

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

U.S. Bureau of Land Management Papers

U.S. Department of the Interior

2005

Analyses of Natural Gases, 2002–2004

B. D. Gage

U.S. Department of the Interior

D. L. Driskill

U.S. Department of the Interior

Follow this and additional works at: <https://digitalcommons.unl.edu/usblmpub>



Part of the [Environmental Sciences Commons](#)

Gage, B. D. and Driskill, D. L., "Analyses of Natural Gases, 2002–2004" (2005). *U.S. Bureau of Land Management Papers*. 4.

<https://digitalcommons.unl.edu/usblmpub/4>

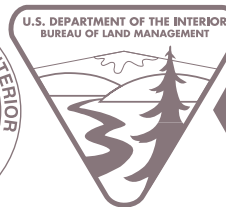
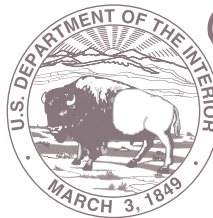
This Article is brought to you for free and open access by the U.S. Department of the Interior at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in U.S. Bureau of Land Management Papers by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

Technical Note 418

Analyses of Natural Gases, 2002–2004

By B. D. Gage and D.L. Driskill
December 2005

U.S. Department of the Interior
Bureau of Land Management



BLM/NM/ST-06/003+3700

This document is also available on the Amarillo Field Office Web site at

http://www.nm.blm.gov/amfo/amfo_home.html

Production services provided by the NSTC Branch of Publishing Services

Analyses of Natural Gases, 2002–2004

Technical Note 418

December 2005

**By B.D. Gage
Petroleum Engineer
Bureau of Land Management
Amarillo Field Office
Amarillo, Texas**

**D.L. Driskill
Geologist
Bureau of Land Management
Amarillo Field Office
Amarillo, Texas**



**United States Department of the Interior
Bureau of Land Management**

Suggested citation:

Gage, B.D. and D.L. Driskill. 2005. Analyses of Natural Gases, 2002–2004, Technical Note 418
Bureau of Land Management. Denver, Colorado. BLM/NM/ST-06/003+3700. 246 pp.

Contents

	Page
Abstract	1
Introduction.....	3
Tables.....	5
Geologic Provinces of the United States	5
Figure 1 - Geologic Provinces of the United States	12
Table 1 - Samples from Gas and Oil Wells in the United States	13
Table 2 - Samples from Natural Gas Pipelines in the United States	229
Previous Publications in the Helium Survey Series	241

A b s t r a c t

Technical Note 418 contains analyses and related source data for 451 natural gas samples from 15 States. Of the total samples, 381 were collected during calendar years 2002 through 2004. The analyses were done using gas chromatography. None of the analyses have been published previously in other analyses reports. All samples were obtained and analyzed as

part of the United States Department of the Interior's Bureau of Land Management investigations of the occurrences of helium in natural gases of countries with free-market economies. The results of these investigations are published periodically to make the information available to members of the helium and petroleum industries and to the general public.

Introduction

Bureau of Land Management Technical Note 418, *Analyses of Natural Gases*, 2002–2004, contains analyses and related source data for 451 natural gas samples from 15 States. Of the total samples, 381 were collected during calendar years 2002 through 2004. The remaining 70 were collected earlier, but releases granting permission to publish them were received at a later date. None of these analyses have been published previously in other analyses reports.

The analyses were done using gas chromatography. All samples were obtained and analyzed as part of the Bureau of Land Management investigations of the occurrences of helium in natural gases of countries with free-market economies. This helium survey program has been conducted since 1917. The results are published periodically to make the information available to members of the helium and petroleum industries and to the general public.

Forty-three publications have presented the results of 16,369 gas analyses performed through 2001. These publications are referenced at the end of this report in the section “Previous Publications in the Helium Survey Series.”

The first three bulletins (1–3)¹ contain analyses and related source data on 5,218 gas samples collected from 1917 through 1960. These bulletins have been supplemented

periodically by information circulars and technical notes (4–17, 19–24, 26–30, 32–36, 38–43) containing 11,151 analyses of samples collected since 1960.

In 1976, a compilation of the analyses made prior to 1975 was prepared by the United States Bureau of Mines (USBM) and published by the National Technical Information Service of the United States Department of Commerce (18). The 1976 compilation contains 10,562 analyses of gas samples from gas and oil wells and natural gas pipelines in 37 States and 23 foreign countries.

Three other compilations of analyses have been published (25, 31, 37) by the USBM. The first of these was published in 1982 and contained analyses performed prior to 1981. The 1982 publication contains 12,554 analyses of gas samples from gas and oil wells and natural gas pipelines in 39 States and 24 foreign countries and includes the analyses from the 1976 publication (25). The second of these compilations was published in 1987 and contains 14,242 analyses performed prior to 1986. The samples were taken from gas and oil wells and natural gas pipelines in 40 States and 24 foreign countries (31). In 1991, a compilation of analyses was completed as a supplement to the 1987 publication and contains all analyses published from 1986 through 1990. The 1991 publication

¹The numbers in parentheses refer to items in the list of previous publications at the end of this report.

contains 920 samples from gas and oil wells and natural gas pipelines in 26 States and 2 foreign countries (37).

In addition to appearing in the publications, all analyses and related information published through 2001 are available on CD-ROM from the National Technical Information Service (NTIS) in Springfield, Virginia (1-800-553-NTIS). Orders should refer to Bureau of Land Management CD-ROM PB2004-500040. The update to this CD-ROM, which will include the 2002–2004 analyses, should be available

for purchase around the time this report is published.

The helium survey program is conducted by soliciting natural gas samples from throughout the United States and other countries with free-market economies. The helium survey, in its present scope, would not be possible without the assistance of the helium and petroleum industries, State and Federal agencies, and the many individuals engaged in oil and gas exploration and production.

Tables

Tables 1 and 2—the main focus of this technical note—include the results of analyses and related source data from the gas samples. This information is divided into two groups. Table 1 contains information on samples from gas and oil wells in the United States. Table 2 contains information on samples from natural gas pipelines in the United States. The following chart

indicates the sources of the samples listed in these tables. All components of the analyses in the tables are reported to the nearest 0.1 percent, except helium, which is reported to the nearest 0.01 percent. The word “trace” is used to denote quantities of helium of less than 0.005 percent and quantities of other components of less than 0.05 percent.

Source	Number of Samples	Table(s)	Source	Number of Samples	Table(s)
Alabama	1	1	North Dakota	1	1
Arkansas	1	1	Oklahoma	24	1
California	13	1	Pennsylvania	6	1
Colorado	122	1,2	Texas	14	1
Kansas	116	1	Utah	60	1
Louisiana	2	1	West Virginia	5	1
Mississippi	3	1	Wyoming	31	1
New Mexico	52	1,2			

Geologic Provinces of the United States

Tables 1 and 2 also include geologic province codes so each sample source can be located within a specific geologic province as defined by the Committee on Statistics of Drilling of the American Association of Petroleum Geologists. The provinces and their associated codes are provided in the list that follows and are also illustrated in Figure 1.² They are

delineated by political boundaries for convenience and for accommodation of the data processing equipment. Because not all of the provinces shown are gas-producing areas, many of the codes are not used in this publication. In addition, since State or Federal ownership is not always known in offshore areas, only one code is used for each State. Due to the lack of information on the location of wells in Alaska, only one code (972) is used for all wells.

²The list and Figure 1 are taken from the article cited as: Meyer, R.F. 1970. Geologic provinces code map for computer use: American Association of Petroleum Geologists Bulletin, v. 54, n. 7, p.1301-1305.

Code	Province
100	New England Province
110	Adirondack Uplift
120	Atlantic Coast Basin
130	South Georgia-North Florida Sedimentary Province
140	South Florida Province
150	Piedmont-Blue Ridge Province
160	Appalachian Basin
200	Black Warrior Basin
210	Mid-Gulf Coast Basin
220	Gulf Coast Basin
230	Arkla Basin
240	Desha Basin
250	Upper Mississippi Embayment
260	East Texas Basin
300	Cincinnati Arch
305	Michigan Basin
310	Wisconsin Arch
315	Illinois Basin
320	Sioux Uplift
325	Iowa Shelf
330	Lincoln Anticline
335	Forest City Basin
340	Ozark Uplift
345	Arkoma Basin
350	South Oklahoma Folded Belt Province
355	Chautauqua Platform
360	Anadarko Basin
365	Cherokee Basin
370	Nemaha Anticline
375	Sedgwick Basin
380	Salina Basin
385	Central Kansas Uplift
390	Chadron Arch
395	Williston Basin
400	Ouachita Tectonic Belt Province
405	Kerr Basin
410	Llano Uplift
415	Strawn Basin

Code	Province
420	Fort Worth Syncline
425	Bend Arch
430	Permian Basin
435	Palo Duro Basin
440	Amarillo Arch
445	Sierra Grande Uplift
450	Las Animas Arch
455	Las Vegas-Raton Basin
460	Estancia Basin
465	Orogrande Basin
470	Pedregosa Basin
475	Basin-and-Range Province
500	Sweetgrass Arch
505	Montana Folded Belt Province
510	Central Montana Uplift
515	Powder River Basin
520	Big Horn Basin
525	Yellowstone Province
530	Wind River Basin
535	Green River Basin
540	Denver Basin
545	North Park Basin
550	South Park Basin
555	Eagle Basin
560	San Luis Basin
565	San Juan Mountain Province
570	Uinta Uplift
575	Uinta Basin
580	San Juan Basin
585	Paradox Basin
590	Black Mesa Basin
595	Piceance Basin
600	Northern Cascade Range-Okanagan Province
605	Eastern Columbia Basin
610	Idaho Mountains Province
615	Snake River Basin
620	Southern Oregon Basin
625	Great Basin Province

Code	Province
630	Wasatch Uplift
635	Plateau Sedimentary Province
640	Mojave Basin
645	Salton Basin
650	Sierra Nevada Province
700	Bellingham Basin
705	Puget Sound Province
710	Western Columbia Basin
715	Klamath Mountains Province
720	Eel River Basin
725	Northern Coast Range Province
730	Sacramento Basin
735	Santa Cruz Basin
740	Coastal Basins
745	San Joaquin Basin
750	Santa Maria Basin
755	Ventura Basin
760	Los Angeles Basin
765	Capistrano Basin
800	Heceta Island Area
805	Keku Islands Area
810	Gulf of Alaska Basin
815	Copper River Basin
820	Cook Inlet Basin
830	Kandik Province
835	Kobuk Province
840	Koyukuk Province
845	Bristol Bay Basin
850	Bethel Basin
855	Norton Basin
860	Selawik Basin
863	Yukon Flats Basin
865	Lower Tanana Basin
867	Middle Tanana Basin
870	Upper Tanana Basin
873	Galena Basin
875	Innoko Basin
877	Minchumina Basin

Code	Province
880	Holitna Basin
885	Arctic Foothills Province
890	Arctic Slope Basin
900	Maine Atlantic offshore–general
901	Maine Atlantic offshore–State
902	Maine Atlantic offshore–Federal
903	New Hampshire Atlantic offshore–general
904	New Hampshire Atlantic offshore–State
905	New Hampshire Atlantic offshore–Federal
906	Massachusetts Atlantic offshore–general
907	Massachusetts Atlantic offshore–State
908	Massachusetts Atlantic offshore–Federal
909	Rhode Island Atlantic offshore–general
910	Rhode Island Atlantic offshore–State
911	Rhode Island Atlantic offshore–Federal
912	Connecticut Atlantic off shore–general
913	Connecticut Atlantic offshore–State
914	Connecticut Atlantic offshore–Federal
915	New York Atlantic offshore–general
916	New York Atlantic offshore–State
917	New York Atlantic offshore–Federal
918	New Jersey Atlantic offshore–general
919	New Jersey Atlantic offshore–State
920	New Jersey Atlantic offshore–Federal
921	Delaware Atlantic offshore–general
922	Delaware Atlantic offshore–State
923	Delaware Atlantic offshore–Federal
924	Maryland Atlantic offshore–general
925	Maryland Atlantic offshore–State
926	Maryland Atlantic offshore–Federal
927	Virginia Atlantic offshore–general
928	Virginia Atlantic offshore–State
929	Virginia Atlantic offshore–Federal
930	North Carolina Atlantic offshore–general
931	North Carolina Atlantic offshore–State
932	North Carolina Atlantic offshore–Federal
933	South Carolina Atlantic offshore–general
934	South Carolina Atlantic offshore–State

Code	Province
935	South Carolina Atlantic offshore–Federal
936	Georgia Atlantic offshore–general
937	Georgia Atlantic offshore–State
938	Georgia Atlantic offshore–Federal
939	Florida Atlantic offshore–general
940	Florida Atlantic offshore–State
941	Florida Atlantic offshore–Federal
942	Florida Gulf of Mexico offshore–general
943	Florida Gulf of Mexico offshore–State
944	Florida Gulf of Mexico offshore–Federal
945	Alabama Gulf of Mexico offshore–general
946	Alabama Gulf of Mexico offshore–State
947	Alabama Gulf of Mexico offshore–Federal
948	Mississippi Gulf of Mexico offshore–general
949	Mississippi Gulf of Mexico offshore–State
950	Mississippi Gulf of Mexico offshore–Federal
951	Louisiana Gulf of Mexico offshore–general
952	Louisiana Gulf of Mexico offshore–State
953	Louisiana Gulf of Mexico offshore–Federal
954	Texas Gulf of Mexico offshore–general
955	Texas Gulf of Mexico offshore–State
956	Texas Gulf of Mexico offshore–Federal
957	California Pacific offshore–general
958	California Pacific offshore–State
959	California Pacific offshore–Federal
960	Oregon Pacific offshore–general
961	Oregon Pacific offshore–State
962	Oregon Pacific offshore–Federal
963	Washington Pacific offshore–general
964	Washington Pacific offshore–State
965	Washington Pacific offshore–Federal
972	Alaska Arctic offshore–general
973	Alaska Arctic offshore–State
974	Alaska Arctic offshore–Federal
975	Alaska Bering Sea offshore–general
976	Alaska Bering Sea offshore–State
977	Alaska Bering Sea offshore–Federal
978	Alaska Pacific offshore–general

Code	Province
979	Alaska Pacific offshore–State
980	Alaska Pacific offshore–Federal
987	Minnesota Lake Superior offshore
988	Wisconsin Lake Superior offshore
989	Michigan Lake Superior offshore
990	Indiana Lake Michigan offshore
991	Illinois Lake Michigan offshore
992	Wisconsin Lake Michigan offshore
993	Michigan Lake Michigan offshore
994	Michigan Lake Huron offshore
995	Michigan Lake Erie offshore
996	Ohio Lake Erie offshore
997	Pennsylvania Lake Erie offshore
998	New York Lake Erie offshore
999	New York Lake Ontario offshore

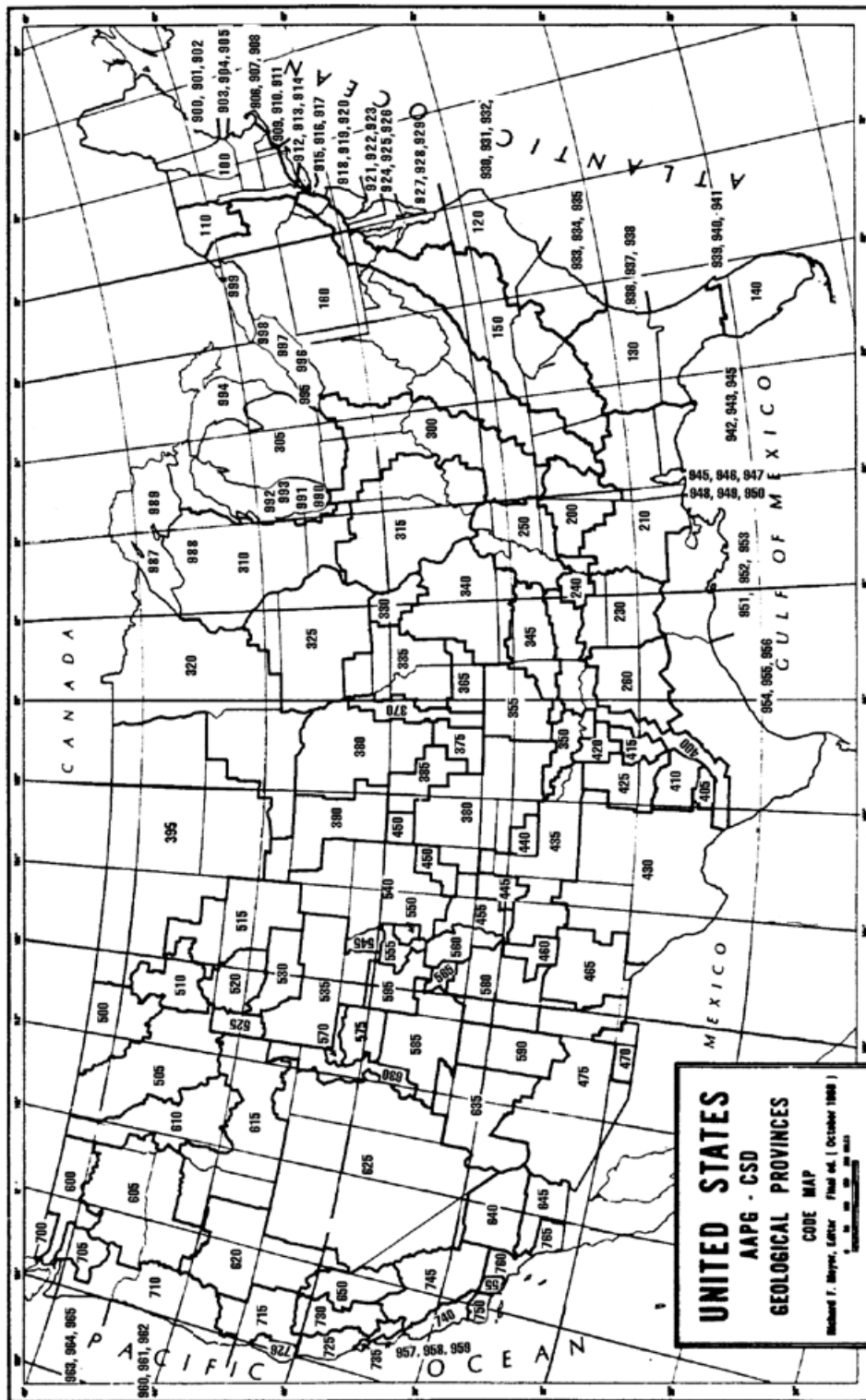


Figure 1. Geologic Provinces of the United States.

T a b l e 1

***Samples from Gas and Oil Wells
in the United States***

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21330	COMPONENT, MOLE PCT
STATE _____	ALABAMA	METHANE _____ 98.0
COUNTY _____	TUSCALOOSA	ETHANE _____ TRACE
FIELD _____	CEDAR COVE COAL DEGAS	PROPANE _____ 0.0
WELL NAME _____	GSPC-02-22-08-08-12-2873	N-BUTANE _____ 0.0
API _____	0112524212	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 8, T22S, R8W	N-PENTANE _____ 0.0
OWNER _____	ENERGEN RESOURCES CORP.	ISOPENTANE _____ 0.0
COMPLETED _____	021216	CYCLOPENTANE _____ --
SAMPLED _____	040614	HEXANES PLUS _____ 0.0
FORMATION _____	PENN-POTTSVILLE COAL	NITROGEN _____ 1.7
GEOLOGIC PROVINCE CODE _____	200	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2863	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	220	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.01
		HEATING VALUE* _____ 993
		SPECIFIC GRAVITY _____ 0.563

SAMPLE	20920	COMPONENT, MOLE PCT
STATE _____	ARKANSAS	METHANE _____ 97.8
COUNTY _____	SEBASTIAN	ETHANE _____ 1.4
FIELD _____	BOONEVILLE	PROPANE _____ 0.1
WELL NAME _____	STINEBUCK WILLIAMS NO. 1	N-BUTANE _____ 0.0
API _____	0313110872	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 13, T6N, R29W	N-PENTANE _____ 0.0
OWNER _____	HOUSTON EXPLORATION CO.	ISOPENTANE _____ 0.0
COMPLETED _____	001018	CYCLOPENTANE _____ --
SAMPLED _____	020219	HEXANES PLUS _____ 0.0
FORMATION _____	PENN-BASHAM	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	345	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2162	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.2
WELLHEAD PRESSURE, PSIG _____	170	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	110	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.05
		HEATING VALUE* _____ 1,017
		SPECIFIC GRAVITY _____ 0.563

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21142	COMPONENT, MOLE PCT
STATE _____	CALIFORNIA	METHANE _____ 90.5
COUNTY _____	GLENN	ETHANE _____ 0.2
FIELD _____	AFTON	PROPANE _____ 0.0
WELL NAME _____	LANAI NO. 3-3	N-BUTANE _____ 0.0
API _____	0402120734	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 3, T18N, R1W	N-PENTANE _____ 0.0
OWNER _____	ROYALE ENERGY, INC.	ISOPENTANE _____ 0.0
COMPLETED _____	000615	CYCLOPENTANE _____ --
SAMPLED _____	030418	HEXANES PLUS _____ 0.0
FORMATION _____	CRET-FORBES	NITROGEN _____ 9.3
GEOLOGIC PROVINCE CODE _____	730	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6106	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	650	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	200	CARBON DIOXIDE _____ TRACE
		HELIUM _____ TRACE
		HEATING VALUE* _____ 919
		SPECIFIC GRAVITY _____ 0.593

SAMPLE	21141	COMPONENT, MOLE PCT
STATE _____	CALIFORNIA	METHANE _____ 76.5
COUNTY _____	GLENN	ETHANE _____ 0.0
FIELD _____	AFTON	PROPANE _____ 0.0
WELL NAME _____	ANACAPA NO. 3-4	N-BUTANE _____ 0.0
API _____	0402120815	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 3, T18N, R1W	N-PENTANE _____ 0.0
OWNER _____	ROYALE ENERGY, INC.	ISOPENTANE _____ 0.0
COMPLETED _____	021201	CYCLOPENTANE _____ --
SAMPLED _____	030418	HEXANES PLUS _____ 0.0
FORMATION _____	CRET-KIONE	NITROGEN _____ 23.3
GEOLOGIC PROVINCE CODE _____	730	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2760	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1050	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.01
		HEATING VALUE* _____ 774
		SPECIFIC GRAVITY _____ 0.652

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21386	COMPONENT, MOLE PCT
STATE	CALIFORNIA	METHANE 86.6
COUNTY	MADERA	ETHANE 0.3
FIELD	ASH SLOUGH	PROPANE 0.1
WELL NAME	RODUNER NO. 1-32	N-BUTANE TRACE
API	0403920078	ISOBUTANE TRACE
LOCATION	SEC 32, T10S, R14E	N-PENTANE TRACE
OWNER	VERN JONES OIL & GAS CORP.	ISOPENTANE TRACE
COMPLETED	950818	CYCLOPENTANE --
SAMPLED	040800	HEXANES PLUS TRACE
FORMATION	CRET-BLEWETT	NITROGEN 12.9
GEOLOGIC PROVINCE CODE	745	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)		ARGON 0.0
MEASURED DEPTH	5594	HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	2400	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	200	CARBON DIOXIDE 0.1
		HELIUM 0.01
		HEATING VALUE* 886
		SPECIFIC GRAVITY 0.611

SAMPLE	21219	COMPONENT, MOLE PCT
STATE	CALIFORNIA	METHANE 83.7
COUNTY	KERN	ETHANE 1.1
FIELD	BUENA VISTA	PROPANE 0.3
WELL NAME	954-35B	N-BUTANE 0.1
API	0403018688	ISOBUTANE 0.1
LOCATION	SEC. 35, T31S, R23E	N-PENTANE TRACE
OWNER	OCCIDENTAL OF ELK HILLS, INC.	ISOPENTANE TRACE
COMPLETED	020400	CYCLOPENTANE --
SAMPLED	030716	HEXANES PLUS 0.1
FORMATION	MIOC-PHACOIDES	NITROGEN 8.9
GEOLOGIC PROVINCE CODE	745	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)		ARGON TRACE
MEASURED DEPTH	17722	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	11700	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	14000	CARBON DIOXIDE 5.7
		HELIUM 0.01
		HEATING VALUE* 886
		SPECIFIC GRAVITY 0.66

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21220	COMPONENT, MOLE PCT
STATE	CALIFORNIA	METHANE 85.1
COUNTY	KERN	ETHANE 1.1
FIELD	BUENA VISTA	PROPANE 0.3
WELL NAME	954-35B	N-BUTANE 0.1
API	0403018688	ISOBUTANE 0.1
LOCATION	SEC. 35, T31S, R23E	N-PENTANE TRACE
OWNER	OCCIDENTAL OF ELK HILLS, INC.	ISOPENTANE TRACE
COMPLETED	020400	CYCLOPENTANE --
SAMPLED	030716	HEXANES PLUS 0.1
FORMATION	MIOC-PHACOIDES	NITROGEN 7.3
GEOLOGIC PROVINCE CODE	745	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)		ARGON 0.1
MEASURED DEPTH	17722	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	11700	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	14000	CARBON DIOXIDE 5.8
		HELIUM 0.01
		HEATING VALUE* 901
		SPECIFIC GRAVITY 0.655

SAMPLE	21146	COMPONENT, MOLE PCT
STATE	CALIFORNIA	METHANE 78.2
COUNTY	KERN	ETHANE 7.8
FIELD	ELK HILLS	PROPANE 4.9
WELL NAME	387H-34S-RD3	N-BUTANE 1.7
API	0402981953	ISOBUTANE 0.8
LOCATION	SEC. 34, T30S, R24E	N-PENTANE 0.5
OWNER	OCCIDENTAL OF ELK HILLS, INC.	ISOPENTANE 0.5
COMPLETED	020823	CYCLOPENTANE --
SAMPLED	030425	HEXANES PLUS 1.1
FORMATION	MIOC-STEVENS	NITROGEN 3.4
GEOLOGIC PROVINCE CODE	745	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	6269	ARGON 0.1
MEASURED DEPTH	8325	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	150	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	155	CARBON DIOXIDE 0.9
		HELIUM 0.07
		HEATING VALUE* 1,230
		SPECIFIC GRAVITY 0.746

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21331	COMPONENT, MOLE PCT
STATE	CALIFORNIA	METHANE 80.2
COUNTY	KERN	ETHANE 8.5
FIELD	ELK HILLS	PROPANE 4.4
WELL NAME	24Z NO. 355	N-BUTANE 1.1
API	0402950776	ISOBUTANE 0.5
LOCATION	SEC. 24, T30S, R22E	N-PENTANE 0.2
OWNER	OCCIDENTAL OF ELK HILLS, INC.	ISOPENTANE 0.3
COMPLETED	010000	CYCLOPENTANE --
SAMPLED	040624	HEXANES PLUS 0.3
FORMATION	MIOC-STEVEN'S (24Z SAND)	NITROGEN 2.3
GEOLOGIC PROVINCE CODE	745	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	5025	ARGON 0.1
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	620	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	7300	CARBON DIOXIDE 2.1
		HELIUM 0.04
		HEATING VALUE* 1,159
		SPECIFIC GRAVITY 0.707

SAMPLE	21396	COMPONENT, MOLE PCT
STATE	CALIFORNIA	METHANE 84.9
COUNTY	KERN	ETHANE 0.9
FIELD	LOST HILLS	PROPANE 0.2
WELL NAME	BANKLINE, ET AL. BK7135W	N-BUTANE 0.1
API	0403022324	ISOBUTANE 0.1
LOCATION	SEC. 19, T26S, R21E	N-PENTANE TRACE
OWNER	AERA ENERGY, LLC	ISOPENTANE TRACE
COMPLETED	030531	CYCLOPENTANE --
SAMPLED	041102	HEXANES PLUS TRACE
FORMATION	MIOC-WILLIAMS	NITROGEN 2.8
GEOLOGIC PROVINCE CODE	745	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	2090	ARGON TRACE
MEASURED DEPTH	4835	HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	250	CARBON DIOXIDE 11.0
		HELIUM 0.00
		HEATING VALUE* 887
		SPECIFIC GRAVITY 0.681

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21302	COMPONENT, MOLE PCT
STATE _____	CALIFORNIA	METHANE _____ 89.4
COUNTY _____	SOLANO	ETHANE _____ 1.5
FIELD _____	RIO VISTA	PROPANE _____ 0.5
WELL NAME _____	RIO VISTA GAS UNIT NO. 244	N-BUTANE _____ 0.1
API _____	0409520049	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 2, T3N, R2E	N-PENTANE _____ TRACE
OWNER _____	CALPINE NATURAL GAS LP	ISOPENTANE _____ TRACE
COMPLETED _____	020718	CYCLOPENTANE _____ --
SAMPLED _____	040414	HEXANES PLUS _____ 0.2
FORMATION _____	EOCE-CAPAY	NITROGEN _____ 7.9
GEOLOGIC PROVINCE CODE _____	730	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5520	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	510	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	70	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.01
		HEATING VALUE* _____ 963
		SPECIFIC GRAVITY _____ 0.61

SAMPLE	21303	COMPONENT, MOLE PCT
STATE _____	CALIFORNIA	METHANE _____ 91.5
COUNTY _____	SACRAMENTO	ETHANE _____ 2.8
FIELD _____	RIO VISTA	PROPANE _____ 0.8
WELL NAME _____	RIO VISTA GAS UNIT NO. 237	N-BUTANE _____ 0.2
API _____	0406720367	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 30, T4N, R3E	N-PENTANE _____ TRACE
OWNER _____	CALPINE NATURAL GAS LP	ISOPENTANE _____ 0.1
COMPLETED _____	020213	CYCLOPENTANE _____ --
SAMPLED _____	040414	HEXANES PLUS _____ 0.1
FORMATION _____	EOCE-DOMENGINE	NITROGEN _____ 3.3
GEOLOGIC PROVINCE CODE _____	730	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4385	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	200	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	500	CARBON DIOXIDE _____ 1.0
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,018
		SPECIFIC GRAVITY _____ 0.609

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21309	COMPONENT, MOLE PCT
STATE _____	CALIFORNIA	METHANE _____ 94.5
COUNTY _____	SUTTER	ETHANE _____ 0.2
FIELD _____	SUTTER BUTTES	PROPANE _____ 0.0
WELL NAME _____	COMMUNITY 1 29-2	N-BUTANE _____ 0.0
API _____	0410120575	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 29, T16N, R1E	N-PENTANE _____ 0.0
OWNER _____	TRI UNION DEVELOPMENT CORP.	ISOPENTANE _____ 0.0
COMPLETED _____	020228	CYCLOPENTANE _____ --
SAMPLED _____	040507	HEXANES PLUS _____ 0.0
FORMATION _____	CRET-FORBES	NITROGEN _____ 5.2
GEOLOGIC PROVINCE CODE _____	730	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4508	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	400	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	130	CARBON DIOXIDE _____ 0.1
		HELIUM _____ TRACE
		HEATING VALUE* _____ 961
		SPECIFIC GRAVITY _____ 0.577

SAMPLE	21281	COMPONENT, MOLE PCT
STATE _____	CALIFORNIA	METHANE _____ 84.2
COUNTY _____	YOLO	ETHANE _____ TRACE
FIELD _____	TODHUNTERS LAKE	PROPANE _____ 0.0
WELL NAME _____	IOC NO. 18	N-BUTANE _____ TRACE
API _____	0411321176	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 33, T9N, R3E	N-PENTANE _____ 0.0
OWNER _____	EQUITY OIL CO.	ISOPENTANE _____ 0.0
COMPLETED _____	030320	CYCLOPENTANE _____ --
SAMPLED _____	030922	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-MOKELUMNE RIVER	NITROGEN _____ 15.4
GEOLOGIC PROVINCE CODE _____	730	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____	3394	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1240	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	400	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.10
		HEATING VALUE* _____ 857
		SPECIFIC GRAVITY _____ 0.62

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21280	COMPONENT, MOLE PCT
STATE	CALIFORNIA	METHANE 81.2
COUNTY	KERN	ETHANE 5.0
FIELD	WHEELER RIDGE	PROPANE 2.7
WELL NAME	KCL NO. D 74-29	N-BUTANE 0.9
API	0402920804	ISOBUTANE 0.5
LOCATION	SEC. 29, T11N, R20W	N-PENTANE 0.2
OWNER	VINTAGE PETROLEUM, INC.	ISOPENTANE 0.3
COMPLETED	990101	CYCLOPENTANE --
SAMPLED	030926	HEXANES PLUS 0.6
FORMATION	MIOC-MIOCENE, OLIG-OLIGOCENE	NITROGEN 7.8
GEOLOGIC PROVINCE CODE	745	OXYGEN 0.5
TRUE VERTICAL DEPTH (FT)	7345	ARGON 0.0
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD		CARBON DIOXIDE 0.2
		HELIUM 0.14
		HEATING VALUE* 1.073
		SPECIFIC GRAVITY 0.685

SAMPLE	21365	COMPONENT, MOLE PCT
STATE	COLORADO	METHANE 93.9
COUNTY	SAN MIGUEL	ETHANE 1.0
FIELD	ANDY'S MESA	PROPANE 0.2
WELL NAME	ANDY'S MESA FEDERAL 6	N-BUTANE 0.1
API	0511306005	ISOBUTANE 0.1
LOCATION	SEC. 21, T44N, R16W	N-PENTANE TRACE
OWNER	TOM BROWN, INC.	ISOPENTANE 0.1
COMPLETED	680325	CYCLOPENTANE --
SAMPLED	040825	HEXANES PLUS 0.1
FORMATION	PERM-CUTLER	NITROGEN 4.4
GEOLOGIC PROVINCE CODE	585	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	6514	ARGON TRACE
MEASURED DEPTH		HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	2250	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	5200	CARBON DIOXIDE TRACE
		HELIUM 0.09
		HEATING VALUE* 989
		SPECIFIC GRAVITY 0.587

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20830	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 94.4
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.0
FIELD _____	ANDY'S MESA	PROPANE _____ 0.2
WELL NAME _____	ANDY'S MESA FEDERAL 13	N-BUTANE _____ 0.1
API _____	0511306070	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 20, T44N, R16W	N-PENTANE _____ TRACE
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ TRACE
COMPLETED _____	001211	CYCLOPENTANE _____ --
SAMPLED _____	010829	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-CUTLER	NITROGEN _____ 4.1
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8792	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1575	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1527	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.09
		HEATING VALUE* _____ 987
		SPECIFIC GRAVITY _____ 0.582

SAMPLE	21354	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 91.5
COUNTY _____	SAN MIGUEL	ETHANE _____ 2.1
FIELD _____	ANDY'S MESA	PROPANE _____ 0.5
WELL NAME _____	ANDY'S MESA FEDERAL 11-F34	N-BUTANE _____ 0.2
API _____	0511306027	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 34, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	780928	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CUTLER	NITROGEN _____ 5.1
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4155	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1,001
		SPECIFIC GRAVITY _____ 0.602

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21377	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 87.5
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.8
FIELD _____	ANDY'S MESA	PROPANE _____ 0.6
WELL NAME _____	FOSSIL FEDERAL 1-20	N-BUTANE _____ 0.3
API _____	0511306101	ISOBUTANE _____ 0.2
LOCATION _____	SEC 20, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	031030	CYCLOPENTANE _____ --
SAMPLED _____	040826	HEXANES PLUS _____ 0.4
FORMATION _____	PERM-CUTLER	NITROGEN _____ 8.7
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.11
		HEATING VALUE* _____ 979
		SPECIFIC GRAVITY _____ 0.627

SAMPLE	21360	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 88.9
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.7
FIELD _____	ANDY'S MESA	PROPANE _____ 0.3
WELL NAME _____	ANDY'S MESA FEDERAL 27	N-BUTANE _____ 0.1
API _____	0511306102	ISOBUTANE _____ 0.1
LOCATION _____	SEC 28, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	021117	CYCLOPENTANE _____ --
SAMPLED _____	040825	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CUTLER	NITROGEN _____ 8.4
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6920	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3859	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.13
		HEATING VALUE* _____ 959
		SPECIFIC GRAVITY _____ 0.61

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20827	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.5
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.8
FIELD _____	ANDY'S MESA	PROPANE _____ 0.4
WELL NAME _____	ANDY'S MESA UNIT FEDERAL 16	N-BUTANE _____ 0.1
API _____	0511306071	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 28, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	000717	CYCLOPENTANE _____ --
SAMPLED _____	010829	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-CUTLER	NITROGEN _____ 6.6
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7240	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1252	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	910	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.14
		HEATING VALUE* _____ 978
		SPECIFIC GRAVITY _____ 0.603

SAMPLE	21363	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 88.0
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.9
FIELD _____	ANDY'S MESA	PROPANE _____ 0.3
WELL NAME _____	ANDY'S MESA FEDERAL 19	N-BUTANE _____ 0.1
API _____	0511306085	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 29, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ TRACE
COMPLETED _____	020729	CYCLOPENTANE _____ --
SAMPLED _____	040825	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CUTLER	NITROGEN _____ 9.1
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6920	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2330	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.14
		HEATING VALUE* _____ 952
		SPECIFIC GRAVITY _____ 0.613

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21357	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 88.1
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.9
FIELD _____	ANDY'S MESA	PROPANE _____ 0.4
WELL NAME _____	ANDY'S MESA FEDERAL 25	N-BUTANE _____ 0.1
API _____	0511306097	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 28, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	020816	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CUTLER	NITROGEN _____ 8.9
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5584	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3950	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.15
		HEATING VALUE* _____ 955
		SPECIFIC GRAVITY _____ 0.613

SAMPLE	21356	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 87.1
COUNTY _____	SAN MIGUEL	ETHANE _____ 2.4
FIELD _____	ANDY'S MESA	PROPANE _____ 0.6
WELL NAME _____	ANDY'S MESA 33	N-BUTANE _____ 0.3
API _____	0511306117	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 28, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	030628	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.5
FORMATION _____	PERM-CUTLER	NITROGEN _____ 8.6
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7242	ARGON _____ 0.1
MEASURED DEPTH _____	8004	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	4350	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.15
		HEATING VALUE* _____ 984
		SPECIFIC GRAVITY _____ 0.629

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20826	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 87.2
COUNTY _____	SAN MIGUEL	ETHANE _____ 2.2
FIELD _____	ANDY'S MESA	PROPANE _____ 0.4
WELL NAME _____	ANDY'S MESA UNIT 1	N-BUTANE _____ 0.1
API _____	0511305080	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 34, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	670309	CYCLOPENTANE _____ --
SAMPLED _____	010829	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-CUTLER	NITROGEN _____ 9.5
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8442	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1221	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3075	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.18
		HEATING VALUE* _____ 951
		SPECIFIC GRAVITY _____ 0.616

SAMPLE	21366	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 87.5
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.1
FIELD _____	ANDY'S MESA	PROPANE _____ 0.2
WELL NAME _____	ANDY'S MESA FEDERAL 13	N-BUTANE _____ 0.1
API _____	0511306070	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 20, T44N, R16W	N-PENTANE _____ TRACE
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	001211	CYCLOPENTANE _____ --
SAMPLED _____	040825	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CUTLER	NITROGEN _____ 10.5
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6372	ARGON _____ TRACE
MEASURED DEPTH _____	8887	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1527	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.22
		HEATING VALUE* _____ 930
		SPECIFIC GRAVITY _____ 0.614

