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# 1996

## **Summary of U.S. Occupational Injuries, Illnesses, and Fatalities in the Petroleum Industry**

**As Reported to the  
American Petroleum Institute**

**Covering U.S. Petroleum and Petrochemical  
Operations of Reporting Companies for 1996**

API Publication 2375  
September 1997 Revised



One of the most significant long-term trends affecting the future vitality of the petroleum industry is the public's concerns about the environment. Recognizing this trend, API member companies have developed a positive, forward looking strategy called STEP: Strategies for Today's Environmental Partnership. This program aims to address public concerns by improving industry's environmental, health and safety performance; documenting performance improvements; and communicating them to the public. The foundation of STEP is the API Environmental Mission and Guiding Environmental Principles. API standards, by promoting the use of sound engineering and operational practices, are an important means of implementing API's STEP program.

## **API ENVIRONMENTAL MISSION AND GUIDING ENVIRONMENTAL PRINCIPLES**

The members of the American Petroleum Institute are dedicated to continuous efforts to improve the compatibility of our operations with the environment while economically developing energy resources and supplying high quality products and services to consumers. The members recognize the importance of efficiently meeting society's needs and our responsibility to work with the public, the government, and others to develop and to use natural resources in an environmentally sound manner while protecting the health and safety of our employees and the public. To meet these responsibilities, API members pledge to manage our businesses according to these principles:

- To recognize and to respond to community concerns about our raw materials, products and operations.
- To operate our plants and facilities, and to handle our raw materials and products in a manner that protects the environment, and the safety and health of our employees and the public.
- To make safety, health and environmental considerations a priority in our planning, and our development of new products and processes.
- To advise promptly appropriate officials, employees, customers and the public of information on significant industry-related safety, health and environmental hazards, and to recommend protective measures.
- To counsel customers, transporters and others in the safe use, transportation and disposal of our raw materials, products and waste materials.
- To economically develop and produce natural resources and to conserve those resources by using energy efficiently.
- To extend knowledge by conducting or supporting research on the safety, health and environmental effects of our raw materials, products, processes and waste materials.
- To commit to reduce overall emissions and waste generation.
- To work with others to resolve problems created by handling and disposal of hazardous substances from our operations.
- To participate with government and others in creating responsible laws, regulations and standards to safeguard the community, workplace and environment.
- To promote these principles and practices by sharing experiences and offering assistance to others who produce, handle, use, transport or dispose of similar raw materials, petroleum products and wastes.



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**Covering U.S. Petroleum and Petrochemical  
Operations of Reporting Companies for 1996**

**Prepared for the Health and Environmental Affairs Department  
by the Finance, Accounting and Statistics Department**

API Publication 2375  
September 1997 Revised

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Suggested revisions are invited and should be submitted to the director of the Health and Environmental Affairs Department, American Petroleum Institute, 1220 L Street, N.W., Washington, D.C. 20005.

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## REPORTED U.S. OCCUPATIONAL INJURIES, ILLNESSES, AND FATALITIES IN THE PETROLEUM INDUSTRY: 1996

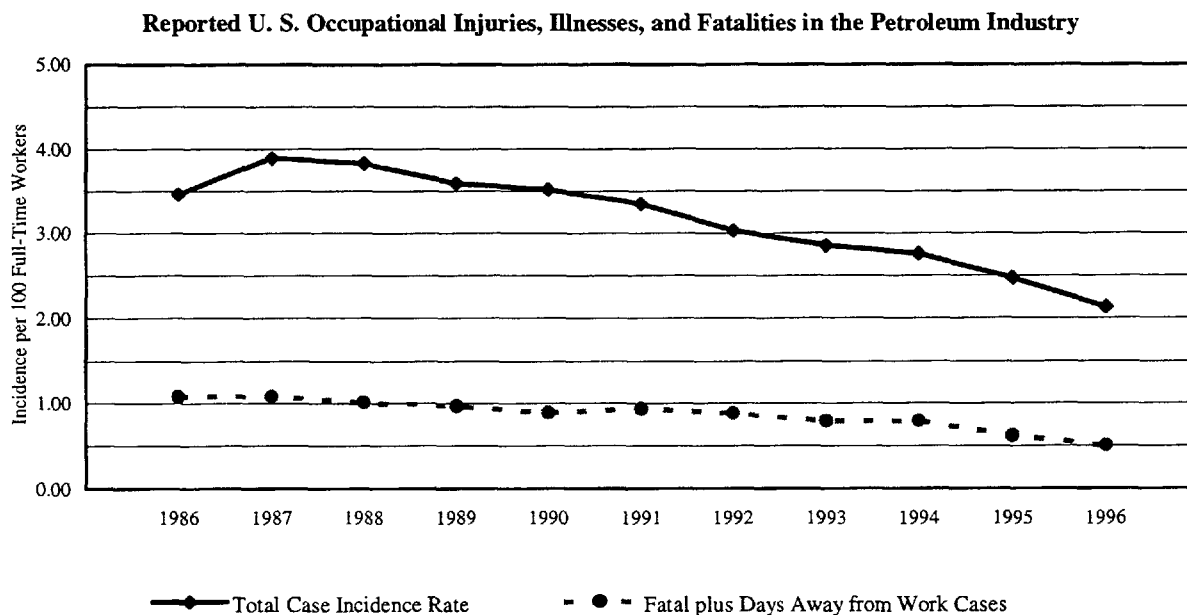
### SUMMARY

This report is an aggregate of data submitted to the American Petroleum Institute (API) by 140 oil and gas companies (including 12 subsidiaries), employing 228,209 persons with a total work experience of 463 million hours during 1996. In 1995, 172 companies reported 261,183 employees with a work experience of 535 million hours. Individual company participation varies from year to year, yet 90 companies, representing 97 percent of the number of employees and 96 percent of the number of hours worked in 1996 had responded to this survey for the past 2 years.

In 1996, the *Total Case Incidence Rate* was 2.13, compared to 2.47 for 1995. This rate is the number of total recordable cases per 200,000 hours worked, or approximately the number of cases per 100 full-time workers per year.

The *Fatal Plus Days Away From Work Incidence Rate* for 1996 was .50 per 200,000 hours worked—or one case for every 200 employees, improving from .62 for 1995—or one case for every 161 employees.

Safety among reporting companies continues to improve, as shown in the figure below. Since 1986, the *Total Case Incidence Rate* and *Fatal plus Days Away from Work Incidence Rate* have improved an average of 4.5 and 7.1 percent per year, respectively.



## The Survey

Company participation in the API annual statistical survey is voluntary. Participants were asked to submit data according to the Bureau of Labor Statistics (BLS) Recordkeeping Guidelines for Occupations Injuries and Illnesses, September 1986 edition. Therefore, this report provides incidence rates per 200,000 hours worked on the same basis as those reported by BLS. It should be noted, however, that this report covers *company employees* only; contract worker safety statistics are not included.

Significant differences exist among companies regarding return-to-work policies and practices, i.e., for returning injured or ill employees to restricted activity if they are unable to perform normal job activities and as part of their recoveries. Therefore, use of the *Fatal plus Days Away From Work Incidence Rates* alone to judge and compare company safety performance is not recommended.

The Bureau of Labor Statistics (BLS) publishes employment figures for different sectors of the petroleum industry. The following table shows the number of full-time employees given in this API report and the comparative total employment figures published by BLS. These figures can be used to calculate the API survey representation rate.

Employment in the Petroleum Industry				
	E&P and Drilling	Refining and Gas Processing	Oil Pipelines	Total Marketing
API	41.9	51.0	12.0	53.6
BLS	310.7	98.0	13.6	827.9
Representation Rate	13%	57%	95%	6%

*Employment figures are in thousands. 1996 BLS figures are current as of April 1997*

Caution should be used, however, when interpreting these representation rates. As mentioned above, the API survey is limited to *company employees* while the BLS has a more inclusive definition of employment (the BLS includes contract workers).

Of the 140 companies that responded, 83 agreed to have their company data published individually. However, the total listed for each function is the total for *all* reporting companies—not just the sum of the individual companies appearing in that section of the report.

Additional copies of this report may be obtained by contacting the API Publications and Distribution Department at (202) 682-8375.





