	R 1,267	R 338	R 2,852	R 20,269
May	R 48	107	89	R 244	1,296	1,241	264	2,801	R 1,344	1,348	353	R 3,045	R 21,806
June	61	R 100	94	R 255	1,420	R 1,261	309	R 2,990	1,481	R 1,361	403	R 3,245	R 22,939
July	46	103	R 110	R 259	1,415	1,443	R 400	R 3,258	1,461	1,546	R 510	R 3,517	R 24,988
August	59	104	97	260	1,467	1,434	321	3,222	1,526	1,538	418	3,482	R 25,435
September	60	73	93	226	1,471	1,387	279	3,137	1,531	1,460	372	3,363	R 23,751
October	72	87	123	282	1,564	1,503	R 292	R 3,359	1,636	1,590	R 415	R 3,641	R 26,167
November	65	114	109	288	1,510	1,439	288	3,237	1,575	1,553	397	3,525	R 25,901
December	57	92	70	219	1,402	1,475	258	3,135	1,459	1,567	328	3,354	R 24,757
Total	676	R 1,105	R 1,106	R 2,887	15,662	R 15,999	R 3,202	R 34,863	16,338	R 17,104	R 4,308	R 37,750	R 271,262
2011 January	66	73	87	226	1,514	1,174	235	2,923	1,580	1,247	322	3,149	R 25,283
February	64	R 57	64	R 185	1,347	1,143	201	2,691	1,411	R 1,200	265	R 2,876	R 23,184
March	71	75	70	216	1,581	1,285	297	3,163	1,652	1,360	367	3,379	R 28,310
April	R 68	68	62	R 198	1,593	1,253	248	3,094	R 1,661	1,321	310	R 3,292	R 27,529
May	87	83	90	260	1,720	R 1,095	323	R 3,138	1,807	R 1,178	413	R 3,398	R 24,695
June	80	R 90	73	R 243	1,839	1,232	324	3,395	1,919	R 1,322	397	R 3,638	R 26,218
July	94	R 70	116	R 280	1,918	1,138	277	3,333	2,012	R 1,208	393	R 3,613	R 25,637
August	R 72	87	81	R 240	1,851	1,201	334	3,386	R 1,923	1,288	415	R 3,626	R 27,282
September	R 82	R 69	R 83	R 234	R 1,706	R 1,163	R 270	R 3,139	R 1,788	R 1,232	R 353	R 3,373	R 26,735
October	R 86	96	110	R 292	2,160	R 1,258	342	R 3,760	R 2,246	R 1,354	452	R 4,052	R 30,263
November	109	81	118	308	2,215	1,354	338	3,907	2,324	1,435	456	4,215	R 31,143
December	109	R 68	119	R 296	2,215	1,145	338	3,698	2,324	R 1,213	457	R 3,994	R 31,617
Total	R 988	R 917	R 1,073	R 2,978	R 21,659	R 14,441	R 3,527	R 39,627	R 22,647	R 15,358	R 4,600	R 42,605	R 327,896
2012 January	109	67	137	313	2,215	1,151	338	3,704	2,324	1,218	475	4,017	R 32,310
February	110	R 51	120	R 281	2,216	R 1,151	339	R 3,706	2,326	R 1,202	459	R 3,987	R 32,716
March	110	46	120	276	2,217	919	339	3,475	2,327	965	459	3,751	32,797
3-Month Total	329	164	377	870	6,648	3,221	1,016	10,885	6,977	3,385	1,393	11,755	97,823
2011 3-Month Total	201	205	221	627	4,442	3,602	733	8,777	4,643	3,807	954	9,404	76,777
2010 3-Month Total	159	247	241	647	2,919	3,627	533	7,079	3,078	3,874	774	7,726	55,249

R=Revised.

Notes: • Prior to 1990, 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. After 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. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#crude> for all available data beginning in 1973.

Sources: • **1973-1989:** U.S. Energy Information Administration (EIA) computations based on well reports submitted to the American Petroleum Institute. • **1990 forward:** EIA computations based on well reports submitted to IHS, Inc., Denver, CO.

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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