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21364	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 93.4
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.9
FIELD _____	ANDY'S MESA	PROPANE _____ 0.5
WELL NAME _____	ANDY'S MESA FEDERAL 32	N-BUTANE _____ 0.2
API _____	0511306112	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 29, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	031024	CYCLOPENTANE _____ --
SAMPLED _____	040825	HEXANES PLUS _____ 0.3
FORMATION _____	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN _____ 3.2
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5389	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	6424	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.05
		HEATING VALUE* _____ 1,023
		SPECIFIC GRAVITY _____ 0.598

SAMPLE	21367	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 94.0
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.0
FIELD _____	ANDY'S MESA	PROPANE _____ 0.2
WELL NAME _____	ANDY'S MESA FEDERAL 29	N-BUTANE _____ 0.1
API _____	0511306122	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 20, T44N, R16W	N-PENTANE _____ TRACE
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	031016	CYCLOPENTANE _____ --
SAMPLED _____	040825	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN _____ 4.1
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5354	ARGON _____ TRACE
MEASURED DEPTH _____	8472	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1250	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	4036	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.07
		HEATING VALUE* _____ 993
		SPECIFIC GRAVITY _____ 0.587

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21359	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 91.5
COUNTY _____	SAN MIGUEL	ETHANE _____ 2.3
FIELD _____	ANDY'S MESA	PROPANE _____ 0.6
WELL NAME _____	ANDY'S MESA FEDERAL 20	N-BUTANE _____ 0.2
API _____	0511306084	ISOBUTANE _____ 0.2
LOCATION _____	SEC 28, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	020615	CYCLOPENTANE _____ --
SAMPLED _____	040824	HEXANES PLUS _____ 0.4
FORMATION _____	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN _____ 4.5
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6340	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2250	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.08
		HEATING VALUE* _____ 1,022
		SPECIFIC GRAVITY _____ 0.609

SAMPLE	21358	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.6
COUNTY _____	SAN MIGUEL	ETHANE _____ 2.6
FIELD _____	ANDY'S MESA	PROPANE _____ 0.6
WELL NAME _____	ANDY'S MESA 40	N-BUTANE _____ 0.3
API _____	0511306128	ISOBUTANE _____ 0.2
LOCATION _____	SEC 28, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	040526	CYCLOPENTANE _____ --
SAMPLED _____	040824	HEXANES PLUS _____ 0.6
FORMATION _____	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN _____ 4.7
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6069	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	7342	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1,032
		SPECIFIC GRAVITY _____ 0.619

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21352	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.5
COUNTY _____	SAN MIGUEL	ETHANE _____ 2.0
FIELD _____	ANDY'S MESA	PROPANE _____ 0.5
WELL NAME _____	ANDY'S MESA 36	N-BUTANE _____ 0.2
API _____	0511306124	ISOBUTANE _____ 0.1
LOCATION _____	SEC 34, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	031229	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.3
FORMATION _____	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN _____ 6.0
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6508	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	950	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	885	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.10
		HEATING VALUE* _____ 997
		SPECIFIC GRAVITY _____ 0.609

SAMPLE	21353	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 89.2
COUNTY _____	SAN MIGUEL	ETHANE _____ 3.2
FIELD _____	ANDY'S MESA	PROPANE _____ 0.8
WELL NAME _____	ANDY'S MESA 59	N-BUTANE _____ 0.3
API _____	0511306135	ISOBUTANE _____ 0.3
LOCATION _____	SEC 34, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	040731	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.5
FORMATION _____	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN _____ 5.3
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5032	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2475	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1,031
		SPECIFIC GRAVITY _____ 0.623

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21355	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 88.2
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.9
FIELD _____	ANDY'S MESA	PROPANE _____ 0.4
WELL NAME _____	ANDY'S MESA 55	N-BUTANE _____ 0.2
API _____	0511306141	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 34, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	040714	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN _____ 8.6
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5480	ARGON _____ TRACE
MEASURED DEPTH _____	8556	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1248	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.16
		HEATING VALUE* _____ 963
		SPECIFIC GRAVITY _____ 0.615

SAMPLE	21351	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 84.6
COUNTY _____	SAN MIGUEL	ETHANE _____ 2.1
FIELD _____	ANDY'S MESA	PROPANE _____ 0.4
WELL NAME _____	ANDY'S MESA 34	N-BUTANE _____ 0.1
API _____	0511306111	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 34, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	031108	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN _____ 12.2
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5031	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	960	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3889	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.20
		HEATING VALUE* _____ 924
		SPECIFIC GRAVITY _____ 0.628

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21350	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 79.4
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.6
FIELD _____	ANDY'S MESA	PROPANE _____ 0.3
WELL NAME _____	ANDY'S MESA 58	N-BUTANE _____ 0.1
API _____	0511306139	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 34, T44N, R16W	N-PENTANE _____ TRACE
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	040710	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN _____ 18.1
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ TRACE
MEASURED DEPTH _____	7218	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1170	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.27
		HEATING VALUE* _____ 855
		SPECIFIC GRAVITY _____ 0.646

SAMPLE	20829	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 94.7
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.0
FIELD _____	ANDY'S MESA	PROPANE _____ 0.2
WELL NAME _____	ANDY'S MESA FEDERAL 14	N-BUTANE _____ 0.1
API _____	0511306077	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 21, T44N, R16W	N-PENTANE _____ TRACE
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ TRACE
COMPLETED _____	001211	CYCLOPENTANE _____ --
SAMPLED _____	010829	HEXANES PLUS _____ 0.1
FORMATION _____	PENN-HONAKER TRAIL	NITROGEN _____ 3.7
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8764	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1750	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1372	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.07
		HEATING VALUE* _____ 992
		SPECIFIC GRAVITY _____ 0.581

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21362	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.1
COUNTY _____	SAN MIGUEL	ETHANE _____ 2.7
FIELD _____	ANDY'S MESA	PROPANE _____ 0.7
WELL NAME _____	ANDY'S MESA FEDERAL 24	N-BUTANE _____ 0.3
API _____	0511306100	ISOBUTANE _____ 0.2
LOCATION _____	SEC 29, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	031114	CYCLOPENTANE _____ --
SAMPLED _____	040825	HEXANES PLUS _____ 0.4
FORMATION _____	PENN-HONAKER TRAIL	NITROGEN _____ 5.2
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7216	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3870	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1,020
		SPECIFIC GRAVITY _____ 0.616

SAMPLE	21361	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.2
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.5
FIELD _____	ANDY'S MESA	PROPANE _____ 0.3
WELL NAME _____	ANDY'S MESA FEDERAL 39	N-BUTANE _____ 0.1
API _____	0511306130	ISOBUTANE _____ 0.1
LOCATION _____	SEC 28, T44N, R16W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	040619	CYCLOPENTANE _____ --
SAMPLED _____	040825	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-HONAKER TRAIL	NITROGEN _____ 7.1
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.14
		HEATING VALUE* _____ 975
		SPECIFIC GRAVITY _____ 0.606

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20828	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 95.1
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.4
FIELD _____	ANDY'S MESA	PROPANE _____ 0.3
WELL NAME _____	ANDY'S MESA FEDERAL 17	N-BUTANE _____ 0.1
API _____	0511306079	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 28, T44N, R16W	N-PENTANE _____ TRACE
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	001228	CYCLOPENTANE _____ --
SAMPLED _____	010829	HEXANES PLUS _____ 0.1
FORMATION _____	PENN-ISMAY	NITROGEN _____ 2.7
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8242	ARGON _____ 0.0
MEASURED DEPTH _____	8956	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1960	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1493	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.05
		HEATING VALUE* _____ 1,009
		SPECIFIC GRAVITY _____ 0.582

SAMPLE	20960	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 42.7
COUNTY _____	MESA	ETHANE _____ 1.6
FIELD _____	BAR X	PROPANE _____ 0.7
WELL NAME _____	GOVERNMENT NO. 3	N-BUTANE _____ 0.3
API _____	0507708367	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 1, T9S, R104W	N-PENTANE _____ 0.1
OWNER _____	CRESCENDO ENERGY	ISOPENTANE _____ 0.2
COMPLETED _____	810501	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.1
FORMATION _____	JURA-ENTRADA	NITROGEN _____ 28.4
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3065	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	8377	CARBON DIOXIDE _____ 24.5
		HELIUM _____ 0.93
		HEATING VALUE* _____ 519
		SPECIFIC GRAVITY _____ 0.938

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20984	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 42.5
COUNTY _____	MESA	ETHANE _____ 1.6
FIELD _____	BAR X	PROPANE _____ 0.7
WELL NAME _____	GOVERNMENT NO. 1	N-BUTANE _____ 0.3
API _____	0507708173	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 1, T9S, R104W	N-PENTANE _____ 0.1
OWNER _____	CRESCENDO ENERGY	ISOPENTANE _____ 0.2
COMPLETED _____	791101	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.1
FORMATION _____	JURA-ENTRADA	NITROGEN _____ 28.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3073	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2700	CARBON DIOXIDE _____ 24.8
		HELIUM _____ 0.93
		HEATING VALUE* _____ 516
		SPECIFIC GRAVITY _____ 0.941

SAMPLE	20985	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 42.9
COUNTY _____	MESA	ETHANE _____ 1.6
FIELD _____	BAR X	PROPANE _____ 0.7
WELL NAME _____	GOVERNMENT NO. 2-A	N-BUTANE _____ 0.3
API _____	0507708182	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 35, T8S, R104W	N-PENTANE _____ 0.1
OWNER _____	CRESCENDO ENERGY	ISOPENTANE _____ 0.2
COMPLETED _____	790701	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.1
FORMATION _____	JURA-ENTRADA	NITROGEN _____ 28.4
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3102	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	15500	CARBON DIOXIDE _____ 24.1
		HELIUM _____ 0.94
		HEATING VALUE* _____ 521
		SPECIFIC GRAVITY _____ 0.935

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20953	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 88.6
COUNTY _____	GARFIELD	ETHANE _____ 4.6
FIELD _____	BIRDLE	PROPANE _____ 1.5
WELL NAME _____	FEDERAL NO. 5-3	N-BUTANE _____ 0.4
API _____	0504506150	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 5, T8S, R104W	N-PENTANE _____ 0.2
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.2
COMPLETED _____	851108	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 2.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3773	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	113	CARBON DIOXIDE _____ 1.1
		HELIUM _____ 0.20
		HEATING VALUE* _____ 1,078
		SPECIFIC GRAVITY _____ 0.64

SAMPLE	20983	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 79.8
COUNTY _____	MESA	ETHANE _____ 6.2
FIELD _____	BRIDLE	PROPANE _____ 3.3
WELL NAME _____	FEDERAL NO. 41-19	N-BUTANE _____ 1.1
API _____	0507708287	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 19, T8S, R104W	N-PENTANE _____ 0.4
OWNER _____	LINN BROTHERS OIL & GAS CORP.	ISOPENTANE _____ 0.4
COMPLETED _____	800709	CYCLOPENTANE _____ --
SAMPLED _____	020619	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 6.7
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3092	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	953	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.35
		HEATING VALUE* _____ 1,109
		SPECIFIC GRAVITY _____ 0.7

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20947	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 74.0
COUNTY _____	GARFIELD	ETHANE _____ 4.3
FIELD _____	BRIDLE	PROPANE _____ 1.8
WELL NAME _____	FEDERAL NO. 4-10	N-BUTANE _____ 0.6
API _____	0504506875	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 10, T8S, R104W	N-PENTANE _____ 0.3
OWNER _____	NATIONAL FUEL CORP.	ISOPENTANE _____ 0.3
COMPLETED _____	940907	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 7.9
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3124	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	250	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	150	CARBON DIOXIDE _____ 9.3
		HELIUM _____ 0.42
		HEATING VALUE* _____ 954
		SPECIFIC GRAVITY _____ 0.752

SAMPLE	20946	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 71.2
COUNTY _____	GARFIELD	ETHANE _____ 3.9
FIELD _____	BRIDLE	PROPANE _____ 1.7
WELL NAME _____	FEDERAL NO. 14-2	N-BUTANE _____ 0.6
API _____	0504506874	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 2, T8S, R104W	N-PENTANE _____ 0.2
OWNER _____	NATIONAL FUEL CORP.	ISOPENTANE _____ 0.3
COMPLETED _____	940919	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 11.1
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3454	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	210	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	115	CARBON DIOXIDE _____ 9.7
		HELIUM _____ 0.56
		HEATING VALUE* _____ 903
		SPECIFIC GRAVITY _____ 0.761

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20952	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 79.8
COUNTY _____	GARFIELD	ETHANE _____ 4.4
FIELD _____	BRIDLE	PROPANE _____ 1.7
WELL NAME _____	FEDERAL NO. 22-9	N-BUTANE _____ 0.6
API _____	0504506136	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 9, T8S, R104W	N-PENTANE _____ 0.3
OWNER _____	NATIONAL FUEL CORP.	ISOPENTANE _____ 0.3
COMPLETED _____	780109	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA, JURA-MORRISON	NITROGEN _____ 7.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3328	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	250	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	110	CARBON DIOXIDE _____ 4.3
		HELIUM _____ 0.42
		HEATING VALUE* _____ 1,008
		SPECIFIC GRAVITY _____ 0.699

SAMPLE	20948	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 76.7
COUNTY _____	GARFIELD	ETHANE _____ 3.9
FIELD _____	BRIDLE	PROPANE _____ 1.6
WELL NAME _____	FEDERAL NO. 43-3	N-BUTANE _____ 0.5
API _____	0504506129	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 3, T8S, R104W	N-PENTANE _____ 0.2
OWNER _____	NATIONAL FUEL CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	771220	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA, JURA-MORRISON	NITROGEN _____ 8.0
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3254	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	200	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	115	CARBON DIOXIDE _____ 7.5
		HELIUM _____ 0.44
		HEATING VALUE* _____ 950
		SPECIFIC GRAVITY _____ 0.723

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20951	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 74.5
COUNTY _____	GARFIELD	ETHANE _____ 4.3
FIELD _____	BRIDLE	PROPANE _____ 1.8
WELL NAME _____	FEDERAL NO. 2-9	N-BUTANE _____ 0.6
API _____	0504506091	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 9, T8S, R104W	N-PENTANE _____ 0.2
OWNER _____	NATIONAL FUEL CORP.	ISOPENTANE _____ 0.3
COMPLETED _____	761003	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA, JURA-MORRISON	NITROGEN _____ 8.0
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3140	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	205	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	90	CARBON DIOXIDE _____ 8.9
		HELIUM _____ 0.44
		HEATING VALUE* _____ 954
		SPECIFIC GRAVITY _____ 0.747

SAMPLE	20950	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 78.1
COUNTY _____	GARFIELD	ETHANE _____ 4.0
FIELD _____	BRIDLE	PROPANE _____ 1.5
WELL NAME _____	FEDERAL NO. 1-9	N-BUTANE _____ 0.5
API _____	0504506087	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 9, T8S, R104W	N-PENTANE _____ 0.2
OWNER _____	NATIONAL FUEL CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	760315	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA, JURA-MORRISON	NITROGEN _____ 8.5
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2952	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	220	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	140	CARBON DIOXIDE _____ 5.6
		HELIUM _____ 0.46
		HEATING VALUE* _____ 968
		SPECIFIC GRAVITY _____ 0.708

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21317	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 93.9
COUNTY _____	YUMA	ETHANE _____ 1.1
FIELD _____	BUFFALO GRASS	PROPANE _____ 0.5
WELL NAME _____	DAY 8-23	N-BUTANE _____ 0.2
API _____	0512508690	ISOBUTANE _____ 0.1
LOCATION _____	SEC 23, T4N, R47W	N-PENTANE _____ TRACE
OWNER _____	J-W OPERATING CO.	ISOPENTANE _____ 0.1
COMPLETED _____	030417	CYCLOPENTANE _____ --
SAMPLED _____	040526	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-NIOBRARA	NITROGEN _____ 3.5
GEOLOGIC PROVINCE CODE _____	540	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2701	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1712	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.07
		HEATING VALUE* _____ 999
		SPECIFIC GRAVITY _____ 0.59

SAMPLE	20963	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 70.9
COUNTY _____	GARFIELD	ETHANE _____ 4.0
FIELD _____	CARBONERA	PROPANE _____ 1.6
WELL NAME _____	FEDERAL NO. 27-8	N-BUTANE _____ 0.5
API _____	0504506106	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 27, T7S, R104W	N-PENTANE _____ 0.2
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.3
COMPLETED _____	770326	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 8.0
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3789	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1405	CARBON DIOXIDE _____ 13.3
		HELIUM _____ 0.44
		HEATING VALUE* _____ 898
		SPECIFIC GRAVITY _____ 0.781

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21323	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 65.2
COUNTY _____	MORGAN	ETHANE _____ 8.5
FIELD _____	COLE	PROPANE _____ 10.1
WELL NAME _____	J. FARNIK NO. 34-9	N-BUTANE _____ 4.3
API _____	0508707839	ISOBUTANE _____ 1.1
LOCATION _____	SEC. 9, T6N, R58W	N-PENTANE _____ 1.3
OWNER _____	HYNDREX RESOURCES	ISOPENTANE _____ 1.0
COMPLETED _____	841110	CYCLOPENTANE _____ --
SAMPLED _____	040527	HEXANES PLUS _____ 2.3
FORMATION _____	CRET-DAKOTA D	NITROGEN _____ 4.2
GEOLOGIC PROVINCE CODE _____	540	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6356	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	46	CARBON DIOXIDE _____ 1.8
		HELIUM _____ 0.13
		HEATING VALUE* _____ 1,446
		SPECIFIC GRAVITY _____ 0.907

SAMPLE	20997	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 96.5
COUNTY _____	RIO BLANCO	ETHANE _____ 1.0
FIELD _____	CORRAL CREEK	PROPANE _____ 0.2
WELL NAME _____	CORRAL CREEK FEDERAL D.NO. 4507	N-BUTANE _____ TRACE
API _____	0510308441	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 36, T1S, R100W	N-PENTANE _____ TRACE
OWNER _____	ENCANA OIL & GAS (USA) INC.	ISOPENTANE _____ TRACE
COMPLETED _____	811203	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ TRACE
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11652	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1119	CARBON DIOXIDE _____ 1.9
		HELIUM _____ 0.01
		HEATING VALUE* _____ 1,003
		SPECIFIC GRAVITY _____ 0.582

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20996	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 92.2
COUNTY _____	RIO BLANCO	ETHANE _____ 3.9
FIELD _____	CORRAL CREEK	PROPANE _____ 1.2
WELL NAME _____	CORRAL CREEK FEDERAL B NO. 4509	N-BUTANE _____ 0.3
API _____	0510308385	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 31, T1S, R99W	N-PENTANE _____ 0.1
OWNER _____	ENCANA OIL & GAS (USA) INC.	ISOPENTANE _____ 0.1
COMPLETED _____	000415	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-MANCOS B	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8986	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	947	CARBON DIOXIDE _____ 1.5
		HELIUM _____ 0.01
		HEATING VALUE* _____ 1,072
		SPECIFIC GRAVITY _____ 0.618

SAMPLE	20995	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 82.1
COUNTY _____	RIO BLANCO	ETHANE _____ 9.6
FIELD _____	CORRAL CREEK	PROPANE _____ 4.5
WELL NAME _____	SAGEBRUSH HILLS NO. 4502	N-BUTANE _____ 1.1
API _____	0510308082	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 30, T1S, R99W	N-PENTANE _____ 0.2
OWNER _____	ENCANA OIL & GAS (USA) INC.	ISOPENTANE _____ 0.3
COMPLETED _____	000518	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-SEGO	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7264	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	961	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,208
		SPECIFIC GRAVITY _____ 0.697

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21372	COMPONENT, MOLE PCT
STATE	COLORADO	METHANE 95.8
COUNTY	SAN MIGUEL	ETHANE 0.6
FIELD	DOUBLE EAGLE	PROPANE 0.1
WELL NAME	FOSSIL FEDERAL 2-18	N-BUTANE TRACE
API	0511306099	ISOBUTANE TRACE
LOCATION	SEC. 18, T44N, R16W	N-PENTANE 0.0
OWNER	CABOT OIL & GAS CORP.	ISOPENTANE TRACE
COMPLETED	020907	CYCLOPENTANE --
SAMPLED	040826	HEXANES PLUS TRACE
FORMATION	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN 3.2
GEOLOGIC PROVINCE CODE	585	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	5884	ARGON 0.0
MEASURED DEPTH	9380	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	1140	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	875	CARBON DIOXIDE 0.1
		HELIUM 0.03
		HEATING VALUE* 985
		SPECIFIC GRAVITY 0.574

SAMPLE	21373	COMPONENT, MOLE PCT
STATE	COLORADO	METHANE 94.1
COUNTY	SAN MIGUEL	ETHANE 1.1
FIELD	DOUBLE EAGLE	PROPANE 0.2
WELL NAME	FOSSIL FEDERAL 4-20D	N-BUTANE 0.1
API	0511306108	ISOBUTANE 0.1
LOCATION	SEC. 20, T44N, R16W	N-PENTANE TRACE
OWNER	CABOT OIL & GAS CORP.	ISOPENTANE 0.1
COMPLETED	021120	CYCLOPENTANE --
SAMPLED	040826	HEXANES PLUS 0.2
FORMATION	PERM-CUTLER, PENN-HONAKER TRAIL	NITROGEN 4.0
GEOLOGIC PROVINCE CODE	585	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	5765	ARGON TRACE
MEASURED DEPTH	9730	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	2647	CARBON DIOXIDE 0.1
		HELIUM 0.07
		HEATING VALUE* 995
		SPECIFIC GRAVITY 0.586

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21368	COMPONENT, MOLE PCT
STATE	COLORADO	METHANE 95.6
COUNTY	SAN MIGUEL	ETHANE 1.1
FIELD	DOUBLE EAGLE	PROPANE 0.3
WELL NAME	FOSSIL FEDERAL 1-18	N-BUTANE 0.1
API	0511306096	ISOBUTANE 0.1
LOCATION	SEC 18, T44N, R16W	N-PENTANE TRACE
OWNER	CABOT OIL & GAS CORP.	ISOPENTANE 0.1
COMPLETED	021129	CYCLOPENTANE --
SAMPLED	040826	HEXANES PLUS 0.1
FORMATION	PENN-HONAKER TRAIL	NITROGEN 2.3
GEOLOGIC PROVINCE CODE	585	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	8045	ARGON TRACE
MEASURED DEPTH	9715	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	19789	CARBON DIOXIDE 0.4
		HELIUM 0.03
		HEATING VALUE* 1.007
		SPECIFIC GRAVITY 0.581

SAMPLE	21370	COMPONENT, MOLE PCT
STATE	COLORADO	METHANE 94.2
COUNTY	SAN MIGUEL	ETHANE 1.2
FIELD	DOUBLE EAGLE	PROPANE 0.3
WELL NAME	FOSSIL FEDERAL 1-19	N-BUTANE 0.1
API	0511306083	ISOBUTANE 0.1
LOCATION	SEC 18, T44N, R16W	N-PENTANE 0.1
OWNER	CABOT OIL & GAS CORP.	ISOPENTANE 0.1
COMPLETED	011206	CYCLOPENTANE --
SAMPLED	040826	HEXANES PLUS 0.2
FORMATION	PENN-HONAKER TRAIL	NITROGEN 3.3
GEOLOGIC PROVINCE CODE	585	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	7736	ARGON TRACE
MEASURED DEPTH	9858	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	6063	CARBON DIOXIDE 0.4
		HELIUM 0.05
		HEATING VALUE* 1.004
		SPECIFIC GRAVITY 0.59

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21369	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 86.5
COUNTY _____	SAN MIGUEL	ETHANE _____ 3.4
FIELD _____	DOUBLE EAGLE	PROPANE _____ 1.4
WELL NAME _____	FOSSIL FEDERAL 4-19	N-BUTANE _____ 0.6
API _____	0511306119	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 18, T44N, R16W	N-PENTANE _____ 0.2
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ 0.3
COMPLETED _____	031015	CYCLOPENTANE _____ --
SAMPLED _____	040826	HEXANES PLUS _____ 0.5
FORMATION _____	PENN-HONAKER TRAIL	NITROGEN _____ 6.4
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8204	ARGON _____ 0.1
MEASURED DEPTH _____	9950	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	6147	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1,051
		SPECIFIC GRAVITY _____ 0.648

SAMPLE	21376	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.2
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.1
FIELD _____	DOUBLE EAGLE	PROPANE _____ 0.3
WELL NAME _____	FOSSIL FEDERAL 8	N-BUTANE _____ 0.2
API _____	0511306074	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 13, T44N, R17W	N-PENTANE _____ 0.1
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	031128	CYCLOPENTANE _____ --
SAMPLED _____	040826	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-HONAKER TRAIL	NITROGEN _____ 7.3
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8316	ARGON _____ TRACE
MEASURED DEPTH _____	10210	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	891	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.10
		HEATING VALUE* _____ 973
		SPECIFIC GRAVITY _____ 0.61

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21371	COMPONENT, MOLE PCT
STATE	COLORADO	METHANE 81.7
COUNTY	SAN MIGUEL	ETHANE 2.3
FIELD	DOUBLE EAGLE	PROPANE 0.6
WELL NAME	FOSSIL FEDERAL 2-19	N-BUTANE 0.3
API	0511306073	ISOBUTANE 0.3
LOCATION	SEC 19, T44N, R16W	N-PENTANE 0.1
OWNER	CABOT OIL & GAS CORP.	ISOPENTANE 0.2
COMPLETED	010829	CYCLOPENTANE --
SAMPLED	040826	HEXANES PLUS 0.6
FORMATION	PENN-HONAKER TRAIL	NITROGEN 13.5
GEOLOGIC PROVINCE CODE	585	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	8370	ARGON 0.1
MEASURED DEPTH	9525	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	3071	CARBON DIOXIDE 0.0
		HELIUM 0.17
		HEATING VALUE* 946
		SPECIFIC GRAVITY 0.657

SAMPLE	21375	COMPONENT, MOLE PCT
STATE	COLORADO	METHANE 84.9
COUNTY	SAN MIGUEL	ETHANE 1.3
FIELD	DOUBLE EAGLE	PROPANE 0.3
WELL NAME	FOSSIL FEDERAL 1-13	N-BUTANE 0.2
API	0511306091	ISOBUTANE 0.2
LOCATION	SEC 13, T44N, R17W	N-PENTANE 0.1
OWNER	CABOT OIL & GAS CORP.	ISOPENTANE 0.1
COMPLETED	021030	CYCLOPENTANE --
SAMPLED	040826	HEXANES PLUS 0.3
FORMATION	PENN-HONAKER TRAIL	NITROGEN 12.2
GEOLOGIC PROVINCE CODE	585	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	8267	ARGON 0.1
MEASURED DEPTH	9918	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	1950	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	8400	CARBON DIOXIDE 0.1
		HELIUM 0.19
		HEATING VALUE* 927
		SPECIFIC GRAVITY 0.631

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21374	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 97.3
COUNTY _____	SAN MIGUEL	ETHANE _____ 0.6
FIELD _____	DOUBLE EAGLE	PROPANE _____ 0.1
WELL NAME _____	FOSSIL FEDERAL 3-13	N-BUTANE _____ 0.1
API _____	0511306092	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 13, T44N, R17W	N-PENTANE _____ TRACE
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ TRACE
COMPLETED _____	040530	CYCLOPENTANE _____ --
SAMPLED _____	040826	HEXANES PLUS _____ 0.1
FORMATION _____	PENN-HONAKER TRAIL, ISMAY	NITROGEN _____ 1.3
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ TRACE
MEASURED DEPTH _____	9615	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	2200	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	5456	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,013
		SPECIFIC GRAVITY _____ 0.573

SAMPLE	20982	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 74.9
COUNTY _____	GARFIELD	ETHANE _____ 4.3
FIELD _____	DOUGLAS PASS	PROPANE _____ 2.0
WELL NAME _____	FEDERAL NO. 15-10	N-BUTANE _____ 0.7
API _____	0504506430	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 10, T6S, R103W	N-PENTANE _____ 0.2
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	830226	CYCLOPENTANE _____ --
SAMPLED _____	020619	HEXANES PLUS _____ 0.3
FORMATION _____	JURA-MORRISON	NITROGEN _____ 15.0
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5794	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2190	CARBON DIOXIDE _____ 1.3
		HELIUM _____ 0.61
		HEATING VALUE* _____ 952
		SPECIFIC GRAVITY _____ 0.698

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20989	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 87.2
COUNTY _____	RIO BLANCO	ETHANE _____ 6.7
FIELD _____	GILSONITE DRAW	PROPANE _____ 2.9
WELL NAME _____	FEDERAL NO. 24-13 (WAS NOT FLOWING)	N-BUTANE _____ 0.8
API _____	0510310030	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 24, T1S, R104W	N-PENTANE _____ 0.2
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.3
COMPLETED _____	000726	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-CASTLEGATE	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3668	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1325	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1.162
		SPECIFIC GRAVITY _____ 0.659

SAMPLE	20832	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 80.2
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.4
FIELD _____	HAMILTON CREEK	PROPANE _____ 0.4
WELL NAME _____	USA 1-35H	N-BUTANE _____ 0.2
API _____	0511306048	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 35, T45N, R15W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	850520	CYCLOPENTANE _____ --
SAMPLED _____	010829	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-CUTLER	NITROGEN _____ 17.0
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2589	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	512	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	212	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.40
		HEATING VALUE* _____ 870
		SPECIFIC GRAVITY _____ 0.644

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20833	COMPONENT, MOLE PCT
STATE	COLORADO	METHANE 78.8
COUNTY	SAN MIGUEL	ETHANE 1.4
FIELD	HAMILTON CREEK	PROPANE 0.4
WELL NAME	SHELL STATE 2-36H	N-BUTANE 0.2
API	0511306054	ISOBUTANE 0.1
LOCATION	SEC. 36, T45N, R15W	N-PENTANE 0.1
OWNER	TOM BROWN, INC.	ISOPENTANE 0.1
COMPLETED	860512	CYCLOPENTANE --
SAMPLED	010829	HEXANES PLUS 0.1
FORMATION	PERM-CUTLER	NITROGEN 18.3
GEOLOGIC PROVINCE CODE	585	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	2579	ARGON 0.0
MEASURED DEPTH		HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	690	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	800	CARBON DIOXIDE 0.0
		HELIUM 0.43
		HEATING VALUE* 857
		SPECIFIC GRAVITY 0.65

SAMPLE	21348	COMPONENT, MOLE PCT
STATE	COLORADO	METHANE 77.8
COUNTY	SAN MIGUEL	ETHANE 1.3
FIELD	HAMILTON CREEK	PROPANE 0.4
WELL NAME	SHELL STATE 1-36C	N-BUTANE 0.2
API	0511306047	ISOBUTANE 0.2
LOCATION	SEC. 36, T45N, R15W	N-PENTANE 0.1
OWNER	TOM BROWN, INC.	ISOPENTANE 0.1
COMPLETED	840125	CYCLOPENTANE --
SAMPLED	040823	HEXANES PLUS 0.2
FORMATION	PERM-CUTLER	NITROGEN 19.2
GEOLOGIC PROVINCE CODE	585	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	2536	ARGON 0.1
MEASURED DEPTH		HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	475	CARBON DIOXIDE 0.0
		HELIUM 0.44
		HEATING VALUE* 851
		SPECIFIC GRAVITY 0.657

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20831	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 73.1
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.5
FIELD _____	HAMILTON CREEK	PROPANE _____ 0.4
WELL NAME _____	HAMILTON CREEK 25-41	N-BUTANE _____ 0.2
API _____	0511306063	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 25, T45N, R15W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	981106	CYCLOPENTANE _____ --
SAMPLED _____	010829	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CUTLER	NITROGEN _____ 23.6
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2640	ARGON _____ TRACE
MEASURED DEPTH _____	3250	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	280	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	180	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.54
		HEATING VALUE* _____ 807
		SPECIFIC GRAVITY _____ 0.675

SAMPLE	20835	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 95.0
COUNTY _____	SAN MIGUEL	ETHANE _____ 1.1
FIELD _____	HAMILTON CREEK	PROPANE _____ 0.3
WELL NAME _____	USA 1-30H	N-BUTANE _____ 0.2
API _____	0511306050	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 30, T45N, R14W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	941025	CYCLOPENTANE _____ --
SAMPLED _____	010829	HEXANES PLUS _____ 0.2
FORMATION _____	PENN-HERMOSA	NITROGEN _____ 2.5
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8046	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	600	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	400	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1,021
		SPECIFIC GRAVITY _____ 0.589

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21347	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 95.5
COUNTY _____	SAN MIGUEL	ETHANE _____ 0.8
FIELD _____	HAMILTON CREEK	PROPANE _____ 0.2
WELL NAME _____	STATE 1-36H	N-BUTANE _____ 0.1
API _____	0511306047	ISOBUTANE _____ 0.1
LOCATION _____	SEC.36, T45N, R15W	N-PENTANE _____ TRACE
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	840125	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.2
FORMATION _____	PENN-HERMOSA	NITROGEN _____ 2.8
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8430	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	5245	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.05
		HEATING VALUE* _____ 1,006
		SPECIFIC GRAVITY _____ 0.582

SAMPLE	21349	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 88.3
COUNTY _____	SAN MIGUEL	ETHANE _____ 2.1
FIELD _____	HAMILTON CREEK	PROPANE _____ 1.0
WELL NAME _____	HAMILTON CREEK 36-41	N-BUTANE _____ 0.5
API _____	0511306123	ISOBUTANE _____ 0.5
LOCATION _____	SEC.36, T45N, R15W	N-PENTANE _____ 0.2
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.4
COMPLETED _____	031016	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-HERMOSA	NITROGEN _____ 6.2
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7554	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	636	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1,033
		SPECIFIC GRAVITY _____ 0.637

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20834	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 98.7
COUNTY _____	SAN MIGUEL	ETHANE _____ 0.4
FIELD _____	HAMILTON CREEK	PROPANE _____ TRACE
WELL NAME _____	SHELL STATE 1-36H	N-BUTANE _____ TRACE
API _____	0511306047	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 36, T45N, R15W	N-PENTANE _____ 0.0
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ TRACE
COMPLETED _____	840125	CYCLOPENTANE _____ --
SAMPLED _____	010829	HEXANES PLUS _____ TRACE
FORMATION _____	PENN-HERMOSA U	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8477	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	5245	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1.008
		SPECIFIC GRAVITY _____ 0.561

SAMPLE	21324	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 87.8
COUNTY _____	WASHINGTON	ETHANE _____ 3.2
FIELD _____	LOBO	PROPANE _____ 1.5
WELL NAME _____	MILLER-REDIESS A-1	N-BUTANE _____ 1.1
API _____	0512107241	ISOBUTANE _____ 0.9
LOCATION _____	SEC 23, T3N, R54W	N-PENTANE _____ 0.8
OWNER _____	PATRICK A. DOHENY	ISOPENTANE _____ 1.3
COMPLETED _____	831015	CYCLOPENTANE _____ --
SAMPLED _____	040527	HEXANES PLUS _____ 1.4
FORMATION _____	CRET-DAKOTA D & J	NITROGEN _____ 1.9
GEOLOGIC PROVINCE CODE _____	540	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4809	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	80	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.08
		HEATING VALUE* _____ 1.198
		SPECIFIC GRAVITY _____ 0.695

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20988	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 81.1
COUNTY _____	RIO BLANCO	ETHANE _____ 6.0
FIELD _____	LOWER HORSE DRAW	PROPANE _____ 5.0
WELL NAME _____	GOVERNMENT NO. 1-3	N-BUTANE _____ 2.1
API _____	0510307927	ISOBUTANE _____ 1.3
LOCATION _____	SEC 1, T2S, R103W	N-PENTANE _____ 0.6
OWNER _____	GREAT NORTHERN GAS CO.	ISOPENTANE _____ 0.8
COMPLETED _____	770215	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ 1.3
FORMATION _____	CRET-EMERY	NITROGEN _____ 1.5
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3008	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	268	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1,282
		SPECIFIC GRAVITY _____ 0.747

SAMPLE	21346	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 71.3
COUNTY _____	SAN MIGUEL	ETHANE _____ 3.5
FIELD _____	MCINTYRE CANYON	PROPANE _____ 1.6
WELL NAME _____	MCINTYRE CANYON 17-21	N-BUTANE _____ 0.6
API _____	0511306080	ISOBUTANE _____ 0.6
LOCATION _____	SEC 17, T44N, R19W	N-PENTANE _____ 0.2
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	010619	CYCLOPENTANE _____ --
SAMPLED _____	040823	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-LEADVILLE	NITROGEN _____ 11.8
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8398	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.1
OPEN FLOW, MCFD _____	2700	CARBON DIOXIDE _____ 8.7
		HELIUM _____ 0.95
		HEATING VALUE* _____ 897
		SPECIFIC GRAVITY _____ 0.75

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21318	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 76.1
COUNTY _____	LOGAN	ETHANE _____ 4.9
FIELD _____	MINTO N.	PROPANE _____ 5.7
WELL NAME _____	NORTH MINTO UNIT 6	N-BUTANE _____ 2.4
API _____	0507509258	ISOBUTANE _____ 0.9
LOCATION _____	SEC 26, T9N, R53W	N-PENTANE _____ 0.7
OWNER _____	TIMKA RESOURCES, LTD.	ISOPENTANE _____ 0.7
COMPLETED _____	930512	CYCLOPENTANE _____ --
SAMPLED _____	040527	HEXANES PLUS _____ 1.9
FORMATION _____	CRET-DAKOTA J.	NITROGEN _____ 5.7
GEOLOGIC PROVINCE CODE _____	540	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4876	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	55	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.30
		HEATING VALUE* _____ 1,256
		SPECIFIC GRAVITY _____ 0.783

SAMPLE	21321	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 63.0
COUNTY _____	WELD	ETHANE _____ 10.6
FIELD _____	OASIS	PROPANE _____ 12.2
WELL NAME _____	HOOZEE-BJOLIN NO. 1	N-BUTANE _____ 4.8
API _____	0512310341	ISOBUTANE _____ 1.4
LOCATION _____	SEC 33, T7N, R56W	N-PENTANE _____ 1.5
OWNER _____	WESTERN OPERATING CO.	ISOPENTANE _____ 1.1
COMPLETED _____	810807	CYCLOPENTANE _____ --
SAMPLED _____	040527	HEXANES PLUS _____ 2.0
FORMATION _____	CRET-DAKOTA D.	NITROGEN _____ 2.1
GEOLOGIC PROVINCE CODE _____	540	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5795	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	15	CARBON DIOXIDE _____ 1.2
		HELIUM _____ 0.14
		HEATING VALUE* _____ 1,535
		SPECIFIC GRAVITY _____ 0.932

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20991	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.5
COUNTY _____	RIO BLANCO	ETHANE _____ 4.8
FIELD _____	PARK MOUNTAIN	PROPANE _____ 1.5
WELL NAME _____	PARK MOUNTAIN FEDERAL NO. 9030	N-BUTANE _____ 0.4
API _____	0510309992	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 6, T3S, R103W	N-PENTANE _____ 0.1
OWNER _____	ENCANA OIL & GAS (USA) INC.	ISOPENTANE _____ 0.1
COMPLETED _____	991214	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 0.7
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6958	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1600	CARBON DIOXIDE _____ 1.1
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,089
		SPECIFIC GRAVITY _____ 0.629