**U.S. Occupational Injuries and Illnesses for 1996**  
**Covering Petroleum and Petrochemical Operations of Reporting Companies**

**Table 1 -- Total (Including Offshore Activities)**

1	Function	K e y <sup>5</sup>	2	3	4			5							6		
					Recordable Cases			Extent and Outcome of Injury and Illness							Incidence Rates		
					a	b	c	d	e	f	g	h	i	j	k	l	
			Injuries	Illnesses	Total	Fatalities	Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal plus Days Away from Work Cases	Lost Work days-- Days Away From Work			
Exploration	a		979	1,903	11	1	13	0	5	5	78	0	7	1.26	0.53	8.20	
Production	b		12,774	27,915	258	32	290	1	141	77	1,898	1,797	148	2.08	0.56	13.00	
E&P-Not sep <sup>1</sup>	ab		27,728	57,100	420	38	458	3	221	182	3,669	743	234	1.60	0.65	12.35	
E&P Subtotal			41,481	86,918	689	71	760	4	367	264	5,646	2,540	389	1.75	0.62	12.99	
Gas Processing	c		4,722	8,928	72	12	84	0	34	21	949	279	50	1.85	0.47	21.26	
Drilling	d		397	809	27	0	27	0	16	8	68	75	11	6.67	1.98	16.81	
Petrochemical Mfg	e		17,895	37,646	330	25	355	0	183	68	1,333	2,695	172	1.89	0.96	7.08	
Refining	f		46,290	97,783	1,229	66	1,295	2	651	252	6,705	9,811	642	2.65	0.62	13.71	
Marketing-Whole.	g		12,242	25,145	386	12	398	0	257	105	2,357	2,313	141	3.17	0.84	13.75	
Marketing-Retail	h		22,110	38,587	1,008	15	1,023	1	456	136	2,010	4,821	568	5.30	0.71	10.42	
Mkt.-Not sep <sup>2</sup>	gh		19,228	38,166	216	29	245	0	122	66	1,319	838	123	1.25	0.35	6.91	
Mkt. Subtotal			63,550	101,498	1,610	56	1,666	1	835	297	5,686	7,972	890	3.27	0.60	11.16	
Pipeline-Liquid	i		11,995	24,035	218	17	235	0	106	79	1,966	848	129	1.86	0.66	16.88	
Pipeline-Gas	j		80	166	8	0	8	0	4	4	189	15	4	9.64	4.82	227.71	
Pipeline-Not sep <sup>3</sup>	ii		2,718	5,651	82	8	90	0	37	26	254	253	53	3.19	0.92	8.99	
Pipeline Subtotal			14,793	29,852	308	25	333	0	147	109	2,409	3,116	186	2.23	0.78	16.14	
Marine-Tanker	k		544	1,202	17	3	20	0	3	3	194	0	17	3.33	0.50	32.28	
Marine-Inland	l		444	612	23	1	24	0	9	4	181	19	15	7.84	1.31	58.16	
Marine-Not sep <sup>4</sup>	kl		1,469	3,619	25	0	25	0	19	8	599	70	6	1.38	0.44	33.10	
Marine Subtotal			2,457	5,433	65	4	69	0	31	15	874	89	38	2.54	0.56	35.86	
Research & Dev.	m		7,614	15,433	66	14	80	0	20	16	94	486	60	1.04	0.21	1.22	
General Services	n		3,131	6,210	48	1	49	0	28	21	421	389	21	1.58	0.68	13.56	
Admin., Eng., Other	o		35,849	72,338	157	64	221	0	91	73	1,808	1,114	130	0.61	0.30	5.00	
Total			228,309	463,248	4,601	338	4,939	7	2,403	1,154	25,092	26,596	2,529	2.13	0.50	11.36	



**U.S. Occupational Injuries and Illnesses for 1996**  
**Covering Petroleum and Petrochemical Operations of Reporting Companies**

**Table 2 -- Offshore Activities**

1	2	3	4			5										6		
			Recordable Cases			Extent and Outcome of Injury and Illness										Incidence Rates		
			a	b	c	d	e	f	g	h	i	j	k	l				
															Lost Workday Cases			
Function	K Average Number of Employees	Hours Worked (Thousands)	Injuries	Illnesses	Total	Fatalities	Total Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Total Cases	Fatal plus Days Away from Work Cases	Lost Work days-- Days Away From Work Cases					
Offshore Exploration	a	16	0	0	0	0	0	0	0	0	0.00	0.00	0.00					
Offshore Production	b	2,887	63	6	69	0	38	22	741	438	31	2.23	0.71	22.92				
Offshore Drilling	d	360	3	0	3	0	0	0	0	0	3	0.83	0.00	0.00				
Combinations of Above-Not Sep <sup>e</sup>	abd	4,380	88	2	90	0	53	40	480	182	37	1.99	0.69	10.62				
Total Offshore		7,643	154	8	163	0	91	62	1,221	620	71	2.08	0.78	15.27				

**Incidence Rate Formulas**

$$\text{Column 6(j)} = \frac{\text{Column 4(c)} \times 200}{\text{Column 3}}$$

$$\text{Column 6(k)} = \frac{(\text{Column 5(d)} + \text{Column 5(f)}) \times 200}{\text{Column 3}}$$

$$\text{Column 6(l)} = \frac{\text{Column 5(g)} \times 200}{\text{Column 3}}$$

**Endnotes**

- <sup>1</sup> E&P data unable to be separated into Exploration or Production functions.
- <sup>2</sup> Marketing data unable to be separated into Wholesale or Retail functions.
- <sup>3</sup> Pipeline data unable to be separated into Liquid or Gas functions.
- <sup>4</sup> Marine data unable to be separated into Tanker or Inland.
- <sup>5</sup> Keyed to definitions outlined in the API Fire and Safety Data System User's Manual.
- <sup>6</sup> Exploration, Production, and Drilling data unable to be separated as listed.
- <sup>\*</sup> Includes restricted activity.

# U.S. Occupational Injuries and Illnesses for 1996 Covering Petroleum and Petrochemical Operations of Reporting Companies

a - Exploration  
 b - Production  
 (ab) - Exploration & Production - Not Sep.  
 c - Gas Processing  
 d - Drilling  
 e - Petrochemical Manufacturing  
 f - Refining  
 g - Marketing - Wholesale  
 h - Marketing - Retail  
 (gh) - Marketing - Not Sep.  
 i - Pipeline - Liquid  
 j - Pipeline - Gas  
 (ij) - Pipeline - Not Sep.  
 k - Marine - Tanker  
 l - Marine - Inland  
 (kl) - Marine - Not Sep.  
 m - Research & Development  
 n - General Services  
 o - Admin., Engineering, & Other

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness						Incidence Rates																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

## All Functions

Total	228,209	463,248	4,601	338	4,939	7	2,403	1,154	26,092	26,566	2,529	2.13	0.50	11.26
11	2,651	5,483	72	2	74	0	42	12	213	741	32	2.70	0.44	7.77 (ab),e,f,g,h,i,j),m,o
13	25,964	45,532	1,201	36	1,237	1	581	123	2,456	6,218	655	5.43	0.54	10.79 b,e,f,g,h,i,j),m,n,o
14	9,287	20,174	135	8	143	0	60	35	875	661	83	1.42	0.35	8.67 a,(ab),b,c,d,f,(gh),i,k,m,n,o
17	625	1,371	24	4	28	0	17	14	428	65	11	4.08	2.04	62.44 i
24	22,955	45,342	287	82	369	1	212	193	3,146	2,168	156	1.63	0.86	13.88 (ab),c,e,f,(gh),i,j),m,n,o
27	1,112	2,301	9	2	11	0	6	6	88	0	5	0.96	0.52	7.65 (ab),o
29	658	1,356	9	0	9	0	5	5	97	0	4	1.33	0.74	14.31 i
32	11,165	23,220	115	6	121	0	60	16	964	720	61	1.04	0.14	8.30 (ab),c,e,f,(gh),i,(kl),m,n,o
33	16	33	1	0	1	0	0	0	0	0	1	6.06	0.00	0.00 i
38	128	266	3	0	3	0	1	1	54	241	2	2.26	0.75	40.60 i
41	17,387	35,510	194	12	206	0	125	24	791	2,087	81	1.16	0.14	4.46 b,f,(gh),i,(kl),n,o
43	388	894	61	5	66	0	11	11	218	0	55	14.77	2.46	48.77 f
58	755	2,240	11	1	12	0	4	4	27	21	8	1.07	0.36	2.41 a,b
60	371	779	3	0	3	0	0	0	0	0	3	0.77	0.00	0.00 i

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

# All Functions

(Cont.)

65	6,868	13,107	97	2	99	0	39	10	300	578	60	1.51	4.58
73	1,542	3,325	84	3	87	0	58	24	349	630	29	5.23	a,b,c,d,f,g,i,m,n,o
74	327	667	16	0	16	0	5	5	191	15	11	4.80	e,f,g,i,m,o
90	17,029	35,404	248	21	269	1	115	55	1,280	782	153	1.52	57.27 j,n,o
91	255	504	1	0	1	0	1	1	1	0	0	0.40	7.23 (ab),c,e,f,g,h,i,m,n,o
93	47	89	1	0	1	0	1	1	149	0	0	2.25	0.40 i
99	18,299	36,304	147	27	174	0	83	25	834	1,554	91	0.96	334.83 i,o
106	20,763	43,189	306	19	325	2	154	60	1,236	2,233	169	1.51	4.59 a,b,c,d,e,f,g,i,m,o
109	14,054	29,691	270	40	310	1	127	85	1,101	1,008	182	2.09	5.72 (ab),e,f,(gh),i,(kl),o
118	5,319	10,170	177	0	177	0	68	28	511	931	109	3.48	7.42 (ab),b,c,f,g,(gh),h,(ij),m,o
126	728	1,426	16	4	20	0	2	2	143	0	18	2.81	10.05 (ab),f,(gh),(ij),(kl),o
140	660	1,320	19	0	19	0	15	15	680	0	4	2.88	20.06 i
233	980	2,017	12	4	16	0	5	5	106	0	11	1.59	103.03 (ab)
239	485	983	5	0	5	0	1	1	53	0	4	1.02	10.51 i
258	20	48	1	0	1	0	1	1	3	5	0	4.17	10.78 i
260	50	103	2	0	2	0	0	0	0	0	2	3.88	12.50 i
261	30	65	0	0	0	0	0	0	0	0	0	0.00	0.00 i
301	55	3	0	0	0	0	0	0	0	0	0	0.00	0.00 i
10001	3,891	8,512	70	9	79	0	30	4	70	570	49	1.86	1.64 (ab),e,f,g,i,o
10014	28	56	0	0	0	0	0	0	0	0	0	0.00	0.00 i

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness						Incidence Rates					
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays- Days Away From Work		
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity						
All Functions (Cont.)																
10015	69	128	1	0	1	0	0	0	0	0	0	1	1.56	0.00	0.00	0.00 i
10030	5	15	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00 a
10203	5	10	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00 b
10218	2	4	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00 a,b
10403	12	29	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00 i
10412	3	3	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00 b
10420	21,861	44,792	449	9	458	0	269	175	3,785	2,531	189	2.05	0.78	0.78	16.90	(ab),e,f,g,h,(ij),(kl),m,o
10421	3,216	7,393	49	2	51	0	22	22	1,316	0	29	1.38	0.60	0.60	35.60	f,g,h
10509	2	4	1	0	1	0	1	1	2	2	0	50.00	50.00	50.00	100.00	(ab)
10519	2	4	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	(ab),o
10523	3	4	1	0	1	0	1	1	20	30	0	50.00	50.00	50.00	1,000.00	b
10534	9	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	a,b
10540	93	176	4	0	4	0	3	3	5	6	1	4.55	3.41	3.41	5.68	f
10544	58	121	2	0	2	0	0	0	0	0	2	3.31	0.00	0.00	0.00	i
10560	30	51	1	0	1	0	0	0	0	0	1	3.92	0.00	0.00	0.00	(ab),o
10570	118	241	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	i
10575	575	1,106	17	5	22	0	11	8	86	91	11	3.98	1.45	1.45	15.55	f,i
10607	10	14	0	4	4	0	4	1	4	3	0	57.14	14.29	14.29	57.14	(ab),b,o
10608	33	68	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	b,c
10611	6	15	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	b

## All Functions (Cont.)

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates			
			Injuries	Illnesses	Total	Lost Workday Cases				Fatal Plus Days Away From Work Cases	Lost Workdays- Days Away From Work Cases		
						Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				

## All Functions

(Cont.)

10616	169	316	11	0	11	0	5	4	149	25	6	2.53	94.30 i,o
10617	511	1,023	15	4	19	0	8	2	45	117	11	0.39	8.80 b,c,d,o
10620	483	1,065	3	0	3	0	1	1	4	0	2	0.19	0.75 c,i,o
10622	483	1,012	17	0	17	0	6	6	72	24	11	1.19	14.23 c,(gh),i,o
10626	1,349	3,265	34	3	37	0	19	7	450	426	18	0.43	27.57 f
10629	170	356	2	0	2	0	0	0	0	0	2	0.00	0.00 c,e,g,(ij),o
10645	739	1,487	16	2	18	0	12	11	173	271	6	1.48	23.27 f,g,h,i,o
11564	48	101	1	0	1	0	0	0	0	0	1	0.00	0.00 i
12421	102	240	0	0	0	0	0	0	0	0	0	0.00	0.00 i
13421	31	84	1	0	1	0	0	0	0	0	1	0.00	0.00 i
20006	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00 (ab)
20029	366	814	18	0	18	0	4	4	29	14	14	0.98	7.13 f,g,h,i
20032	48	96	1	0	1	0	1	1	17	0	0	2.08	35.42 (ab)
20035	72	151	0	0	0	0	0	0	0	0	0	0.00	0.00 i
20037	5	10	0	0	0	0	0	0	0	0	0	0.00	0.00 i
20038	1,077	2,288	11	0	11	0	4	4	143	0	7	0.35	12.50 (ab)
20050	2	3	0	0	0	0	0	0	0	0	0	0.00	0.00 i
20051	25	59	0	0	0	0	0	0	0	0	0	0.00	0.00 i
20111	4	18	1	0	1	0	1	0	0	33	0	0.00	0.00 i
30101	68	155	4	0	4	0	0	0	0	0	4	0.00	0.00 g,i

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness					Incidence Rates		
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

## All Functions

(Cont.)

30103	3	6	0	0	0	0	0	0	0	0	0.00	0.00	0.00 a,b
30107	209	473	4	0	4	0	2	2	54	0	1.69	0.85	22.83 f
30111	184	382	10	0	10	0	6	6	47	0	5.24	3.14	24.61 f
90001	124	307	1	0	1	0	0	0	0	0	0.65	0.00	0.00 i
90024	741	1,434	13	9	22	0	11	6	139	119	3.07	0.84	19.39 (ii)
90041	460	997	1	0	1	0	1	0	0	30	0.20	0.00	0.00 i
90099	700	1,370	4	1	5	0	2	2	239	0	0.73	0.29	34.89 i
90118	96	206	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i,o
99118	22	39	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i,o

U.S. Occupational Injuries and Illnesses for 1996  
Covering Petroleum and Petrochemical Operations of Reporting Companies

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates				
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays	Non-Fatal Cases Without Lost Workdays
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				

**Exploration**

<b>Total</b>	<b>979</b>	<b>1,903</b>	<b>11</b>	<b>1</b>	<b>12</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>78</b>	<b>0</b>	<b>7</b>	<b>1.26</b>	<b>0.53</b>	<b>8.20</b>
14	175	359	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
58	136	287	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
65	286	516	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
99	151	251	0	1	1	0	0	0	0	0	1	0.80	0.00	0.00
10030	5	15	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10218	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10534	4	1	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
30103	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00



Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays- Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work				

### Production

Total	12,774	27,915	258	32	290	1	141	77	1,898	1,797	148	2.08	0.56	13.60
13	374	644	16	0	16	0	10	10	370	32	6	4.97	3.11	114.91
14	344	762	13	0	13	0	8	6	94	54	5	3.41	1.57	24.67
41	3,190	6,899	47	4	51	0	29	4	47	340	22	1.48	0.12	1.36
58	619	1,953	11	1	12	0	4	4	27	21	8	1.23	0.41	2.76
65	1,702	3,363	24	0	24	0	12	3	159	154	12	1.43	0.18	9.46
99	1,685	3,948	13	10	23	0	11	9	78	346	12	1.17	0.46	3.95
109	3,941	8,156	83	15	98	0	41	17	338	678	57	2.40	0.42	8.29
10203	5	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10218	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10412	3	3	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10523	3	4	1	0	1	0	1	1	20	30	0	50.00	50.00	1,000.00
10534	5	9	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10607	4	4	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10608	28	58	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10611	6	15	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates		
			Injuries	Illnesses	Total	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays- Days Away From Work
						Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

## Production (cont.)

10617	114	230	5	0	5	0	0	1	41	13	2	4.35	0.87	35.65
30103	2	4	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

## Exploration and Production -- Not Separated

Total	27,728	57,100	420	38	458	3	221	182	3,669	743	234	1.60	0.65	12.85
11	295	645	3	0	3	0	1	1	14	12	2	0.93	0.31	4.34
14	2,305	4,900	45	1	46	0	13	11	158	112	33	1.88	0.45	6.45
24	5,087	9,783	54	11	65	1	37	35	368	3	27	1.33	0.74	7.52
27	619	1,306	6	1	7	0	6	6	88	0	1	1.07	0.92	13.48
32	1,303	2,709	13	2	15	0	5	2	15	17	10	1.11	0.15	1.11
90	4,373	9,095	25	4	29	0	5	3	248	7	24	0.64	0.07	5.45
106	4,376	9,103	51	9	60	2	26	18	352	93	32	1.32	0.44	7.73
109	327	739	1	1	2	0	0	0	0	0	2	0.54	0.00	0.00