SAMPLE	20992	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.6
COUNTY _____	RIO BLANCO	ETHANE _____ 4.9
FIELD _____	PARK MOUNTAIN	PROPANE _____ 1.6
WELL NAME _____	PARK MOUNTAIN FEDERAL NO. 9026	N-BUTANE _____ 0.4
API _____	0510310000	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 7, T3S, R103W	N-PENTANE _____ 0.1
OWNER _____	ENCANA OIL & GAS (USA) INC.	ISOPENTANE _____ 0.2
COMPLETED _____	000317	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6806	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	600	CARBON DIOXIDE _____ 1.0
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,095
		SPECIFIC GRAVITY _____ 0.63

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20990	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.6
COUNTY _____	RIO BLANCO	ETHANE _____ 4.6
FIELD _____	PARK MOUNTAIN	PROPANE _____ 1.6
WELL NAME _____	PARK MOUNTAIN NO. 13-8	N-BUTANE _____ 0.5
API _____	0510309773	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 8, T3S, R103W	N-PENTANE _____ 0.1
OWNER _____	CLX ENERGY, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	960429	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 0.9
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6512	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1119	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1.099
		SPECIFIC GRAVITY _____ 0.631

SAMPLE	20993	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.2
COUNTY _____	RIO BLANCO	ETHANE _____ 5.2
FIELD _____	PARK MOUNTAIN	PROPANE _____ 1.7
WELL NAME _____	PARK MOUNTAIN FEDERAL NO. 9011	N-BUTANE _____ 0.4
API _____	0510309775	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 5, T3S, R103W	N-PENTANE _____ 0.1
OWNER _____	ENCANA OIL & GAS (USA) INC.	ISOPENTANE _____ 0.2
COMPLETED _____	970326	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA, BUCKHORN	NITROGEN _____ 0.8
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6978	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1210	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1.101
		SPECIFIC GRAVITY _____ 0.631

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20808	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 92.6
COUNTY _____	MESA	ETHANE _____ 3.4
FIELD _____	PLATEAU	PROPANE _____ 1.0
WELL NAME _____	FEDERAL 21-2	N-BUTANE _____ 0.2
API _____	0507708105	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 21, T10S, R96W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	770909	CYCLOPENTANE _____ --
SAMPLED _____	010828	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-MESAVERDE	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3541	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1647	CARBON DIOXIDE _____ 2.1
		HELIUM _____ 0.01
		HEATING VALUE* _____ 1,050
		SPECIFIC GRAVITY _____ 0.614

SAMPLE	20807	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 92.0
COUNTY _____	MESA	ETHANE _____ 4.2
FIELD _____	PLATEAU	PROPANE _____ 1.3
WELL NAME _____	MORAN 27-2	N-BUTANE _____ 0.3
API _____	0507708042	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 27, T10S, R96W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	740311	CYCLOPENTANE _____ --
SAMPLED _____	010828	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-MESAVERDE	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2963	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 1.2
		HELIUM _____ 0.01
		HEATING VALUE* _____ 1,075
		SPECIFIC GRAVITY _____ 0.617

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20956	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 86.2
COUNTY _____	GARFIELD	ETHANE _____ 5.2
FIELD _____	PRAIRIE CANYON	PROPANE _____ 2.0
WELL NAME _____	FEDERAL NO. 31-3	N-BUTANE _____ 0.6
API _____	0504506161	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 31, T7S, R104W	N-PENTANE _____ 0.2
OWNER _____	PURE RESOURCES	ISOPENTANE _____ 0.3
COMPLETED _____	780524	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 2.8
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3962	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2116	CARBON DIOXIDE _____ 1.6
		HELIUM _____ 0.23
		HEATING VALUE* _____ 1,092
		SPECIFIC GRAVITY _____ 0.661

SAMPLE	20959	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 84.6
COUNTY _____	GARFIELD	ETHANE _____ 6.1
FIELD _____	PRAIRIE CANYON	PROPANE _____ 2.5
WELL NAME _____	FEDERAL NO. 24-7	N-BUTANE _____ 0.7
API _____	0504506562	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 24, T7S, R105W	N-PENTANE _____ 0.3
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.3
COMPLETED _____	880712	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 3.0
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5468	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	975	CARBON DIOXIDE _____ 1.4
		HELIUM _____ 0.29
		HEATING VALUE* _____ 1,106
		SPECIFIC GRAVITY _____ 0.67

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21319	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 77.7
COUNTY _____	LOGAN	ETHANE _____ 7.5
FIELD _____	RAMEY	PROPANE _____ 5.0
WELL NAME _____	LAND PARTNERSHIP 13-7	N-BUTANE _____ 1.8
API _____	0507509288	ISOBUTANE _____ 0.7
LOCATION _____	SEC 7, T10N, R53W	N-PENTANE _____ 0.5
OWNER _____	ENPROP, INC.	ISOPENTANE _____ 0.5
COMPLETED _____	941108	CYCLOPENTANE _____ --
SAMPLED _____	040527	HEXANES PLUS _____ 1.0
FORMATION _____	CRET-DAKOTA J	NITROGEN _____ 3.3
GEOLOGIC PROVINCE CODE _____	540	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5027	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	400	CARBON DIOXIDE _____ 1.7
		HELIUM _____ 0.12
		HEATING VALUE* _____ 1,218
		SPECIFIC GRAVITY _____ 0.751

SAMPLE	20799	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 89.1
COUNTY _____	MESA	ETHANE _____ 5.7
FIELD _____	SHIRE GULCH	PROPANE _____ 1.8
WELL NAME _____	FEDERAL 36-1	N-BUTANE _____ 0.5
API _____	0507708134	ISOBUTANE _____ 0.3
LOCATION _____	SEC 36, T9S, R97W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	790301	CYCLOPENTANE _____ --
SAMPLED _____	010827	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-CORCORAN	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3141	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	440	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1775	CARBON DIOXIDE _____ 1.6
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,101
		SPECIFIC GRAVITY _____ 0.641

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20794	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 90.1
COUNTY _____	MESA	ETHANE _____ 5.8
FIELD _____	SHIRE GULCH	PROPANE _____ 1.6
WELL NAME _____	FEDERAL 36-2	N-BUTANE _____ 0.4
API _____	0507708157	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 36, T9S, R97W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	790510	CYCLOPENTANE _____ --
SAMPLED _____	010827	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-COZZETTE	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3091	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	360	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1573	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1.104
		SPECIFIC GRAVITY _____ 0.629

SAMPLE	20798	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 89.2
COUNTY _____	MESA	ETHANE _____ 5.8
FIELD _____	SHIRE GULCH	PROPANE _____ 1.9
WELL NAME _____	FEDERAL 25-1	N-BUTANE _____ 0.5
API _____	0507708174	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 25, T9S, R97W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	790723	CYCLOPENTANE _____ --
SAMPLED _____	010827	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-COZZETTE	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3156	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	340	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	662	CARBON DIOXIDE _____ 1.3
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1.107
		SPECIFIC GRAVITY _____ 0.639

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20797	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 88.8
COUNTY _____	MESA	ETHANE _____ 6.3
FIELD _____	SHIRE GULCH	PROPANE _____ 1.9
WELL NAME _____	FEDERAL 36-4	N-BUTANE _____ 0.5
API _____	0507708255	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 36, T9S, R97W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	940902	CYCLOPENTANE _____ --
SAMPLED _____	010827	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-COZZETTE	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3079	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	340	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	260	CARBON DIOXIDE _____ 1.1
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1.112
		SPECIFIC GRAVITY _____ 0.64

SAMPLE	20965	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 78.6
COUNTY _____	GARFIELD	ETHANE _____ 4.1
FIELD _____	SOUTH CANYON	PROPANE _____ 1.6
WELL NAME _____	FEDERAL NO. 2-18	N-BUTANE _____ 0.5
API _____	0504506028	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 18, T7S, R103W	N-PENTANE _____ 0.2
OWNER _____	PURE RESOURCES	ISOPENTANE _____ 0.2
COMPLETED _____	730112	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-BUCKHORN	NITROGEN _____ 9.9
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4034	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	231	CARBON DIOXIDE _____ 3.8
		HELIUM _____ 0.51
		HEATING VALUE* _____ 962
		SPECIFIC GRAVITY _____ 0.691

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20955	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 87.8
COUNTY _____	GARFIELD	ETHANE _____ 4.2
FIELD _____	SOUTH CANYON	PROPANE _____ 1.4
WELL NAME _____	LEWIS USA NO. 36-1	N-BUTANE _____ 0.4
API _____	0504506164	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 36, T7S, R105W	N-PENTANE _____ 0.2
OWNER _____	PURE RESOURCES	ISOPENTANE _____ 0.2
COMPLETED _____	800201	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 3.9
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4067	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	184	CARBON DIOXIDE _____ 1.2
		HELIUM _____ 0.26
		HEATING VALUE* _____ 1.048
		SPECIFIC GRAVITY _____ 0.638

SAMPLE	20958	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 84.7
COUNTY _____	GARFIELD	ETHANE _____ 4.9
FIELD _____	SOUTH CANYON	PROPANE _____ 1.7
WELL NAME _____	FEDERAL NO. 1-17	N-BUTANE _____ 0.5
API _____	0504506026	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 17, T7S, R104W	N-PENTANE _____ 0.2
OWNER _____	PURE RESOURCES	ISOPENTANE _____ 0.2
COMPLETED _____	731127	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 4.4
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4885	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2127	CARBON DIOXIDE _____ 2.3
		HELIUM _____ 0.34
		HEATING VALUE* _____ 1.047
		SPECIFIC GRAVITY _____ 0.662

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20962	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 76.0
COUNTY _____	GARFIELD	ETHANE _____ 4.5
FIELD _____	SOUTH CANYON	PROPANE _____ 1.7
WELL NAME _____	FEDERAL NO. 33-8	N-BUTANE _____ 0.5
API _____	0504506754	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 33, T7S, R104W	N-PENTANE _____ 0.2
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.2
COMPLETED _____	910821	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 6.1
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3650	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	740	CARBON DIOXIDE _____ 9.7
		HELIUM _____ 0.36
		HEATING VALUE* _____ 955
		SPECIFIC GRAVITY _____ 0.739

SAMPLE	20979	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 72.9
COUNTY _____	GARFIELD	ETHANE _____ 3.2
FIELD _____	SOUTH CANYON	PROPANE _____ 1.0
WELL NAME _____	FEDERAL NO. 11-7	N-BUTANE _____ 0.3
API _____	0504506984	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 11, T7S, R104W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	951007	CYCLOPENTANE _____ --
SAMPLED _____	020619	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 8.6
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5471	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	420	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	291	CARBON DIOXIDE _____ 12.8
		HELIUM _____ 0.47
		HEATING VALUE* _____ 858
		SPECIFIC GRAVITY _____ 0.754

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20974	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 70.0
COUNTY _____	GARFIELD	ETHANE _____ 3.4
FIELD _____	SOUTH CANYON	PROPANE _____ 1.3
WELL NAME _____	FEDERAL NO. 1	N-BUTANE _____ 0.4
API _____	0504506171	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 35, T7S, R104W	N-PENTANE _____ 0.2
OWNER _____	NATIONAL FUEL CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	781129	CYCLOPENTANE _____ --
SAMPLED _____	020619	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 9.8
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3567	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	45	CARBON DIOXIDE _____ 13.4
		HELIUM _____ 0.49
		HEATING VALUE* _____ 861
		SPECIFIC GRAVITY _____ 0.78

SAMPLE	20971	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 80.4
COUNTY _____	GARFIELD	ETHANE _____ 4.5
FIELD _____	SOUTH CANYON	PROPANE _____ 1.9
WELL NAME _____	FEDERAL NO. 18-12	N-BUTANE _____ 0.6
API _____	0504506636	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 18, T7S, R103W	N-PENTANE _____ 0.2
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.2
COMPLETED _____	900616	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 9.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4350	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	258	CARBON DIOXIDE _____ 1.8
		HELIUM _____ 0.49
		HEATING VALUE* _____ 1,001
		SPECIFIC GRAVITY _____ 0.677

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20957	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 79.7
COUNTY _____	GARFIELD	ETHANE _____ 7.5
FIELD _____	SOUTH CANYON	PROPANE _____ 3.3
WELL NAME _____	FULLER USA NO. 13-16	N-BUTANE _____ 1.0
API _____	0504506414	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 13, T7S, R105W	N-PENTANE _____ 0.4
OWNER _____	PURE RESOURCES	ISOPENTANE _____ 0.4
COMPLETED _____	820811	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.6
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 4.8
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4713	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	726	CARBON DIOXIDE _____ 1.4
		HELIUM _____ 0.49
		HEATING VALUE* _____ 1,127
		SPECIFIC GRAVITY _____ 0.703

SAMPLE	20949	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 66.0
COUNTY _____	GARFIELD	ETHANE _____ 3.7
FIELD _____	SOUTH CANYON	PROPANE _____ 1.7
WELL NAME _____	FEDERAL NO. 27-11	N-BUTANE _____ 0.7
API _____	0504506107	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 27, T7S, R104W	N-PENTANE _____ 0.3
OWNER _____	PURE RESOURCES	ISOPENTANE _____ 0.4
COMPLETED _____	770626	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.7
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 9.4
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3705	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3207	CARBON DIOXIDE _____ 16.2
		HELIUM _____ 0.50
		HEATING VALUE* _____ 872
		SPECIFIC GRAVITY _____ 0.828

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20970	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 77.2
COUNTY _____	GARFIELD	ETHANE _____ 5.5
FIELD _____	SOUTH CANYON	PROPANE _____ 2.9
WELL NAME _____	FEDERAL NO. 3-32	N-BUTANE _____ 1.0
API _____	0504506029	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 32, T6S, R103W	N-PENTANE _____ 0.4
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.4
COMPLETED _____	730503	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.6
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 7.5
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4264	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1925	CARBON DIOXIDE _____ 3.5
		HELIUM _____ 0.50
		HEATING VALUE* _____ 1,058
		SPECIFIC GRAVITY _____ 0.722

SAMPLE	20980	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 67.5
COUNTY _____	GARFIELD	ETHANE _____ 3.1
FIELD _____	SOUTH CANYON	PROPANE _____ 1.1
WELL NAME _____	FEDERAL NO. 1-12	N-BUTANE _____ 0.4
API _____	0504506105	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 12, T7S, R104W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	770801	CYCLOPENTANE _____ --
SAMPLED _____	020619	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 11.0
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5540	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	68	CARBON DIOXIDE _____ 15.3
		HELIUM _____ 0.57
		HEATING VALUE* _____ 810
		SPECIFIC GRAVITY _____ 0.791

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20968	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 59.7
COUNTY _____	GARFIELD	ETHANE _____ 2.5
FIELD _____	SOUTH CANYON	PROPANE _____ 0.9
WELL NAME _____	FEDERAL NO. 1-31	N-BUTANE _____ 0.3
API _____	0504506031	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 31, T6S, R103W	N-PENTANE _____ 0.1
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.1
COMPLETED _____	730827	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 11.3
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4910	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	328	CARBON DIOXIDE _____ 24.2
		HELIUM _____ 0.58
		HEATING VALUE* _____ 700
		SPECIFIC GRAVITY _____ 0.867

SAMPLE	20976	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 60.4
COUNTY _____	GARFIELD	ETHANE _____ 2.8
FIELD _____	SOUTH CANYON	PROPANE _____ 1.1
WELL NAME _____	YOUNG CATTLE CO. NO. 24-12	N-BUTANE _____ 0.4
API _____	0504506346	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 24, T6S, R104W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	810829	CYCLOPENTANE _____ --
SAMPLED _____	020619	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 11.6
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4523	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1247	CARBON DIOXIDE _____ 22.4
		HELIUM _____ 0.59
		HEATING VALUE* _____ 730
		SPECIFIC GRAVITY _____ 0.86

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20978	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 62.3
COUNTY _____	GARFIELD	ETHANE _____ 2.9
FIELD _____	SOUTH CANYON	PROPANE _____ 1.1
WELL NAME _____	YOUNG CATTLE NO. 12-B	N-BUTANE _____ 0.3
API _____	0504506214	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 12, T6S, R104W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	791121	CYCLOPENTANE _____ --
SAMPLED _____	020619	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 11.7
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5251	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2247	CARBON DIOXIDE _____ 20.3
		HELIUM _____ 0.62
		HEATING VALUE* _____ 749
		SPECIFIC GRAVITY _____ 0.84

SAMPLE	20966	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 64.3
COUNTY _____	GARFIELD	ETHANE _____ 2.9
FIELD _____	SOUTH CANYON	PROPANE _____ 1.1
WELL NAME _____	SOUTH CANYON FEDERAL NO. 3	N-BUTANE _____ 0.4
API _____	0504505062	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 7, T7S, R103W	N-PENTANE _____ 0.1
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	580113	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 12.1
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3840	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	857	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1430	CARBON DIOXIDE _____ 17.8
		HELIUM _____ 0.62
		HEATING VALUE* _____ 771
		SPECIFIC GRAVITY _____ 0.818

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20975	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 64.2
COUNTY _____	GARFIELD	ETHANE _____ 3.1
FIELD _____	SOUTH CANYON	PROPANE _____ 1.4
WELL NAME _____	SOUTH CANYON FEDERAL NO. 2	N-BUTANE _____ 0.5
API _____	0504505086	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 35, T6S, R104W	N-PENTANE _____ 0.2
OWNER _____	TOM BROWN, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	570502	CYCLOPENTANE _____ --
SAMPLED _____	020619	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 13.5
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4039	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	736	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2100	CARBON DIOXIDE _____ 15.4
		HELIUM _____ 0.66
		HEATING VALUE* _____ 803
		SPECIFIC GRAVITY _____ 0.815

SAMPLE	20961	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 84.8
COUNTY _____	GARFIELD	ETHANE _____ 4.4
FIELD _____	SOUTH CANYON	PROPANE _____ 1.6
WELL NAME _____	FEDERAL NO. 33-14	N-BUTANE _____ 0.5
API _____	0504507694	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 33, T7S, R104W	N-PENTANE _____ 0.2
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.2
COMPLETED _____	010309	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA, JURA-MORRISON	NITROGEN _____ 4.2
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3621	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	753	CARBON DIOXIDE _____ 3.1
		HELIUM _____ 0.29
		HEATING VALUE* _____ 1,038
		SPECIFIC GRAVITY _____ 0.666

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20954	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 77.9
COUNTY _____	GARFIELD	ETHANE _____ 5.6
FIELD _____	SOUTH CANYON	PROPANE _____ 2.6
WELL NAME _____	FEDERAL NO. 6-13	N-BUTANE _____ 1.0
API _____	0504506159	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 6, T8S, R104W	N-PENTANE _____ 0.4
OWNER _____	PURE RESOURCES	ISOPENTANE _____ 0.5
COMPLETED _____	790519	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.7
FORMATION _____	CRET-DAKOTA, JURA-MORRISON	NITROGEN _____ 9.2
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3724	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3752	CARBON DIOXIDE _____ 1.1
		HELIUM _____ 0.47
		HEATING VALUE* _____ 1,073
		SPECIFIC GRAVITY _____ 0.71

SAMPLE	20964	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 69.4
COUNTY _____	GARFIELD	ETHANE _____ 3.5
FIELD _____	SOUTH CANYON	PROPANE _____ 1.5
WELL NAME _____	FEDERAL NO. 26-4	N-BUTANE _____ 0.6
API _____	0504506753	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 26, T7S, R104W	N-PENTANE _____ 0.2
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.3
COMPLETED _____	910826	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA, JURA-MORRISON	NITROGEN _____ 8.9
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3808	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	526	CARBON DIOXIDE _____ 14.3
		HELIUM _____ 0.49
		HEATING VALUE* _____ 878
		SPECIFIC GRAVITY _____ 0.794

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20945	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 83.3
COUNTY _____	MESA	ETHANE _____ 4.4
FIELD _____	SOUTH CANYON	PROPANE _____ 1.6
WELL NAME _____	FEDERAL NO. 33-19	N-BUTANE _____ 0.6
API _____	0507708372	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 19, T8S, R104W	N-PENTANE _____ 0.2
OWNER _____	LINN BROTHERS OIL & GAS CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	811120	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.3
FORMATION _____	JURA-MORRISON	NITROGEN _____ 8.0
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3228	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	840	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.47
		HEATING VALUE* _____ 1.023
		SPECIFIC GRAVITY _____ 0.656

SAMPLE	20908	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 60.3
COUNTY _____	BACA	ETHANE _____ 5.6
FIELD _____	STONINGTON	PROPANE _____ 3.5
WELL NAME _____	MURRAY B-1	N-BUTANE _____ 1.1
API _____	0500906131	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 5, T32S, R42W	N-PENTANE _____ 0.3
OWNER _____	SAWTOOTH ENERGY PARTNERS, L.L.C.	ISOPENTANE _____ 0.2
COMPLETED _____	760613	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.2
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 27.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3194	ARGON _____ 0.1
MEASURED DEPTH _____	3259	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	180	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	565	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.75
		HEATING VALUE* _____ 873
		SPECIFIC GRAVITY _____ 0.762

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20907	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 54.1
COUNTY _____	BACA	ETHANE _____ 6.4
FIELD _____	STONINGTON	PROPANE _____ 4.0
WELL NAME _____	BRYAN NO. 1-18	N-BUTANE _____ 1.3
API _____	0500906430	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 18, T31S, R41W	N-PENTANE _____ 0.3
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.2
COMPLETED _____	850329	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 31.9
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3220	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	756	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.86
		HEATING VALUE* _____ 854
		SPECIFIC GRAVITY _____ 0.796

SAMPLE	20913	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 44.5
COUNTY _____	BACA	ETHANE _____ 6.4
FIELD _____	STONINGTON	PROPANE _____ 4.5
WELL NAME _____	STATE NO. 267-S2	N-BUTANE _____ 1.5
API _____	0500906175	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 17, T31S, R42W	N-PENTANE _____ 0.4
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.3
COMPLETED _____	770727	CYCLOPENTANE _____ --
SAMPLED _____	011101	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 40.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3254	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	472	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 1.02
		HEATING VALUE* _____ 788
		SPECIFIC GRAVITY _____ 0.844

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21315	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 68.5
COUNTY _____	PROWERS	ETHANE _____ 7.2
FIELD _____	TABLETOP	PROPANE _____ 3.1
WELL NAME _____	ELLENBERGER NO. 1	N-BUTANE _____ 0.7
API _____	0509906138	ISOBUTANE _____ 0.4
LOCATION _____	SEC 18, T25S, R47W	N-PENTANE _____ 0.2
OWNER _____	HORSESHOE OPERATING, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	801216	CYCLOPENTANE _____ --
SAMPLED _____	040526	HEXANES PLUS _____ 0.4
FORMATION _____	PENN-MORROW	NITROGEN _____ 18.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5242	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1988	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.55
		HEATING VALUE* _____ 969
		SPECIFIC GRAVITY _____ 0.73

SAMPLE	21322	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 47.8
COUNTY _____	WELD	ETHANE _____ 17.6
FIELD _____	TERRACE	PROPANE _____ 18.7
WELL NAME _____	NELSON RANCHES A1-7	N-BUTANE _____ 5.6
API _____	0512319651	ISOBUTANE _____ 1.9
LOCATION _____	SEC 20, T10N, R58W	N-PENTANE _____ 2.4
OWNER _____	ANTELOPE ENERGY CO.	ISOPENTANE _____ 1.7
COMPLETED _____	980911	CYCLOPENTANE _____ --
SAMPLED _____	040527	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA D	NITROGEN _____ 0.5
GEOLOGIC PROVINCE CODE _____	540	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6658	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	365	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	150	CARBON DIOXIDE _____ 3.3
		HELIUM _____ 0.15
		HEATING VALUE* _____ 1,694
		SPECIFIC GRAVITY _____ 1.05

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20994	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 86.4
COUNTY _____	RIO BLANCO	ETHANE _____ 3.2
FIELD _____	TEXAS MOUNTAIN	PROPANE _____ 0.8
WELL NAME _____	MISSOURI CREEK 28 NO. 851	N-BUTANE _____ 0.3
API _____	0510306059	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 28, T3S, R103W	N-PENTANE _____ 0.1
OWNER _____	ENCANA OIL & GAS (USA) INC.	ISOPENTANE _____ 0.2
COMPLETED _____	601122	CYCLOPENTANE _____ --
SAMPLED _____	020729	HEXANES PLUS _____ 0.5
FORMATION _____	JURA-SALT WASH	NITROGEN _____ 7.0
GEOLOGIC PROVINCE CODE _____	595	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6563	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	414	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.41
		HEATING VALUE* _____ 1,006
		SPECIFIC GRAVITY _____ 0.638

SAMPLE	20899	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 50.4
COUNTY _____	BACA	ETHANE _____ 6.4
FIELD _____	VILAS	PROPANE _____ 5.9
WELL NAME _____	COPE-FEDERAL NO. 1-16	N-BUTANE _____ 2.9
API _____	0500906034	ISOBUTANE _____ 0.9
LOCATION _____	SEC. 16, T31S, R44W	N-PENTANE _____ 1.1
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.8
COMPLETED _____	700129	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 1.2
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 29.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3329	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3400	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.80
		HEATING VALUE* _____ 1,030
		SPECIFIC GRAVITY _____ 0.883

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20895	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 54.6
COUNTY _____	BACA	ETHANE _____ 5.7
FIELD _____	VILAS	PROPANE _____ 4.1
WELL NAME _____	OLIVER NO. 1-18	N-BUTANE _____ 1.6
API _____	0500905303	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 18, T31S, R44W	N-PENTANE _____ 0.5
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.4
COMPLETED _____	660502	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.7
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 30.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3368	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	7000	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.84
		HEATING VALUE* _____ 894
		SPECIFIC GRAVITY _____ 0.812

SAMPLE	20893	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 53.3
COUNTY _____	BACA	ETHANE _____ 6.1
FIELD _____	VILAS	PROPANE _____ 4.4
WELL NAME _____	LOFLIN-FEDERAL NO. 1-21	N-BUTANE _____ 1.7
API _____	0500906035	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 21, T31S, R44W	N-PENTANE _____ 0.6
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.4
COMPLETED _____	700129	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.7
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 31.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3351	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2400	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.85
		HEATING VALUE* _____ 901
		SPECIFIC GRAVITY _____ 0.822

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20894	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 50.6
COUNTY _____	BACA	ETHANE _____ 5.1
FIELD _____	VILAS	PROPANE _____ 3.9
WELL NAME _____	ROLLINS-RUTHERFORD NO. 1-A	N-BUTANE _____ 1.8
API _____	0500906200	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 20, T31S, R44W	N-PENTANE _____ 0.6
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.5
COMPLETED _____	791217	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.8
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 35.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3330	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	319	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	779	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.86
		HEATING VALUE* _____ 858
		SPECIFIC GRAVITY _____ 0.834

SAMPLE	20898	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 54.3
COUNTY _____	BACA	ETHANE _____ 5.9
FIELD _____	VILAS	PROPANE _____ 4.1
WELL NAME _____	LOFLIN NO. 1-8	N-BUTANE _____ 1.5
API _____	0500906322	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 8, T31S, R44W	N-PENTANE _____ 0.5
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.3
COMPLETED _____	811014	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.6
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 31.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3288	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	383	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.86
		HEATING VALUE* _____ 885
		SPECIFIC GRAVITY _____ 0.81

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20900	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 51.3
COUNTY _____	BACA	ETHANE _____ 5.7
FIELD _____	VILAS	PROPANE _____ 4.5
WELL NAME _____	FEDERAL NO. 2-16X	N-BUTANE _____ 2.0
API _____	0500906525	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 16, T31S, R44W	N-PENTANE _____ 0.7
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.5
COMPLETED _____	930627	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.8
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 32.5
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3340	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	500	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.87
		HEATING VALUE* _____ 911
		SPECIFIC GRAVITY _____ 0.842

SAMPLE	20896	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 54.1
COUNTY _____	BACA	ETHANE _____ 5.5
FIELD _____	VILAS	PROPANE _____ 4.0
WELL NAME _____	STROBEL NO. 2-19	N-BUTANE _____ 1.6
API _____	0500906222	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 19, T31S, R44W	N-PENTANE _____ 0.6
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.4
COMPLETED _____	790601	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.7
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 31.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3307	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	750	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.87
		HEATING VALUE* _____ 886
		SPECIFIC GRAVITY _____ 0.816

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20892	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 55.3
COUNTY _____	BACA	ETHANE _____ 5.5
FIELD _____	VILAS	PROPANE _____ 3.9
WELL NAME _____	BROWN 1-13	N-BUTANE _____ 1.4
API _____	0500905317	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 13, T31S, R45W	N-PENTANE _____ 0.4
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.3
COMPLETED _____	660822	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.5
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 30.9
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3308	ARGON _____ 0.1
MEASURED DEPTH _____	3455	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ TRACE
OPEN FLOW, MCFD _____	8500	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.88
		HEATING VALUE* _____ 866
		SPECIFIC GRAVITY _____ 0.798

SAMPLE	20901	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 49.9
COUNTY _____	BACA	ETHANE _____ 6.0
FIELD _____	VILAS	PROPANE _____ 4.8
WELL NAME _____	STATE NO. 1-15	N-BUTANE _____ 2.1
API _____	0500906047	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 15, T31S, R44W	N-PENTANE _____ 0.7
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.5
COMPLETED _____	720221	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.8
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 33.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3379	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	489	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1750	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.90
		HEATING VALUE* _____ 910
		SPECIFIC GRAVITY _____ 0.85

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20905	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 52.8
COUNTY _____	BACA	ETHANE _____ 5.8
FIELD _____	VILAS	PROPANE _____ 3.9
WELL NAME _____	THOMPSON NO. 1-25	N-BUTANE _____ 1.3
API _____	0500906164	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 25, T31S, R44W	N-PENTANE _____ 0.3
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.3
COMPLETED _____	770403	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 33.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3304	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	802	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.91
		HEATING VALUE* _____ 830
		SPECIFIC GRAVITY _____ 0.802

SAMPLE	20897	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 53.4
COUNTY _____	BACA	ETHANE _____ 5.8
FIELD _____	VILAS	PROPANE _____ 3.9
WELL NAME _____	FREIGHBERGER NO. 1-7	N-BUTANE _____ 1.3
API _____	0500906163	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 7, T31S, R44W	N-PENTANE _____ 0.3
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.3
COMPLETED _____	770309	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 33.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3299	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1346	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.95
		HEATING VALUE* _____ 837
		SPECIFIC GRAVITY _____ 0.8

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20903	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 45.5
COUNTY _____	BACA	ETHANE _____ 6.3
FIELD _____	VILAS	PROPANE _____ 5.4
WELL NAME _____	THOMPSON-PORTER NO. 1-10	N-BUTANE _____ 2.5
API _____	0500906081	ISOBUTANE _____ 0.8
LOCATION _____	SEC. 10, T31S, R44W	N-PENTANE _____ 0.9
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.6
COMPLETED _____	740710	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 1.0
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 35.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3350	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	4650	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.96
		HEATING VALUE* _____ 925
		SPECIFIC GRAVITY _____ 0.885

SAMPLE	20902	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 46.3
COUNTY _____	BACA	ETHANE _____ 6.1
FIELD _____	VILAS	PROPANE _____ 4.7
WELL NAME _____	HARTMETZ NO. 1-9	N-BUTANE _____ 1.9
API _____	0500906158	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 9, T31S, R44W	N-PENTANE _____ 0.6
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.4
COMPLETED _____	770407	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.6
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 37.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3351	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.1
OPEN FLOW, MCFD _____	500	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 1.01
		HEATING VALUE* _____ 850
		SPECIFIC GRAVITY _____ 0.854

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20904	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 45.0
COUNTY _____	BACA	ETHANE _____ 6.0
FIELD _____	VILAS	PROPANE _____ 4.2
WELL NAME _____	PORTER NO. 1-11	N-BUTANE _____ 1.5
API _____	0500906184	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 11, T31S, R44W	N-PENTANE _____ 0.4
OWNER _____	SAWTOOTH ENERGY PARTNERS LLC	ISOPENTANE _____ 0.3
COMPLETED _____	771229	CYCLOPENTANE _____ --
SAMPLED _____	011031	HEXANES PLUS _____ 0.4
FORMATION _____	PENN-TOPEKA	NITROGEN _____ 40.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3364	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	150	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 1.08
		HEATING VALUE* _____ 784
		SPECIFIC GRAVITY _____ 0.842

SAMPLE	21314	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 46.5
COUNTY _____	BACA	ETHANE _____ 3.0
FIELD _____	WALSH	PROPANE _____ 3.0
WELL NAME _____	COOK 1-5	N-BUTANE _____ 1.3
API _____	0500905117	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 5, T33S, R43W	N-PENTANE _____ 0.4
OWNER _____	TINDALL OPERATING CO.	ISOPENTANE _____ 0.4
COMPLETED _____	631202	CYCLOPENTANE _____ --
SAMPLED _____	040525	HEXANES PLUS _____ 1.0
FORMATION _____	PENN-WABAUNSEE	NITROGEN _____ 42.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3180	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2060	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.94
		HEATING VALUE* _____ 736
		SPECIFIC GRAVITY _____ 0.837

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21320	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 69.3
COUNTY _____	WELD	ETHANE _____ 6.9
FIELD _____	WHITE BUTTE	PROPANE _____ 9.5
WELL NAME _____	MAIS NO. 1-35	N-BUTANE _____ 3.8
API _____	0512319817	ISOBUTANE _____ 1.1
LOCATION _____	SEC 35, T8N, R56W	N-PENTANE _____ 1.0
OWNER _____	KEITH F. WALKER OIL & GAS CO.	ISOPENTANE _____ 0.8
COMPLETED _____	000421	CYCLOPENTANE _____ --
SAMPLED _____	040527	HEXANES PLUS _____ 1.9
FORMATION _____	CRET-DAKOTA D	NITROGEN _____ 3.8
GEOLOGIC PROVINCE CODE _____	540	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5670	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	900	CARBON DIOXIDE _____ 1.8
		HELIUM _____ 0.13
		HEATING VALUE* _____ 1,384
		SPECIFIC GRAVITY _____ 0.864

SAMPLE	50597	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 46.2
COUNTY _____	CHEYENNE	ETHANE _____ 7.0
FIELD _____	WILD SAGE BRUSH	PROPANE _____ 4.7
WELL NAME _____	SCHEIMER NO. 1-24	N-BUTANE _____ 1.5
API _____	0501707618	ISOBUTANE _____ 0.6
LOCATION _____	SEC 24, T16S, R46W	N-PENTANE _____ 0.4
OWNER _____	MONUMENT GAS MARKETING, INC.	ISOPENTANE _____ 0.4
COMPLETED _____	020730	CYCLOPENTANE _____ --
SAMPLED _____	020827	HEXANES PLUS _____ 0.6
FORMATION _____	PENN-MORROW	NITROGEN _____ 35.3
GEOLOGIC PROVINCE CODE _____	450	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5044	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	4130	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 2.51
		HEATING VALUE* _____ 839
		SPECIFIC GRAVITY _____ 0.84

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21185	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 93.8
COUNTY _____	COMANCHE	ETHANE _____ 2.8
FIELD _____	AETNA	PROPANE _____ 1.0
WELL NAME _____	HULLETT NO. 1-14	N-BUTANE _____ 0.3
API _____	1503321153	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 14, T32S, R19W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	001116	CYCLOPENTANE _____ --
SAMPLED _____	030522	HEXANES PLUS _____ 0.4
FORMATION _____	ORDO-VIOLA	NITROGEN _____ 1.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5932	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1,065
		SPECIFIC GRAVITY _____ 0.604

SAMPLE	21212	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 79.5
COUNTY _____	BARBER	ETHANE _____ 8.7
FIELD _____	AETNA GAS AREA	PROPANE _____ 4.8
WELL NAME _____	SPRIGGS B1	N-BUTANE _____ 1.5
API _____	1500722214	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 32, T33S, R13W	N-PENTANE _____ 0.4
OWNER _____	WOOLSEY PETROLEUM CORP.	ISOPENTANE _____ 0.4
COMPLETED _____	881224	CYCLOPENTANE _____ --
SAMPLED _____	030612	HEXANES PLUS _____ 0.7
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 2.8
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4924	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1231	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1000	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.15
		HEATING VALUE* _____ 1,218
		SPECIFIC GRAVITY _____ 0.719

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21160	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 86.0
COUNTY _____	KIOWA	ETHANE _____ 5.5
FIELD _____	ALFORD	PROPANE _____ 2.9
WELL NAME _____	PAXTON 1	N-BUTANE _____ 1.1
API _____	1509721432	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 33, T30S, R18W	N-PENTANE _____ 0.3
OWNER _____	OIL PRODUCERS INC., OF KANSAS	ISOPENTANE _____ 0.3
COMPLETED _____	980811	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 0.6
FORMATION _____	PENN-MARMATON, CHRK, MISS-MSSP	NITROGEN _____ 2.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5034	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.13
		HEATING VALUE* _____ 1,146
		SPECIFIC GRAVITY _____ 0.669

SAMPLE	21196	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 77.9
COUNTY _____	BARBER	ETHANE _____ 8.2
FIELD _____	ANTRIM, S	PROPANE _____ 5.8
WELL NAME _____	VICKERY 1A	N-BUTANE _____ 1.8
API _____	1500721562	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 31, T32S, R10W	N-PENTANE _____ 0.5
OWNER _____	R & B OIL & GAS CO.	ISOPENTANE _____ 0.4
COMPLETED _____	830427	CYCLOPENTANE _____ --
SAMPLED _____	030610	HEXANES PLUS _____ 1.1
FORMATION _____	PENN-CHEROKEE	NITROGEN _____ 3.4
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4462	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1599	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	997	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.12
		HEATING VALUE* _____ 1,247
		SPECIFIC GRAVITY _____ 0.744

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21151	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 93.2
COUNTY _____	COMANCHE	ETHANE _____ 3.2
FIELD _____	BELCHER SE	PROPANE _____ 1.2
WELL NAME _____	BOOTH NO. 1-23	N-BUTANE _____ 0.4
API _____	1503320640	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 23, T32S, R17W	N-PENTANE _____ 0.1
OWNER _____	MIDCO EXPLORATION, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	840930	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5132	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	720	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	35	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1,069
		SPECIFIC GRAVITY _____ 0.605

SAMPLE	21174	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 72.1
COUNTY _____	COMANCHE	ETHANE _____ 6.6
FIELD _____	BIRD	PROPANE _____ 3.6
WELL NAME _____	LENERTZ 2	N-BUTANE _____ 1.2
API _____	1503321086	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 13, T32S, R19W	N-PENTANE _____ 0.4
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	000823	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.9
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 13.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.56
		HEATING VALUE* _____ 1,065
		SPECIFIC GRAVITY _____ 0.738

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21183	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 78.1
COUNTY _____	COMANCHE	ETHANE _____ 7.9
FIELD _____	BIRD	PROPANE _____ 3.9
WELL NAME _____	BIRD 3-28	N-BUTANE _____ 1.6
API _____	1503321341	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 28, T32S, R19W	N-PENTANE _____ 0.5
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.4
COMPLETED _____	030116	CYCLOPENTANE _____ --
SAMPLED _____	030522	HEXANES PLUS _____ 0.8
FORMATION _____	ORDO-VIOLA	NITROGEN _____ 5.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.24
		HEATING VALUE* _____ 1,174
		SPECIFIC GRAVITY _____ 0.723

SAMPLE	21163	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 85.7
COUNTY _____	COMANCHE	ETHANE _____ 4.3
FIELD _____	BIRD E	PROPANE _____ 3.5
WELL NAME _____	KERSTETTER 2-33	N-BUTANE _____ 1.3
API _____	1503320450	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 33, T32S, R19W	N-PENTANE _____ 0.4
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	000429	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 1.0
FORMATION _____	PENN-PAWNEE	NITROGEN _____ 2.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.13
		HEATING VALUE* _____ 1,165
		SPECIFIC GRAVITY _____ 0.684

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21181	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 92.0
COUNTY _____	COMANCHE	ETHANE _____ 2.9
FIELD _____	BIRD E	PROPANE _____ 1.3
WELL NAME _____	RICH 23-14	N-BUTANE _____ 0.5
API _____	1503321042	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 23, T32S, R19W	N-PENTANE _____ 0.2
OWNER _____	GARY SAMUEL, JR. & ASSOCIATES	ISOPENTANE _____ 0.2
COMPLETED _____	000215	CYCLOPENTANE _____ --
SAMPLED _____	030522	HEXANES PLUS _____ 0.6
FORMATION _____	ORDO-VIOLA	NITROGEN _____ 1.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5808	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	250	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.12
		HEATING VALUE* _____ 1,081
		SPECIFIC GRAVITY _____ 0.622

SAMPLE	21179	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 87.8
COUNTY _____	COMANCHE	ETHANE _____ 3.9
FIELD _____	BIRD NE	PROPANE _____ 3.6
WELL NAME _____	LYON 1	N-BUTANE _____ 1.1
API _____	1503320980	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 21, T32S, R19W	N-PENTANE _____ 0.3
OWNER _____	OIL PRODUCERS INC. OF KANSAS	ISOPENTANE _____ 0.3
COMPLETED _____	990117	CYCLOPENTANE _____ --
SAMPLED _____	030522	HEXANES PLUS _____ 0.7
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5120	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	747	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	200	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.11
		HEATING VALUE* _____ 1,152
		SPECIFIC GRAVITY _____ 0.665

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21243	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 89.1
COUNTY _____	EDWARDS	ETHANE _____ 3.1
FIELD _____	BORDEWICK E	PROPANE _____ 1.1
WELL NAME _____	TAYLOR 1	N-BUTANE _____ 0.4
API _____	1504720888	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 24, T26S, R18W	N-PENTANE _____ 0.1
OWNER _____	KODIAK PETROLEUM, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	811028	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 4.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4558	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1250	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	166	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.50
		HEATING VALUE* _____ 1,031
		SPECIFIC GRAVITY _____ 0.622

SAMPLE	21210	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 79.4
COUNTY _____	BARBER	ETHANE _____ 6.4
FIELD _____	BROOKS-YOUNGER N	PROPANE _____ 3.1
WELL NAME _____	LENKNER 1	N-BUTANE _____ 0.9
API _____	1500721781	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 15, T32S, R13W	N-PENTANE _____ 0.3
OWNER _____	PRATT WELL SERVICE, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	840523	CYCLOPENTANE _____ --
SAMPLED _____	030612	HEXANES PLUS _____ 0.5
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 8.5
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4435	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1617	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	210	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.26
		HEATING VALUE* _____ 1,078
		SPECIFIC GRAVITY _____ 0.689

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	50586	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 93.0
COUNTY _____	COMANCHE	ETHANE _____ 2.5
FIELD _____	BUTTERMILK E	PROPANE _____ 0.8
WELL NAME _____	COLE NO. 1	N-BUTANE _____ 0.3
API _____	1503321078	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 9 T34S. R18W	N-PENTANE _____ 0.1
OWNER _____	CRAWFORD OIL & GAS, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	000412	CYCLOPENTANE _____ --
SAMPLED _____	000400	HEXANES PLUS _____ 0.6
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 2.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1.066
		SPECIFIC GRAVITY _____ 0.613

SAMPLE	21258	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.1
COUNTY _____	PAWNEE	ETHANE _____ 3.6
FIELD _____	CARPENTER	PROPANE _____ 1.5
WELL NAME _____	HAWES 1B	N-BUTANE _____ 0.6
API _____	1514520205	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 29 T23S. R16W	N-PENTANE _____ 0.2
OWNER _____	RENEGADE RESOURCES CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	710622	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.7
FORMATION _____	PENN-CHEROKEE	NITROGEN _____ 4.2
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4156	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1100	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3650	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.51
		HEATING VALUE* _____ 1.068
		SPECIFIC GRAVITY _____ 0.639

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21254	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 82.4
COUNTY _____	PAWNEE	ETHANE _____ 2.3
FIELD _____	CARPENTER	PROPANE _____ 0.8
WELL NAME _____	PARAMORE 1	N-BUTANE _____ 0.2
API _____	1514500147	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 11, T23S, R17W	N-PENTANE _____ 0.1
OWNER _____	HERMAN L. LOEB	ISOPENTANE _____ 0.1
COMPLETED _____	660127	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.2
FORMATION _____	MISS-CONGLOMERATE	NITROGEN _____ 12.9
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4083	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1055	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2500	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.73
		HEATING VALUE* _____ 923
		SPECIFIC GRAVITY _____ 0.637

SAMPLE	21257	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.5
COUNTY _____	PAWNEE	ETHANE _____ 3.4
FIELD _____	CARPENTER	PROPANE _____ 1.4
WELL NAME _____	ROW 1	N-BUTANE _____ 0.5
API _____	1514520222	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 30, T23S, R16W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	710728	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 4.8
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4192	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1326	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2111	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.60
		HEATING VALUE* _____ 1,037
		SPECIFIC GRAVITY _____ 0.624

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21256	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 87.4
COUNTY	PAWNEE	ETHANE 3.6
FIELD	CARPENTER	PROPANE 1.6
WELL NAME	BRADLEY 1	N-BUTANE 0.6
API	1514520146	ISOBUTANE 0.3
LOCATION	SEC. 29, T23S, R16W	N-PENTANE 0.2
OWNER	AMERICAN WARRIOR, INC.	ISOPENTANE 0.1
COMPLETED	700812	CYCLOPENTANE --
SAMPLED	030820	HEXANES PLUS 0.5
FORMATION	ORDO-VIOLA	NITROGEN 5.0
GEOLOGIC PROVINCE CODE	385	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	4257	ARGON 0.1
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD		CARBON DIOXIDE 0.1
		HELIUM 0.64
		HEATING VALUE* 1.052
		SPECIFIC GRAVITY 0.637

SAMPLE	21241	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 72.9
COUNTY	BARTON	ETHANE 1.8
FIELD	CHASE-SILICA	PROPANE 0.7
WELL NAME	GRANT 1	N-BUTANE 0.5
API	1500920798	ISOBUTANE 0.2
LOCATION	SEC. 20, T20S, R11W	N-PENTANE 0.4
OWNER	BEAR PETROLEUM CO.	ISOPENTANE 0.3
COMPLETED	740331	CYCLOPENTANE --
SAMPLED	030819	HEXANES PLUS 0.5
FORMATION	PERM-CHASE GROUP	NITROGEN 21.6
GEOLOGIC PROVINCE CODE	385	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	1544	ARGON 0.1
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	429	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	97	CARBON DIOXIDE 0.1
		HELIUM 1.04
		HEATING VALUE* 860
		SPECIFIC GRAVITY 0.69

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21259	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.7
COUNTY _____	EDWARDS	ETHANE _____ 3.3
FIELD _____	CLW.F	PROPANE _____ 1.2
WELL NAME _____	NEFF A-1	N-BUTANE _____ 0.4
API _____	1504720386	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 26, T25S, R18W	N-PENTANE _____ 0.1
OWNER _____	PINTAIL PETROLEUM LIMITED	ISOPENTANE _____ 0.1
COMPLETED _____	780830	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 4.9
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4597	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1258	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	453	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.45
		HEATING VALUE* _____ 1,035
		SPECIFIC GRAVITY _____ 0.625

SAMPLE	50593	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 84.6
COUNTY _____	COMANCHE	ETHANE _____ 3.8
FIELD _____	COLDWATER TOWNSITE	PROPANE _____ 2.2
WELL NAME _____	WILLBANKS NO. 1-9	N-BUTANE _____ 0.9
API _____	1503321275	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 9, T32S, R18W	N-PENTANE _____ 0.3
OWNER _____	IMPERIAL OIL PROPERTIES, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	020226	CYCLOPENTANE _____ --
SAMPLED _____	020107	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-CHEROKEE	NITROGEN _____ 7.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5133	ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1200	HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____	250	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.14
		HEATING VALUE* _____ 1,052
		SPECIFIC GRAVITY _____ 0.659

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21175	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 71.5
COUNTY _____	COMANCHE	ETHANE _____ 10.1
FIELD _____	COLDWATER TOWNSITE	PROPANE _____ 5.3
WELL NAME _____	LAKE NO. 4	N-BUTANE _____ 2.0
API _____	1503321216	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 13, T32S, R19W	N-PENTANE _____ 0.7
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.5
COMPLETED _____	010502	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.7
FORMATION _____	ORDO-VIOLA	NITROGEN _____ 7.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.22
		HEATING VALUE* _____ 1,204
		SPECIFIC GRAVITY _____ 0.769

SAMPLE	21156	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 94.1
COUNTY _____	COMANCHE	ETHANE _____ 2.6
FIELD _____	COLLIER FLATS	PROPANE _____ 1.0
WELL NAME _____	BAKER FARMS A1	N-BUTANE _____ 0.3
API _____	1503320987	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 24, T33S, R20W	N-PENTANE _____ 0.1
OWNER _____	PICKRELL DRILLING CO., INC.	ISOPENTANE _____ 0.1
COMPLETED _____	990215	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 0.2
FORMATION _____	PENN-CHEROKEE	NITROGEN _____ 1.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5192	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1023	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1,058
		SPECIFIC GRAVITY _____ 0.599

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21157	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 91.2
COUNTY _____	COMANCHE	ETHANE _____ 3.3
FIELD _____	COLLIER FLATS E	PROPANE _____ 1.6
WELL NAME _____	CHRISTOPHER NO. A-1	N-BUTANE _____ 0.6
API _____	1503321085	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 32, T33S, R19W	N-PENTANE _____ 0.2
OWNER _____	DAYSTAR PETROLEUM, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	000708	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 0.6
FORMATION _____	ORDO-VIOLA	NITROGEN _____ 1.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6123	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	400	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1,089
		SPECIFIC GRAVITY _____ 0.629

SAMPLE	21170	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 84.5
COUNTY _____	COMANCHE	ETHANE _____ 4.0
FIELD _____	COLTER	PROPANE _____ 3.2
WELL NAME _____	PHILLIPS NO. 1-7	N-BUTANE _____ 1.5
API _____	1503320905	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 1, T33S, R19W	N-PENTANE _____ 0.4
OWNER _____	GARY SAMUEL, JR. & ASSOCIATES	ISOPENTANE _____ 0.4
COMPLETED _____	971114	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.9
FORMATION _____	PENN-LNSG. DRUM. SWOPE. MRMN	NITROGEN _____ 4.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4982	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	600	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.19
		HEATING VALUE* _____ 1,147
		SPECIFIC GRAVITY _____ 0.689

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21171	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 87.3
COUNTY	COMANCHE	ETHANE 4.0
FIELD	COLTER	PROPANE 2.8
WELL NAME	COLTER NO. A-1	N-BUTANE 1.1
API	1503320776	ISOBUTANE 0.3
LOCATION	SEC. 36, T32S, R19W	N-PENTANE 0.3
OWNER	GARY SAMUEL, JR. & ASSOCIATES	ISOPENTANE 0.3
COMPLETED	900310	CYCLOPENTANE --
SAMPLED	030521	HEXANES PLUS 0.8
FORMATION	PENN-MARMATON, MISS-MISSISSIPPIAN	NITROGEN 2.9
GEOLOGIC PROVINCE CODE	360	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	5072	ARGON 0.1
MEASURED DEPTH		HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	425	CARBON DIOXIDE 0.1
		HELIUM 0.15
		HEATING VALUE* 1,131
		SPECIFIC GRAVITY 0.664

SAMPLE	21178	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 84.3
COUNTY	COMANCHE	ETHANE 5.3
FIELD	COLTER	PROPANE 2.1
WELL NAME	CARY NO. 36-16	N-BUTANE 0.7
API	1503320966	ISOBUTANE 0.3
LOCATION	SEC. 36, T32S, R19W	N-PENTANE 0.2
OWNER	GARY SAMUEL, JR. & ASSOCIATES	ISOPENTANE 0.2
COMPLETED	980827	CYCLOPENTANE --
SAMPLED	030521	HEXANES PLUS 0.2
FORMATION	PENN-PAWNEE	NITROGEN 6.2
GEOLOGIC PROVINCE CODE	360	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)		ARGON TRACE
MEASURED DEPTH		HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD		CARBON DIOXIDE 0.2
		HELIUM 0.28
		HEATING VALUE* 1,060
		SPECIFIC GRAVITY 0.654

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21166	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 86.5
COUNTY _____	COMANCHE	ETHANE _____ 3.9
FIELD _____	COLTER S.	PROPANE _____ 2.9
WELL NAME _____	COLTER NO. 1	N-BUTANE _____ 1.3
API _____	1503321067	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 11, T33S, R19W	N-PENTANE _____ 0.5
OWNER _____	LARIO OIL & GAS CO.	ISOPENTANE _____ 0.4
COMPLETED _____	000421	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 1.3
FORMATION _____	PENN-FORT SCOTT	NITROGEN _____ 2.5
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5188	ARGON _____ 0.2
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	593	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.15
		HEATING VALUE* _____ 1,168
		SPECIFIC GRAVITY _____ 0.685

SAMPLE	21167	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 86.3
COUNTY _____	COMANCHE	ETHANE _____ 4.0
FIELD _____	COLTER S.	PROPANE _____ 3.0
WELL NAME _____	KANISS NO. 1	N-BUTANE _____ 1.3
API _____	1503320735	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 12, T33S, R19W	N-PENTANE _____ 0.4
OWNER _____	LARIO OIL & GAS CO.	ISOPENTANE _____ 0.3
COMPLETED _____	881115	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 1.1
FORMATION _____	PENN-FORT SCOTT	NITROGEN _____ 2.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5188	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	264	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.15
		HEATING VALUE* _____ 1,158
		SPECIFIC GRAVITY _____ 0.68

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21164	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 93.5
COUNTY _____	COMANCHE	ETHANE _____ 2.8
FIELD _____	COLTER W.	PROPANE _____ 1.0
WELL NAME _____	JELLISON 10-2	N-BUTANE _____ 0.4
API _____	1503321092	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 10, T33S, R19W	N-PENTANE _____ 0.1
OWNER _____	GARY SAMUEL, JR. & ASSOCIATES	ISOPENTANE _____ 0.1
COMPLETED _____	000624	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.4
FORMATION _____	PENN-CHEROKEE	NITROGEN _____ 1.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5215	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1.067
		SPECIFIC GRAVITY _____ 0.607

SAMPLE	21162	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 90.0
COUNTY _____	COMANCHE	ETHANE _____ 3.3
FIELD _____	COLTER W.	PROPANE _____ 1.9
WELL NAME _____	HERD 34-14	N-BUTANE _____ 0.8
API _____	1503320921	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 34, T32S, R19W	N-PENTANE _____ 0.3
OWNER _____	GARY SAMUEL, JR. & ASSOCIATES	ISOPENTANE _____ 0.3
COMPLETED _____	01722	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 1.0
FORMATION _____	PENN-MARMATON	NITROGEN _____ 1.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4932	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	200	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.11
		HEATING VALUE* _____ 1.121
		SPECIFIC GRAVITY _____ 0.648

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21165	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 93.9
COUNTY _____	COMANCHE	ETHANE _____ 2.7
FIELD _____	COLTER W.	PROPANE _____ 1.0
WELL NAME _____	WEBSTER 3-10	N-BUTANE _____ 0.3
API _____	1503321050	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 3, T33S, R19W	N-PENTANE _____ 0.1
OWNER _____	GARY SAMUEL, JR. & ASSOCIATES	ISOPENTANE _____ 0.1
COMPLETED _____	000301	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5261	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1129	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	608	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1.062
		SPECIFIC GRAVITY _____ 0.602

SAMPLE	21180	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 93.9
COUNTY _____	COMANCHE	ETHANE _____ 2.7
FIELD _____	COLTER W.	PROPANE _____ 1.0
WELL NAME _____	BIRD 2-28	N-BUTANE _____ 0.3
API _____	1503321317	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 28, T32S, R19W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.1
COMPLETED _____		CYCLOPENTANE _____ --
SAMPLED _____	030522	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1.061
		SPECIFIC GRAVITY _____ 0.601

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21161	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 89.0
COUNTY	COMANCHE	ETHANE 4.7
FIELD	COLTER W	PROPANE 2.3
WELL NAME	NEILSON 1-33	N-BUTANE 0.8
API	1503320924	ISOBUTANE 0.4
LOCATION	SEC. 33, T32S, R19W	N-PENTANE 0.2
OWNER	AMERICAN WARRIOR, INC.	ISOPENTANE 0.2
COMPLETED	970219	CYCLOPENTANE --
SAMPLED	030521	HEXANES PLUS 0.4
FORMATION	MISS-MISSISSIPPIAN	NITROGEN 1.4
GEOLOGIC PROVINCE CODE	360	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	5272	ARGON 0.1
MEASURED DEPTH		HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	500	CARBON DIOXIDE 0.4
		HELIUM 0.11
		HEATING VALUE* 1,118
		SPECIFIC GRAVITY 0.644

SAMPLE	21182	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 90.7
COUNTY	COMANCHE	ETHANE 3.3
FIELD	COLTER W	PROPANE 1.8
WELL NAME	WEBSTER 3-4	N-BUTANE 0.7
API	1503320975	ISOBUTANE 0.3
LOCATION	SEC. 3, T33S, R19W	N-PENTANE 0.3
OWNER	GARY SAMUEL, JR. & ASSOCIATES	ISOPENTANE 0.2
COMPLETED	981117	CYCLOPENTANE --
SAMPLED	030522	HEXANES PLUS 0.7
FORMATION	PENN-PAWNEE, MISS-MISSISSIPPIAN	NITROGEN 1.6
GEOLOGIC PROVINCE CODE	360	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)		ARGON 0.1
MEASURED DEPTH		HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD		CARBON DIOXIDE 0.2
		HELIUM 0.11
		HEATING VALUE* 1,107
		SPECIFIC GRAVITY 0.637

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21097	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 42.4
COUNTY _____	MORTON	ETHANE _____ 1.1
FIELD _____	ELKHART W.	PROPANE _____ 0.7
WELL NAME _____	MOORE C-3	N-BUTANE _____ 0.4
API _____	1512920513	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 8, T35S, R43W	N-PENTANE _____ 0.2
OWNER _____	R.M. NAIRN	ISOPENTANE _____ 0.2
COMPLETED _____	810618	CYCLOPENTANE _____ --
SAMPLED _____	021120	HEXANES PLUS _____ 0.6
FORMATION _____	PERM-RED CAVE	NITROGEN _____ 52.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	1326	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	147	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 1.31
		HEATING VALUE* _____ 534
		SPECIFIC GRAVITY _____ 0.812

SAMPLE	21211	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 86.7
COUNTY _____	BARBER	ETHANE _____ 5.8
FIELD _____	ELSEA	PROPANE _____ 2.9
WELL NAME _____	ELSEA 1-B 1D	N-BUTANE _____ 1.0
API _____	1500701358	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 34, T32S, R14W	N-PENTANE _____ 0.3
OWNER _____	REX MONAHAN CO.	ISOPENTANE _____ 0.3
COMPLETED _____	570807	CYCLOPENTANE _____ --
SAMPLED _____	030612	HEXANES PLUS _____ 0.7
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.6
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4733	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1418	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	14000	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.11
		HEATING VALUE* _____ 1.156
		SPECIFIC GRAVITY _____ 0.666

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	50601	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 84.6
COUNTY _____	EDWARDS	ETHANE _____ 2.6
FIELD _____	ENLOW	PROPANE _____ 0.7
WELL NAME _____	MILLER NO. 6-13	N-BUTANE _____ 0.1
API _____	1504721474	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 13, T24S, R17W	N-PENTANE _____ TRACE
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ TRACE
COMPLETED _____	021216	CYCLOPENTANE _____ --
SAMPLED _____	030409	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-FORT RILEY	NITROGEN _____ 11.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2350	ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ --
WELLHEAD PRESSURE, PSIG _____	240	HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____	1104	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.57
		HEATING VALUE* _____ 929
		SPECIFIC GRAVITY _____ 0.624

SAMPLE	21264	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.0
COUNTY _____	EDWARDS	ETHANE _____ 3.5
FIELD _____	ENLOW	PROPANE _____ 1.5
WELL NAME _____	DONOVAN 2-16	N-BUTANE _____ 0.5
API _____	1504721228	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 16, T24S, R16W	N-PENTANE _____ 0.2
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.1
COMPLETED _____	841215	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.5
FORMATION _____	MISS-KINDERHOOK	NITROGEN _____ 5.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4281	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	252	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3056	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.43
		HEATING VALUE* _____ 1,048
		SPECIFIC GRAVITY _____ 0.633

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21260	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.6
COUNTY _____	STAFFORD	ETHANE _____ 3.8
FIELD _____	FARMINGTON	PROPANE _____ 1.7
WELL NAME _____	YOUNG 3-19	N-BUTANE _____ 0.6
API _____	1518523107	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 19, T24S, R15W	N-PENTANE _____ 0.2
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.2
COMPLETED _____	001229	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.6
FORMATION _____	MISS-KINDERHOOK	NITROGEN _____ 3.5
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4233	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	90	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	64	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.42
		HEATING VALUE* _____ 1,080
		SPECIFIC GRAVITY _____ 0.639

SAMPLE	21249	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.9
COUNTY _____	STAFFORD	ETHANE _____ 3.9
FIELD _____	FARMINGTON W.	PROPANE _____ 1.7
WELL NAME _____	SIEBERT 1	N-BUTANE _____ 0.6
API _____	1518520181	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 32, T24S, R15W	N-PENTANE _____ 0.2
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.2
COMPLETED _____	690819	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.5
FORMATION _____	MISS-CONGLOMERATE	NITROGEN _____ 3.1
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4184	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	540	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	734	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.37
		HEATING VALUE* _____ 1,081
		SPECIFIC GRAVITY _____ 0.636

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21265	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 90.8
COUNTY	EDWARDS	ETHANE 3.2
FIELD	FATZER	PROPANE 1.2
WELL NAME	NEWSOM 1-14	N-BUTANE 0.4
API	1504720253	ISOBUTANE 0.2
LOCATION	SEC. 14, T26S, R17W	N-PENTANE 0.1
OWNER	HOLL, F.G., CO. LLC	ISOPENTANE 0.1
COMPLETED	770714	CYCLOPENTANE --
SAMPLED	030821	HEXANES PLUS 0.3
FORMATION	MISS-MISSISSIPPIAN	NITROGEN 3.0
GEOLOGIC PROVINCE CODE	360	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	4527	ARGON 0.1
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	255	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	1800	CARBON DIOXIDE 0.2
		HELIUM 0.34
		HEATING VALUE* 1.052
		SPECIFIC GRAVITY 0.616

SAMPLE	21245	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 89.9
COUNTY	EDWARDS	ETHANE 3.2
FIELD	FELLSBURG	PROPANE 1.2
WELL NAME	PARKER ESTATE 1	N-BUTANE 0.4
API	1504720247	ISOBUTANE 0.2
LOCATION	SEC. 4, T26S, R17W	N-PENTANE 0.1
OWNER	MURFIN DRILLING CO.	ISOPENTANE 0.1
COMPLETED	770608	CYCLOPENTANE --
SAMPLED	030820	HEXANES PLUS 0.4
FORMATION	MISS-MISSISSIPPIAN	NITROGEN 3.8
GEOLOGIC PROVINCE CODE	360	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	4543	ARGON 0.1
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	1518	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	760	CARBON DIOXIDE 0.2
		HELIUM 0.47
		HEATING VALUE* 1.045
		SPECIFIC GRAVITY 0.62

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21274	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 83.4
COUNTY _____	EDWARDS	ETHANE _____ 3.3
FIELD _____	GARFIELD SW	PROPANE _____ 1.3
WELL NAME _____	HOAR 2-6	N-BUTANE _____ 0.4
API _____	1504720365	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 6, T24S, R17W	N-PENTANE _____ 0.1
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.1
COMPLETED _____	780512	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 9.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4409	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	250	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2500	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.97
		HEATING VALUE* _____ 985
		SPECIFIC GRAVITY _____ 0.644

SAMPLE	21273	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 83.4
COUNTY _____	PAWNEE	ETHANE _____ 3.3
FIELD _____	GARFIELD SW	PROPANE _____ 1.3
WELL NAME _____	CITY OF GARFIELD 1	N-BUTANE _____ 0.4
API _____	1514520498	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 31, T23S, R17W	N-PENTANE _____ 0.1
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.1
COMPLETED _____	780203	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN, KINDERHOOK	NITROGEN _____ 9.6
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4363	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	140	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2180	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.95
		HEATING VALUE* _____ 983
		SPECIFIC GRAVITY _____ 0.643

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20226	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 65.0
COUNTY	MORTON	ETHANE 6.3
FIELD	GREENWOOD	PROPANE 3.9
WELL NAME	USA BROWN 1	N-BUTANE 1.2
API	1512910598	ISOBUTANE 0.4
LOCATION	SEC. 6 T33S, R43W	N-PENTANE 0.4
OWNER	KAISER-FRANCIS OIL CO.	ISOPENTANE 0.3
COMPLETED	540414	CYCLOPENTANE --
SAMPLED	000511	HEXANES PLUS 0.4
FORMATION	PENN-TOPEKA	NITROGEN 21.3
GEOLOGIC PROVINCE CODE	360	OXYGEN 0.1
TRUE VERTICAL DEPTH (FT)	3092	ARGON 0.0
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	440	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	8829	CARBON DIOXIDE 0.2
		HELIUM 0.52
		HEATING VALUE* 977
		SPECIFIC GRAVITY 0.76

SAMPLE	21096	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 66.8
COUNTY	MORTON	ETHANE 5.6
FIELD	GREENWOOD	PROPANE 3.6
WELL NAME	TUCKER NO. C-1	N-BUTANE 1.1
API	1512910375	ISOBUTANE 0.4
LOCATION	SEC. 14 T34S, R42W	N-PENTANE 0.3
OWNER	OXY USA, INC.	ISOPENTANE 0.2
COMPLETED	010517	CYCLOPENTANE --
SAMPLED	021120	HEXANES PLUS 0.5
FORMATION	PENN-TOPEKA	NITROGEN 20.8
GEOLOGIC PROVINCE CODE	360	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)		ARGON TRACE
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD		CARBON DIOXIDE 0.1
		HELIUM 0.55
		HEATING VALUE* 961
		SPECIFIC GRAVITY 0.745

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21099	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 63.2
COUNTY _____	MORTON	ETHANE _____ 6.5
FIELD _____	GREENWOOD	PROPANE _____ 5.0
WELL NAME _____	INGLE NO. 1	N-BUTANE _____ 2.0
API _____	1512910229	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 11, T34S, R42W	N-PENTANE _____ 0.7
OWNER _____	MM RESOURCES	ISOPENTANE _____ 0.5
COMPLETED _____	560328	CYCLOPENTANE _____ --
SAMPLED _____	021120	HEXANES PLUS _____ 2.0
FORMATION _____	PENN-WABAUNSEE	NITROGEN _____ 18.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3193	ARGON _____ 0.2
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	42141	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.52
		HEATING VALUE* _____ 1,109
		SPECIFIC GRAVITY _____ 0.821

SAMPLE	21250	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 81.5
COUNTY _____	STAFFORD	ETHANE _____ 4.2
FIELD _____	GRUNDER	PROPANE _____ 2.4
WELL NAME _____	BARSTOW B2	N-BUTANE _____ 1.0
API _____	1518522382	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 3, T25S, R15W	N-PENTANE _____ 0.3
OWNER _____	GOULD OIL INC.	ISOPENTANE _____ 0.2
COMPLETED _____	870616	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.7
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 8.1
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4208	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1211	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	60	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.83
		HEATING VALUE* _____ 1,062
		SPECIFIC GRAVITY _____ 0.678

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21193	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 86.5
COUNTY	BARBER	ETHANE 3.2
FIELD	HARDING	PROPANE 1.4
WELL NAME	ROLF L 1A	N-BUTANE 0.4
API	1500720394	ISOBUTANE 0.2
LOCATION	SEC. 3, T30S, R11W	N-PENTANE 0.1
OWNER	WOOLSEY PETROLEUM CORP.	ISOPENTANE 0.1
COMPLETED	760512	CYCLOPENTANE --
SAMPLED	030610	HEXANES PLUS 0.1
FORMATION	PENN-INDIAN CAVE	NITROGEN 7.5
GEOLOGIC PROVINCE CODE	375	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	2731	ARGON 0.0
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	778	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	6932	CARBON DIOXIDE 0.2
		HELIUM 0.29
		HEATING VALUE* 998
		SPECIFIC GRAVITY 0.629

SAMPLE	21192	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 84.5
COUNTY	BARBER	ETHANE 4.0
FIELD	HARDING	PROPANE 2.0
WELL NAME	MARTIN NO. 1	N-BUTANE 0.7
API	1500722491	ISOBUTANE 0.3
LOCATION	SEC. 1, T30S, R12W	N-PENTANE 0.2
OWNER	MCGINNESS OIL CO.	ISOPENTANE 0.2
COMPLETED	960228	CYCLOPENTANE --
SAMPLED	030610	HEXANES PLUS 0.3
FORMATION	PENN-TARKIO	NITROGEN 6.9
GEOLOGIC PROVINCE CODE	375	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	2947	ARGON 0.1
MEASURED DEPTH		HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	1004	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	275	CARBON DIOXIDE 0.6
		HELIUM 0.25
		HEATING VALUE* 1,039
		SPECIFIC GRAVITY 0.656

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21202	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 89.8
COUNTY _____	BARBER	ETHANE _____ 4.6
FIELD _____	HARDTNER	PROPANE _____ 2.1
WELL NAME _____	HELEN WILEY 2	N-BUTANE _____ 0.8
API _____	1500721505	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 27, T34S, R12W	N-PENTANE _____ 0.3
OWNER _____	MOLZ OIL CO., INC.	ISOPENTANE _____ 0.2
COMPLETED _____	830428	CYCLOPENTANE _____ --
SAMPLED _____	030611	HEXANES PLUS _____ 0.4
FORMATION _____	-	NITROGEN _____ 1.4
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1.115
		SPECIFIC GRAVITY _____ 0.637

SAMPLE	21204	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 92.0
COUNTY _____	BARBER	ETHANE _____ 3.7
FIELD _____	HARDTNER W	PROPANE _____ 1.5
WELL NAME _____	PIERSON NO. 1	N-BUTANE _____ 0.5
API _____	1500720522	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 10, T35S, R13W	N-PENTANE _____ 0.2
OWNER _____	BEREXCO, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	771000	CYCLOPENTANE _____ --
SAMPLED _____	030611	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.3
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4918	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1809	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2342	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1.085
		SPECIFIC GRAVITY _____ 0.616

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21224	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 74.6
COUNTY	BARTON	ETHANE 1.6
FIELD	HEIZER SW	PROPANE 0.4
WELL NAME	ALDRICH 2	N-BUTANE 0.1
API	1500900741	ISOBUTANE 0.1
LOCATION	SEC. 29, T19S, R14W	N-PENTANE TRACE
OWNER	LEBSACK OIL PRODUCTION, INC.	ISOPENTANE TRACE
COMPLETED	020128	CYCLOPENTANE --
SAMPLED	030818	HEXANES PLUS TRACE
FORMATION	PERM-CHASE GROUP	NITROGEN 22.1
GEOLOGIC PROVINCE CODE	385	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)		ARGON TRACE
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD		CARBON DIOXIDE 0.0
		HELIUM 1.05
		HEATING VALUE* 799
		SPECIFIC GRAVITY 0.655

SAMPLE	21225	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 69.9
COUNTY	BARTON	ETHANE 1.8
FIELD	HEIZER SW	PROPANE 0.7
WELL NAME	ALDRICH 1	N-BUTANE 0.2
API	1500924718	ISOBUTANE 0.1
LOCATION	SEC. 29, T19S, R14W	N-PENTANE TRACE
OWNER	LEBSACK OIL PRODUCTION, INC.	ISOPENTANE TRACE
COMPLETED	011201	CYCLOPENTANE --
SAMPLED	030818	HEXANES PLUS TRACE
FORMATION	PERM-CHASE GROUP	NITROGEN 26.0
GEOLOGIC PROVINCE CODE	385	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)		ARGON TRACE
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG		HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD		CARBON DIOXIDE 0.0
		HELIUM 1.23
		HEATING VALUE* 769
		SPECIFIC GRAVITY 0.678

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21227	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 71.5
COUNTY _____	BARTON	ETHANE _____ 2.0
FIELD _____	HOMESTEAD N	PROPANE _____ 0.8
WELL NAME _____	TINDALL-LARSON 1	N-BUTANE _____ 0.2
API _____	1500921138	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 15, T18S, R13W	N-PENTANE _____ 0.1
OWNER _____	CAMBRIA CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	000516	CYCLOPENTANE _____ --
SAMPLED _____	030818	HEXANES PLUS _____ TRACE
FORMATION _____	PERM-PERMIAN	NITROGEN _____ 24.0
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.0
		HELIUM _____ 1.24
		HEATING VALUE* _____ 796
		SPECIFIC GRAVITY _____ 0.673

SAMPLE	21228	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 71.9
COUNTY _____	BARTON	ETHANE _____ 2.1
FIELD _____	HOMESTEAD NE	PROPANE _____ 0.8
WELL NAME _____	RUSCO A1	N-BUTANE _____ 0.2
API _____	1500921552	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 14, T18S, R13W	N-PENTANE _____ 0.1
OWNER _____	CAMBRIA CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	001027	CYCLOPENTANE _____ --
SAMPLED _____	030818	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-PERMIAN	NITROGEN _____ 23.4
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.0
		HELIUM _____ 1.18
		HEATING VALUE* _____ 806
		SPECIFIC GRAVITY _____ 0.673

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21089	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 67.4
COUNTY _____	FINNEY	ETHANE _____ 3.6
FIELD _____	HUGOTON	PROPANE _____ 2.1
WELL NAME _____	LIGHTNER NO. 2-1	N-BUTANE _____ 0.7
API _____	1505521770	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 2, T26S, R32W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	020315	CYCLOPENTANE _____ --
SAMPLED _____	021119	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-CHASE GROUP	NITROGEN _____ 24.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.63
		HEATING VALUE* _____ 850
		SPECIFIC GRAVITY _____ 0.716

SAMPLE	20921	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 69.2
COUNTY _____	PRATT	ETHANE _____ 3.2
FIELD _____	IUKA-CARML	PROPANE _____ 2.7
WELL NAME _____	LUDERS NO. 7	N-BUTANE _____ 1.2
API _____	1515122163	ISOBUTANE _____ 0.6
LOCATION _____	SEC 7, T27S, R12W	N-PENTANE _____ 0.4
OWNER _____	PRATT WELL SERVICE, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	980726	CYCLOPENTANE _____ --
SAMPLED _____	020325	HEXANES PLUS _____ 0.6
FORMATION _____	PENN-LANGDON	NITROGEN _____ 21.2
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2754	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	663	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1279	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.52
		HEATING VALUE* _____ 939
		SPECIFIC GRAVITY _____ 0.736

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21168	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.1
COUNTY _____	COMANCHE	ETHANE _____ 3.5
FIELD _____	KEIGHLEY NW	PROPANE _____ 1.6
WELL NAME _____	WAGNON NO. 1-9	N-BUTANE _____ 0.7
API _____	1503321025	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 9, T33S, R18W	N-PENTANE _____ 0.2
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	990914	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.9
FORMATION _____	PENN-KANSAS CITY	NITROGEN _____ 4.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.18
		HEATING VALUE* _____ 1,087
		SPECIFIC GRAVITY _____ 0.649

SAMPLE	21169	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 89.2
COUNTY _____	COMANCHE	ETHANE _____ 3.3
FIELD _____	KEIGHLEY NW	PROPANE _____ 1.1
WELL NAME _____	BEELEY NO. 1	N-BUTANE _____ 0.6
API _____	1503321040	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 10, T33S, R18W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	991208	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.9
FORMATION _____	PENN-PAWNEE	NITROGEN _____ 3.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.2
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.19
		HEATING VALUE* _____ 1,072
		SPECIFIC GRAVITY _____ 0.639

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21153	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 83.4
COUNTY _____	COMANCHE	ETHANE _____ 4.4
FIELD _____	KIOWA BOW	PROPANE _____ 1.8
WELL NAME _____	RANDALL NO. 1-27	N-BUTANE _____ 0.6
API _____	1503321210	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 27, T31S, R20W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	010427	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 8.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5293	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.27
		HEATING VALUE* _____ 1,027
		SPECIFIC GRAVITY _____ 0.656

SAMPLE	50590	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 75.7
COUNTY _____	BARBER	ETHANE _____ 6.8
FIELD _____	LEM	PROPANE _____ 2.9
WELL NAME _____	LEMON-TRUST NO. 1-16	N-BUTANE _____ 0.9
API _____	1500722708	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 16, T30S, R13W	N-PENTANE _____ 0.3
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.2
COMPLETED _____	020717	CYCLOPENTANE _____ --
SAMPLED _____	020812	HEXANES PLUS _____ 0.5
FORMATION _____	ORDO-VIOLA	NITROGEN _____ 11.2
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.1
TRUE VERTICAL DEPTH (FT) _____	4496	ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____	1023	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.89
		HEATING VALUE* _____ 1,037
		SPECIFIC GRAVITY _____ 0.7

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21159	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 91.3
COUNTY _____	COMANCHE	ETHANE _____ 3.0
FIELD _____	LEMON RANCH SE	PROPANE _____ 1.6
WELL NAME _____	HACKNEY NO. 1	N-BUTANE _____ 0.6
API _____	1503320585	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 17, T34S, R19W	N-PENTANE _____ 0.2
OWNER _____	GARY SAMUEL, JR. & ASSOCIATES	ISOPENTANE _____ 0.2
COMPLETED _____	830328	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 0.6
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 2.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5250	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	310	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.11
		HEATING VALUE* _____ 1.085
		SPECIFIC GRAVITY _____ 0.627

SAMPLE	21158	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 84.1
COUNTY _____	COMANCHE	ETHANE _____ 4.9
FIELD _____	LEMON RANCH SE	PROPANE _____ 4.2
WELL NAME _____	RANSOM NO. 18-1	N-BUTANE _____ 1.5
API _____	1503321268	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 18, T34S, R19W	N-PENTANE _____ 0.5
OWNER _____	DAYSTAR PETROLEUM, INC.	ISOPENTANE _____ 0.4
COMPLETED _____	020102	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 1.3
FORMATION _____	PENN-PAWNEE	NITROGEN _____ 2.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5088	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	500	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.12
		HEATING VALUE* _____ 1.200
		SPECIFIC GRAVITY _____ 0.705