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates				
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays	
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work					Number of Days of Restricted Activity

## Exploration and Production -- Not Separated (cont.)

118	1,491	2,775	57	0	57	0	30	22	374	120	27	1.59	26.96
140	660	1,320	19	0	19	0	15	15	680	0	4	2.27	103.03
10001	404	820	6	1	7	0	3	0	0	93	4	0.00	0.00
10420	2,128	4,538	68	1	69	0	37	30	547	131	32	1.32	24.11
10509	2	4	1	0	1	0	1	1	2	2	0	50.00	100.00
10519	1	3	0	0	0	0	0	0	0	0	0	0.00	0.00
10560	21	38	1	0	1	0	0	0	0	0	1	0.00	0.00
10607	4	4	0	0	0	0	0	0	0	0	0	0.00	0.00
20006	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00
20032	48	96	1	0	1	0	1	1	17	0	0	2.08	35.42
20038	1,077	2,288	11	0	11	0	4	4	143	0	7	0.35	12.50

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates		
			Injuries	Illnesses	Total	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays
						Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

### Gas Processing

<b>Total</b>	<b>4,722</b>	<b>8,928</b>	<b>72</b>	<b>12</b>	<b>84</b>	<b>0</b>	<b>34</b>	<b>21</b>	<b>949</b>	<b>279</b>	<b>50</b>	<b>1.88</b>	<b>0.47</b>	<b>21.26</b>
14	14	30	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
24	884	958	9	0	9	0	4	2	48	15	5	1.88	0.42	10.02
32	601	1,250	3	0	3	0	2	0	0	6	1	0.48	0.00	0.00
65	128	259	1	0	1	0	1	0	0	32	0	0.77	0.00	0.00
90	1,178	2,446	29	1	30	0	14	10	161	78	16	2.45	0.82	13.16
99	593	1,230	9	1	10	0	3	1	120	55	7	1.63	0.16	19.51
109	512	1,049	5	9	14	0	3	3	115	0	11	2.67	0.57	21.93
10608	5	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10617	119	239	3	1	4	0	2	0	0	50	2	3.35	0.00	0.00
10620	307	679	1	0	1	0	0	0	0	0	1	0.29	0.00	0.00
10622	46	87	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10629	19	39	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness					Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				

### Drilling

Total	397	809	27	0	27	0	16	8	68	75	11	6.67	1.98	16.81
14	21	43	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
65	32	62	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
99	102	211	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10617	10	19	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness							Incidence Rates		
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				
Total	17,895	37,646	330	25	355	0	183	68	1,333	2,695	172	1.89	0.36	7.08
11	560	1,292	16	1	17	0	12	2	17	224	5	2.63	0.31	2.63
13	614	1,327	13	4	17	0	5	3	64	14	12	2.56	0.45	9.65
24	2,179	5,457	32	2	34	0	15	14	67	27	19	1.25	0.51	2.46
32	270	562	6	0	6	0	3	1	58	14	3	2.14	0.36	20.64
73	403	957	35	0	35	0	22	4	36	324	13	7.31	0.84	7.52
90	2,665	5,527	77	4	81	0	43	27	473	276	38	2.93	0.98	17.12
99	4,277	7,923	36	0	36	0	19	1	10	457	17	0.91	0.03	0.25
106	4,903	10,198	67	10	77	0	36	3	131	921	41	1.51	0.06	2.57
10001	897	1,794	19	3	22	0	7	1	52	33	15	2.45	0.11	5.80
10420	1,029	2,403	27	1	28	0	21	12	425	405	7	2.33	1.00	35.37
10629	98	206	2	0	2	0	0	0	0	0	2	1.94	0.00	0.00

### Petrochemical Manufacturing

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness						Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				
Refining														
Total	46,290	97,783	1,229	66	1,295	2	651	252	6,705	9,811	642	2.65	0.52	13.71
11	672	1,520	21	0	21	0	14	2	54	243	7	2.76	0.26	7.11
13	1,672	3,303	112	7	119	0	55	12	459	646	64	7.21	0.73	27.79
14	1,529	3,278	13	0	13	0	8	0	0	162	5	0.79	0.00	0.00
24	4,636	9,723	94	1	95	0	60	56	794	881	35	1.95	1.15	16.33
32	2,103	4,374	58	4	62	0	38	12	534	610	24	2.83	0.55	24.42
41	4,120	8,788	65	3	68	0	43	5	98	1,055	25	1.55	0.11	2.23
43	388	894	61	5	66	0	11	11	218	0	55	14.77	2.46	48.77
65	1,696	3,408	42	0	42	0	12	0	0	235	30	2.46	0.00	0.00
73	180	317	17	0	17	0	9	8	95	104	8	10.73	5.05	59.94
90	2,856	5,941	76	9	85	1	40	9	166	375	44	2.86	0.34	5.59
99	4,204	8,303	52	6	58	0	33	4	392	675	25	1.40	0.10	9.44
106	4,944	10,284	121	0	121	0	63	14	498	1,089	58	2.35	0.27	9.68
109	1,990	4,302	72	13	85	1	43	27	482	296	41	3.95	1.30	22.41
118	1,494	2,941	78	0	78	0	24	3	86	537	54	5.30	0.20	5.85
10001	1,355	2,926	33	3	36	0	16	1	5	290	20	2.46	0.07	0.34
10420	4,400	8,800	72	5	77	0	54	21	665	944	23	1.75	0.48	15.11

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness				Incidence Rates				
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays- Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			



Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

## Marketing -- Wholesale

Total	12,242	25,145	386	12	398	0	257	105	2,357	2,313	141	3.17	0.84	18.75	
11	122	215	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
13	5,353	10,929	208	7	215	0	141	42	653	1,081	74	3.93	0.77	11.95	
65	739	1,431	16	0	16	0	9	3	88	105	7	2.24	0.42	12.30	
73	567	1,202	30	1	31	0	25	12	218	183	6	5.16	2.00	36.27	
90	527	1,097	5	2	7	0	1	0	0	7	6	1.28	0.00	0.00	
99	1,831	3,778	24	0	24	0	10	4	161	20	14	1.27	0.21	8.52	
109	216	437	8	1	9	0	6	5	58	14	3	4.12	2.29	26.54	
10001	471	1,178	10	0	10	0	4	2	13	64	6	1.70	0.34	2.21	
10420	1,520	3,040	73	0	73	0	52	29	761	618	21	4.80	1.91	50.07	
10421	629	1,252	6	1	7	0	4	4	345	0	3	1.12	0.64	55.11	
10629	32	64	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
10645	95	197	4	0	4	0	4	4	60	219	0	4.06	4.06	60.91	
20029	11	25	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
30101	20	45	1	0	1	0	0	0	0	0	1	4.44	0.00	0.00	

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness						Incidence Rates		
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				

### Marketing -- Retail

<b>Total</b>	<b>22,110</b>	<b>38,587</b>	<b>1,008</b>	<b>15</b>	<b>1,023</b>	<b>1</b>	<b>456</b>	<b>136</b>	<b>2,010</b>	<b>4,821</b>	<b>566</b>	<b>5.30</b>	<b>0.71</b>	<b>10.42</b>
11	256	540	26	0	26	0	13	6	123	171	13	9.63	2.22	45.56
13	12,973	20,138	774	14	788	1	337	46	652	4,195	450	7.83	0.47	6.48
90	2,341	4,871	20	0	20	0	6	3	39	32	14	0.82	0.12	1.60
109	266	545	1	0	1	0	1	1	1	0	0	0.37	0.37	0.37
10420	5,762	11,524	172	0	172	0	90	72	815	401	82	2.99	1.25	14.14
10421	102	210	4	0	4	0	2	2	267	0	2	3.81	1.90	254.29
10645	261	477	7	1	8	0	5	4	107	22	3	3.35	1.68	44.86
20029	55	125	1	0	1	0	1	1	2	0	0	1.60	1.60	3.20