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21191	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 80.7
COUNTY _____	BARBER	ETHANE _____ 6.8
FIELD _____	MACADOO S.	PROPANE _____ 3.0
WELL NAME _____	MCKENZIE 2	N-BUTANE _____ 1.0
API _____	1500721492	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 14, T30S, R14W	N-PENTANE _____ 0.3
OWNER _____	WOOLSEY PETROLEUM CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	950718	CYCLOPENTANE _____ --
SAMPLED _____	030610	HEXANES PLUS _____ 0.5
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 6.2
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4674	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1542	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	400	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.82
		HEATING VALUE* _____ 1,099
		SPECIFIC GRAVITY _____ 0.68

SAMPLE	21262	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 84.2
COUNTY _____	STAFFORD	ETHANE _____ 2.2
FIELD _____	MACKSVILLE	PROPANE _____ 0.7
WELL NAME _____	WALKER 1	N-BUTANE _____ 0.2
API _____	1518520274	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 10, T24S, R15W	N-PENTANE _____ 0.1
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.1
COMPLETED _____	940520	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-HERINGTON, KRIDER, WINFIELD	NITROGEN _____ 11.9
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2046	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	342	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	40	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.53
		HEATING VALUE* _____ 926
		SPECIFIC GRAVITY _____ 0.626

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21251	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 85.6
COUNTY _____	PAWNEE	ETHANE _____ 3.8
FIELD _____	MACKSVILLE	PROPANE _____ 1.8
WELL NAME _____	EICKMEYER 1	N-BUTANE _____ 0.6
API _____	1514500470	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 34, T23S, R15W	N-PENTANE _____ 0.2
OWNER _____	PINTAIL PETROLEUM LIMITED	ISOPENTANE _____ 0.2
COMPLETED _____	880714	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.6
FORMATION _____	ORDO-VIOLA	NITROGEN _____ 5.7
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4110	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	570	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.89
		HEATING VALUE* _____ 1.051
		SPECIFIC GRAVITY _____ 0.648

SAMPLE	21223	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 64.5
COUNTY _____	EDWARDS	ETHANE _____ 4.9
FIELD _____	MARTIN N	PROPANE _____ 2.3
WELL NAME _____	SPEIRS A1-30	N-BUTANE _____ 0.7
API _____	1504721441	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 30, T26S, R20W	N-PENTANE _____ 0.2
OWNER _____	MCCOY PETROLEUM CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	020419	CYCLOPENTANE _____ --
SAMPLED _____	030818	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 24.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4785	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1521	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 2.24
		HEATING VALUE* _____ 859
		SPECIFIC GRAVITY _____ 0.722

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21269	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 84.4
COUNTY _____	EDWARDS	ETHANE _____ 2.1
FIELD _____	MASSEY	PROPANE _____ 0.7
WELL NAME _____	SCHARTZ 9-12	N-BUTANE _____ 0.1
API _____	1504721418	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 12, T24S, R17W	N-PENTANE _____ TRACE
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ TRACE
COMPLETED _____	020428	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-FORT RILEY	NITROGEN _____ 11.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2384	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	100	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	440	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.59
		HEATING VALUE* _____ 923
		SPECIFIC GRAVITY _____ 0.624

SAMPLE	21271	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 86.5
COUNTY _____	EDWARDS	ETHANE _____ 3.6
FIELD _____	MCCARTHY NE	PROPANE _____ 1.6
WELL NAME _____	NEWSOM 1-21	N-BUTANE _____ 0.6
API _____	1504720161	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 21, T24S, R17W	N-PENTANE _____ 0.2
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.2
COMPLETED _____	750225	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.7
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 5.5
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4369	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	120	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1900	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.59
		HEATING VALUE* _____ 1,057
		SPECIFIC GRAVITY _____ 0.647

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21198	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 74.4
COUNTY _____	BARBER	ETHANE _____ 7.6
FIELD _____	MEDICINE RIVER	PROPANE _____ 4.5
WELL NAME _____	ADAMS NO. 1	N-BUTANE _____ 1.3
API _____	1500720468	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 33, T31S, R12W	N-PENTANE _____ 0.3
OWNER _____	ABERCROMBIE ENERGY, LLC	ISOPENTANE _____ 0.3
COMPLETED _____	770419	CYCLOPENTANE _____ --
SAMPLED _____	030610	HEXANES PLUS _____ 0.5
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 10.0
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4230	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1400	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	5000	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.30
		HEATING VALUE* _____ 1,111
		SPECIFIC GRAVITY _____ 0.727

SAMPLE	21244	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 89.7
COUNTY _____	EDWARDS	ETHANE _____ 3.1
FIELD _____	MULL W.	PROPANE _____ 1.1
WELL NAME _____	VOEGELI 1A	N-BUTANE _____ 0.4
API _____	1504720356	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 29, T26S, R17W	N-PENTANE _____ 0.1
OWNER _____	PINTAIL PETROLEUM LIMITED	ISOPENTANE _____ 0.1
COMPLETED _____	780505	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 4.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4550	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1533	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	179	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.36
		HEATING VALUE* _____ 1,039
		SPECIFIC GRAVITY _____ 0.621

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	50600	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 80.8
COUNTY _____	EDWARDS	ETHANE _____ 2.0
FIELD _____	MUNDHENKE	PROPANE _____ 0.8
WELL NAME _____	BOWMAN NO. 1-33	N-BUTANE _____ 0.2
API _____	1504721472	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 33, T24S, R17W	N-PENTANE _____ TRACE
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ TRACE
COMPLETED _____	021210	CYCLOPENTANE _____ --
SAMPLED _____	030410	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-COTTONWOOD	NITROGEN _____ 15.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2790	ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ --
WELLHEAD PRESSURE, PSIG _____	770	HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____	2210	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.53
		HEATING VALUE* _____ 886
		SPECIFIC GRAVITY _____ 0.642

SAMPLE	21272	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 86.5
COUNTY _____	EDWARDS	ETHANE _____ 3.1
FIELD _____	MUNDHENKE	PROPANE _____ 1.2
WELL NAME _____	MUNDHENKE 1	N-BUTANE _____ 0.4
API _____	1504720299	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 30, T24S, R17W	N-PENTANE _____ 0.1
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.1
COMPLETED _____	920207	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 7.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4477	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	360	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2200	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.77
		HEATING VALUE* _____ 1,008
		SPECIFIC GRAVITY _____ 0.63

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	50595	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 72.8
COUNTY _____	COMANCHE	ETHANE _____ 6.2
FIELD _____	NESCATUNGA	PROPANE _____ 7.2
WELL NAME _____	BERGNER/ACRES UNIT NO. 1	N-BUTANE _____ 3.2
API _____	1503321079	ISOBUTANE _____ 1.2
LOCATION _____	SEC. 16, T32S, R18W	N-PENTANE _____ 0.9
OWNER _____	IMPERIAL OIL PROPERTIES, INC.	ISOPENTANE _____ 0.8
COMPLETED _____	000412	CYCLOPENTANE _____ --
SAMPLED _____	000409	HEXANES PLUS _____ 2.3
FORMATION _____	PENN-ALTAMONT	NITROGEN _____ 5.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.12
		HEATING VALUE* _____ 1.354
		SPECIFIC GRAVITY _____ 0.833

SAMPLE	50596	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 84.7
COUNTY _____	COMANCHE	ETHANE _____ 4.3
FIELD _____	NESCATUNGA	PROPANE _____ 2.8
WELL NAME _____	BERGNER/ACRES UNIT NO. 1	N-BUTANE _____ 1.1
API _____	1503321079	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 16, T32S, R18W	N-PENTANE _____ 0.4
OWNER _____	IMPERIAL OIL PROPERTIES, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	000412	CYCLOPENTANE _____ --
SAMPLED _____	000410	HEXANES PLUS _____ 1.4
FORMATION _____	PENN-PAWNEE	NITROGEN _____ 4.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.15
		HEATING VALUE* _____ 1.150
		SPECIFIC GRAVITY _____ 0.693

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	50594	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 79.7
COUNTY _____	COMANCHE	ETHANE _____ 4.7
FIELD _____	NESCATUNGA	PROPANE _____ 3.1
WELL NAME _____	BERGNER/ACRES UNIT NO. 1	N-BUTANE _____ 1.0
API _____	1503321079	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 16, T32S, R18W	N-PENTANE _____ 0.3
OWNER _____	IMPERIAL OIL PROPERTIES, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	000412	CYCLOPENTANE _____ --
SAMPLED _____	000408	HEXANES PLUS _____ 1.0
FORMATION _____	PENN-SWOPE	NITROGEN _____ 8.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.21
		HEATING VALUE* _____ 1,083
		SPECIFIC GRAVITY _____ 0.704

SAMPLE	21184	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 85.0
COUNTY _____	COMANCHE	ETHANE _____ 4.2
FIELD _____	NESCATUNGA SW	PROPANE _____ 2.9
WELL NAME _____	DALE NO. 1	N-BUTANE _____ 1.1
API _____	1503320628	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 34, T32S, R18W	N-PENTANE _____ 0.3
OWNER _____	MIDCO EXPLORATION, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	011108	CYCLOPENTANE _____ --
SAMPLED _____	030522	HEXANES PLUS _____ 0.8
FORMATION _____	PENN-SWOPE, PWNE, MISS-CSTR	NITROGEN _____ 4.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5110	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	720	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	125	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.19
		HEATING VALUE* _____ 1,118
		SPECIFIC GRAVITY _____ 0.674

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	50587	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 69.2
COUNTY _____	KIOWA	ETHANE _____ 4.9
FIELD _____	NICHOLS	PROPANE _____ 5.9
WELL NAME _____	DARGEL NO. 1	N-BUTANE _____ 4.7
API _____	1509721481	ISOBUTANE _____ 1.6
LOCATION _____	SEC. 9, T29S, R18W	N-PENTANE _____ 2.1
OWNER _____	ROBERTS RESOURCES, INC.	ISOPENTANE _____ 1.9
COMPLETED _____	020425	CYCLOPENTANE _____ --
SAMPLED _____	020227	HEXANES PLUS _____ 3.7
FORMATION _____	PENN-ALTAMONT	NITROGEN _____ 5.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4792	ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1612	HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____	4000	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.15
		HEATING VALUE* _____ 1.501
		SPECIFIC GRAVITY _____ 0.932

SAMPLE	21176	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 93.7
COUNTY _____	COMANCHE	ETHANE _____ 2.7
FIELD _____	NOT GIVEN	PROPANE _____ 1.0
WELL NAME _____	LAKE NO. 2	N-BUTANE _____ 0.3
API _____	1503321173	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 14, T32S, R19W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	010213	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5260	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1.067
		SPECIFIC GRAVITY _____ 0.605

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21177	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 93.1
COUNTY _____	COMANCHE	ETHANE _____ 2.8
FIELD _____	NOT GIVEN	PROPANE _____ 1.0
WELL NAME _____	LAKE NO. 3	N-BUTANE _____ 0.3
API _____	1503321181	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 14, T32S, R19W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	010219	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.7
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5182	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1,076
		SPECIFIC GRAVITY _____ 0.614

SAMPLE	21231	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 68.8
COUNTY _____	BARTON	ETHANE _____ 2.3
FIELD _____	OTIS-ALBERT	PROPANE _____ 0.9
WELL NAME _____	BAHR 1	N-BUTANE _____ 0.3
API _____	1500914165	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 27, T18S, R15W	N-PENTANE _____ 0.1
OWNER _____	BEREN CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	400730	CYCLOPENTANE _____ --
SAMPLED _____	030819	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-CHASE GROUP	NITROGEN _____ 25.7
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	1783	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.0
		HELIUM _____ 1.58
		HEATING VALUE* _____ 786
		SPECIFIC GRAVITY _____ 0.686

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21232	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 66.7
COUNTY _____	BARTON	ETHANE _____ 2.0
FIELD _____	OTIS-ALBERT	PROPANE _____ 0.8
WELL NAME _____	VERNON 1	N-BUTANE _____ 0.3
API _____	1500930882	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 19, T18S, R15W	N-PENTANE _____ 0.1
OWNER _____	BEREN CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	990603	CYCLOPENTANE _____ --
SAMPLED _____	030819	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-CHASE, PENN-KANSAS CITY	NITROGEN _____ 28.1
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3453	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.0
		HELIUM _____ 1.56
		HEATING VALUE* _____ 755
		SPECIFIC GRAVITY _____ 0.693

SAMPLE	21189	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.0
COUNTY _____	BARBER	ETHANE _____ 5.0
FIELD _____	PERRY RANCH	PROPANE _____ 2.4
WELL NAME _____	RUSK A1	N-BUTANE _____ 0.9
API _____	1500720359	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 6, T32S, R15W	N-PENTANE _____ 0.3
OWNER _____	WOOLSEY PETROLEUM CORP.	ISOPENTANE _____ 0.3
COMPLETED _____	760519	CYCLOPENTANE _____ --
SAMPLED _____	030609	HEXANES PLUS _____ 0.8
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.5
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4900	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1137	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	775	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.15
		HEATING VALUE* _____ 1,140
		SPECIFIC GRAVITY _____ 0.657

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21152	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 85.7
COUNTY _____	COMANCHE	ETHANE _____ 4.0
FIELD _____	PIPELINE NW	PROPANE _____ 1.5
WELL NAME _____	JUDITH NO. 1	N-BUTANE _____ 0.5
API _____	1503321187	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 26, T31S, R20W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	010423	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 6.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5070	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.31
		HEATING VALUE* _____ 1,034
		SPECIFIC GRAVITY _____ 0.643

SAMPLE	21155	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 89.5
COUNTY _____	COMANCHE	ETHANE _____ 3.8
FIELD _____	PIPELINE SW	PROPANE _____ 1.6
WELL NAME _____	THIES NO. 1	N-BUTANE _____ 0.5
API _____	1503321202	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 1, T32S, R20W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	010323	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 3.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5212	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	535	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.17
		HEATING VALUE* _____ 1,064
		SPECIFIC GRAVITY _____ 0.627

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	50589	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 67.0
COUNTY _____	FORD	ETHANE _____ 3.5
FIELD _____	PLEASANT VALLEY	PROPANE _____ 2.1
WELL NAME _____	VICE NO. 1-14X	N-BUTANE _____ 0.7
API _____	1505720563	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 14, T28S, R21W	N-PENTANE _____ 0.2
OWNER _____	ROBERTS RESOURCES, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	021004	CYCLOPENTANE _____ --
SAMPLED _____	021021	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-LANSING	NITROGEN _____ 24.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.49
		HEATING VALUE* _____ 860
		SPECIFIC GRAVITY _____ 0.727

SAMPLE	50588	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 83.4
COUNTY _____	FORD	ETHANE _____ 5.1
FIELD _____	PLEASANT VALLEY	PROPANE _____ 2.0
WELL NAME _____	KIRKPATRICK NO. 1-11	N-BUTANE _____ 0.7
API _____	1505720562	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 11, T28S, R21W	N-PENTANE _____ 0.2
OWNER _____	ROBERTS RESOURCES, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	020605	CYCLOPENTANE _____ --
SAMPLED _____	021021	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 7.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4996	ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____	489	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	660	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.40
		HEATING VALUE* _____ 1,051
		SPECIFIC GRAVITY _____ 0.656

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21172	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 80.8
COUNTY _____	COMANCHE	ETHANE _____ 5.1
FIELD _____	PROTECTION	PROPANE _____ 2.2
WELL NAME _____	KERSTETTER 1-29	N-BUTANE _____ 0.8
API _____	1503320976	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 29, T32S, R19W	N-PENTANE _____ 0.2
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	990105	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.4
FORMATION _____	ORDO-VIOLA	NITROGEN _____ 9.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5804	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.39
		HEATING VALUE* _____ 1,031
		SPECIFIC GRAVITY _____ 0.671

SAMPLE	21154	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 91.3
COUNTY _____	COMANCHE	ETHANE _____ 3.3
FIELD _____	PROTECTION NW	PROPANE _____ 1.3
WELL NAME _____	HOLLER NO. 14-1	N-BUTANE _____ 0.4
API _____	1503321135	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 14, T32S, R20W	N-PENTANE _____ 0.1
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	001116	CYCLOPENTANE _____ --
SAMPLED _____	030520	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 2.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5149	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.16
		HEATING VALUE* _____ 1,058
		SPECIFIC GRAVITY _____ 0.614

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21229	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 72.0
COUNTY _____	BARTON	ETHANE _____ 2.2
FIELD _____	REDWING	PROPANE _____ 0.8
WELL NAME _____	TINDALL 1B	N-BUTANE _____ 0.2
API _____	1500920755	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 13, T18S, R13W	N-PENTANE _____ 0.1
OWNER _____	KODIAK PETROLEUM, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	760203	CYCLOPENTANE _____ --
SAMPLED _____	030818	HEXANES PLUS _____ TRACE
FORMATION _____	PERM-TOWANDA	NITROGEN _____ 23.1
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	1654	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1740	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 1.11
		HEATING VALUE* _____ 807
		SPECIFIC GRAVITY _____ 0.674

SAMPLE	21230	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 72.3
COUNTY _____	BARTON	ETHANE _____ 2.3
FIELD _____	REDWING SW	PROPANE _____ 0.9
WELL NAME _____	TINDALL 2B	N-BUTANE _____ 0.3
API _____	1500924657	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 13, T18S, R13W	N-PENTANE _____ 0.1
OWNER _____	KODIAK PETROLEUM, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	991208	CYCLOPENTANE _____ --
SAMPLED _____	030818	HEXANES PLUS _____ TRACE
FORMATION _____	PERM-WINFIELD	NITROGEN _____ 23.0
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	1658	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	370	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 1.09
		HEATING VALUE* _____ 810
		SPECIFIC GRAVITY _____ 0.672

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21246	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 65.9
COUNTY _____	EDWARDS	ETHANE _____ 4.9
FIELD _____	SALSER	PROPANE _____ 6.8
WELL NAME _____	GRIZZELL-WOOD 2	N-BUTANE _____ 3.8
API _____	1504720851	ISOBUTANE _____ 1.7
LOCATION _____	SEC. 14, T26S, R16W	N-PENTANE _____ 1.1
OWNER _____	BEREN CORP.	ISOPENTANE _____ 0.9
COMPLETED _____	811119	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.9
FORMATION _____	PENN-LANSING-KANSAS CITY	NITROGEN _____ 13.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4060	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.33
		HEATING VALUE* _____ 1,228
		SPECIFIC GRAVITY _____ 0.84

SAMPLE	21205	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 89.9
COUNTY _____	BARBER	ETHANE _____ 3.4
FIELD _____	SALT FORK	PROPANE _____ 1.3
WELL NAME _____	Z-BAR RANCH 1-16	N-BUTANE _____ 0.4
API _____	1500722554	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 16, T35S, R15W	N-PENTANE _____ 0.1
OWNER _____	CLEARY PETROLEUM CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	980403	CYCLOPENTANE _____ --
SAMPLED _____	030611	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 3.7
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.4
TRUE VERTICAL DEPTH (FT) _____	5074	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	569	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1150	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,050
		SPECIFIC GRAVITY _____ 0.623

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21206	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 91.4
COUNTY _____	BARBER	ETHANE _____ 4.0
FIELD _____	SALT FORK	PROPANE _____ 1.8
WELL NAME _____	Z-BAR 10-4	N-BUTANE _____ 0.7
API _____	1500722608	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 10, T35S, R15W	N-PENTANE _____ 0.2
OWNER _____	REDLAND RESOURCES, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	000110	CYCLOPENTANE _____ --
SAMPLED _____	030611	HEXANES PLUS _____ 0.5
FORMATION _____	PENN-OSWG, CHRK, MISS-MSSP	NITROGEN _____ 0.7
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5004	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	10	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1.113
		SPECIFIC GRAVITY _____ 0.629

SAMPLE	21190	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 90.5
COUNTY _____	BARBER	ETHANE _____ 3.9
FIELD _____	SCHUETTE	PROPANE _____ 1.7
WELL NAME _____	RUSK 1E	N-BUTANE _____ 0.6
API _____	1500721002	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 31, T31S, R15W	N-PENTANE _____ 0.2
OWNER _____	WOOLSEY PETROLEUM CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	810102	CYCLOPENTANE _____ --
SAMPLED _____	030609	HEXANES PLUS _____ 0.6
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.7
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4968	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1571	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	340	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.16
		HEATING VALUE* _____ 1.099
		SPECIFIC GRAVITY _____ 0.631

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21203	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 89.0
COUNTY	BARBER	ETHANE 5.2
FIELD	STRANATHAN	PROPANE 2.5
WELL NAME	MOLZ FARM CORP. 1	N-BUTANE 0.9
API	1500721597	ISOBUTANE 0.4
LOCATION	SEC. 26, T34S, R12W	N-PENTANE 0.3
OWNER	MOLZ OIL CO., INC.	ISOPENTANE 0.2
COMPLETED	830523	CYCLOPENTANE --
SAMPLED	030611	HEXANES PLUS 0.4
FORMATION	MISS-MISSISSIPPIAN	NITROGEN 1.1
GEOLOGIC PROVINCE CODE	375	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	4762	ARGON TRACE
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	1151	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	166	CARBON DIOXIDE 0.1
		HELIUM 0.08
		HEATING VALUE* 1,132
		SPECIFIC GRAVITY 0.645

SAMPLE	21201	COMPONENT, MOLE PCT
STATE	KANSAS	METHANE 87.6
COUNTY	BARBER	ETHANE 5.5
FIELD	STRANATHAN	PROPANE 2.8
WELL NAME	HICKLE 1	N-BUTANE 1.1
API	1500720148	ISOBUTANE 0.4
LOCATION	SEC. 25, T34S, R12W	N-PENTANE 0.4
OWNER	MOLZ OIL CO., INC.	ISOPENTANE 0.3
COMPLETED	000711	CYCLOPENTANE --
SAMPLED	030611	HEXANES PLUS 0.5
FORMATION	PENN-PAWNEE	NITROGEN 1.1
GEOLOGIC PROVINCE CODE	375	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	4629	ARGON 0.1
MEASURED DEPTH		HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	1426	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	400	CARBON DIOXIDE 0.1
		HELIUM 0.09
		HEATING VALUE* 1,155
		SPECIFIC GRAVITY 0.661

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21199	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 85.7
COUNTY _____	BARBER	ETHANE _____ 3.9
FIELD _____	TONI-MIKE NE	PROPANE _____ 2.2
WELL NAME _____	ASH 2-35	N-BUTANE _____ 0.7
API _____	1500721955	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 35, T32S, R12W	N-PENTANE _____ 0.2
OWNER _____	TRANS PACIFIC OIL CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	870809	CYCLOPENTANE _____ --
SAMPLED _____	030611	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-ELGIN	NITROGEN _____ 5.9
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3467	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1069	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	150	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.23
		HEATING VALUE* _____ 1,059
		SPECIFIC GRAVITY _____ 0.651

SAMPLE	21200	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 85.9
COUNTY _____	BARBER	ETHANE _____ 3.9
FIELD _____	TONI-MIKE NE	PROPANE _____ 2.2
WELL NAME _____	RANDEL A1	N-BUTANE _____ 0.7
API _____	1500721606	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 26, T32S, R12W	N-PENTANE _____ 0.2
OWNER _____	WOOLSEY PETROLEUM CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	840312	CYCLOPENTANE _____ --
SAMPLED _____	030611	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-SNYDERVILLE	NITROGEN _____ 5.8
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3552	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1442	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	720	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.23
		HEATING VALUE* _____ 1,060
		SPECIFIC GRAVITY _____ 0.649

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21173	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 61.0
COUNTY _____	COMANCHE	ETHANE _____ 6.0
FIELD _____	UNNAMED	PROPANE _____ 3.6
WELL NAME _____	BARNES 1-12	N-BUTANE _____ 1.3
API _____	1503321113	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 12, T32S, R19W	N-PENTANE _____ 0.4
OWNER _____	AMERICAN WARRIOR, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	000821	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.6
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 24.9
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.99
		HEATING VALUE* _____ 932
		SPECIFIC GRAVITY _____ 0.774

SAMPLE	21242	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 67.1
COUNTY _____	STAFFORD	ETHANE _____ 10.1
FIELD _____	VOGEL NE	PROPANE _____ 6.0
WELL NAME _____	PAULSEN 1-35	N-BUTANE _____ 2.0
API _____	1518521957	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 35, T24S, R11W	N-PENTANE _____ 0.6
OWNER _____	HESSE PETROLEUM CO.	ISOPENTANE _____ 0.4
COMPLETED _____	840319	CYCLOPENTANE _____ --
SAMPLED _____	030819	HEXANES PLUS _____ 0.8
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 11.6
GEOLOGIC PROVINCE CODE _____	385	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.70
		HEATING VALUE* _____ 1,172
		SPECIFIC GRAVITY _____ 0.784

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21252	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 83.5
COUNTY _____	EDWARDS	ETHANE _____ 3.4
FIELD _____	WAC.N	PROPANE _____ 1.3
WELL NAME _____	G.D. WHITE 1-12	N-BUTANE _____ 0.5
API _____	1504720336	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 12, T24S, R18W	N-PENTANE _____ 0.1
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.1
COMPLETED _____	780512	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 9.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4350	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	250	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	6450	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.92
		HEATING VALUE* _____ 991
		SPECIFIC GRAVITY _____ 0.645

SAMPLE	21263	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.9
COUNTY _____	EDWARDS	ETHANE _____ 3.7
FIELD _____	WAC.NW	PROPANE _____ 1.6
WELL NAME _____	LUNZ 3-21	N-BUTANE _____ 0.6
API _____	1504720648	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 21, T24S, R16W	N-PENTANE _____ 0.2
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.2
COMPLETED _____	800627	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.7
FORMATION _____	MISS-KINDERHOOK	NITROGEN _____ 3.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4349	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	221	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.39
		HEATING VALUE* _____ 1,079
		SPECIFIC GRAVITY _____ 0.637

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21268	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 82.2
COUNTY _____	EDWARDS	ETHANE _____ 1.9
FIELD _____	WAYNE	PROPANE _____ 0.6
WELL NAME _____	FROHLING A1-23	N-BUTANE _____ 0.1
API _____	1504721434	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 23, T24S, R17W	N-PENTANE _____ TRACE
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ TRACE
COMPLETED _____	990621	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-FORT RILEY, FLORENCE	NITROGEN _____ 14.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2427	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	80	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	43	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.67
		HEATING VALUE* _____ 895
		SPECIFIC GRAVITY _____ 0.631

SAMPLE	21270	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 86.2
COUNTY _____	EDWARDS	ETHANE _____ 3.6
FIELD _____	WAYNE	PROPANE _____ 1.5
WELL NAME _____	BRITTON 3-15	N-BUTANE _____ 0.6
API _____	1504721131	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 15, T24S, R17W	N-PENTANE _____ 0.2
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.2
COMPLETED _____	840130	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.8
FORMATION _____	MISS-KINDERHOOK	NITROGEN _____ 5.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4390	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	108	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.62
		HEATING VALUE* _____ 1,053
		SPECIFIC GRAVITY _____ 0.649

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	50602	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 81.6
COUNTY _____	EDWARDS	ETHANE _____ 1.6
FIELD _____	WAYNE	PROPANE _____ 0.4
WELL NAME _____	CROSS, J.H. NO. 2-22	N-BUTANE _____ TRACE
API _____	1504721440	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 22, T24S, R17W	N-PENTANE _____ TRACE
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ TRACE
COMPLETED _____	030227	CYCLOPENTANE _____ --
SAMPLED _____	030409	HEXANES PLUS _____ TRACE
FORMATION _____	PERM-WINFIELD	NITROGEN _____ 15.5
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2266	ARGON _____ --
MEASURED DEPTH _____		HYDROGEN _____ --
WELLHEAD PRESSURE, PSIG _____	410	HYDROGEN SULFIDE** _____ --
OPEN FLOW, MCFD _____	100	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.78
		HEATING VALUE* _____ 866
		SPECIFIC GRAVITY _____ 0.63

SAMPLE	21267	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.8
COUNTY _____	EDWARDS	ETHANE _____ 3.2
FIELD _____	WAYNE S.	PROPANE _____ 1.2
WELL NAME _____	MEIER 1-2	N-BUTANE _____ 0.4
API _____	1504721066	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 2, T25S, R17W	N-PENTANE _____ 0.1
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.1
COMPLETED _____	821030	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.5
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 4.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4424	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	184	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	520	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.50
		HEATING VALUE* _____ 1,041
		SPECIFIC GRAVITY _____ 0.627

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21195	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 84.3
COUNTY _____	BARBER	ETHANE _____ 3.7
FIELD _____	WHELAN	PROPANE _____ 2.1
WELL NAME _____	SWARTZ 1	N-BUTANE _____ 0.7
API _____	1500721148	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 31, T31S, R11W	N-PENTANE _____ 0.2
OWNER _____	MICA ENERGY CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	990630	CYCLOPENTANE _____ --
SAMPLED _____	030610	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-ELGIN	NITROGEN _____ 7.9
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3337	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	607	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	150	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.26
		HEATING VALUE* _____ 1,032
		SPECIFIC GRAVITY _____ 0.654

SAMPLE	21194	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 84.3
COUNTY _____	BARBER	ETHANE _____ 3.6
FIELD _____	WHELAN	PROPANE _____ 2.0
WELL NAME _____	SWAYDEN 1B	N-BUTANE _____ 0.7
API _____	1500721938	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 1, T32S, R12W	N-PENTANE _____ 0.2
OWNER _____	WOOLSEY PETROLEUM CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	940624	CYCLOPENTANE _____ --
SAMPLED _____	030610	HEXANES PLUS _____ 0.4
FORMATION _____	PENN-ELGN, SDVL, MISS-MISSISSIPPIAN	NITROGEN _____ 7.9
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4298	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	464	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	140	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.25
		HEATING VALUE* _____ 1,034
		SPECIFIC GRAVITY _____ 0.655

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21197	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 74.9
COUNTY _____	BARBER	ETHANE _____ 7.8
FIELD _____	WHELAN SW	PROPANE _____ 5.2
WELL NAME _____	WHELOCK 4	N-BUTANE _____ 1.6
API _____	1500722649	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 3, T32S, R12W	N-PENTANE _____ 0.4
OWNER _____	MULL DRILLING CO., INC.	ISOPENTANE _____ 0.4
COMPLETED _____	010614	CYCLOPENTANE _____ --
SAMPLED _____	030610	HEXANES PLUS _____ 0.7
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 7.8
GEOLOGIC PROVINCE CODE _____	375	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.29
		HEATING VALUE* _____ 1,168
		SPECIFIC GRAVITY _____ 0.741

SAMPLE	21247	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 87.5
COUNTY _____	EDWARDS	ETHANE _____ 4.1
FIELD _____	WIL	PROPANE _____ 1.9
WELL NAME _____	SMITH-WOOD 1	N-BUTANE _____ 0.7
API _____	1504720182	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 12, T26S, R16W	N-PENTANE _____ 0.2
OWNER _____	BEREN CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	760115	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 1.3
FORMATION _____	PENN-CHEROKEE	NITROGEN _____ 3.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4369	ARGON _____ 0.2
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.31
		HEATING VALUE* _____ 1,121
		SPECIFIC GRAVITY _____ 0.662

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21248	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.9
COUNTY _____	EDWARDS	ETHANE _____ 3.8
FIELD _____	WIL	PROPANE _____ 1.7
WELL NAME _____	MILLER 1	N-BUTANE _____ 0.6
API _____	1504721324	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 35, T24S, R16W	N-PENTANE _____ 0.2
OWNER _____	KENWORTHY OPERATING CO.	ISOPENTANE _____ 0.2
COMPLETED _____	880809	CYCLOPENTANE _____ --
SAMPLED _____	030820	HEXANES PLUS _____ 0.6
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 3.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4290	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1125	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	811	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.38
		HEATING VALUE* _____ 1,080
		SPECIFIC GRAVITY _____ 0.636

SAMPLE	21266	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 88.6
COUNTY _____	EDWARDS	ETHANE _____ 3.3
FIELD _____	WIL W	PROPANE _____ 1.2
WELL NAME _____	BREITENBACH C-1-14	N-BUTANE _____ 0.5
API _____	1504720621	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 14, T25S, R17W	N-PENTANE _____ 0.2
OWNER _____	HOLL F.G., CO. LLC	ISOPENTANE _____ 0.2
COMPLETED _____	800228	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.5
FORMATION _____	PENN-CHEROKEE CONGLOMERATE	NITROGEN _____ 4.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4460	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	260	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.49
		HEATING VALUE* _____ 1,046
		SPECIFIC GRAVITY _____ 0.63

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21261	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 86.4
COUNTY _____	EDWARDS	ETHANE _____ 3.4
FIELD _____	WILMORE	PROPANE _____ 1.5
WELL NAME _____	ENLOW 5-36	N-BUTANE _____ 0.5
API _____	1504721439	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 36, T24S, R16W	N-PENTANE _____ 0.2
OWNER _____	HOLL, F.G., CO. LLC	ISOPENTANE _____ 0.2
COMPLETED _____	010126	CYCLOPENTANE _____ --
SAMPLED _____	030821	HEXANES PLUS _____ 0.5
FORMATION _____	PENN-LANSING-KC, MISS-KINDERHOOK	NITROGEN _____ 6.5
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4200	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	190	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.32
		HEATING VALUE* _____ 1,034
		SPECIFIC GRAVITY _____ 0.642

SAMPLE	21150	COMPONENT, MOLE PCT
STATE _____	KANSAS	METHANE _____ 92.6
COUNTY _____	COMANCHE	ETHANE _____ 3.4
FIELD _____	YELLOWSTONE	PROPANE _____ 1.3
WELL NAME _____	MICHAEL NO. 12-16	N-BUTANE _____ 0.4
API _____	1503321292	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 12, T35S, R16W	N-PENTANE _____ 0.1
OWNER _____	REDLAND RESOURCES, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	020226	CYCLOPENTANE _____ --
SAMPLED _____	030519	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 1.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5326	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	50	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1,081
		SPECIFIC GRAVITY _____ 0.613

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21130	COMPONENT, MOLE PCT
STATE _____	LOUISIANA	METHANE _____ 91.3
COUNTY _____	VERMILION	ETHANE _____ 3.8
FIELD _____	LELUX	PROPANE _____ 1.4
WELL NAME _____	Y.C.ARCENEUX NO.1	N-BUTANE _____ 0.4
API _____	1711322194	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 6, T11S, R2E	N-PENTANE _____ 0.1
OWNER _____	RANGE RESOURCES CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	020814	CYCLOPENTANE _____ --
SAMPLED _____	030226	HEXANES PLUS _____ 0.7
FORMATION _____	OLIG-MARGINULINA HOWEL	NITROGEN _____ 0.9
GEOLOGIC PROVINCE CODE _____	220	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11815	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	9000	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	8785	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,102
		SPECIFIC GRAVITY _____ 0.632

SAMPLE	21133	COMPONENT, MOLE PCT
STATE _____	LOUISIANA	METHANE _____ 91.3
COUNTY _____	JEFFERSON DAVIS	ETHANE _____ 3.9
FIELD _____	THORNWELL S	PROPANE _____ 1.5
WELL NAME _____	TUPPER, V.I., ETAL BOL P RA SUC NO. 2	N-BUTANE _____ 0.5
API _____	1705321317	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 20, T11S, R4W	N-PENTANE _____ 0.1
OWNER _____	DENBURY RESOURCES, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	020721	CYCLOPENTANE _____ --
SAMPLED _____	030224	HEXANES PLUS _____ 0.3
FORMATION _____	OLIG-BOLIVINA PERCA	NITROGEN _____ 1.0
GEOLOGIC PROVINCE CODE _____	220	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11580	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	2850	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2831	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1,091
		SPECIFIC GRAVITY _____ 0.626

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21395	COMPONENT, MOLE PCT
STATE _____	MISSISSIPPI	METHANE _____ 95.4
COUNTY _____	MARION	ETHANE _____ 0.4
FIELD _____	BAXTERVILLE	PROPANE _____ 0.2
WELL NAME _____	ALLAR 36-16 NO.4	N-BUTANE _____ 0.1
API _____	2309120315	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 17, T2N, R17W	N-PENTANE _____ 0.1
OWNER _____	PENN VIRGINIA OIL & GAS CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	030321	CYCLOPENTANE _____ --
SAMPLED _____	041104	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-SELMA CHALK	NITROGEN _____ 3.1
GEOLOGIC PROVINCE CODE _____	210	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6591	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	400	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	30	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.03
		HEATING VALUE* _____ 996
		SPECIFIC GRAVITY _____ 0.583

SAMPLE	21147	COMPONENT, MOLE PCT
STATE _____	MISSISSIPPI	METHANE _____ 93.7
COUNTY _____	MARION	ETHANE _____ 0.6
FIELD _____	HUB	PROPANE _____ 0.2
WELL NAME _____	HUB GAS UNIT 20-11 NO. 2	N-BUTANE _____ 0.2
API _____	2309120277	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 20, T2N, R14E	N-PENTANE _____ 0.1
OWNER _____	SKRIVANOS ENGINEERING, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	020126	CYCLOPENTANE _____ --
SAMPLED _____	030422	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-DANTZLER	NITROGEN _____ 2.6
GEOLOGIC PROVINCE CODE _____	210	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10020	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	2150	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1320	CARBON DIOXIDE _____ 2.1
		HELIUM _____ 0.03
		HEATING VALUE* _____ 991
		SPECIFIC GRAVITY _____ 0.603

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21135	COMPONENT, MOLE PCT
STATE _____	MISSISSIPPI	METHANE _____ 97.2
COUNTY _____	OKTIBBEHA	ETHANE _____ 0.6
FIELD _____	MABEN	PROPANE _____ TRACE
WELL NAME _____	HAWKINS 20-3 No. 1	N-BUTANE _____ 0.0
API _____	2310520025	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 20, T19N, R12E	N-PENTANE _____ 0.0
OWNER _____	TOTALFINAELF EXPL & PROD USA, INC.	ISOPENTANE _____ 0.0
COMPLETED _____	020421	CYCLOPENTANE _____ --
SAMPLED _____	030320	HEXANES PLUS _____ 0.0
FORMATION _____	CAMO-KNOX	NITROGEN _____ 1.0
GEOLOGIC PROVINCE CODE _____	200	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.0
MEASURED DEPTH _____	14400	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1800	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2050	CARBON DIOXIDE _____ 1.3
		HELIUM _____ 0.02
		HEATING VALUE* _____ 994
		SPECIFIC GRAVITY _____ 0.573

SAMPLE	20801	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 1.8
COUNTY _____	SAN JUAN	ETHANE _____ 0.1
FIELD _____	BEAUTIFUL MOUNTAIN	PROPANE _____ 0.1
WELL NAME _____	NAVAJO 32 NO. 2	N-BUTANE _____ 0.1
API _____	3004524945	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 32, T27N, R19W	N-PENTANE _____ 0.1
OWNER _____	MOUNTAIN STATES PETROLEUM CORP.	ISOPENTANE _____ TRACE
COMPLETED _____	831003	CYCLOPENTANE _____ --
SAMPLED _____	010830	HEXANES PLUS _____ 0.1
FORMATION _____	PENN-BARKER CREEK	NITROGEN _____ 90.0
GEOLOGIC PROVINCE CODE _____	580	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5941	ARGON _____ 1.0
MEASURED DEPTH _____	6016	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1800	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	900	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 5.93
		HEATING VALUE* _____ 39
		SPECIFIC GRAVITY _____ 0.924

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20838	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 1.8
COUNTY _____	SAN JUAN	ETHANE _____ 0.1
FIELD _____	BEAUTIFUL MOUNTAIN	PROPANE _____ 0.1
WELL NAME _____	NAVAJO 5 NO. 1	N-BUTANE _____ 0.2
API _____	3004521755	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 5, T26N, R19W	N-PENTANE _____ 0.0
OWNER _____	MOUNTAIN STATES PETROLEUM CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	750603	CYCLOPENTANE _____ --
SAMPLED _____	010830	HEXANES PLUS _____ 0.1
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 90.1
GEOLOGIC PROVINCE CODE _____	580	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6040	ARGON _____ 1.0
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____	700	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	38	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 5.96
		HEATING VALUE* _____ 38
		SPECIFIC GRAVITY _____ 0.922

SAMPLE	20837	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 2.3
COUNTY _____	SAN JUAN	ETHANE _____ 0.2
FIELD _____	BEAUTIFUL MOUNTAIN	PROPANE _____ 0.2
WELL NAME _____	NAVAJO 5 NO. 2	N-BUTANE _____ 0.2
API _____	3004521816	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 5, T26N, R19W	N-PENTANE _____ 0.2
OWNER _____	MOUNTAIN STATES PETROLEUM CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	850502	CYCLOPENTANE _____ --
SAMPLED _____	010830	HEXANES PLUS _____ 0.9
FORMATION _____	PERM-ORGAN ROCK, MISS-LEADVILLE	NITROGEN _____ 88.3
GEOLOGIC PROVINCE CODE _____	580	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6090	ARGON _____ 1.0
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____	790	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	575	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 5.65
		HEATING VALUE* _____ 100
		SPECIFIC GRAVITY _____ 0.946

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20791	COMPONENT, MOLE PCT	
STATE	NEW MEXICO	METHANE	3.4
COUNTY	SAN JUAN	ETHANE	0.3
FIELD	BIG GAP	PROPANE	0.2
WELL NAME	NAVAJO 29 NO. 2	N-BUTANE	0.1
API	3004525103	ISOBUTANE	0.1
LOCATION	SEC. 29, T27N, R19W	N-PENTANE	0.1
OWNER	MOUNTAIN STATES PETROLEUM CORP.	ISOPENTANE	0.1
COMPLETED	860710	CYCLOPENTANE	--
SAMPLED	010830	HEXANES PLUS	0.1
FORMATION	PERM-ORGAN ROCK	NITROGEN	90.5
GEOLOGIC PROVINCE CODE	580	OXYGEN	0.0
TRUE VERTICAL DEPTH (FT)	3736	ARGON	0.8
MEASURED DEPTH		HYDROGEN	0.0
WELLHEAD PRESSURE, PSIG	175	HYDROGEN SULFIDE**	0.0
OPEN FLOW, MCFD	1300	CARBON DIOXIDE	0.0
		HELIUM	4.17
		HEATING VALUE*	65
		SPECIFIC GRAVITY	0.93

SAMPLE	20839	COMPONENT, MOLE PCT	
STATE	NEW MEXICO	METHANE	5.3
COUNTY	SAN JUAN	ETHANE	0.6
FIELD	BIG GAP	PROPANE	0.3
WELL NAME	NAVAJO 32 NO. 1	N-BUTANE	0.2
API	30-045-22272	ISOBUTANE	0.1
LOCATION	SEC. 32, T27N, R19W	N-PENTANE	0.1
OWNER	MOUNTAIN STATES PETROLEUM CORP.	ISOPENTANE	0.1
COMPLETED	860918	CYCLOPENTANE	--
SAMPLED	010830	HEXANES PLUS	0.1
FORMATION	PERM-ORGAN ROCK	NITROGEN	86.9
GEOLOGIC PROVINCE CODE	580	OXYGEN	0.0
TRUE VERTICAL DEPTH (FT)	3800	ARGON	1.0
MEASURED DEPTH		HYDROGEN	0.0
WELLHEAD PRESSURE, PSIG	40	HYDROGEN SULFIDE**	0.0
OPEN FLOW, MCFD	300	CARBON DIOXIDE	0.0
		HELIUM	5.38
		HEATING VALUE*	92
		SPECIFIC GRAVITY	0.914

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21301	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 83.4
COUNTY _____	CHAVES	ETHANE _____ 4.2
FIELD _____	CROCKETT DRAW	PROPANE _____ 2.0
WELL NAME _____	BUDER ACN FEDERAL NO. 2	N-BUTANE _____ 0.7
API _____	3000563513	ISOBUTANE _____ 0.4
LOCATION _____	SEC 22, T6S, R26E	N-PENTANE _____ 0.2
OWNER _____	YATES PETROLEUM CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	031112	CYCLOPENTANE _____ --
SAMPLED _____		HEXANES PLUS _____ 0.5
FORMATION _____	PERM-WOLFCAMP	NITROGEN _____ 7.7
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5160	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	816	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.33
		HEATING VALUE* _____ 1,046
		SPECIFIC GRAVITY _____ 0.665

SAMPLE	21310	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 0.0
COUNTY _____	HARDING	ETHANE _____ 0.0
FIELD _____	NORTHEAST COUNTIES	PROPANE _____ 0.0
WELL NAME _____	MITCHELL NO. 16	N-BUTANE _____ 0.0
API _____	3002120033	ISOBUTANE _____ 0.0
LOCATION _____	SEC 5, T18N, R30E	N-PENTANE _____ 0.0
OWNER _____	AMERADA HESS CORP.	ISOPENTANE _____ 0.0
COMPLETED _____	750825	CYCLOPENTANE _____ --
SAMPLED _____	040524	HEXANES PLUS _____ 0.0
FORMATION _____	PERM-ABO	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	445	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2060	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	417	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1536	CARBON DIOXIDE _____ 99.8
		HELIUM _____ TRACE
		HEATING VALUE* _____ 0
		SPECIFIC GRAVITY _____ 1.519

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20551	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 86.3
COUNTY _____	CHAVES	ETHANE _____ 4.8
FIELD _____	PECOS SLOPE	PROPANE _____ 1.8
WELL NAME _____	DALE FEDERAL NO. 12	N-BUTANE _____ 0.6
API _____	3000561348	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 27, T7S, R26E	N-PENTANE _____ 0.3
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	820427	CYCLOPENTANE _____ --
SAMPLED _____	001220	HEXANES PLUS _____ 0.6
FORMATION _____	PERM-ABO	NITROGEN _____ 4.7
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4550	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	979	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1447	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.34
		HEATING VALUE* _____ 1,079
		SPECIFIC GRAVITY _____ 0.652

SAMPLE	20565	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 86.4
COUNTY _____	CHAVES	ETHANE _____ 4.7
FIELD _____	PECOS SLOPE	PROPANE _____ 1.7
WELL NAME _____	MICHAEL ERIC NO. 2	N-BUTANE _____ 0.6
API _____	3000561245	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 22, T7S, R26E	N-PENTANE _____ 0.2
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	820310	CYCLOPENTANE _____ --
SAMPLED _____	001220	HEXANES PLUS _____ 0.5
FORMATION _____	PERM-ABO	NITROGEN _____ 5.0
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4391	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	931	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1328	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.35
		HEATING VALUE* _____ 1,070
		SPECIFIC GRAVITY _____ 0.648

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20554	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 86.5
COUNTY _____	CHAVES	ETHANE _____ 4.8
FIELD _____	PECOS SLOPE	PROPANE _____ 1.7
WELL NAME _____	PECOS FEDERAL NO. 2	N-BUTANE _____ 0.6
API _____	3000562467	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 35, T7S, R26E	N-PENTANE _____ 0.2
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	870903	CYCLOPENTANE _____ --
SAMPLED _____	001220	HEXANES PLUS _____ 0.3
FORMATION _____	PERM-ABO	NITROGEN _____ 5.0
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4659	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	895	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1200	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.39
		HEATING VALUE* _____ 1,060
		SPECIFIC GRAVITY _____ 0.642

SAMPLE	20535	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 82.2
COUNTY _____	CHAVES	ETHANE _____ 4.3
FIELD _____	PECOS SLOPE	PROPANE _____ 1.6
WELL NAME _____	HUSKY-MCKAY NO. 1	N-BUTANE _____ 0.6
API _____	3000561616	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 18, T8S, R26E	N-PENTANE _____ 0.3
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	820823	CYCLOPENTANE _____ --
SAMPLED _____	001219	HEXANES PLUS _____ 0.7
FORMATION _____	PERM-ABO	NITROGEN _____ 9.1
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4036	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____	909	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1280	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.59
		HEATING VALUE* _____ 1,029
		SPECIFIC GRAVITY _____ 0.666

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE		20592	COMPONENT, MOLE PCT	
STATE	NEW MEXICO		METHANE	89.1
COUNTY	CHAVES		ETHANE	3.1
FIELD	PECOS SLOPE W		PROPANE	1.3
WELL NAME	PIERCE FEDERAL NO. 2		N-BUTANE	0.5
API	3000562422		ISOBUTANE	0.2
LOCATION	SEC. 4, T6S, R22E		N-PENTANE	0.2
OWNER	MCKAY OIL CORP.		ISOPENTANE	0.1
COMPLETED	870623		CYCLOPENTANE	--
SAMPLED	010227		HEXANES PLUS	0.2
FORMATION	PERM-ABO		NITROGEN	5.0
GEOLOGIC PROVINCE CODE	430		OXYGEN	0.0
TRUE VERTICAL DEPTH (FT)	2901		ARGON	0.0
MEASURED DEPTH			HYDROGEN	TRACE
WELLHEAD PRESSURE, PSIG	891		HYDROGEN SULFIDE**	0.0
OPEN FLOW, MCFD	4466		CARBON DIOXIDE	0.0
			HELIUM	0.29
			HEATING VALUE*	1.032
			SPECIFIC GRAVITY	0.622

SAMPLE		20594	COMPONENT, MOLE PCT	
STATE	NEW MEXICO		METHANE	88.9
COUNTY	CHAVES		ETHANE	3.1
FIELD	PECOS SLOPE W		PROPANE	1.3
WELL NAME	LOOKOUT FEDERAL NO. 5		N-BUTANE	0.5
API	3000562357		ISOBUTANE	0.2
LOCATION	SEC. 9, T6S, R22E		N-PENTANE	0.2
OWNER	MCKAY OIL CORP.		ISOPENTANE	0.1
COMPLETED	870317		CYCLOPENTANE	--
SAMPLED	010227		HEXANES PLUS	0.3
FORMATION	PERM-ABO		NITROGEN	5.1
GEOLOGIC PROVINCE CODE	430		OXYGEN	0.0
TRUE VERTICAL DEPTH (FT)	3111		ARGON	0.0
MEASURED DEPTH			HYDROGEN	TRACE
WELLHEAD PRESSURE, PSIG	705		HYDROGEN SULFIDE**	0.0
OPEN FLOW, MCFD	1603		CARBON DIOXIDE	0.0
			HELIUM	0.30
			HEATING VALUE*	1.036
			SPECIFIC GRAVITY	0.626

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20600	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 89.9
COUNTY _____	CHAVES	ETHANE _____ 2.4
FIELD _____	PECOS SLOPE W.	PROPANE _____ 0.9
WELL NAME _____	LL & E FEDERAL NO. 5	N-BUTANE _____ 0.4
API _____	3000562378	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 1, T6S, R22E	N-PENTANE _____ 0.1
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	870712	CYCLOPENTANE _____ --
SAMPLED _____	010227	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-ABO	NITROGEN _____ 5.5
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4208	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	895	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	4506	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.31
		HEATING VALUE* _____ 1.009
		SPECIFIC GRAVITY _____ 0.613

SAMPLE	20593	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 89.1
COUNTY _____	CHAVES	ETHANE _____ 3.0
FIELD _____	PECOS SLOPE W.	PROPANE _____ 1.2
WELL NAME _____	LOOKOUT FEDERAL NO. 8	N-BUTANE _____ 0.5
API _____	3000562411	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 9, T6S, R22E	N-PENTANE _____ 0.2
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	870306	CYCLOPENTANE _____ --
SAMPLED _____	010227	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-ABO	NITROGEN _____ 5.2
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3151	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	516	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1107	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.32
		HEATING VALUE* _____ 1.030
		SPECIFIC GRAVITY _____ 0.622

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20589	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 89.7
COUNTY _____	CHAVES	ETHANE _____ 2.8
FIELD _____	PECOS SLOPE W	PROPANE _____ 1.1
WELL NAME _____	SNAKEWEED FEDERAL NO. 4	N-BUTANE _____ 0.5
API _____	3000562432	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 18, T6S, R23E	N-PENTANE _____ 0.2
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	870512	CYCLOPENTANE _____ --
SAMPLED _____	010226	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-ABO	NITROGEN _____ 4.9
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3381	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	927	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	5026	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.33
		HEATING VALUE* _____ 1,029
		SPECIFIC GRAVITY _____ 0.618

SAMPLE	20595	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 88.8
COUNTY _____	CHAVES	ETHANE _____ 3.0
FIELD _____	PECOS SLOPE W	PROPANE _____ 1.3
WELL NAME _____	SOUTH FOUR MILE DRAW FEDERAL NO. 1	N-BUTANE _____ 0.6
API _____	3000562309	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 22, T6S, R22E	N-PENTANE _____ 0.2
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	870710	CYCLOPENTANE _____ --
SAMPLED _____	010227	HEXANES PLUS _____ 0.3
FORMATION _____	PERM-ABO	NITROGEN _____ 5.2
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3254	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	993	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1453	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.33
		HEATING VALUE* _____ 1,036
		SPECIFIC GRAVITY _____ 0.627

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20591	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 89.0
COUNTY _____	CHAVES	ETHANE _____ 2.8
FIELD _____	PECOS SLOPE W	PROPANE _____ 1.2
WELL NAME _____	FOUR MILE DRAW FEDERAL NO. 2	N-BUTANE _____ 0.5
API _____	3000562302	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 15, T6S, R22E	N-PENTANE _____ 0.2
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	870212	CYCLOPENTANE _____ --
SAMPLED _____	010226	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-ABO	NITROGEN _____ 5.4
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3126	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	926	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3296	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.34
		HEATING VALUE* _____ 1.025
		SPECIFIC GRAVITY _____ 0.622

SAMPLE	20599	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 88.4
COUNTY _____	CHAVES	ETHANE _____ 3.1
FIELD _____	PECOS SLOPE W	PROPANE _____ 1.4
WELL NAME _____	REMMELE FEDERAL COM. 13	N-BUTANE _____ 0.6
API _____	3000562420	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 27, T6S, R22E	N-PENTANE _____ 0.2
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	870529	CYCLOPENTANE _____ --
SAMPLED _____	010227	HEXANES PLUS _____ 0.3
FORMATION _____	PERM-ABO	NITROGEN _____ 5.3
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3027	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	976	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1740	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.36
		HEATING VALUE* _____ 1.036
		SPECIFIC GRAVITY _____ 0.628

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20596	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 88.6
COUNTY _____	CHAVES	ETHANE _____ 3.0
FIELD _____	PECOS SLOPE W.	PROPANE _____ 1.3
WELL NAME _____	REMMELE FEDERAL COM. 11	N-BUTANE _____ 0.6
API _____	3000562418	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 27, T6S, R22E	N-PENTANE _____ 0.2
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	870527	CYCLOPENTANE _____ --
SAMPLED _____	010227	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-ABO	NITROGEN _____ 5.4
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3121	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	968	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	4734	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.36
		HEATING VALUE* _____ 1.030
		SPECIFIC GRAVITY _____ 0.625

SAMPLE	20601	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 90.3
COUNTY _____	CHAVES	ETHANE _____ 2.0
FIELD _____	PECOS SLOPE W.	PROPANE _____ 0.8
WELL NAME _____	EPPERS FEDERAL NO. 4	N-BUTANE _____ 0.4
API _____	3000562405	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 35, T5S, R21E	N-PENTANE _____ 0.1
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	870222	CYCLOPENTANE _____ --
SAMPLED _____	010227	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-ABO	NITROGEN _____ 5.6
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3168	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	746	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	514	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.38
		HEATING VALUE* _____ 1.001
		SPECIFIC GRAVITY _____ 0.609

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20587	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 89.7
COUNTY _____	CHAVES	ETHANE _____ 2.6
FIELD _____	PECOS SLOPE W	PROPANE _____ 1.1
WELL NAME _____	FIVE MILE TANK B FEDERAL NO. 3	N-BUTANE _____ 0.5
API _____	3000563293	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 17, T6S, R23E	N-PENTANE _____ 0.2
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____		CYCLOPENTANE _____ --
SAMPLED _____	010226	HEXANES PLUS _____ 0.3
FORMATION _____	PERM-ABO	NITROGEN _____ 5.0
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.41
		HEATING VALUE* _____ 1,026
		SPECIFIC GRAVITY _____ 0.618

SAMPLE	20583	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 90.3
COUNTY _____	CHAVES	ETHANE _____ 2.3
FIELD _____	PECOS SLOPE W	PROPANE _____ 0.8
WELL NAME _____	WEST MCKAY HARVEY FEDERAL NO. 1	N-BUTANE _____ 0.3
API _____	3000562196	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 17, T8S, R23E	N-PENTANE _____ 0.1
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ TRACE
COMPLETED _____	860310	CYCLOPENTANE _____ --
SAMPLED _____	010226	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-ABO	NITROGEN _____ 5.3
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3358	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1000	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	10234	CARBON DIOXIDE _____ 0.0
		HELIUM _____ 0.58
		HEATING VALUE* _____ 999
		SPECIFIC GRAVITY _____ 0.605

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20588	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 82.4
COUNTY _____	CHAVES	ETHANE _____ 2.1
FIELD _____	PECOS SLOPE W	PROPANE _____ 0.9
WELL NAME _____	M & M FEDERAL NO. 5	N-BUTANE _____ 0.4
API _____	3000562606	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 19, T6S, R23E	N-PENTANE _____ 0.1
OWNER _____	MCKAY OIL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	880511	CYCLOPENTANE _____ --
SAMPLED _____	010226	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-ABO	NITROGEN _____ 10.8
GEOLOGIC PROVINCE CODE _____	430	OXYGEN _____ 1.8
TRUE VERTICAL DEPTH (FT) _____	3098	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	800	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	763	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 1.02
		HEATING VALUE* _____ 927
		SPECIFIC GRAVITY _____ 0.639

SAMPLE	21140	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 0.0
COUNTY _____	UNION	ETHANE _____ 0.0
FIELD _____	UNNAMED	PROPANE _____ 0.0
WELL NAME _____	EXCEL NO. 1	N-BUTANE _____ 0.0
API _____	3005920046	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 1, T31N, R32E	N-PENTANE _____ 0.0
OWNER _____	HNG FOSSIL FUELS CO.	ISOPENTANE _____ 0.0
COMPLETED _____	800613	CYCLOPENTANE _____ --
SAMPLED _____	030403	HEXANES PLUS _____ 0.0
FORMATION _____	PERM-GLORIETA	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	445	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	770	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	85	CARBON DIOXIDE _____ 99.9
		HELIUM _____ TRACE
		HEATING VALUE* _____ 0
		SPECIFIC GRAVITY _____ 1.519

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20924	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 0.2
COUNTY _____	SOCORRO	ETHANE _____ TRACE
FIELD _____	WILDCAT	PROPANE _____ 0.0
WELL NAME _____	CATHEAD MESA UNIT NO. 1	N-BUTANE _____ 0.0
API _____	3005320012	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 8, T4S, R9E	N-PENTANE _____ 0.0
OWNER _____	PRIMERO OPERATING, INC.	ISOPENTANE _____ 0.0
COMPLETED _____	031030	CYCLOPENTANE _____ --
SAMPLED _____	020506	HEXANES PLUS _____ 0.0
FORMATION _____	PERM-ABO	NITROGEN _____ 95.2
GEOLOGIC PROVINCE CODE _____	465	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3820	ARGON _____ 0.3
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 2.0
		HELIUM _____ 2.26
		HEATING VALUE* _____ 3
		SPECIFIC GRAVITY _____ 0.959

SAMPLE	20926	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 0.3
COUNTY _____	SOCORRO	ETHANE _____ TRACE
FIELD _____	WILDCAT	PROPANE _____ 0.0
WELL NAME _____	CATHEAD MESA UNIT NO. 1	N-BUTANE _____ 0.0
API _____	3005320012	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 8, T4S, R9E	N-PENTANE _____ 0.0
OWNER _____	PRIMERO OPERATING, INC.	ISOPENTANE _____ 0.0
COMPLETED _____	031030	CYCLOPENTANE _____ --
SAMPLED _____	020509	HEXANES PLUS _____ 0.0
FORMATION _____	PERM-ABO	NITROGEN _____ 95.3
GEOLOGIC PROVINCE CODE _____	465	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3820	ARGON _____ 0.3
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 1.8
		HELIUM _____ 2.28
		HEATING VALUE* _____ 4
		SPECIFIC GRAVITY _____ 0.958

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21338	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 1.9
COUNTY _____	SOCORRO	ETHANE _____ TRACE
FIELD _____	WILDCAT	PROPANE _____ 0.0
WELL NAME _____	DULCE DRAW STATE NO. 1	N-BUTANE _____ 0.0
API _____	3005320014	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 2, T4S, R9E	N-PENTANE _____ 0.0
OWNER _____	PRIMERO OPERATING, INC.	ISOPENTANE _____ 0.0
COMPLETED _____	010808	CYCLOPENTANE _____ --
SAMPLED _____	040807	HEXANES PLUS _____ 0.0
FORMATION _____	PERM-ABO	NITROGEN _____ 68.2
GEOLOGIC PROVINCE CODE _____	465	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3074	ARGON _____ 0.3
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	100	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 26.5
		HELIUM _____ 3.10
		HEATING VALUE* _____ 20
		SPECIFIC GRAVITY _____ 1.081

SAMPLE	21289	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 1.2
COUNTY _____	SOCORRO	ETHANE _____ TRACE
FIELD _____	WILDCAT	PROPANE _____ 0.0
WELL NAME _____	CATHEAD MESA UNIT NO. 1	N-BUTANE _____ 0.0
API _____	3005320012	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 8, T4S, R9E	N-PENTANE _____ 0.0
OWNER _____	PRIMERO OPERATING, INC.	ISOPENTANE _____ 0.0
COMPLETED _____	031030	CYCLOPENTANE _____ --
SAMPLED _____	031023	HEXANES PLUS _____ 0.0
FORMATION _____	PERM-ABO, PENN-ATOKA	NITROGEN _____ 95.3
GEOLOGIC PROVINCE CODE _____	465	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4238	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.7
		HELIUM _____ 2.56
		HEATING VALUE* _____ 13
		SPECIFIC GRAVITY _____ 0.945

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20922	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 0.7
COUNTY _____	SOCORRO	ETHANE _____ 0.0
FIELD _____	WILDCAT	PROPANE _____ 0.0
WELL NAME _____	CATHEAD MESA UNIT NO. 1	N-BUTANE _____ TRACE
API _____	3005320012	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 8, T4S, R9E	N-PENTANE _____ TRACE
OWNER _____	PRIMERO OPERATING, INC.	ISOPENTANE _____ 0.0
COMPLETED _____	031030	CYCLOPENTANE _____ --
SAMPLED _____	020430	HEXANES PLUS _____ TRACE
FORMATION _____	PENN-ATOKA	NITROGEN _____ 5.8
GEOLOGIC PROVINCE CODE _____	465	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4238	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.6
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 92.6
		HELIUM _____ 0.23
		HEATING VALUE* _____ 11
		SPECIFIC GRAVITY _____ 1.469

SAMPLE	21277	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 48.0
COUNTY _____	QUAY	ETHANE _____ 7.6
FIELD _____	WILDCAT	PROPANE _____ 4.5
WELL NAME _____	WILSON NO. 1 (BLACK LABEL CYL.)	N-BUTANE _____ 1.5
API _____	3003720076	ISOBUTANE _____ 0.8
LOCATION _____	SEC. 8, T10N, R28E	N-PENTANE _____ 0.4
OWNER _____	COULTHURST MANAGEMENT & INVESTMENT, INC.	ISOPENTANE _____ 0.5
COMPLETED _____		CYCLOPENTANE _____ --
SAMPLED _____	030909	HEXANES PLUS _____ 0.7
FORMATION _____	PENN-STRAWN	NITROGEN _____ 8.1
GEOLOGIC PROVINCE CODE _____	435	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7210	ARGON _____ 0.4
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 27.4
		HELIUM _____ 0.17
		HEATING VALUE* _____ 877
		SPECIFIC GRAVITY _____ 1.001

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21276	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 48.2
COUNTY _____	QUAY	ETHANE _____ 7.6
FIELD _____	WILDCAT	PROPANE _____ 4.5
WELL NAME _____	WILSON NO. 1 (RED LABEL CYL)	N-BUTANE _____ 1.5
API _____	3003720076	ISOBUTANE _____ 0.8
LOCATION _____	SEC. 8, T10N, R28E	N-PENTANE _____ 0.4
OWNER _____	COULTHURST MANAGEMENT & INVESTMENT, INC.	ISOPENTANE _____ 0.5
COMPLETED _____		CYCLOPENTANE _____ --
SAMPLED _____	030909	HEXANES PLUS _____ 0.7
FORMATION _____	PENN-STRAWN	NITROGEN _____ 8.1
GEOLOGIC PROVINCE CODE _____	435	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7210	ARGON _____ 0.2
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 27.3
		HELIUM _____ 0.18
		HEATING VALUE* _____ 878
		SPECIFIC GRAVITY _____ 0.999

SAMPLE	21216	COMPONENT, MOLE PCT
STATE _____	NORTH DAKOTA	METHANE _____ 24.8
COUNTY _____	WILLIAMS	ETHANE _____ 0.9
FIELD _____	TIOGA	PROPANE _____ 0.1
WELL NAME _____	ASTRID ONGSTAD 14-22	N-BUTANE _____ TRACE
API _____	3310501340	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 14, T157N, R95W	N-PENTANE _____ TRACE
OWNER _____	AMERADA HESS CORP.	ISOPENTANE _____ TRACE
COMPLETED _____	010326	CYCLOPENTANE _____ --
SAMPLED _____	030707	HEXANES PLUS _____ 0.1
FORMATION _____	CAMB-DEADWOOD	NITROGEN _____ 70.3
GEOLOGIC PROVINCE CODE _____	395	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	13720	ARGON _____ 0.3
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	4200	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	8400	CARBON DIOXIDE _____ 2.9
		HELIUM _____ 0.46
		HEATING VALUE* _____ 279
		SPECIFIC GRAVITY _____ 0.882

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21083	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 90.1
COUNTY _____	WOODS	ETHANE _____ 4.4
FIELD _____	CHEYENNE VALLEY	PROPANE _____ 2.1
WELL NAME _____	MORRIS HULL NO. 1	N-BUTANE _____ 0.7
API _____	3515121289	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 34, T24N, R15W	N-PENTANE _____ 0.2
OWNER _____	CHESAPEAKE OPERATING, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	950425	CYCLOPENTANE _____ --
SAMPLED _____	021031	HEXANES PLUS _____ 0.5
FORMATION _____	MISS-CHESTER	NITROGEN _____ 1.0
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6366	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1650	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	203	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,117
		SPECIFIC GRAVITY _____ 0.638

SAMPLE	21061	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 97.2
COUNTY _____	ROGER MILLS	ETHANE _____ 0.6
FIELD _____	DEMPSEY	PROPANE _____ TRACE
WELL NAME _____	C. BERRY NO. 1-24	N-BUTANE _____ TRACE
API _____	3512922109	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 24, T13N, R25W	N-PENTANE _____ 0.0
OWNER _____	SUNDOWN ENERGY, INC.	ISOPENTANE _____ 0.0
COMPLETED _____	990131	CYCLOPENTANE _____ --
SAMPLED _____	021029	HEXANES PLUS _____ TRACE
FORMATION _____	PENN-MORROW U.	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	15707	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	4200	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	370	CARBON DIOXIDE _____ 2.0
		HELIUM _____ 0.02
		HEATING VALUE* _____ 996
		SPECIFIC GRAVITY _____ 0.578

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21339	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA _____	METHANE _____ 40.1
COUNTY _____	GAREFIELD _____	ETHANE _____ 2.1
FIELD _____	GREEN VALLEY _____	PROPANE _____ 1.6
WELL NAME _____	LIBERTY 1-34 _____	N-BUTANE _____ 0.6
API _____	3504724354 _____	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 34, T22N, R3W _____	N-PENTANE _____ 0.2
OWNER _____	PANHANDLE OIL & GAS CONSULTANTS _____	ISOPENTANE _____ 0.1
COMPLETED _____	040103 _____	CYCLOPENTANE _____ --
SAMPLED _____	040818 _____	HEXANES PLUS _____ 0.2
FORMATION _____	PENN-CREWS _____	NITROGEN _____ 54.4
GEOLOGIC PROVINCE CODE _____	360 _____	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2150 _____	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	800 _____	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.40
		HEATING VALUE* _____ 530
		SPECIFIC GRAVITY _____ 0.825

SAMPLE	20876	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA _____	METHANE _____ 77.5
COUNTY _____	CIMARRON _____	ETHANE _____ 7.5
FIELD _____	GRIGGS SE _____	PROPANE _____ 5.3
WELL NAME _____	DAISY FIELD GAS UNIT NO. 1 _____	N-BUTANE _____ 1.8
API _____	3502500009 _____	ISOBUTANE _____ 0.8
LOCATION _____	SEC. 36, T1N, R9E _____	N-PENTANE _____ 0.5
OWNER _____	TEXACO, INC. _____	ISOPENTANE _____ 0.3
COMPLETED _____	890424 _____	CYCLOPENTANE _____ --
SAMPLED _____	011030 _____	HEXANES PLUS _____ 0.5
FORMATION _____	PENN-TOPEKA GRANITE WASH _____	NITROGEN _____ 5.5
GEOLOGIC PROVINCE CODE _____	435 _____	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4274 _____	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	360 _____	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	331 _____	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.24
		HEATING VALUE* _____ 1,189
		SPECIFIC GRAVITY _____ 0.729

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20750	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 74.1
COUNTY _____	TEXAS	ETHANE _____ 5.6
FIELD _____	GUYMON-HUGOTON	PROPANE _____ 2.9
WELL NAME _____	BINGLEY NO. 1	N-BUTANE _____ 0.8
API _____	3513900850	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 18, T2N, R18E	N-PENTANE _____ 0.2
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.1
COMPLETED _____	521204	CYCLOPENTANE _____ --
SAMPLED _____	010730	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-CHASE GROUP	NITROGEN _____ 15.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2673	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	430	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	19120	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.51
		HEATING VALUE* _____ 978
		SPECIFIC GRAVITY _____ 0.696

SAMPLE	20674	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 62.1
COUNTY _____	TEXAS	ETHANE _____ 5.8
FIELD _____	GUYMON-HUGOTON	PROPANE _____ 3.8
WELL NAME _____	CSC NO. 1-6	N-BUTANE _____ 1.1
API _____	3513921098	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 6, T2N, R12E	N-PENTANE _____ 0.3
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.2
COMPLETED _____	780825	CYCLOPENTANE _____ --
SAMPLED _____	010511	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-CHASE GROUP	NITROGEN _____ 24.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2648	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	399	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 1.09
		HEATING VALUE* _____ 909
		SPECIFIC GRAVITY _____ 0.756

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20878	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 62.7
COUNTY _____	TEXAS	ETHANE _____ 5.7
FIELD _____	GUYMON-HUGOTON	PROPANE _____ 3.9
WELL NAME _____	G.M. REYNOLDS NO. 1	N-BUTANE _____ 1.2
API _____	3513900528	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 31, T1N, R11E	N-PENTANE _____ 0.3
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.2
COMPLETED _____	530624	CYCLOPENTANE _____ --
SAMPLED _____	011030	HEXANES PLUS _____ 0.3
FORMATION _____	PERM-CHASE GROUP	NITROGEN _____ 23.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2620	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	400	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	10220	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 1.22
		HEATING VALUE* _____ 924
		SPECIFIC GRAVITY _____ 0.756

SAMPLE	20879	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 62.4
COUNTY _____	TEXAS	ETHANE _____ 5.7
FIELD _____	GUYMON-HUGOTON	PROPANE _____ 3.9
WELL NAME _____	A.E. SHARP NO. 1	N-BUTANE _____ 1.2
API _____	3513900115	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 30, T1N, R11E	N-PENTANE _____ 0.3
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.2
COMPLETED _____	530623	CYCLOPENTANE _____ --
SAMPLED _____	011030	HEXANES PLUS _____ 0.3
FORMATION _____	PERM-CHASE GROUP	NITROGEN _____ 24.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2715	ARGON _____ 0.1
MEASURED DEPTH _____	2855	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	6200	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 1.27
		HEATING VALUE* _____ 919
		SPECIFIC GRAVITY _____ 0.756

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20714	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 93.8
COUNTY _____	DEWEY	ETHANE _____ 3.4
FIELD _____	NOBSCOT	PROPANE _____ 0.9
WELL NAME _____	FRANS TRUST NO. 1-21	N-BUTANE _____ 0.2
API _____	3504321621	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 21, T16N, R15W	N-PENTANE _____ 0.1
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.1
COMPLETED _____	821209	CYCLOPENTANE _____ --
SAMPLED _____	010710	HEXANES PLUS _____ 0.1
FORMATION _____	PENN-MORROW	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10720	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	3585	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2850	CARBON DIOXIDE _____ 1.0
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1,055
		SPECIFIC GRAVITY _____ 0.601

SAMPLE	21084	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 87.9
COUNTY _____	WOODS	ETHANE _____ 5.3
FIELD _____	OAKDALE	PROPANE _____ 2.6
WELL NAME _____	HEPNER NO. 1-25	N-BUTANE _____ 1.0
API _____	3515120275	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 25, T23N, R14W	N-PENTANE _____ 0.4
OWNER _____	KIRKPATRICK OIL CO.	ISOPENTANE _____ 0.3
COMPLETED _____	710818	CYCLOPENTANE _____ --
SAMPLED _____	021031	HEXANES PLUS _____ 1.0
FORMATION _____	MISS-MISSISSIPPIAN	NITROGEN _____ 0.9
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7004	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	590	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,164
		SPECIFIC GRAVITY _____ 0.667

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21085	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 87.3
COUNTY _____	WOODS	ETHANE _____ 5.6
FIELD _____	OAKDALE	PROPANE _____ 2.7
WELL NAME _____	FAYE NO. 35-A	N-BUTANE _____ 1.0
API _____	3515121307	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 35, T23N, R14W	N-PENTANE _____ 0.4
OWNER _____	CHESAPEAKE OPERATING, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	820421	CYCLOPENTANE _____ --
SAMPLED _____	021031	HEXANES PLUS _____ 1.1
FORMATION _____	PENN-OSWEGO, MISS-MISSISSIPPIAN	NITROGEN _____ 0.8
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7675	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1150	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,177
		SPECIFIC GRAVITY _____ 0.673

SAMPLE	21075	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 81.7
COUNTY _____	ELLIS	ETHANE _____ 8.0
FIELD _____	PEEK S	PROPANE _____ 4.6
WELL NAME _____	MITCHELL UNIT NO. 1	N-BUTANE _____ 1.4
API _____	3504520002	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 25, T17N, R23W	N-PENTANE _____ 0.4
OWNER _____	CHESAPEAKE OPERATING, INC.	ISOPENTANE _____ 0.4
COMPLETED _____	660319	CYCLOPENTANE _____ --
SAMPLED _____	021030	HEXANES PLUS _____ 0.8
FORMATION _____	PENN-TONKAWA	NITROGEN _____ 1.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8269	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	2199	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	31000	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.14
		HEATING VALUE* _____ 1,223
		SPECIFIC GRAVITY _____ 0.713

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21073	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 79.5
COUNTY _____	ELLIS	ETHANE _____ 6.5
FIELD _____	PEEK S.	PROPANE _____ 5.4
WELL NAME _____	BERRYMAN NO. 2-24	N-BUTANE _____ 1.8
API _____	3504522079	ISOBUTANE _____ 0.9
LOCATION _____	SEC. 24, T17N, R24W	N-PENTANE _____ 0.6
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.6
COMPLETED _____	000425	CYCLOPENTANE _____ --
SAMPLED _____	021030	HEXANES PLUS _____ 1.2
FORMATION _____	PENN-TONKAWA	NITROGEN _____ 2.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8138	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1050	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	69	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.14
		HEATING VALUE* _____ 1,247
		SPECIFIC GRAVITY _____ 0.746

SAMPLE	21074	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 80.9
COUNTY _____	ELLIS	ETHANE _____ 7.7
FIELD _____	PEEK S.	PROPANE _____ 5.3
WELL NAME _____	BERRYMAN C. NO. 1	N-BUTANE _____ 1.6
API _____	3504520035	ISOBUTANE _____ 0.8
LOCATION _____	SEC. 19, T17N, R23W	N-PENTANE _____ 0.4
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.5
COMPLETED _____	660812	CYCLOPENTANE _____ --
SAMPLED _____	021030	HEXANES PLUS _____ 0.5
FORMATION _____	PENN-TONKAWA	NITROGEN _____ 1.7
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8212	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	271	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.15
		HEATING VALUE* _____ 1,225
		SPECIFIC GRAVITY _____ 0.718

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21080	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 91.6
COUNTY _____	DEWEY	ETHANE _____ 0.5
FIELD _____	PUTNAM	PROPANE _____ 0.1
WELL NAME _____	KOUNS A NO. 1	N-BUTANE _____ TRACE
API _____	3504320630	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 17, T17N, R17W	N-PENTANE _____ TRACE
OWNER _____	BP AMERICA PRODUCTION CO.	ISOPENTANE _____ TRACE
COMPLETED _____	760217	CYCLOPENTANE _____ --
SAMPLED _____	021030	HEXANES PLUS _____ TRACE
FORMATION _____	DEVO-HUNTON	NITROGEN _____ 1.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	13392	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	6080	CARBON DIOXIDE _____ 6.6
		HELIUM _____ 0.03
		HEATING VALUE* _____ 940
		SPECIFIC GRAVITY _____ 0.626

SAMPLE	20723	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 75.6
COUNTY _____	DEWEY	ETHANE _____ 11.9
FIELD _____	PUTNAM	PROPANE _____ 6.2
WELL NAME _____	GOVERNMENT TWYMAN UNIT NO. 1	N-BUTANE _____ 1.9
API _____	3504350099	ISOBUTANE _____ 0.9
LOCATION _____	SEC. 6, T17N, R19W	N-PENTANE _____ 0.6
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.5
COMPLETED _____	641018	CYCLOPENTANE _____ --
SAMPLED _____	010710	HEXANES PLUS _____ 1.1
FORMATION _____	PENN-OSWEGO	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	9358	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	711	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,317
		SPECIFIC GRAVITY _____ 0.769