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

### Marketing -- Not Separated

Total	19,228	38,166	216	29	245	0	122	66	1,319	838	123	1.28	0.35	6.91
14	978	1,878	16	1	17	0	13	3	97	211	4	1.81	0.32	10.33
24	2,892	5,690	37	27	64	0	41	38	585	68	23	2.25	1.34	20.56
32	2,935	6,103	21	0	21	0	5	1	357	48	16	0.69	0.03	11.70
41	5,474	9,918	53	1	54	0	29	2	11	328	25	1.09	0.04	0.22
106	5,106	10,620	56	0	56	0	24	20	236	94	32	1.05	0.38	4.44
109	1,101	2,551	10	0	10	0	1	0	0	15	9	0.78	0.00	0.00
118	717	1,355	20	0	20	0	6	1	8	42	14	2.95	0.15	1.18
10622	12	24	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays Days Away From Work
							Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				

### Pipeline -- Liquid

Total	11,995	24,035	218	17	235	0	106	79	1,966	848	129	1.96	0.66	16.36
13	1,151	1,789	33	0	33	0	16	5	72	183	17	3.69	0.56	8.05
14	766	1,532	11	1	12	0	8	5	81	39	4	1.57	0.65	10.57
17	625	1,371	24	4	28	0	17	14	428	65	11	4.08	2.04	62.44
29	658	1,356	9	0	9	0	5	5	97	0	4	1.33	0.74	14.31
32	507	1,055	3	0	3	0	2	0	0	3	1	0.57	0.00	0.00
33	16	33	1	0	1	0	0	0	0	0	1	6.06	0.00	0.00
38	128	266	3	0	3	0	1	1	54	241	2	2.26	0.75	40.60
41	460	997	1	0	1	0	1	0	0	30	0	0.20	0.00	0.00
60	371	779	3	0	3	0	0	0	0	0	3	0.77	0.00	0.00
65	404	752	5	0	5	0	2	1	2	18	3	1.33	0.27	0.53
73	57	121	1	0	1	0	0	0	0	0	1	1.65	0.00	0.00
90	550	1,146	7	0	7	0	4	1	170	7	3	1.22	0.17	29.67
91	255	504	1	0	1	0	1	1	1	0	0	0.40	0.40	0.40
93	28	55	1	0	1	0	1	1	149	0	0	3.64	3.64	541.82
99	698	1,372	4	1	5	0	2	2	15	0	3	0.73	0.29	2.19

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates		
			Injuries	Illnesses	Total	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays
						Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

### Pipeline -- Liquid (Cont.)

106	834	1,736	9	0	9	0	3	3	16	36	6	1.04	0.35	1.84
126	728	1,426	16	4	20	0	2	2	143	0	18	2.81	0.28	20.06
233	980	2,017	12	4	16	0	5	5	106	0	11	1.59	0.50	10.51
239	485	983	5	0	5	0	1	1	53	0	4	1.02	0.20	10.78
258	20	48	1	0	1	0	1	1	3	5	0	4.17	4.17	12.50
260	50	103	2	0	2	0	0	0	0	0	2	3.88	0.00	0.00
261	30	65	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
301	55	3	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10001	124	308	1	0	1	0	0	0	0	0	1	0.65	0.00	0.00
10014	28	56	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10015	69	128	1	0	1	0	0	0	0	0	1	1.56	0.00	0.00
10403	12	29	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10544	58	121	2	0	2	0	0	0	0	0	2	3.31	0.00	0.00
10570	118	241	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10575	177	367	1	2	3	0	2	2	20	5	1	1.63	1.09	10.90
10616	124	237	11	0	11	0	5	4	149	25	6	9.28	3.38	125.74
10620	58	140	2	0	2	0	1	1	4	0	1	2.86	1.43	5.71
10622	273	597	10	0	10	0	4	4	45	24	6	3.35	1.34	15.08

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness						Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases					Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays- Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays			

### Pipeline -- Liquid (Cont.)

11564	48	101	1	0	1	0	0	0	0	0	0	1.98	0.00	0.00
12421	102	240	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
13421	31	84	1	0	1	0	0	0	0	1	0	2.38	0.00	0.00
20029	14	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20035	72	151	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20037	5	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20050	2	3	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20051	25	59	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20111	4	18	1	0	1	1	0	0	33	0	0	11.11	0.00	0.00
30101	48	110	3	0	3	0	0	0	0	3	0	5.45	0.00	0.00
90001	124	307	1	0	1	0	0	0	0	1	0	0.65	0.00	0.00
90041	460	997	1	0	1	1	0	0	30	0	0	0.20	0.00	0.00
90099	700	1,370	4	1	5	2	2	239	0	3	0	0.73	0.29	34.89
90118	60	131	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
99118	15	30	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness						Incidence Rates			
			Injuries	Illnesses	Total	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays	Days Away From Work	Lost Workdays
						Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work						

### Pipeline -- Gas

Total	80	166	8	0	8	4	4	189	15	4	9.64	4.82	227.71
74	50	109	7	0	7	3	3	188	15	4	12.84	5.50	344.95

### Pipeline -- Not Separated

Total	2,718	5,651	82	8	90	37	26	254	253	53	3.19	0.92	8.99
11	58	130	0	0	0	0	0	0	0	0	0.00	0.00	0.00
24	741	1,434	13	8	21	11	6	139	119	10	2.93	0.84	19.39
109	1,125	2,517	49	0	49	17	17	51	0	32	3.89	1.35	4.05
118	377	735	13	0	13	5	0	0	132	8	3.54	0.00	0.00
10420	408	816	7	0	7	4	3	64	2	3	1.72	0.74	15.69
10629	9	19	0	0	0	0	0	0	0	0	0.00	0.00	0.00
90024	741	1,434	13	9	22	11	6	139	119	11	3.07	0.84	19.39

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

### Marine -- Tanker

Total	544	1,202	17	3	20	0	3	3	194	0	17	3.33	0.50	32.28
14	544	1,202	17	3	20	0	3	3	194	0	17	3.33	0.50	32.28

### Marine -- Inland

Total	444	612	23	1	24	0	9	4	181	19	15	7.84	1.31	59.15
13	416	550	20	1	21	0	8	3	179	19	13	7.64	1.09	65.09
10645	19	43	1	0	1	0	0	0	0	0	1	4.65	0.00	0.00



Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

## Marine -- Not Separated

Total	1,469	3,619	25	0	25	0	19	8	599	70	6	1.38	0.44	33.10
32	133	277	5	0	5	0	4	0	0	17	1	3.61	0.00	0.00
41	896	2,077	17	0	17	0	13	6	556	53	4	1.64	0.58	53.54
106	180	375	1	0	1	0	1	1	2	0	0	0.53	0.53	1.07
118	42	83	1	0	1	0	0	0	0	0	1	2.41	0.00	0.00
10420	218	807	1	0	1	0	1	1	41	0	0	0.25	0.25	10.16

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates					
			Injuries	Illnesses	Total	Lost Workday Cases				Total Cases	Non-Fatal Cases Without Lost Workdays	Fatal Plus Days Away From Work Cases	Lost Workdays Days Away From Work		
						Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity						

### Research & Development

<b>Total</b>	<b>7,614</b>	<b>15,433</b>	<b>66</b>	<b>14</b>	<b>80</b>	<b>0</b>	<b>20</b>	<b>16</b>	<b>94</b>	<b>486</b>	<b>60</b>	<b>1.04</b>	<b>0.21</b>	<b>1.22</b>
11	132	258	4	0	4	0	2	1	5	91	2	3.10	0.78	3.88
13	378	754	9	2	11	0	1	1	7	0	10	2.92	0.27	1.86
14	448	897	5	1	6	0	1	1	3	0	5	1.34	0.22	0.67
24	1,907	3,966	14	7	21	0	8	8	18	366	13	1.06	0.40	0.91
32	370	769	1	0	1	0	0	0	0	0	1	0.26	0.00	0.00
65	181	320	1	2	3	0	0	0	0	0	3	1.88	0.00	0.00
73	25	52	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
90	1,028	2,138	4	1	5	0	1	1	14	0	4	0.47	0.09	1.31
99	1,194	2,334	2	1	3	0	1	0	0	1	2	0.26	0.00	0.00
109	481	1,022	13	0	13	0	1	1	8	0	12	2.54	0.20	1.57
10420	1,470	2,923	13	0	13	0	5	3	39	28	8	0.89	0.21	2.67

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness						Incidence Rates		
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

### General Services

<b>Total</b>	<b>3,131</b>	<b>6,210</b>	<b>48</b>	<b>1</b>	<b>49</b>	<b>0</b>	<b>28</b>	<b>21</b>	<b>421</b>	<b>389</b>	<b>21</b>	<b>1.58</b>	<b>0.68</b>	<b>13.56</b>
13	689	1,418	10	0	10	0	5	1	0	17	5	1.41	0.14	0.00
14	52	108	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
24	796	1,399	18	1	19	0	16	15	361	333	3	2.72	2.14	51.61
32	270	561	2	0	2	0	1	0	0	5	1	0.71	0.00	0.00
41	490	1,019	2	0	2	0	1	0	0	0	1	0.39	0.00	0.00
65	137	247	4	0	4	0	2	2	48	34	2	3.24	1.62	38.87
74	109	234	8	0	8	0	2	2	3	0	6	6.84	1.71	2.56
90	571	1,188	4	0	4	0	1	1	9	0	3	0.67	0.17	1.52

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness						Incidence Rates		
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				

### Admin., Engineering, & Other

Total	35,849	72,338	157	64	221	0	91	73	1,808	1,114	130	0.61	0.20	5.00
11	556	883	2	1	3	0	0	0	0	0	3	0.68	0.00	0.00
13	2,344	4,680	6	1	7	0	3	0	0	31	4	0.30	0.00	0.00
14	2,111	5,185	15	1	16	0	6	6	248	83	10	0.62	0.23	9.57
24	3,833	6,932	16	25	41	0	20	19	766	356	21	1.18	0.55	22.10
27	493	995	3	1	4	0	0	0	0	0	4	0.80	0.00	0.00
32	2,673	5,560	3	0	3	0	0	0	0	0	3	0.11	0.00	0.00
41	2,757	5,812	9	4	13	0	9	7	79	281	4	0.45	0.24	2.72
65	1,563	2,749	4	0	4	0	1	1	3	0	3	0.29	0.07	0.22
73	310	676	1	2	3	0	2	0	0	19	1	0.89	0.00	0.00
74	168	324	1	0	1	0	0	0	0	0	1	0.62	0.00	0.00
90	940	1,955	1	0	1	0	0	0	0	0	1	0.10	0.00	0.00
93	19	34	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
99	3,564	6,954	7	7	14	0	4	4	58	0	10	0.40	0.12	1.67
106	420	873	1	0	1	0	1	1	1	0	0	0.23	0.23	0.23

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness						Incidence Rates						
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases					Total Cases	Fatal Plus Days Away From Work Cases	Non-Fatal Cases Without Lost Workdays				
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays							

## Admin., Engineering, &amp; Other (Cont.)

109	4,095	8,373	28	1	29	0	14	14	48	5	15	0.69	0.33	1.15
118	1,198	2,281	8	0	8	0	3	2	43	100	5	0.70	0.18	3.77
10001	640	1,486	1	2	3	0	0	0	0	90	3	0.40	0.00	0.00
10420	4,926	9,941	16	2	18	0	5	4	428	2	13	0.36	0.08	8.61
10519	1	1	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10560	9	13	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10607	2	6	0	4	4	0	4	1	4	3	0	133.33	33.33	133.33
10616	45	79	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10617	268	535	7	3	10	0	3	1	4	54	7	3.74	0.37	1.50
10620	118	246	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10622	152	304	7	0	7	0	2	2	27	0	5	4.61	1.32	17.76
10629	12	28	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10645	134	278	0	1	1	0	0	0	0	0	1	0.72	0.00	0.00
90118	36	75	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
99118	7	9	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

# U.S. Occupational Injuries and Illnesses for 1996 Covering Petroleum and Petrochemical Operations of Reporting Companies Offshore Functions

a - Offshore Exploration      b - Offshore Production      d - Offshore Drilling      (abd) - Combination of Above - Not Sep.

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness				Incidence Rates			
			Injuries	Illnesses	Total	Lost Workday Cases			Total Cases	Fatal Plus Days Away From Work Cases	Non-Fatal Cases Without Lost Workdays	Lost Days Away From Work
						Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work				

## All Functions

Total	7,643	15,987	154	8	162	0	91	62	1,221	620	71	2.03	0.78	15.27
14	184	436	8	0	8	0	5	5	89	7	3	3.67	2.29	40.83 b
24	2,286	4,530	37	1	38	0	22	21	178	0	16	1.68	0.93	7.86 (abd)
27	68	199	1	0	1	0	1	1	2	0	0	1.01	1.01	2.01 (abd)
32	151	315	3	1	4	0	3	0	0	17	1	2.54	0.00	0.00 (abd)
41	656	1,386	14	2	16	0	13	1	2	359	3	2.31	0.14	0.29 b,d
65	151	534	9	0	9	0	7	1	3	111	2	3.37	0.37	1.12 (abd)
99	1,798	3,739	13	3	16	0	6	5	62	1	10	0.86	0.27	3.32 b,d
106	306	636	3	0	3	0	3	3	109	1	0	0.94	0.94	34.28 b
118	1,010	1,880	28	0	28	0	17	14	212	42	11	2.98	1.49	22.55 (abd)
10001	63	137	5	0	5	0	2	0	0	37	3	7.30	0.00	0.00 b,d
10570	28	56	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00 b
20032	11	24	1	0	1	0	1	1	17	0	0	8.33	8.33	141.67 (abd)
20038	42	74	2	0	2	0	1	1	16	0	1	5.41	2.70	43.24 (abd)
20111	4	18	1	0	1	0	1	0	0	33	0	11.11	0.00	0.00 b

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates		
			Injuries	Illnesses	Total	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays
						Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

### Offshore Exploration

<b>Total</b>	16	32	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>Total</b>	2,887	6,195	63	6	69	38	22	741	438	31	2.23	23.92
14	184	436	8	0	8	5	5	89	7	3	3.67	40.83
41	611	1,295	14	2	16	13	1	2	359	3	2.47	0.31
99	1,534	3,190	13	3	16	6	5	62	1	10	1.00	3.89
106	306	636	3	0	3	3	3	109	1	0	0.94	34.28
10001	49	107	5	0	5	2	0	0	37	3	9.35	0.00
10570	28	56	0	0	0	0	0	0	0	0	0.00	0.00
20111	4	18	1	0	1	1	0	0	33	0	11.11	0.00

### Offshore Production

<b>Total</b>	2,887	6,195	63	6	69	38	22	741	438	31	2.23	23.92
14	184	436	8	0	8	5	5	89	7	3	3.67	40.83
41	611	1,295	14	2	16	13	1	2	359	3	2.47	0.31
99	1,534	3,190	13	3	16	6	5	62	1	10	1.00	3.89
106	306	636	3	0	3	3	3	109	1	0	0.94	34.28
10001	49	107	5	0	5	2	0	0	37	3	9.35	0.00
10570	28	56	0	0	0	0	0	0	0	0	0.00	0.00
20111	4	18	1	0	1	1	0	0	33	0	11.11	0.00

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness						Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases					Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays - Days Away From Work	
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays				

### Offshore Drilling

Total	360	721	3	0	3	0	0	0	0	0	0.83	0.00	0.00
41	45	91	0	0	0	0	0	0	0	0	0.00	0.00	0.00
99	264	549	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10001	14	30	0	0	0	0	0	0	0	0	0.00	0.00	0.00



Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness					Incidence Rates		
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

### Comb. of Above -- Not Separated

Total	4,380	9,039	88	2	90	0	53	40	480	182	37	1.99	0.89		10.62
24	2,286	4,530	37	1	38	0	22	21	178	0	16	1.68	0.93		7.86
27	68	199	1	0	1	0	1	1	2	0	0	1.01	1.01		2.01
32	151	315	3	1	4	0	3	0	0	17	1	2.54	0.00		0.00
65	151	534	9	0	9	0	7	1	3	111	2	3.37	0.37		1.12
118	1,010	1,880	28	0	28	0	17	14	212	42	11	2.98	1.49		22.55
20032	11	24	1	0	1	0	1	1	17	0	0	8.33	8.33		141.67
20038	42	74	2	0	2	0	1	1	16	0	1	5.41	2.70		43.24

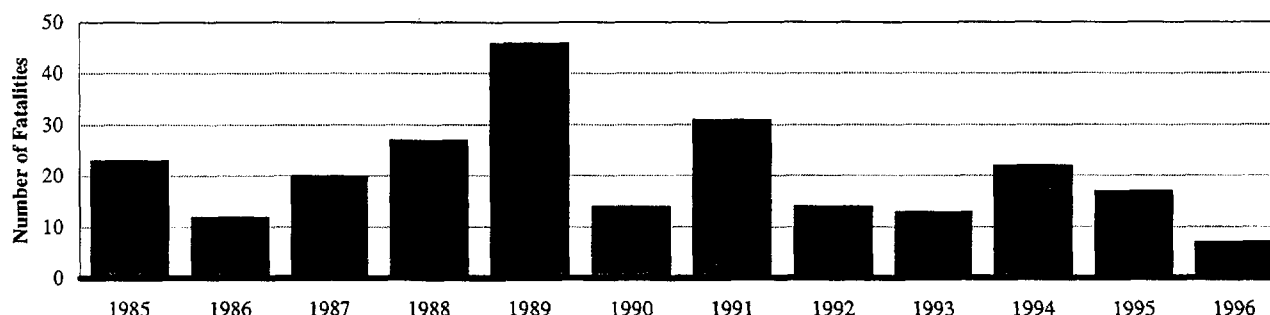
**1996 — Summary of On-Duty Fatal Injuries in the Petroleum Industry — 1996**  
As Reported to the American Petroleum Institute

## 1996

### Summary of Fatal Injuries in the Petroleum Industry as Reported to the American Petroleum Institute for 1996

One hundred and forty oil and gas companies and their subsidiaries, employing 228,209 workers reported 7 on-duty fatal accidents during 1996. This is equivalent to one fatality for every 32,601 workers employed. Comparatively, in 1995, the industry experienced one fatality for every 15,364 employees. The graph below shows the number of fatalities reported in this publication for the last 12 years.