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21081	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 80.0
COUNTY _____	DEWEY	ETHANE _____ 9.3
FIELD _____	PUTNAM	PROPANE _____ 5.1
WELL NAME _____	GOSDA NO. 3-17	N-BUTANE _____ 1.4
API _____	3504322703	ISOBUTANE _____ 0.8
LOCATION _____	SEC. 17, T17N, R17W	N-PENTANE _____ 0.4
OWNER _____	BP AMERICA PRODUCTION CO.	ISOPENTANE _____ 0.4
COMPLETED _____	000329	CYCLOPENTANE _____ --
SAMPLED _____	021031	HEXANES PLUS _____ 0.8
FORMATION _____	PENN-TONKAWA	NITROGEN _____ 1.1
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7366	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1953	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2000	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.13
		HEATING VALUE* _____ 1,246
		SPECIFIC GRAVITY _____ 0.724

SAMPLE	21079	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 80.2
COUNTY _____	DEWEY	ETHANE _____ 9.7
FIELD _____	PUTNAM	PROPANE _____ 5.1
WELL NAME _____	SARKEY NO. 1-32	N-BUTANE _____ 1.3
API _____	3504335125	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 32, T17N, R17W	N-PENTANE _____ 0.3
OWNER _____	EAGLE OIL & GAS CO.	ISOPENTANE _____ 0.4
COMPLETED _____	970724	CYCLOPENTANE _____ --
SAMPLED _____	021030	HEXANES PLUS _____ 0.6
FORMATION _____	PENN-TONKAWA	NITROGEN _____ 1.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7620	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	1950	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	594	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.14
		HEATING VALUE* _____ 1,230
		SPECIFIC GRAVITY _____ 0.714

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21060	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 86.5
COUNTY _____	ROGER MILLS	ETHANE _____ 8.0
FIELD _____	REYDON	PROPANE _____ 2.4
WELL NAME _____	WRIGHT NO. 1-32	N-BUTANE _____ 0.7
API _____	3512921918	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 32, T14N, R25W	N-PENTANE _____ 0.2
OWNER _____	CHAPARRAL ENERGY, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	950826	CYCLOPENTANE _____ --
SAMPLED _____	021029	HEXANES PLUS _____ 0.3
FORMATION _____	PENN-CHEROKEE	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	12079	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	6400	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	198	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.05
		HEATING VALUE* _____ 1,150
		SPECIFIC GRAVITY _____ 0.658

SAMPLE	21059	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 96.8
COUNTY _____	ROGER MILLS	ETHANE _____ 0.7
FIELD _____	REYDON W	PROPANE _____ 0.1
WELL NAME _____	WRIGHT NO. 2-32	N-BUTANE _____ TRACE
API _____	3512920700	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 32, T14N, R26W	N-PENTANE _____ TRACE
OWNER _____	SAMSON RESOURCES CO.	ISOPENTANE _____ TRACE
COMPLETED _____	820301	CYCLOPENTANE _____ --
SAMPLED _____	021029	HEXANES PLUS _____ TRACE
FORMATION _____	PENN-MORROW	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	14890	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1491	CARBON DIOXIDE _____ 2.1
		HELIUM _____ 0.02
		HEATING VALUE* _____ 997
		SPECIFIC GRAVITY _____ 0.581

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21069	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 81.0
COUNTY _____	ROGER MILLS	ETHANE _____ 9.5
FIELD _____	STRONG CITY	PROPANE _____ 4.6
WELL NAME _____	KENDALL NO. 3-10	N-BUTANE _____ 1.3
API _____	3512922001	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 10, T15N, R23W	N-PENTANE _____ 0.3
OWNER _____	MARATHON OIL CO.	ISOPENTANE _____ 0.4
COMPLETED _____	961022	CYCLOPENTANE _____ --
SAMPLED _____	021029	HEXANES PLUS _____ 0.7
FORMATION _____	PENN-PRUE, RED FORK	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11272	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1500	CARBON DIOXIDE _____ 1.0
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1.231
		SPECIFIC GRAVITY _____ 0.715

SAMPLE	21062	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 91.7
COUNTY _____	ROGER MILLS	ETHANE _____ 4.4
FIELD _____	STRONG CITY	PROPANE _____ 0.9
WELL NAME _____	MARIO NO. 3-16	N-BUTANE _____ 0.1
API _____	3512922346	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 16, T13N, R22W	N-PENTANE _____ TRACE
OWNER _____	QUESTAR EXPLORATION & PROD.	ISOPENTANE _____ 0.1
COMPLETED _____	021007	CYCLOPENTANE _____ --
SAMPLED _____	021029	HEXANES PLUS _____ 0.1
FORMATION _____	PENN-RED FORK	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1148	CARBON DIOXIDE _____ 2.2
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1.046
		SPECIFIC GRAVITY _____ 0.614

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21076	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 73.4
COUNTY _____	ROGER MILLS	ETHANE _____ 10.9
FIELD _____	STRONG CITY DISTRICT	PROPANE _____ 6.3
WELL NAME _____	SARA NO. 1	N-BUTANE _____ 2.6
API _____	3512920647	ISOBUTANE _____ 1.1
LOCATION _____	SEC. 13, T15N, R23W	N-PENTANE _____ 1.6
OWNER _____	CONTINENTAL OPERATING CO.	ISOPENTANE _____ 1.4
COMPLETED _____	810922	CYCLOPENTANE _____ --
SAMPLED _____	021030	HEXANES PLUS _____ 1.4
FORMATION _____	PENN-RED FORK	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11270	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	250	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1.402
		SPECIFIC GRAVITY _____ 0.823

SAMPLE	21082	COMPONENT, MOLE PCT
STATE _____	OKLAHOMA	METHANE _____ 87.4
COUNTY _____	WOODS	ETHANE _____ 3.0
FIELD _____	WAYNOKA NE	PROPANE _____ 1.8
WELL NAME _____	CHARLENE NO. 14-13	N-BUTANE _____ 0.6
API _____	3515122041	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 14, T24N, R16W	N-PENTANE _____ 0.2
OWNER _____	CHESAPEAKE OPERATING, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	950124	CYCLOPENTANE _____ --
SAMPLED _____	021031	HEXANES PLUS _____ 0.5
FORMATION _____	PENN-TONKAWA	NITROGEN _____ 5.4
GEOLOGIC PROVINCE CODE _____	360	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5193	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	750	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	200	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.15
		HEATING VALUE* _____ 1.059
		SPECIFIC GRAVITY _____ 0.646

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21026	COMPONENT, MOLE PCT
STATE	PENNSYLVANIA	METHANE 89.0
COUNTY	WARREN	ETHANE 3.0
FIELD	COLUMBUS	PROPANE 0.5
WELL NAME	GRADLER G NO. 1	N-BUTANE 0.1
API	3712342980	ISOBUTANE 0.1
LOCATION	SEC. D, LOTTSVILLE 7.5 QUAD, FREEHOLD TWP	N-PENTANE TRACE
OWNER	NORNEW, INC.	ISOPENTANE TRACE
COMPLETED	010607	CYCLOPENTANE --
SAMPLED	020816	HEXANES PLUS TRACE
FORMATION	SILU-WHIRLPOOL	NITROGEN 6.7
GEOLOGIC PROVINCE CODE	160	OXYGEN 0.3
TRUE VERTICAL DEPTH (FT)	4953	ARGON 0.0
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	1350	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	1100	CARBON DIOXIDE 0.1
		HELIUM 0.14
		HEATING VALUE* 979
		SPECIFIC GRAVITY 0.608

SAMPLE	20923	COMPONENT, MOLE PCT
STATE	PENNSYLVANIA	METHANE 90.7
COUNTY	CRAWFORD	ETHANE 3.9
FIELD	GENEVA	PROPANE 0.9
WELL NAME	OLIVER NO. 1	N-BUTANE 0.3
API	3703923785	ISOBUTANE 0.2
LOCATION	SEC. A, HADLEY 7.5 QUAD, GREENWOOD TWP	N-PENTANE 0.1
OWNER	ATLAS AMERICA, INC.	ISOPENTANE 0.1
COMPLETED	010828	CYCLOPENTANE --
SAMPLED	020501	HEXANES PLUS 0.1
FORMATION	SILU-WHIRLPOOL, MEDINA	NITROGEN 3.5
GEOLOGIC PROVINCE CODE	160	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	4966	ARGON 0.1
MEASURED DEPTH		HYDROGEN 0.1
WELLHEAD PRESSURE, PSIG	1280	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	8900	CARBON DIOXIDE TRACE
		HELIUM 0.10
		HEATING VALUE* 1,038
		SPECIFIC GRAVITY 0.61

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21021	COMPONENT, MOLE PCT
STATE	PENNSYLVANIA	METHANE 94.3
COUNTY	JEFFERSON	ETHANE 2.8
FIELD	MARKTON	PROPANE 0.4
WELL NAME	DAVID MOTTERN NO. 2	N-BUTANE 0.1
API	3706524657	ISOBUTANE TRACE
LOCATION	SEC. I, SUMMERVILLE 7.5 QUAD, RINGGOLD TWP.	N-PENTANE TRACE
OWNER	D.E. LIMITED FAMILY PARTNERSHIP	ISOPENTANE TRACE
COMPLETED	010830	CYCLOPENTANE --
SAMPLED	020724	HEXANES PLUS 0.0
FORMATION	DEVO-DEVONIAN U	NITROGEN 1.7
GEOLOGIC PROVINCE CODE	160	OXYGEN 0.3
TRUE VERTICAL DEPTH (FT)	3116	ARGON 0.0
MEASURED DEPTH		HYDROGEN 0.2
WELLHEAD PRESSURE, PSIG	770	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	1342	CARBON DIOXIDE 0.1
		HELIUM 0.09
		HEATING VALUE* 1,019
		SPECIFIC GRAVITY 0.581

SAMPLE	21024	COMPONENT, MOLE PCT
STATE	PENNSYLVANIA	METHANE 96.2
COUNTY	FAYETTE	ETHANE 2.0
FIELD	PERRYOPOLIS	PROPANE 0.3
WELL NAME	BROWN NO. 2	N-BUTANE 0.1
API	3705121108	ISOBUTANE 0.1
LOCATION	SEC. A, DAWSON 7.5 QUAD, PERRY TWP.	N-PENTANE TRACE
OWNER	PENNECO OIL CO., INC.	ISOPENTANE TRACE
COMPLETED	991206	CYCLOPENTANE --
SAMPLED	020725	HEXANES PLUS TRACE
FORMATION	DEVO-DEVONIAN U	NITROGEN 1.1
GEOLOGIC PROVINCE CODE	160	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	2926	ARGON 0.0
MEASURED DEPTH		HYDROGEN 0.1
WELLHEAD PRESSURE, PSIG	637	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	1500	CARBON DIOXIDE 0.0
		HELIUM 0.12
		HEATING VALUE* 1,024
		SPECIFIC GRAVITY 0.573

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21138	COMPONENT, MOLE PCT
STATE _____	PENNSYLVANIA	METHANE _____ 92.6
COUNTY _____	INDIANA	ETHANE _____ 2.8
FIELD _____	PLUM CREEK	PROPANE _____ 0.5
WELL NAME _____	DICK NO. 44-4	N-BUTANE _____ 0.1
API _____	3706332787	ISOBUTANE _____ 0.1
LOCATION _____	SEC. F, WASHINGTON TWP, ELDERTON QUAD	N-PENTANE _____ TRACE
OWNER _____	GREAT LAKES ENERGY PARTNERS, LLC	ISOPENTANE _____ TRACE
COMPLETED _____	010615	CYCLOPENTANE _____ --
SAMPLED _____	030320	HEXANES PLUS _____ TRACE
FORMATION _____	DEVO-DEVONIAN U	NITROGEN _____ 3.6
GEOLOGIC PROVINCE CODE _____	160	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3680	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____	920	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1187	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1,010
		SPECIFIC GRAVITY _____ 0.592

SAMPLE	20928	COMPONENT, MOLE PCT
STATE _____	PENNSYLVANIA	METHANE _____ 86.1
COUNTY _____	WARREN	ETHANE _____ 3.4
FIELD _____	STILLWATER	PROPANE _____ 0.8
WELL NAME _____	BENEDICT NO. 1	N-BUTANE _____ 0.3
API _____	3712342947	ISOBUTANE _____ 0.2
LOCATION _____	SEC. E, LOTTSVILLE 7.5 QUAD, FREEHOLD TWP	N-PENTANE _____ 0.1
OWNER _____	NORNEW, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	010608	CYCLOPENTANE _____ --
SAMPLED _____	020508	HEXANES PLUS _____ 0.1
FORMATION _____	SILU-WHIRLPOOL	NITROGEN _____ 8.6
GEOLOGIC PROVINCE CODE _____	160	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4476	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____	1350	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1100	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.14
		HEATING VALUE* _____ 980
		SPECIFIC GRAVITY _____ 0.627

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20986	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 61.4
COUNTY _____	DENTON	ETHANE _____ 3.2
FIELD _____	BIG BUCK	PROPANE _____ 1.5
WELL NAME _____	A & H SHERTZ NO. 1	N-BUTANE _____ 0.3
API _____	4212130299	ISOBUTANE _____ 0.2
LOCATION _____	J. AYERS SUR. A-2	N-PENTANE _____ 0.1
OWNER _____	WAYNE HARPER	ISOPENTANE _____ 0.1
COMPLETED _____	780621	CYCLOPENTANE _____ --
SAMPLED _____	020628	HEXANES PLUS _____ TRACE
FORMATION _____	PENN-JOHNSON SAND	NITROGEN _____ 32.8
GEOLOGIC PROVINCE CODE _____	420	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	1739	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	360	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2000	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.50
		HEATING VALUE* _____ 736
		SPECIFIC GRAVITY _____ 0.727

SAMPLE	20930	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 62.7
COUNTY _____	POTTER	ETHANE _____ 3.2
FIELD _____	BIVINS RANCH	PROPANE _____ 1.5
WELL NAME _____	BIVINS RANCH 207-H	N-BUTANE _____ 0.4
API _____	4237531633	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 207, BLK. 2, AB&M SUR.	N-PENTANE _____ 0.1
OWNER _____	SAND RIVER O & F, L.L.C.	ISOPENTANE _____ 0.1
COMPLETED _____	011102	CYCLOPENTANE _____ --
SAMPLED _____	020603	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-BROWN DOLOMITE	NITROGEN _____ 24.5
GEOLOGIC PROVINCE CODE _____	440	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____	4818	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	418	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	42	CARBON DIOXIDE _____ 5.5
		HELIUM _____ 1.41
		HEATING VALUE* _____ 769
		SPECIFIC GRAVITY _____ 0.752

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21306	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 64.1
COUNTY _____	POTTER	ETHANE _____ 3.3
FIELD _____	BIVINS RANCH	PROPANE _____ 1.5
WELL NAME _____	BIVINS RANCH 1-212	N-BUTANE _____ 0.4
API _____	4237531359	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 212, BLK 2, AB&M SUR.	N-PENTANE _____ 0.1
OWNER _____	SAND RIVER O & E, LLC	ISOPENTANE _____ 0.1
COMPLETED _____	900615	CYCLOPENTANE _____ --
SAMPLED _____	040504	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-BROWN DOLOMITE	NITROGEN _____ 24.7
GEOLOGIC PROVINCE CODE _____	440	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3467	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 3.7
		HELIUM _____ 1.45
		HEATING VALUE* _____ 785
		SPECIFIC GRAVITY _____ 0.735

SAMPLE	21295	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 64.1
COUNTY _____	POTTER	ETHANE _____ 3.4
FIELD _____	BIVINS RANCH	PROPANE _____ 1.6
WELL NAME _____	BIVINS RANCH 1-212	N-BUTANE _____ 0.4
API _____	4237531359	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 212, BLK 2, AB&M SUR.	N-PENTANE _____ 0.1
OWNER _____	SAND RIVER O & E, LLC	ISOPENTANE _____ 0.1
COMPLETED _____	900615	CYCLOPENTANE _____ --
SAMPLED _____	040129	HEXANES PLUS _____ 0.4
FORMATION _____	PERM-BROWN DOLOMITE	NITROGEN _____ 24.3
GEOLOGIC PROVINCE CODE _____	440	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3467	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 3.8
		HELIUM _____ 1.49
		HEATING VALUE* _____ 795
		SPECIFIC GRAVITY _____ 0.74

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21387	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 64.4
COUNTY _____	POTTER	ETHANE _____ 3.4
FIELD _____	BIVINS RANCH	PROPANE _____ 1.6
WELL NAME _____	BIVINS RANCH 1-212	N-BUTANE _____ 0.4
API _____	4237531359	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 212, BLK 2, AB&M SUR	N-PENTANE _____ 0.1
OWNER _____	SAND RIVER O & E, LLC	ISOPENTANE _____ 0.1
COMPLETED _____	900615	CYCLOPENTANE _____ --
SAMPLED _____	040909	HEXANES PLUS _____ 0.1
FORMATION _____	PERM-BROWN DOLOMITE	NITROGEN _____ 24.3
GEOLOGIC PROVINCE CODE _____	440	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3467	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	733	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	139	CARBON DIOXIDE _____ 3.8
		HELIUM _____ 1.50
		HEATING VALUE* _____ 787
		SPECIFIC GRAVITY _____ 0.734

SAMPLE	21307	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 63.2
COUNTY _____	POTTER	ETHANE _____ 3.6
FIELD _____	BIVINS RANCH	PROPANE _____ 1.8
WELL NAME _____	BIVINS RANCH 1A-212	N-BUTANE _____ 0.5
API _____	4237531628	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 212, BLK 2, AB&M SUR	N-PENTANE _____ 0.1
OWNER _____	SAND RIVER O & E, LLC	ISOPENTANE _____ 0.1
COMPLETED _____	010103	CYCLOPENTANE _____ --
SAMPLED _____	040504	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-BROWN DOLOMITE	NITROGEN _____ 27.6
GEOLOGIC PROVINCE CODE _____	440	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____	5170	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	43	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 1.77
		HEATING VALUE* _____ 795
		SPECIFIC GRAVITY _____ 0.723

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20929	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 61.3
COUNTY _____	POTTER	ETHANE _____ 3.5
FIELD _____	BIVINS RANCH	PROPANE _____ 1.9
WELL NAME _____	BIVINS RANCH 1A-212	N-BUTANE _____ 0.5
API _____	4237531628	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 212, BLK 2, AB&M SUR.	N-PENTANE _____ 0.1
OWNER _____	SAND RIVER O & E, LLC	ISOPENTANE _____ 0.1
COMPLETED _____	010103	CYCLOPENTANE _____ --
SAMPLED _____	020603	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-BROWN DOLOMITE	NITROGEN _____ 29.6
GEOLOGIC PROVINCE CODE _____	440	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.2
MEASURED DEPTH _____	5170	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	18	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	43	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 1.79
		HEATING VALUE* _____ 777
		SPECIFIC GRAVITY _____ 0.732

SAMPLE	21296	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 63.1
COUNTY _____	POTTER	ETHANE _____ 3.6
FIELD _____	BIVINS RANCH	PROPANE _____ 1.9
WELL NAME _____	BIVINS RANCH 1A-212	N-BUTANE _____ 0.5
API _____	4237531628	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 212, BLK 2, AB&M SUR.	N-PENTANE _____ 0.1
OWNER _____	SAND RIVER O & E, LLC	ISOPENTANE _____ 0.1
COMPLETED _____	010103	CYCLOPENTANE _____ --
SAMPLED _____	040129	HEXANES PLUS _____ 0.2
FORMATION _____	PERM-BROWN DOLOMITE	NITROGEN _____ 27.7
GEOLOGIC PROVINCE CODE _____	440	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.1
MEASURED DEPTH _____	5170	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	43	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 1.79
		HEATING VALUE* _____ 796
		SPECIFIC GRAVITY _____ 0.724

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21388	COMPONENT, MOLE PCT
STATE	TEXAS	METHANE 63.2
COUNTY	POTTER	ETHANE 3.6
FIELD	BIVINS RANCH	PROPANE 1.8
WELL NAME	BIVINS RANCH 1A-212	N-BUTANE 0.5
API	4237531628	ISOBUTANE 0.3
LOCATION	SEC. 212, BLK 2, AB&M SUR.	N-PENTANE 0.1
OWNER	SAND RIVER O & E, LLC	ISOPENTANE 0.1
COMPLETED	010103	CYCLOPENTANE --
SAMPLED	040909	HEXANES PLUS 0.2
FORMATION	PERM-BROWN DOLOMITE	NITROGEN 27.7
GEOLOGIC PROVINCE CODE	440	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)		ARGON 0.1
MEASURED DEPTH	5170	HYDROGEN TRACE
WELLHEAD PRESSURE, PSIG	583	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	43	CARBON DIOXIDE 0.5
		HELIUM 1.80
		HEATING VALUE* 795
		SPECIFIC GRAVITY 0.723

SAMPLE	21278	COMPONENT, MOLE PCT
STATE	TEXAS	METHANE 45.9
COUNTY	BOWIE	ETHANE 3.8
FIELD	MAUD	PROPANE 2.3
WELL NAME	J.D. OWEN NO. 2	N-BUTANE 1.3
API	4203730202	ISOBUTANE 0.7
LOCATION	J.S. HERRING SURVEY, A. 263	N-PENTANE 0.5
OWNER	ENERGYTEC, INC.	ISOPENTANE 0.5
COMPLETED	791215	CYCLOPENTANE --
SAMPLED	030911	HEXANES PLUS 0.7
FORMATION	JURA-SMACKOVER	NITROGEN 30.6
GEOLOGIC PROVINCE CODE	260	OXYGEN 0.3
TRUE VERTICAL DEPTH (FT)	8710	ARGON 0.0
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	2100	HYDROGEN SULFIDE** 6.2
OPEN FLOW, MCFD	2062	CARBON DIOXIDE 7.1
		HELIUM 0.12
		HEATING VALUE* 768
		SPECIFIC GRAVITY 0.895

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21023	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 88.6
COUNTY _____	DENTON	ETHANE _____ 6.5
FIELD _____	NEWARK E	PROPANE _____ 1.7
WELL NAME _____	CLYDE NICHOLSON NO. 4	N-BUTANE _____ 0.4
API _____	4212131310	ISOBUTANE _____ 0.4
LOCATION _____	CARMEL MANCHACA SURVEY	N-PENTANE _____ 0.1
OWNER _____	WAYNE HARPER	ISOPENTANE _____ 0.2
COMPLETED _____	020507	CYCLOPENTANE _____ --
SAMPLED _____	020723	HEXANES PLUS _____ 0.1
FORMATION _____	MISS-BARNETT SHALE	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	420	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8552	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	2100	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2100	CARBON DIOXIDE _____ 1.4
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1.095
		SPECIFIC GRAVITY _____ 0.636

SAMPLE	21027	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 81.2
COUNTY _____	DENTON	ETHANE _____ 10.2
FIELD _____	NEWARK E	PROPANE _____ 4.3
WELL NAME _____	RICK RICH NO. 2	N-BUTANE _____ 1.0
API _____	4212130867	ISOBUTANE _____ 0.5
LOCATION _____	BBB&C RAILROAD SURVEY, A-169	N-PENTANE _____ 0.2
OWNER _____	DALLAS PRODUCTION, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	010216	CYCLOPENTANE _____ --
SAMPLED _____	020909	HEXANES PLUS _____ 0.3
FORMATION _____	MISS-BARNETT SHALE	NITROGEN _____ 1.4
GEOLOGIC PROVINCE CODE _____	420	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8490	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.4
WELLHEAD PRESSURE, PSIG _____	2800	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	916	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1.190
		SPECIFIC GRAVITY _____ 0.688

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21028	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 82.7
COUNTY _____	DENTON	ETHANE _____ 8.5
FIELD _____	NEWARK E	PROPANE _____ 3.4
WELL NAME _____	DOWNE NO. A-2	N-BUTANE _____ 1.1
API _____	4212131195	ISOBUTANE _____ 0.7
LOCATION _____	ELIZANO PIZANO SURVEY, A-991	N-PENTANE _____ 0.4
OWNER _____	DALLAS PRODUCTION, INC.	ISOPENTANE _____ 0.5
COMPLETED _____	020404	CYCLOPENTANE _____ --
SAMPLED _____	020909	HEXANES PLUS _____ 0.6
FORMATION _____	MISS-BARNETT SHALE	NITROGEN _____ 1.4
GEOLOGIC PROVINCE CODE _____	420	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8628	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____	3580	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	855	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.05
		HEATING VALUE* _____ 1.196
		SPECIFIC GRAVITY _____ 0.696

SAMPLE	21284	COMPONENT, MOLE PCT
STATE _____	TEXAS	METHANE _____ 63.3
COUNTY _____	MONTAGUE	ETHANE _____ 7.5
FIELD _____	SAINT JO. SW	PROPANE _____ 5.7
WELL NAME _____	COLLIER NO. 7	N-BUTANE _____ 1.6
API _____	4233702397	ISOBUTANE _____ 0.4
LOCATION _____	A. MIZELL SUR. A-488	N-PENTANE _____ 0.4
OWNER _____	HEP OIL COMPANY, LTD.	ISOPENTANE _____ 0.4
COMPLETED _____	030301	CYCLOPENTANE _____ --
SAMPLED _____	031007	HEXANES PLUS _____ 0.5
FORMATION _____	MISS-BARNETT SHALE	NITROGEN _____ 9.5
GEOLOGIC PROVINCE CODE _____	420	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8500	ARGON _____ 0.2
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	60	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	200	CARBON DIOXIDE _____ 10.5
		HELIUM _____ 0.12
		HEATING VALUE* _____ 1.036
		SPECIFIC GRAVITY _____ 0.842

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20944	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 88.2
COUNTY _____	GRAND	ETHANE _____ 5.2
FIELD _____	BAR X	PROPANE _____ 2.0
WELL NAME _____	FEDERAL NO. 6-14	N-BUTANE _____ 0.6
API _____	4301930462	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 11, T17S, R25E	N-PENTANE _____ 0.2
OWNER _____	LONE MOUNTAIN PRODUCTION CO.	ISOPENTANE _____ 0.3
COMPLETED _____	790515	CYCLOPENTANE _____ --
SAMPLED _____	020618	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 1.7
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4353	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	944	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.16
		HEATING VALUE* _____ 1,108
		SPECIFIC GRAVITY _____ 0.646

SAMPLE	20935	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 78.1
COUNTY _____	GRAND	ETHANE _____ 8.4
FIELD _____	BRYSON CANYON	PROPANE _____ 6.4
WELL NAME _____	BRYSON CANYON NO. 7-A	N-BUTANE _____ 2.1
API _____	4301911310	ISOBUTANE _____ 1.2
LOCATION _____	SEC. 9, T17S, R24E	N-PENTANE _____ 0.5
OWNER _____	TREND OIL CO.	ISOPENTANE _____ 0.6
COMPLETED _____	631222	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.8
FORMATION _____	CRET-CASTLEGATE	NITROGEN _____ 0.9
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	1775	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	30	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.08
		HEATING VALUE* _____ 1,290
		SPECIFIC GRAVITY _____ 0.757

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21004	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 93.8
COUNTY _____	CARBON	ETHANE _____ 0.4
FIELD _____	CASTLEGATE	PROPANE _____ 0.1
WELL NAME _____	HUBER-FEDERAL NO. 7-9	N-BUTANE _____ TRACE
API _____	4300730137	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 9, T12S, R10E	N-PENTANE _____ 0.0
OWNER _____	J.M. HUBER CORP.	ISOPENTANE _____ 0.0
COMPLETED _____	001006	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ 0.0
FORMATION _____	CRET-BLACKHAWK	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4768	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	72	CARBON DIOXIDE _____ 5.6
		HELIUM _____ TRACE
		HEATING VALUE* _____ 958
		SPECIFIC GRAVITY _____ 0.611

SAMPLE	21003	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 90.8
COUNTY _____	CARBON	ETHANE _____ 0.4
FIELD _____	CASTLEGATE	PROPANE _____ 0.1
WELL NAME _____	HUBER-JENSEN NO. 5-10	N-BUTANE _____ TRACE
API _____	4300730162	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 10, T12S, R10E	N-PENTANE _____ 0.0
OWNER _____	J.M. HUBER CORP.	ISOPENTANE _____ 0.0
COMPLETED _____	000622	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ 0.0
FORMATION _____	CRET-BLACKHAWK	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4758	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	14	CARBON DIOXIDE _____ 8.6
		HELIUM _____ TRACE
		HEATING VALUE* _____ 929
		SPECIFIC GRAVITY _____ 0.64

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21345	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 78.8
COUNTY _____	UINTAH	ETHANE _____ 6.8
FIELD _____	CROOKED CANYON	PROPANE _____ 3.4
WELL NAME _____	CROOKED CANYON NO. 13-17-14-23	N-BUTANE _____ 1.7
API _____	4304730619	ISOBUTANE _____ 0.8
LOCATION _____	SEC. 17, T14S, R23E	N-PENTANE _____ 0.5
OWNER _____	EVERGREEN OPERATING CORP.	ISOPENTANE _____ 0.7
COMPLETED _____	800805	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 1.0
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 5.7
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	9272	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	134	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,177
		SPECIFIC GRAVITY _____ 0.732

SAMPLE	21010	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 99.7
COUNTY _____	CARBON	ETHANE _____ 0.2
FIELD _____	DRUNKARDS WASH	PROPANE _____ 0.0
WELL NAME _____	IDS NO. 17-133	N-BUTANE _____ 0.0
API _____	4300730296	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 17, T15S, R10E	N-PENTANE _____ 0.0
OWNER _____	PHILLIPS PETROLEUM CO.	ISOPENTANE _____ 0.0
COMPLETED _____	990518	CYCLOPENTANE _____ --
SAMPLED _____	020731	HEXANES PLUS _____ TRACE
FORMATION _____	CRET-FERRON	NITROGEN _____ TRACE
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	1315	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	11	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.00
		HEATING VALUE* _____ 1,014
		SPECIFIC GRAVITY _____ 0.556

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21009	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 95.4
COUNTY _____	CARBON	ETHANE _____ 0.1
FIELD _____	DRUNKARDS WASH	PROPANE _____ 0.0
WELL NAME _____	USA NO. 24-183	N-BUTANE _____ 0.0
API _____	4300730469	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 24, T14S, R8E	N-PENTANE _____ 0.0
OWNER _____	PHILLIPS PETROLEUM CO.	ISOPENTANE _____ 0.0
COMPLETED _____	991109	CYCLOPENTANE _____ --
SAMPLED _____	020731	HEXANES PLUS _____ 0.0
FORMATION _____	CRET-FERRON	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3174	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2454	CARBON DIOXIDE _____ 4.3
		HELIUM _____ TRACE
		HEATING VALUE* _____ 967
		SPECIFIC GRAVITY _____ 0.597

SAMPLE	21012	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 96.1
COUNTY _____	CARBON	ETHANE _____ 0.1
FIELD _____	DRUNKARDS WASH	PROPANE _____ TRACE
WELL NAME _____	RGC NO. 25-460	N-BUTANE _____ 0.0
API _____	4300730747	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 25, T15S, R8E	N-PENTANE _____ 0.0
OWNER _____	PHILLIPS PETROLEUM CO.	ISOPENTANE _____ 0.0
COMPLETED _____	010914	CYCLOPENTANE _____ --
SAMPLED _____	020731	HEXANES PLUS _____ 0.0
FORMATION _____	CRET-FERRON	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3526	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	312	CARBON DIOXIDE _____ 3.3
		HELIUM _____ TRACE
		HEATING VALUE* _____ 976
		SPECIFIC GRAVITY _____ 0.588

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21011	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 95.6
COUNTY _____	CARBON	ETHANE _____ 0.1
FIELD _____	DRUNKARDS WASH	PROPANE _____ 0.0
WELL NAME _____	USA NO. 11-245	N-BUTANE _____ 0.0
API _____	4300730462	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 11, T15S, R8E	N-PENTANE _____ 0.0
OWNER _____	PHILLIPS PETROLEUM CO.	ISOPENTANE _____ 0.0
COMPLETED _____	000913	CYCLOPENTANE _____ --
SAMPLED _____	020731	HEXANES PLUS _____ TRACE
FORMATION _____	CRET-FERRON	NITROGEN _____ 0.5
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3619	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	9344	CARBON DIOXIDE _____ 3.8
		HELIUM _____ 0.01
		HEATING VALUE* _____ 970
		SPECIFIC GRAVITY _____ 0.593

SAMPLE	21389	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 87.5
COUNTY _____	GRAND	ETHANE _____ 5.1
FIELD _____	EAST CANYON	PROPANE _____ 1.4
WELL NAME _____	ANDERSON FEDERAL 2-12	N-BUTANE _____ 0.3
API _____	4301930136	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 12, T16S, R24E	N-PENTANE _____ 0.1
OWNER _____	EVERGREEN OPERATING CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	730725	CYCLOPENTANE _____ --
SAMPLED _____	040800	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-DAKOTA, CEDAR MOUNTAIN	NITROGEN _____ 3.5
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6242	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	4000	CARBON DIOXIDE _____ 1.5
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1,040
		SPECIFIC GRAVITY _____ 0.635

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21384	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 83.3
COUNTY _____	GRAND	ETHANE _____ 5.4
FIELD _____	EAST CANYON	PROPANE _____ 1.6
WELL NAME _____	EAST CANYON B 22-17 NO. 22	N-BUTANE _____ 0.4
API _____	4301916202	ISOBUTANE _____ 0.3
LOCATION _____	SEC 17, T16S, R25E	N-PENTANE _____ 0.1
OWNER _____	BEARTOOTH OIL & GAS CO.	ISOPENTANE _____ 0.2
COMPLETED _____	630805	CYCLOPENTANE _____ --
SAMPLED _____	040826	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-DAKOTA, CEDAR MOUNTAIN	NITROGEN _____ 6.7
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6830	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	120	CARBON DIOXIDE _____ 1.4
		HELIUM _____ 0.12
		HEATING VALUE* _____ 1,033
		SPECIFIC GRAVITY _____ 0.662

SAMPLE	21380	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 93.1
COUNTY _____	UINTAH	ETHANE _____ 3.4
FIELD _____	EIGHT MILE FLAT N	PROPANE _____ 0.8
WELL NAME _____	FEDERAL NO. 16-26A	N-BUTANE _____ 0.2
API _____	4304733601	ISOBUTANE _____ 0.2
LOCATION _____	SEC 26, T9S, R18E	N-PENTANE _____ 0.1
OWNER _____	DOMINION EXPLORATION & PRODUCTION, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	011108	CYCLOPENTANE _____ --
SAMPLED _____	040819	HEXANES PLUS _____ 0.1
FORMATION _____	EOCE-CHAPITA WELLS, CRET-MESAVERDE	NITROGEN _____ 1.4
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	9363	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	35	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,044
		SPECIFIC GRAVITY _____ 0.601

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20999	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 96.9
COUNTY _____	UINTAH	ETHANE _____ 1.0
FIELD _____	FLAT ROCK	PROPANE _____ 0.1
WELL NAME _____	DEL-RIO/ORION NO. 29-5A	N-BUTANE _____ TRACE
API _____	4304733617	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 29, T14S, R20E	N-PENTANE _____ 0.0
OWNER _____	AQUARIUS ENERGY RESOURCES	ISOPENTANE _____ TRACE
COMPLETED _____	011018	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ TRACE
FORMATION _____	CRET-CEDAR MOUNTAIN	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10770	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	916	CARBON DIOXIDE _____ 1.6
		HELIUM _____ 0.01
		HEATING VALUE* _____ 1.004
		SPECIFIC GRAVITY _____ 0.578

SAMPLE	21000	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 92.7
COUNTY _____	UINTAH	ETHANE _____ 2.4
FIELD _____	FLAT ROCK	PROPANE _____ 0.6
WELL NAME _____	DEL-RIO/ORION NO. 29-6A	N-BUTANE _____ 0.2
API _____	4304734102	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 29, T14S, R20E	N-PENTANE _____ 0.1
OWNER _____	AQUARIUS ENERGY RESOURCES	ISOPENTANE _____ 0.1
COMPLETED _____	020109	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ 0.2
FORMATION _____	JURA-CURTIS, ENTRADA	NITROGEN _____ 1.0
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11640	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3808	CARBON DIOXIDE _____ 2.4
		HELIUM _____ 0.11
		HEATING VALUE* _____ 1.028
		SPECIFIC GRAVITY _____ 0.613

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20998	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 95.8
COUNTY _____	UINTAH	ETHANE _____ 1.5
FIELD _____	FLAT ROCK	PROPANE _____ 0.3
WELL NAME _____	DEL-RIO/ORION NO. 30-6A	N-BUTANE _____ 0.1
API _____	4304733596	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 30, T14S, R20E	N-PENTANE _____ TRACE
OWNER _____	AQUARIUS ENERGY RESOURCES	ISOPENTANE _____ 0.1
COMPLETED _____	011107	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10846	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	93	CARBON DIOXIDE _____ 1.5
		HELIUM _____ 0.01
		HEATING VALUE* _____ 1.026
		SPECIFIC GRAVITY _____ 0.591

SAMPLE	21001	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 85.5
COUNTY _____	UINTAH	ETHANE _____ 7.0
FIELD _____	FLAT ROCK	PROPANE _____ 3.5
WELL NAME _____	DEL-RIO/ORION NO. 30-3A	N-BUTANE _____ 1.0
API _____	4304710913	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 30, T14S, R20E	N-PENTANE _____ 0.3
OWNER _____	PEGASUS ENERGY RESOURCES	ISOPENTANE _____ 0.4
COMPLETED _____	981119	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ 0.9
FORMATION _____	EOCE-WASATCH	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3988	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	670	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	914	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.00
		HEATING VALUE* _____ 1.207
		SPECIFIC GRAVITY _____ 0.687

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21002	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 88.0
COUNTY _____	UINTAH	ETHANE _____ 6.4
FIELD _____	FLAT ROCK	PROPANE _____ 3.0
WELL NAME _____	FLATROCK NO. 30-2A	N-BUTANE _____ 0.7
API _____	4304730641	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 30, T14S, R20E	N-PENTANE _____ 0.2
OWNER _____	ORION ENERGY RESOURCES	ISOPENTANE _____ 0.2
COMPLETED _____	801020	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ 0.4
FORMATION _____	EOCE-WASATCH	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4018	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	28	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,154
		SPECIFIC GRAVITY _____ 0.651

SAMPLE	21218	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 91.0
COUNTY _____	UINTAH	ETHANE _____ 3.1
FIELD _____	GYPSUM HILLS	PROPANE _____ 0.7
WELL NAME _____	GYPSUM HILLS NO. 16W-17-8-21	N-BUTANE _____ 0.3
API _____	43047341560	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 17, T8S, R21E	N-PENTANE _____ 0.1
OWNER _____	SHENANDOAH ENERGY, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	011219	CYCLOPENTANE _____ --
SAMPLED _____	030710	HEXANES PLUS _____ 0.4
FORMATION _____	EOCE-WASATCH	NITROGEN _____ 3.6
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7358	ARGON _____ 0.2
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	260	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	255	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,036
		SPECIFIC GRAVITY _____ 0.615