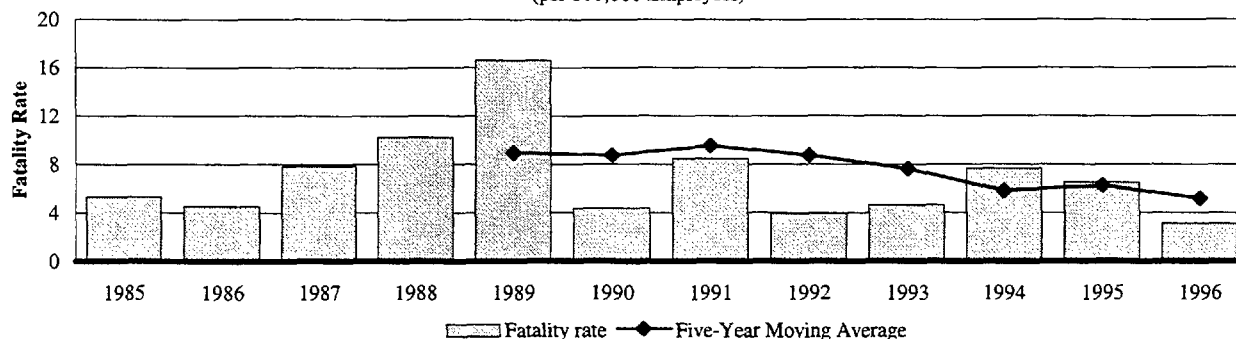
**Reported U.S. Occupational Fatalities in the Petroleum Industry**



The change in the number of employees represented by this survey every year accounts for some of the variation in the data. Therefore, the following graph shows the fatality rate<sup>1</sup> for the past 12 years. However, as with any data, the factors that cause variations over time can also be cyclical, seasonal, trend, or irregular (random). Any combination of these factors can further cloud any visual interpretation of the data. Because this is annual data, cyclical and seasonal variations may be discounted. By calculating a *moving average*<sup>2</sup> for each year, we can smooth-out the effect of irregular variations and can thus observe a trend. The trend in the rate of fatalities in the petroleum industry is shown below using a five-year moving average.

**Reported U.S. Occupational Fatality Rates in the Petroleum Industry**

(per 100,000 Employees)



<sup>1</sup> Fatality rate = (number of fatalities\*100,000)/number of employees. This is the number of fatalities per 100,000 employees

<sup>2</sup> A five-year moving average for a given year is the average of that year and the 4 preceding years. For example, the 5-year moving average for 1990, using rounded numbers, shown on the graph equals  $(4+17+10+8+5)/5=8.8$

## FATALITIES

Five of the 6 companies experiencing at least one fatality submitted detailed information on the circumstances surrounding 5 of 7 reported on-duty fatal accidents.

The American Petroleum Institute (API) has published information provided by member companies on fatal accidents in the petroleum industry since 1933. Each incident is described in a brief narrative and is intended to provide information that could be used to avoid the occurrence of similar accidents in the future.

## MARKETING RETAIL

### 01/04/96 — Vehicle Accident

An employee was fatally injured when his vehicle was struck by another vehicle traveling in the same direction. The employee was traveling on an interstate highway to a convenience store to perform maintenance when his vehicle was struck by another vehicle on the highway. The employee was thrown from the vehicle when it flipped over sustaining fatal injuries. The accident was caused by poor judgment of other driver while changing lanes.

## PRODUCTION

### 8/19/96 — Struck by Equipment

An employee was working on a pumping unit and was struck by a counter-weight arm. The employee was installing a ground wire on a pumping unit. The employee was struck on the back of the head by the counterweight arm. This situation can be prevented by stopping the pumping unit with the counter-weight arms in the lowest position, by setting the pumping unit brake, by performing lockout/tagout/blockout of the pumping unit before performing any maintenance or repairs.

## REFINING

### 07/12/96 - Fire and Explosion

The employee was in the area at the time of the explosion and received burns over 95% of his body. Shortly after charging, the reactor experienced a rapid internal pressure buildup, which resulted in a separation of the reactor head from the reactor shell. The flammable contents of the reactor were released and subsequently ignited, resulting in a fire. Incomplete understanding of consequences of deviation and MOC procedures as they related to process deviations.

### 02/08/96 — Pressure Build-up

Maintenance was having difficulty removing an exchange shell cover from the floating head. They asked operations personnel to heat the cover with steam to expand the metal cover to facilitate its removal. Steam was slowly

**1996 — Summary of On-Duty Fatal Injuries in the Petroleum Industry — 1996**  
**As Reported to the American Petroleum Institute**

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opened up via a hose to the bottom drain valve on the cover. The steam entering the shell cover built up in the vapor space between the cover and the floating head. Pressure build-up was sufficient to overcome two bolts that held the cover in place onto the exchanger. The shell cover's rapid release occurred while an operator employee was in front of it, striking her and killing her instantly.

**Prevention:**

- (1) Report tightfitting equipment for inspection/engineering
- (2) Ensure that utilities are being properly vented and not building pressure
- (3) Train employees on the hazards of not following #1 & #2.

## **PRODUCTION**

### **9/15/96 — Electrical Shock**

Rather than bring a truck to town and take it back the next day, the truck was parked near a rancher's home for security. The ginpoles had been left down. The first two employees to arrive started the truck and began to raise the ginpoles. One employee was in the truck and the other was holding tension on the cable as the poles were raised. The gin poles came into contact with primary electrical lines while the employee was holding the cable. Being used to working on relatively open well locations, neither employee took a minute to look around to be sure there was clearance for the poles. All employees should take a couple of minutes to be sure everyone knows the tasks, have proper tools and is safe.

## 1996 Occupational Injuries , Illnesses, and Fatalities in the Petroleum Industry

## Appendix A

### Participating Companies

#### Alpha Listing

(list includes ID only for companies that agreed to have their numbers published individually)

(ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

**Company ID Company Name**

14	ARCO
233	Aleyska Pipeline Service Company
	All American Pipeline Co.
	American Refining Group
106	Amoco Corporation
20038	Anadarko Petroleum Corporation
20037	Anschutz Ranch East Pipeline Inc.
13	Ashland Inc.
	Ashland Pipe Line L.L.C.
10645	BHP (Hawaii) Inc.
	BHP Petroleum (Americas) Inc.
10001	BP America
90001	BP Oil Pipeline Co.
	BWOC Inc.
20051	Badger Pipeline Co.
	Basic Earth Science Systems Inc.
	Basis Petroleum Inc.
10617	Bechtel Petroleum Operations Inc.
20035	Belle Fourche Pipeline Company
17	Buckeye Pipe Line Company
	Burlington Resources (formerly Meridian Oil Inc.)
	Butte Pipe Line
10421	CITGO Petroleum Corporation
12421	CITGO Pipeline Company
13421	CITGO Products Pipeline Company
	Cabot Oil & Gas Corporation
10015	Calnev Pipe Line Company
	Cenex Pipe Line Co.
10014	Central Florida Pipeline Corporation
10203	Charles B. Wilson
30103	Chermac Energy Corporation
24	Chevron Corporation
90024	Chevron Pipe Line Company
99118	Chicap Pipeline
	Ciniza Pipe Line Company
	Clearfield Energy Inc.
10403	Collins Pipeline Co.

## 1996 Occupational Injuries, Illnesses, and Fatalities in the Petroleum Industry

## Appendix A

### Participating Companies

#### Alpha Listing

(list includes ID only for companies that agreed to have their numbers published individually)  
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#### Company ID Company Name

29	Colonial Pipeline Company
32	Conoco Inc.
33	Cook Inlet Pipe Line Company
	Devon Energy Corporation
	Dixie Pipeline Company
	Dome EnergiCorp
260	Dome Pipeline Corp.
	Eberly and Meade Inc.
	Elf Exploration Inc.
10030	Energy Pro Inc.
10620	Enterprise Products Company
	Ergon Inc.
20111	Ewing Bank Pipeline Co. (BP)
10509	Excalibur Exploration Inc.
38	Explorer Pipeline Company
41	Exxon Company U.S.A.
90041	Exxon Pipeline Company
43	Farmland Industries Inc.
11	Fina Oil and Chemical Company
10540	Giant Refining Co. - Bloomfield Refinery
	Green Energy Inc.
	H & C Oil Operating Inc.
	Hanley Petroleum Inc.
	Heartland Exploration Inc.
20032	Howell Petroleum Corporation
301	Howell Pipeline Companies
	Hunt Oil Company
	Hunt Refining Co./Trading & Transportation
	Justiss Oil Company Inc.
10616	Kaneb Pipe Line Operating Partnership L.P.
	Kentucky Hydrocarbon
20006	Keoughans Producing Company
58	Kerr-McGee Corporation
10570	LOOP LLC
60	Lakehead Pipe Line Company Inc.
	Lone Mountain Production Co.
10611	Long Drilling Company

## 1996 Occupational Injuries, Illnesses, and Fatalities in the Petroleum Industry

## Appendix A

### Participating Companies

#### Alpha Listing

(list includes ID only for companies that agreed to have their numbers published individually)  
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#### Company ID Company Name

10523	Long Oil Company
10626	Lyondell-Citgo Refining Company Ltd.
	Mack Energy Corp.
65	Marathon Oil Company
	Marathon Pipe Line Company
10608	McFarland Energy Inc.
	McGowan Working Partners
	Mesa Inc.
10218	Michael D. Lillis
10622	Mid-America Pipeline Co.
10420	Mobil Oil Corporation
	Mobil Pipeline
	Murphy Oil Corporation
10575	National Cooperative Refinery Association
11564	Navajo - Pipeline Division
27	Occidental Oil & Gas Corporation
10544	Olympic Pipe Line Co.
	Oryx Energy Company
10534	Ouachita Exploration Inc.
	Oxy Chem Pipe Line
	Par-Co Drilling Inc.
90	Phillips Petroleum Company
	Phillips Pipe Line
	Placid Refining Company
91	Plantation Pipeline Company
	Pogo Producing Company
93	Portland Pipe Line Corporation
73	Quaker State Corporation
74	Questar Pipeline Company
20050	Razorback Pipeline Company
	Reserve Petroleum Company
140	Santa Fe Energy Resources Inc.
239	Santa Fe Pacific Pipelines
	Seadrift Pipeline Corporation
10560	Shakespeare Oil Company Inc.
99	Shell Oil Company
90099	Shell Pipe Line Corporation

## 1996 Occupational Injuries , Illnesses, and Fatalities in the Petroleum Industry

## Appendix A

### Participating Companies

#### Alpha Listing

(list includes ID only for companies that agreed to have their numbers published individually)  
 (ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

#### Company ID Company Name

	Shepler & Thomas Inc.
	Southland Oil Co. - Lumberton Refinery
	Southland Oil Co. - Sandersville Refinery
	Southland Oil Co. - Vicksburg Terminal
10607	Stokes Production
258	Sunniland Pipe Line Co. Inc.
	TOTAL Minatome Corp.
261	Tepsco
109	Texaco Inc.
	Texaco Trading and Transportation Inc.
	Tosco Refining Company - Avon Refinery
	Trans Mountain Pipeline Corporation Ltd.
30107	TransAmerican Refining Corp.
30101	TransMontaigne Transportation Services Inc.
	Union Pacific Resources
10629	Union Texas Petrochemicals Corp.
20029	United Refining Co.
118	Unocal Corporation
90118	Unocal Pipeline
10519	Venada National
10412	Vis-Op Oil
	Weal Drilling Company Inc.
	Westico Energy Co.
	Wheless Industries Inc.
126	Williams Pipe Line Company
	Withrow Engineering Inc.
	Woolsey Petroleum Corporation
30111	Wynnewood Refining Co.
	Wyoming PipeLine Company



## 1996 Occupational Injuries , Illnesses, and Fatalities in the Petroleum Industry

## Appendix B

### Participating Companies

### Numeric Listing

(list includes ID only for companies that agreed to have their numbers published individually)  
 (ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

#### Company ID Company Name

11	Fina Oil and Chemical Company
13	Ashland Inc.
14	ARCO
17	Buckeye Pipe Line Company
24	Chevron Corporation
27	Occidental Oil & Gas Corporation
29	Colonial Pipeline Company
32	Conoco Inc.
33	Cook Inlet Pipe Line Company
38	Explorer Pipeline Company
41	Exxon Company U.S.A.
43	Farmland Industries Inc.
58	Kerr-McGee Corporation
60	Lakehead Pipe Line Company Inc.
65	Marathon Oil Company
73	Quaker State Corporation
74	Questar Pipeline Company
90	Phillips Petroleum Company
91	Plantation Pipeline Company
93	Portland Pipe Line Corporation
99	Shell Oil Company
106	Amoco Corporation
109	Texaco Inc.
118	Unocal Corporation
126	Williams Pipe Line Company
140	Santa Fe Energy Resources Inc.
233	Aleyska Pipeline Service Company
239	Santa Fe Pacific Pipelines
258	Sunniland Pipe Line Co. Inc.
260	Dome Pipeline Corp.
261	Tepsco
301	Howell Pipeline Companies
10001	BP America
10014	Central Florida Pipeline Corporation
10015	Calnev Pipe Line Company
10030	Energy Pro Inc.
10203	Charles B. Wilson

## 1996 Occupational Injuries, Illnesses, and Fatalities in the Petroleum Industry

## Appendix B

### Participating Companies

#### Numeric Listing

(list includes ID only for companies that agreed to have their numbers published individually)  
 (ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

#### Company ID Company Name

10218	Michael D. Lillis
10403	Collins Pipeline Co.
10412	Vis-Op Oil
10420	Mobil Oil Corporation
10421	CITGO Petroleum Corporation
10509	Excalibur Exploration Inc.
10519	Venada National
10523	Long Oil Company
10534	Ouachita Exploration Inc.
10540	Giant Refining Co. - Bloomfield Refinery
10544	Olympic Pipe Line Co.
10560	Shakespeare Oil Company Inc.
10570	LOOP LLC
10575	National Cooperative Refinery Association
10607	Stokes Production
10608	McFarland Energy Inc.
10611	Long Drilling Company
10616	Kanab Pipe Line Operating Partnership L.P.
10617	Bechtel Petroleum Operations Inc.
10620	Enterprise Products Company
10622	Mid-America Pipeline Co.
10626	Lyondell-Citgo Refining Company Ltd.
10629	Union Texas Petrochemicals Corp.
10645	BHP (Hawaii) Inc.
11564	Navajo - Pipeline Division
12421	CITGO Pipeline Company
13421	CITGO Products Pipeline Company
20006	Keoughans Producing Company
20029	United Refining Co.
20032	Howell Petroleum Corporation
20035	Belle Fourche Pipeline Company
20037	Anschutz Ranch East Pipeline Inc.
20038	Anadarko Petroleum Corporation
20050	Razorback Pipeline Company
20051	Badger Pipeline Co.
20111	Ewing Bank Pipeline Co. (BP)
30101	TransMontaigne Transportation Services Inc.

## 1996 Occupational Injuries , Illnesses, and Fatalities in the Petroleum Industry

## **Appendix B**

### **Participating Companies**

#### **Numeric Listing**

(list includes ID only for companies that agreed to have their numbers published individually)

(ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

#### **Company ID Company Name**

30103	Chermac Energy Corporation
30107	TransAmerican Refining Corp.
30111	Wynnewood Refining Co.
90001	BP Oil Pipeline Co.
90024	Chevron Pipe Line Company
90041	Exxon Pipeline Company
90099	Shell Pipe Line Corporation
90118	Unocal Pipeline
99118	Chicap Pipeline

## Appendix C

### Shift Information for Offshore Employees

(list includes ID only for companies that agreed to have their numbers published individually)

Company ID	Hours Worked or Exposure Hours per Day While on Duty	Duty Cycle	
		Days On	Day Off
24	12	7	7
27	16	7	7
32	12	7	7
41	12	7	7
65	12	7	7
106	12	7	7
10001	12	7	7
10570	12	7	7
20032	16	7	7
20111	12	7	7
20038	12	7	7

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