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21007	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 94.0
COUNTY _____	CARBON	ETHANE _____ 0.1
FIELD _____	HELPER	PROPANE _____ 0.0
WELL NAME _____	HELPER FEDERAL NO. H-2	N-BUTANE _____ 0.0
API _____	4300730550	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 1, T14S, R10E	N-PENTANE _____ 0.0
OWNER _____	ANADARKO PETROLEUM CORP.	ISOPENTANE _____ 0.0
COMPLETED _____	000113	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ 0.0
FORMATION _____	CRET-FERRON	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2039	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	5	CARBON DIOXIDE _____ 5.8
		HELIUM _____ 0.00
		HEATING VALUE* _____ 953
		SPECIFIC GRAVITY _____ 0.61

SAMPLE	21008	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 93.9
COUNTY _____	CARBON	ETHANE _____ 0.1
FIELD _____	HELPER	PROPANE _____ 0.0
WELL NAME _____	HELPER FEDERAL NO. H-1	N-BUTANE _____ 0.0
API _____	4300730549	ISOBUTANE _____ 0.0
LOCATION _____	SEC. 1, T14S, R10E	N-PENTANE _____ 0.0
OWNER _____	ANADARKO PETROLEUM CORP.	ISOPENTANE _____ 0.0
COMPLETED _____	991231	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ 0.0
FORMATION _____	CRET-FERRON	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2217	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	44	CARBON DIOXIDE _____ 5.9
		HELIUM _____ 0.00
		HEATING VALUE* _____ 952
		SPECIFIC GRAVITY _____ 0.612

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21005	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 95.5
COUNTY _____	CARBON	ETHANE _____ 0.7
FIELD _____	HELPER	PROPANE _____ 0.1
WELL NAME _____	HELPER FEDERAL NO. E-1	N-BUTANE _____ TRACE
API _____	4300730547	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 29, T13S, R10E	N-PENTANE _____ TRACE
OWNER _____	ANADARKO PETROLEUM CORP.	ISOPENTANE _____ TRACE
COMPLETED _____	010925	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ TRACE
FORMATION _____	CRET-FERRON	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3300	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	177	CARBON DIOXIDE _____ 3.5
		HELIUM _____ TRACE
		HEATING VALUE* _____ 984
		SPECIFIC GRAVITY _____ 0.594

SAMPLE	21006	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 96.3
COUNTY _____	CARBON	ETHANE _____ 1.0
FIELD _____	HELPER	PROPANE _____ 0.3
WELL NAME _____	HELPER FEDERAL NO. C-7	N-BUTANE _____ TRACE
API _____	4300730684	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 21, T13S, R10E	N-PENTANE _____ TRACE
OWNER _____	ANADARKO PETROLEUM CORP.	ISOPENTANE _____ TRACE
COMPLETED _____	011126	CYCLOPENTANE _____ --
SAMPLED _____	020730	HEXANES PLUS _____ TRACE
FORMATION _____	CRET-FERRON	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3676	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 2.2
		HELIUM _____ TRACE
		HEATING VALUE* _____ 1,002
		SPECIFIC GRAVITY _____ 0.585

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21383	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 87.4
COUNTY _____	GRAND	ETHANE _____ 1.5
FIELD _____	ICE CANYON	PROPANE _____ 0.2
WELL NAME _____	STATE 16-9 NO. 9	N-BUTANE _____ TRACE
API _____	4301930669	ISOBUTANE _____ TRACE
LOCATION _____	SEC 16, T16S, R21E	N-PENTANE _____ TRACE
OWNER _____	BEARTOOTH OIL & GAS CO.	ISOPENTANE _____ TRACE
COMPLETED _____	820510	CYCLOPENTANE _____ --
SAMPLED _____	040826	HEXANES PLUS _____ TRACE
FORMATION _____	CRET-DAKOTA, JURA-MORRISON	NITROGEN _____ 9.5
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	9806	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	350	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	100	CARBON DIOXIDE _____ 1.2
		HELIUM _____ 0.03
		HEATING VALUE* _____ 923
		SPECIFIC GRAVITY _____ 0.616

SAMPLE	21405	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 96.6
COUNTY _____	UINTAH	ETHANE _____ 0.8
FIELD _____	KENNEDY WASH	PROPANE _____ 0.1
WELL NAME _____	SAGE GROUSE FEDERAL 6-14-8-22	N-BUTANE _____ TRACE
API _____	4304732746	ISOBUTANE _____ TRACE
LOCATION _____	SEC 14, T8S, R22E	N-PENTANE _____ 0.0
OWNER _____	QUESTAR EXPLORATION & PRODUCTION UINTA	ISOPENTANE _____ 0.0
COMPLETED _____	BASIN, INC 981230	CYCLOPENTANE _____ --
SAMPLED _____	041209	HEXANES PLUS _____ 0.0
FORMATION _____	EOCE-GREEN RIVER	NITROGEN _____ 2.1
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3932	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	48	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	14	CARBON DIOXIDE _____ 0.3
		HELIUM _____ TRACE
		HEATING VALUE* _____ 997
		SPECIFIC GRAVITY _____ 0.572

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21410	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 83.9
COUNTY _____	UINTAH	ETHANE _____ 3.2
FIELD _____	KENNEDY WASH	PROPANE _____ 1.0
WELL NAME _____	OVER & UNDER SAGE GROUSE 9W-15-8-22	N-BUTANE _____ 0.3
API _____	4304734718	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 15, T8S, R22E	N-PENTANE _____ 0.1
OWNER _____	QUESTAR EXPLORATION & PRODUCTION UINTA	ISOPENTANE _____ 0.1
COMPLETED _____	BASIN, INC. 030517	CYCLOPENTANE _____ --
SAMPLED _____	041209	HEXANES PLUS _____ 1.1
FORMATION _____	EOCE-WASATCH	NITROGEN _____ 8.6
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 1.1
TRUE VERTICAL DEPTH (FT) _____	7238	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	144	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1.007
		SPECIFIC GRAVITY _____ 0.661

SAMPLE	21411	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 87.6
COUNTY _____	UINTAH	ETHANE _____ 5.2
FIELD _____	KENNEDY WASH	PROPANE _____ 1.9
WELL NAME _____	OVER & UNDER SAGE GROUSE 10W-15-8-22	N-BUTANE _____ 0.5
API _____	4304734719	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 15, T8S, R22E	N-PENTANE _____ 0.1
OWNER _____	QUESTAR EXPLORATION & PRODUCTION UINTA	ISOPENTANE _____ 0.2
COMPLETED _____	BASIN, INC. 030825	CYCLOPENTANE _____ --
SAMPLED _____	041209	HEXANES PLUS _____ 0.9
FORMATION _____	EOCE-WASATCH.CRET-MESAVERDE.MANCOS B	NITROGEN _____ 2.3
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	12496	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	170	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1.113
		SPECIFIC GRAVITY _____ 0.656

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21390	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 91.3
COUNTY _____	UINTAH	ETHANE _____ 3.8
FIELD _____	KICKER	PROPANE _____ 1.3
WELL NAME _____	QUEST 16-21	N-BUTANE _____ 0.4
API _____	4304733805	ISOBUTANE _____ 0.3
LOCATION _____	SEC 21, T11S, R25E	N-PENTANE _____ 0.1
OWNER _____	TCC ROYALTY CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	010307	CYCLOPENTANE _____ --
SAMPLED _____	040909	HEXANES PLUS _____ 0.4
FORMATION _____	EOCE-WASATCH	NITROGEN _____ 1.9
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2159	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	40	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.00
		HEATING VALUE* _____ 1,079
		SPECIFIC GRAVITY _____ 0.621

SAMPLE	21393	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 57.3
COUNTY _____	GRAND	ETHANE _____ 20.3
FIELD _____	LONG CANYON	PROPANE _____ 12.9
WELL NAME _____	LONG CANYON 1	N-BUTANE _____ 3.5
API _____	4301915925	ISOBUTANE _____ 1.5
LOCATION _____	SEC 9, T26S, R20E	N-PENTANE _____ 0.8
OWNER _____	INTREPID OIL & GAS, L.L.C.	ISOPENTANE _____ 0.7
COMPLETED _____	620830	CYCLOPENTANE _____ --
SAMPLED _____	040825	HEXANES PLUS _____ 0.6
FORMATION _____	PENN-CANE CREEK	NITROGEN _____ 2.1
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7075	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	200	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.12
		HEATING VALUE* _____ 1,514
		SPECIFIC GRAVITY _____ 0.902

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21379	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 90.9
COUNTY _____	UINTAH	ETHANE _____ 4.2
FIELD _____	LOVE	PROPANE _____ 1.6
WELL NAME _____	FEDERAL K NO. 12-22	N-BUTANE _____ 0.4
API _____	4304733299	ISOBUTANE _____ 0.3
LOCATION _____	SEC 22, T11S, R21E	N-PENTANE _____ 0.1
OWNER _____	DOMINION EXPLORATION & PRODUCTION, INC.	ISOPENTANE _____ 0.1
COMPLETED _____	010821	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-MESAVERDE	NITROGEN _____ 1.4
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7998	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	50	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1.085
		SPECIFIC GRAVITY _____ 0.624

SAMPLE	21343	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 76.6
COUNTY _____	UINTAH	ETHANE _____ 8.8
FIELD _____	MAIN CANYON	PROPANE _____ 5.4
WELL NAME _____	MAIN CANYON NO. 11-10-15-23	N-BUTANE _____ 1.7
API _____	4304730639	ISOBUTANE _____ 1.0
LOCATION _____	SEC 10, T15S, R23E	N-PENTANE _____ 0.6
OWNER _____	EVERGREEN OPERATING CORP.	ISOPENTANE _____ 0.7
COMPLETED _____	881209	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 1.3
FORMATION _____	CRET-CASTLEGATE	NITROGEN _____ 3.0
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4384	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1418	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.08
		HEATING VALUE* _____ 1.268
		SPECIFIC GRAVITY _____ 0.764

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21344	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 88.0
COUNTY _____	UINTAH	ETHANE _____ 4.8
FIELD _____	MAIN CANYON	PROPANE _____ 1.3
WELL NAME _____	MAIN CANYON NO. 2-8-15-23	N-BUTANE _____ 0.3
API _____	4304730735	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 8, T15S, R23E	N-PENTANE _____ 0.1
OWNER _____	EVERGREEN OPERATING CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	981108	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-MANCOS B. DAKOTA, CEDAR MTN.	NITROGEN _____ 3.5
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8612	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 1.3
		HELIUM _____ 0.08
		HEATING VALUE* _____ 1.048
		SPECIFIC GRAVITY _____ 0.635

SAMPLE	20943	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 94.6
COUNTY _____	GRAND	ETHANE _____ 2.8
FIELD _____	MIDDLE CANYON	PROPANE _____ 0.5
WELL NAME _____	FEDERAL NO. 42-24	N-BUTANE _____ 0.1
API _____	4301931378	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 24, T16S, R23E	N-PENTANE _____ TRACE
OWNER _____	NATIONAL FUEL CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	011018	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-CEDAR MOUNTAIN	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6180	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	950	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	863	CARBON DIOXIDE _____ 1.3
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1.032
		SPECIFIC GRAVITY _____ 0.593

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20941	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 94.3
COUNTY _____	GRAND	ETHANE _____ 2.8
FIELD _____	MIDDLE CANYON	PROPANE _____ 0.5
WELL NAME _____	FEDERAL NO. 4-30	N-BUTANE _____ 0.1
API _____	4301930641	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 30, T16S, R24E	N-PENTANE _____ TRACE
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.1
COMPLETED _____	800731	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 0.5
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5501	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	450	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	100	CARBON DIOXIDE _____ 1.4
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1,034
		SPECIFIC GRAVITY _____ 0.595

SAMPLE	21304	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 80.3
COUNTY _____	DUCHESNE	ETHANE _____ 8.1
FIELD _____	MONUMENT BUTTE	PROPANE _____ 4.0
WELL NAME _____	WEST POINT NO. 13-8-9-16	N-BUTANE _____ 1.1
API _____	4301332287	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 8, T9S, R16E	N-PENTANE _____ 0.4
OWNER _____	INLAND PRODUCTION CO.	ISOPENTANE _____ 0.3
COMPLETED _____	020104	CYCLOPENTANE _____ --
SAMPLED _____	040414	HEXANES PLUS _____ 0.8
FORMATION _____	EOCE-GREEN RIVER	NITROGEN _____ 3.9
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5747	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1800	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	386	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.05
		HEATING VALUE* _____ 1,180
		SPECIFIC GRAVITY _____ 0.71

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21394	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 79.3
COUNTY _____	SAN JUAN	ETHANE _____ 10.6
FIELD _____	PINE RIDGE S.	PROPANE _____ 4.5
WELL NAME _____	SOUTH PINE RIDGE 7-6	N-BUTANE _____ 1.2
API _____	4303730714	ISOBUTANE _____ 0.6
LOCATION _____	SEC 6, T30S, R25E	N-PENTANE _____ 0.2
OWNER _____	PIONEER OIL & GAS CO.	ISOPENTANE _____ 0.3
COMPLETED _____	811212	CYCLOPENTANE _____ --
SAMPLED _____	040927	HEXANES PLUS _____ 0.2
FORMATION _____	PENN-ISMAY	NITROGEN _____ 3.0
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5802	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	900	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	100	CARBON DIOXIDE _____ 0.1
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,188
		SPECIFIC GRAVITY _____ 0.701

SAMPLE	21342	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 83.6
COUNTY _____	UINTAH	ETHANE _____ 6.9
FIELD _____	PINE SPRINGS	PROPANE _____ 3.4
WELL NAME _____	PINE SPRINGS NO. 13-26-14-22	N-BUTANE _____ 0.9
API _____	4304731074	ISOBUTANE _____ 0.6
LOCATION _____	SEC 26, T14S, R22E	N-PENTANE _____ 0.2
OWNER _____	EVERGREEN OPERATING CORP.	ISOPENTANE _____ 0.3
COMPLETED _____	011022	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-CASTLEGATE	NITROGEN _____ 3.0
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4928	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	526	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.05
		HEATING VALUE* _____ 1,137
		SPECIFIC GRAVITY _____ 0.678

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21340	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 92.3
COUNTY _____	UINTAH	ETHANE _____ 2.3
FIELD _____	PINE SPRINGS	PROPANE _____ 0.4
WELL NAME _____	PINE SPRINGS NO. 8-20-14-22	N-BUTANE _____ 0.1
API _____	4304731063	ISOBUTANE _____ 0.1
LOCATION _____	SEC 20, T14S, R22E	N-PENTANE _____ TRACE
OWNER _____	EVERGREEN OPERATING CORP.	ISOPENTANE _____ TRACE
COMPLETED _____	820304	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 3.2
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8337	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	316	CARBON DIOXIDE _____ 1.4
		HELIUM _____ 0.04
		HEATING VALUE* _____ 997
		SPECIFIC GRAVITY _____ 0.601

SAMPLE	21341	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 87.5
COUNTY _____	UINTAH	ETHANE _____ 5.7
FIELD _____	PINE SPRINGS	PROPANE _____ 2.1
WELL NAME _____	PINE SPRINGS NO. 3-23-14-22	N-BUTANE _____ 0.5
API _____	4304734675	ISOBUTANE _____ 0.4
LOCATION _____	SEC 23, T14S, R22E	N-PENTANE _____ 0.1
OWNER _____	EVERGREEN OPERATING CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	021101	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-MANCOS B	NITROGEN _____ 2.8
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6106	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	390	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,088
		SPECIFIC GRAVITY _____ 0.642

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21407	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 94.0
COUNTY _____	UINTAH	ETHANE _____ 1.1
FIELD _____	POWDER SPRINGS	PROPANE _____ 0.6
WELL NAME _____	UTAH STATE NO. 1	N-BUTANE _____ 0.2
API _____	4304715128	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 36, T7S, R24E	N-PENTANE _____ 0.1
OWNER _____	QUESTAR EXPLORATION & PRODUCTION UINTA	ISOPENTANE _____ 0.1
COMPLETED _____	BASIN, INC. 650317	CYCLOPENTANE _____ --
SAMPLED _____	041207	HEXANES PLUS _____ 0.4
FORMATION _____	EOCE-GREEN RIVER	NITROGEN _____ 3.0
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4971	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	9850	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1.021
		SPECIFIC GRAVITY _____ 0.598

SAMPLE	21017	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 88.0
COUNTY _____	GRAND	ETHANE _____ 4.5
FIELD _____	STATELINE	PROPANE _____ 1.4
WELL NAME _____	LANSDALE GOVERNMENT NO. 13-13	N-BUTANE _____ 0.4
API _____	4301930412	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 13, T17S, R25E	N-PENTANE _____ 0.1
OWNER _____	BURTON W. HANCOCK	ISOPENTANE _____ 0.2
COMPLETED _____	781223	CYCLOPENTANE _____ --
SAMPLED _____	020801	HEXANES PLUS _____ 0.1
FORMATION _____	JURA-BRUSHY BASIN	NITROGEN _____ 4.3
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3332	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1800	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.31
		HEATING VALUE* _____ 1.047
		SPECIFIC GRAVITY _____ 0.628

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21016	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 86.0
COUNTY _____	GRAND	ETHANE _____ 4.7
FIELD _____	STATELINE	PROPANE _____ 1.7
WELL NAME _____	BAR CREEK NO. 1	N-BUTANE _____ 0.7
API _____	4301930335	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 19, T17S, R26E	N-PENTANE _____ 0.3
OWNER _____	BEARTOOTH OIL & GAS CO.	ISOPENTANE _____ 0.3
COMPLETED _____	770108	CYCLOPENTANE _____ --
SAMPLED _____	020801	HEXANES PLUS _____ 0.2
FORMATION _____	JURA-BRUSHY BASIN	NITROGEN _____ 5.0
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2252	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	9500	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.35
		HEATING VALUE* _____ 1.067
		SPECIFIC GRAVITY _____ 0.649

SAMPLE	21019	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 91.0
COUNTY _____	GRAND	ETHANE _____ 4.8
FIELD _____	STATELINE	PROPANE _____ 1.6
WELL NAME _____	HANCOCK GOVERNMENT NO. 35	N-BUTANE _____ 0.4
API _____	4301930224	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 17, T17S, R25E	N-PENTANE _____ 0.1
OWNER _____	BURTON W. HANCOCK	ISOPENTANE _____ 0.2
COMPLETED _____	750525	CYCLOPENTANE _____ --
SAMPLED _____	020801	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 0.8
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3656	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	935	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	780	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.13
		HEATING VALUE* _____ 1.089
		SPECIFIC GRAVITY _____ 0.62

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21020	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 90.5
COUNTY _____	GRAND	ETHANE _____ 4.7
FIELD _____	STATELINE	PROPANE _____ 1.6
WELL NAME _____	FEDERAL NO. 17-12	N-BUTANE _____ 0.5
API _____	4301931382	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 17, T17S, R25E	N-PENTANE _____ 0.1
OWNER _____	BURTON W. HANCOCK	ISOPENTANE _____ 0.2
COMPLETED _____	010204	CYCLOPENTANE _____ --
SAMPLED _____	020801	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 1.0
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3810	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2161	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.14
		HEATING VALUE* _____ 1,091
		SPECIFIC GRAVITY _____ 0.626

SAMPLE	21018	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 93.3
COUNTY _____	GRAND	ETHANE _____ 3.6
FIELD _____	STATELINE	PROPANE _____ 0.8
WELL NAME _____	HANCOCK GOVERNMENT NO. 4	N-BUTANE _____ 0.2
API _____	4301915483	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 9, T17S, R25E	N-PENTANE _____ 0.1
OWNER _____	BURTON W. HANCOCK	ISOPENTANE _____ 0.1
COMPLETED _____	600423	CYCLOPENTANE _____ --
SAMPLED _____	020801	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-DAKOTA, CEDAR MOUNTAIN	NITROGEN _____ 0.7
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3978	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	950	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3729	CARBON DIOXIDE _____ 1.0
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1,050
		SPECIFIC GRAVITY _____ 0.601

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21385	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 88.7
COUNTY _____	UINTAH	ETHANE _____ 2.5
FIELD _____	WALKER HOLLOW	PROPANE _____ 2.9
WELL NAME _____	WALKER HOLLOW UNIT NO. 81	N-BUTANE _____ 1.0
API _____	4304734758	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 11, T7S, R23E	N-PENTANE _____ 0.3
OWNER _____	CITATION OIL & GAS CORP.	ISOPENTANE _____ 0.4
COMPLETED _____	030610	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 0.3
FORMATION _____	EOCE-GREEN RIVER	NITROGEN _____ 3.1
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5368	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	250	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	160	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1,108
		SPECIFIC GRAVITY _____ 0.652

SAMPLE	21381	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 88.5
COUNTY _____	UINTAH	ETHANE _____ 4.8
FIELD _____	WEST WILLOW CREEK	PROPANE _____ 2.7
WELL NAME _____	FEDERAL NO. 3-25B	N-BUTANE _____ 0.7
API _____	4304732417	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 25, T9S, R19E	N-PENTANE _____ 0.2
OWNER _____	DOMINION EXPLORATION & PRODUCTION, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	930509	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 0.2
FORMATION _____	EOCE-GREEN RIVER	NITROGEN _____ 1.7
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4795	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	500	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,112
		SPECIFIC GRAVITY _____ 0.644

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21382	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 87.1
COUNTY _____	UINTAH	ETHANE _____ 5.2
FIELD _____	WEST WILLOW CREEK	PROPANE _____ 3.2
WELL NAME _____	FEDERAL 5-24B NO. 5	N-BUTANE _____ 0.9
API _____	4304732447	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 24, T9S, R19E	N-PENTANE _____ 0.2
OWNER _____	DOMINION EXPLORATION & PRODUCTION, INC.	ISOPENTANE _____ 0.2
COMPLETED _____	931219	CYCLOPENTANE _____ --
SAMPLED _____	040817	HEXANES PLUS _____ 0.3
FORMATION _____	EOCE-GREEN RIVER	NITROGEN _____ 1.8
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4854	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	600	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1,131
		SPECIFIC GRAVITY _____ 0.659

SAMPLE	20933	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 92.9
COUNTY _____	GRAND	ETHANE _____ 3.4
FIELD _____	WESTWATER	PROPANE _____ 0.9
WELL NAME _____	FEDERAL NO. 4-M	N-BUTANE _____ 0.2
API _____	4301920154	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 6, T17S, R24E	N-PENTANE _____ 0.1
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.1
COMPLETED _____	680619	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-BUCKHORN	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6276	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	180	CARBON DIOXIDE _____ 1.6
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1,051
		SPECIFIC GRAVITY _____ 0.609

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20936	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 81.5
COUNTY _____	GRAND	ETHANE _____ 7.5
FIELD _____	WESTWATER	PROPANE _____ 3.9
WELL NAME _____	WESTWATER UNIT NO. 6-C	N-BUTANE _____ 1.2
API _____	4301915652	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 18, T17S, R24E	N-PENTANE _____ 0.3
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.4
COMPLETED _____	590513	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-CASTLEGATE	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	684	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	210	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	50	CARBON DIOXIDE _____ 3.3
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,172
		SPECIFIC GRAVITY _____ 0.717

SAMPLE	20940	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 84.1
COUNTY _____	GRAND	ETHANE _____ 6.1
FIELD _____	WESTWATER	PROPANE _____ 2.4
WELL NAME _____	FEDERAL NO. 2-C	N-BUTANE _____ 0.7
API _____	4301915649	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 18, T17S, R24E	N-PENTANE _____ 0.2
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.3
COMPLETED _____	571106	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.4
FORMATION _____	CRET-CASTLEGATE	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	765	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	30	CARBON DIOXIDE _____ 4.8
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,095
		SPECIFIC GRAVITY _____ 0.691

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20939	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 76.1
COUNTY _____	GRAND	ETHANE _____ 8.4
FIELD _____	WESTWATER	PROPANE _____ 6.4
WELL NAME _____	WESTWATER NO. 7-C	N-BUTANE _____ 2.5
API _____	4301915653	ISOBUTANE _____ 1.5
LOCATION _____	SEC. 7, T17S, R24E	N-PENTANE _____ 0.9
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 1.0
COMPLETED _____	590509	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 1.6
FORMATION _____	CRET-CASTLEGATE	NITROGEN _____ 0.7
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	1084	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	30	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.08
		HEATING VALUE* _____ 1,366
		SPECIFIC GRAVITY _____ 0.801

SAMPLE	20934	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 90.5
COUNTY _____	GRAND	ETHANE _____ 4.9
FIELD _____	WESTWATER	PROPANE _____ 1.5
WELL NAME _____	WESTWATER UNIT NO. 3-M	N-BUTANE _____ 0.4
API _____	4301915662	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 7, T17S, R24E	N-PENTANE _____ 0.1
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.2
COMPLETED _____	640624	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-CASTLEGATE, DAKOTA	NITROGEN _____ 0.7
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2319	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	180	CARBON DIOXIDE _____ 1.0
		HELIUM _____ 0.08
		HEATING VALUE* _____ 1,089
		SPECIFIC GRAVITY _____ 0.627

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20942	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 93.7
COUNTY _____	GRAND	ETHANE _____ 3.1
FIELD _____	WESTWATER	PROPANE _____ 0.7
WELL NAME _____	MIDDLE CANYON FEDERAL NO. 11-30	N-BUTANE _____ 0.1
API _____	4301930925	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 30, T16S, R24E	N-PENTANE _____ 0.1
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.1
COMPLETED _____	821026	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5581	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	450	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	250	CARBON DIOXIDE _____ 1.3
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1.039
		SPECIFIC GRAVITY _____ 0.6

SAMPLE	20937	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 85.5
COUNTY _____	GRAND	ETHANE _____ 7.9
FIELD _____	WESTWATER	PROPANE _____ 2.9
WELL NAME _____	FEDERAL NO. 2-D	N-BUTANE _____ 0.7
API _____	4301915656	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 18, T17S, R24E	N-PENTANE _____ 0.2
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.3
COMPLETED _____	610515	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-DAKOTA, CASTLEGATE	NITROGEN _____ 0.9
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	722	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	60	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1.151
		SPECIFIC GRAVITY _____ 0.663

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20931	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 89.3
COUNTY _____	GRAND	ETHANE _____ 6.0
FIELD _____	WESTWATER	PROPANE _____ 1.9
WELL NAME _____	WESTWATER NO. 3-E	N-BUTANE _____ 0.4
API _____	4301915658	ISOBUTANE _____ 0.4
LOCATION _____	SEC. 17, T17S, R24E	N-PENTANE _____ 0.1
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.1
COMPLETED _____	590728	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.1
FORMATION _____	JURA-ENTRADA	NITROGEN _____ 0.8
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5488	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	110	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1,099
		SPECIFIC GRAVITY _____ 0.63

SAMPLE	20938	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 86.7
COUNTY _____	GRAND	ETHANE _____ 4.2
FIELD _____	WESTWATER	PROPANE _____ 1.4
WELL NAME _____	WESTWATER UNIT NO. 2-E	N-BUTANE _____ 0.7
API _____	4301915657	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 7, T17S, R24E	N-PENTANE _____ 0.4
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.5
COMPLETED _____	590126	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.5
FORMATION _____	JURA-ENTRADA, MORRISON	NITROGEN _____ 3.9
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5300	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	110	CARBON DIOXIDE _____ 1.0
		HELIUM _____ 0.19
		HEATING VALUE* _____ 1,084
		SPECIFIC GRAVITY _____ 0.659

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	20932	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 82.3
COUNTY _____	GRAND	ETHANE _____ 7.2
FIELD _____	WESTWATER	PROPANE _____ 4.3
WELL NAME _____	FEDERAL NO. 1-B	N-BUTANE _____ 1.4
API _____	4301930892	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 17, T17S, R24E	N-PENTANE _____ 0.4
OWNER _____	J.C. THOMPSON	ISOPENTANE _____ 0.4
COMPLETED _____	821015	CYCLOPENTANE _____ --
SAMPLED _____	020617	HEXANES PLUS _____ 0.4
FORMATION _____	JURA-MORRISON	NITROGEN _____ 2.5
GEOLOGIC PROVINCE CODE _____	585	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5698	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	65	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.11
		HEATING VALUE* _____ 1,187
		SPECIFIC GRAVITY _____ 0.7

SAMPLE	21408	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 91.0
COUNTY _____	UINTAH	ETHANE _____ 3.3
FIELD _____	WHITE RIVER	PROPANE _____ 1.0
WELL NAME _____	OVER & UNDER GLEN BENCH 16W-9-8-22	N-BUTANE _____ 0.3
API _____	4304734679	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 9, T8S, R22E	N-PENTANE _____ 0.1
OWNER _____	QUESTAR EXPLORATION & PRODUCTION UINTA	ISOPENTANE _____ 0.1
COMPLETED _____	BASIN, INC. 030418	CYCLOPENTANE _____ --
SAMPLED _____	041214	HEXANES PLUS _____ 0.9
FORMATION _____	EOCE-WASATCH	NITROGEN _____ 2.6
GEOLOGIC PROVINCE CODE _____	575	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7720	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	208	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,070
		SPECIFIC GRAVITY _____ 0.627

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21406	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 68.3
COUNTY _____	UINTAH	ETHANE _____ 11.1
FIELD _____	WONSITS VALLEY	PROPANE _____ 9.6
WELL NAME _____	WVU 132	N-BUTANE _____ 2.5
API _____	4304730822	ISOBUTANE _____ 1.4
LOCATION _____	SEC 15, T8S, R21E	N-PENTANE _____ 0.6
OWNER _____	QUESTAR EXPLORATION & PRODUCTION UINTA	ISOPENTANE _____ 0.6
COMPLETED _____	BASIN, INC.	CYCLOPENTANE _____ --
SAMPLED _____	810327	HEXANES PLUS _____ 1.0
FORMATION _____	041207	NITROGEN _____ 2.8
GEOLOGIC PROVINCE CODE _____	EOCE-GREEN RIVER	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	575	ARGON _____ 0.1
MEASURED DEPTH _____	5261	HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 1.7
		HELIUM _____ 0.10
		HEATING VALUE* _____ 1,360
		SPECIFIC GRAVITY _____ 0.836

SAMPLE	21409	COMPONENT, MOLE PCT
STATE _____	UTAH	METHANE _____ 90.3
COUNTY _____	UINTAH	ETHANE _____ 3.6
FIELD _____	WONSITS VALLEY	PROPANE _____ 1.1
WELL NAME _____	OVER & UNDER GLEN BENCH 1W-17-8-22	N-BUTANE _____ 0.3
API _____	4304734623	ISOBUTANE _____ 0.2
LOCATION _____	SEC 17, T8S, R22E	N-PENTANE _____ 0.1
OWNER _____	QUESTAR EXPLORATION & PRODUCTION UINTA	ISOPENTANE _____ 0.1
COMPLETED _____	BASIN, INC.	CYCLOPENTANE _____ --
SAMPLED _____	030201	HEXANES PLUS _____ 0.8
FORMATION _____	041214	NITROGEN _____ 3.0
GEOLOGIC PROVINCE CODE _____	EOCE-WASATCH	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	575	ARGON _____ 0.1
MEASURED DEPTH _____	7666	HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1417	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2049	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,070
		SPECIFIC GRAVITY _____ 0.629

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE50598

STATE _____WEST VIRGINIA_____

COUNTY _____ROANE_____

FIELD _____AMMA-LOONEYVILLE-NEWTON_____

WELL NAME _____FREDRICK C. PARKER ET AL NO. 820097_____

API _____4708724250_____

LOCATION _____GEARY DISTRICT, CLIO 7.5 QUAD_____

OWNER _____COLUMBIA NATURAL RESOURCES, INC._____

COMPLETED _____990628_____

SAMPLED _____990428_____

FORMATION _____ORDO-TRENTON-BLACK RIVER_____

GEOLOGIC PROVINCE CODE _____160_____

TRUE VERTICAL DEPTH (FT) _____10271_____

MEASURED DEPTH _____

WELLHEAD PRESSURE, PSIG _____5750_____

OPEN FLOW, MCFD _____50000_____

COMPONENT, MOLE PCT

METHANE _____99.0_____

ETHANE _____0.7_____

PROPANE _____TRACE_____

N-BUTANE _____0.0_____

ISOBUTANE _____0.0_____

N-PENTANE _____0.0_____

ISOPENTANE _____0.0_____

CYCLOPENTANE _____--_____

HEXANES PLUS _____0.0_____

NITROGEN _____0.1_____

OXYGEN _____0.0_____

ARGON _____0.0_____

HYDROGEN _____0.0_____

HYDROGEN SULFIDE** _____--_____

CARBON DIOXIDE _____0.1_____

HELIUM _____0.02_____

HEATING VALUE* _____1,018_____

SPECIFIC GRAVITY _____0.56_____

SAMPLE50599

STATE _____WEST VIRGINIA_____

COUNTY _____ROANE_____

FIELD _____AMMA-LOONEYVILLE-NEWTON_____

WELL NAME _____FREDRICK C. PARKER ET AL NO. 820097_____

API _____4708724250_____

LOCATION _____GEARY DISTRICT, CLIO 7.5 QUAD_____

OWNER _____COLUMBIA NATURAL RESOURCES, INC._____

COMPLETED _____990628_____

SAMPLED _____991027_____

FORMATION _____ORDO-TRENTON-BLACK RIVER_____

GEOLOGIC PROVINCE CODE _____160_____

TRUE VERTICAL DEPTH (FT) _____10271_____

MEASURED DEPTH _____

WELLHEAD PRESSURE, PSIG _____5750_____

OPEN FLOW, MCFD _____50000_____

COMPONENT, MOLE PCT

METHANE _____99.0_____

ETHANE _____0.7_____

PROPANE _____0.1_____

N-BUTANE _____0.0_____

ISOBUTANE _____0.0_____

N-PENTANE _____0.0_____

ISOPENTANE _____0.0_____

CYCLOPENTANE _____--_____

HEXANES PLUS _____0.0_____

NITROGEN _____0.1_____

OXYGEN _____0.0_____

ARGON _____0.0_____

HYDROGEN _____0.0_____

HYDROGEN SULFIDE** _____--_____

CARBON DIOXIDE _____0.1_____

HELIUM _____0.02_____

HEATING VALUE* _____1,018_____

SPECIFIC GRAVITY _____0.561_____

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21134	COMPONENT, MOLE PCT	
STATE	WEST VIRGINIA	METHANE	89.2
COUNTY	MCDOWELL	ETHANE	0.8
FIELD	HUFF CREEK	PROPANE	TRACE
WELL NAME	STATE OF WV-DIV OF NAT RES NO. 506144	N-BUTANE	0.0
API	4704721505	ISOBUTANE	0.0
LOCATION	SANDY RIVER DIST, PANTHER QUAD	N-PENTANE	0.0
OWNER	EQUITABLE PRODUCTION CO.	ISOPENTANE	0.0
COMPLETED	020124	CYCLOPENTANE	--
SAMPLED	030212	HEXANES PLUS	0.0
FORMATION	MISS-MAXON, BEREA, DEVO-HURON	NITROGEN	8.4
GEOLOGIC PROVINCE CODE	160	OXYGEN	0.8
TRUE VERTICAL DEPTH (FT)	5421	ARGON	0.0
MEASURED DEPTH		HYDROGEN	0.1
WELLHEAD PRESSURE, PSIG	345	HYDROGEN SULFIDE**	0.0
OPEN FLOW, MCFD	4980	CARBON DIOXIDE	0.1
		HELIUM	0.55
		HEATING VALUE*	919
		SPECIFIC GRAVITY	0.595

SAMPLE	21148	COMPONENT, MOLE PCT	
STATE	WEST VIRGINIA	METHANE	91.0
COUNTY	WYOMING	ETHANE	3.7
FIELD	MCGRAW	PROPANE	0.7
WELL NAME	POCAHONTAS LAND CORP LC- 223	N-BUTANE	0.1
API	4710922114	ISOBUTANE	0.1
LOCATION	OCEANA DIST, PILOT KNOB QUAD	N-PENTANE	TRACE
OWNER	PENN VIRGINIA OIL & GAS CORP.	ISOPENTANE	0.1
COMPLETED	020222	CYCLOPENTANE	--
SAMPLED	030507	HEXANES PLUS	0.1
FORMATION	MISS-GLADY FORK, RAVENCLIFF	NITROGEN	3.9
GEOLOGIC PROVINCE CODE	160	OXYGEN	0.0
TRUE VERTICAL DEPTH (FT)	2980	ARGON	0.0
MEASURED DEPTH		HYDROGEN	0.2
WELLHEAD PRESSURE, PSIG	305	HYDROGEN SULFIDE**	0.0
OPEN FLOW, MCFD	1800	CARBON DIOXIDE	TRACE
		HELIUM	0.11
		HEATING VALUE*	1,018
		SPECIFIC GRAVITY	0.6

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21025	COMPONENT, MOLE PCT
STATE _____	WEST VIRGINIA	METHANE _____ 86.3
COUNTY _____	CLAY	ETHANE _____ 7.2
FIELD _____	MIDDLE SYCAMORE CREEK	PROPANE _____ 2.6
WELL NAME _____	WEBSTER HARDWOOD NO. B-7	N-BUTANE _____ 0.8
API _____	4701522627	ISOBUTANE _____ 0.5
LOCATION _____	PLEASANT DISTRICT, BENTREE 7.5 QUAD	N-PENTANE _____ 0.2
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ 0.3
COMPLETED _____	011102	CYCLOPENTANE _____ --
SAMPLED _____	020731	HEXANES PLUS _____ 0.4
FORMATION _____	MISS-BIG INJUN SANDSTONE	NITROGEN _____ 1.5
GEOLOGIC PROVINCE CODE _____	160	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____		ARGON _____ 0.0
MEASURED DEPTH _____	2550	HYDROGEN _____ 0.1
WELLHEAD PRESSURE, PSIG _____	163	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	814	CARBON DIOXIDE _____ TRACE
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,150
		SPECIFIC GRAVITY _____ 0.659

SAMPLE	21283	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 84.0
COUNTY _____	CARBON	ETHANE _____ 6.7
FIELD _____	BALDY BUTTE	PROPANE _____ 3.0
WELL NAME _____	BALDY BUTTE FEDERAL NO. 7	N-BUTANE _____ 0.8
API _____	4900722047	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 4, T17N, R92W	N-PENTANE _____ 0.2
OWNER _____	YATES PETROLEUM CORP.	ISOPENTANE _____ 0.3
COMPLETED _____	020118	CYCLOPENTANE _____ --
SAMPLED _____	031005	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-ALMOND	NITROGEN _____ 1.5
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	8196	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1000	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	295	CARBON DIOXIDE _____ 2.5
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1,127
		SPECIFIC GRAVITY _____ 0.684

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21054	COMPONENT, MOLE PCT
STATE	WYOMING	METHANE 91.7
COUNTY	SWEETWATER	ETHANE 2.8
FIELD	BAXTER BASIN M	PROPANE 0.8
WELL NAME	E.S. LAUZER NO. 2	N-BUTANE 0.3
API	4903720410	ISOBUTANE 0.3
LOCATION	SEC. 24, T18N, R104W	N-PENTANE 0.1
OWNER	WEXPRO CO.	ISOPENTANE 0.1
COMPLETED	780410	CYCLOPENTANE --
SAMPLED	021010	HEXANES PLUS 0.2
FORMATION	CRET-DAKOTA	NITROGEN 2.5
GEOLOGIC PROVINCE CODE	535	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	2254	ARGON TRACE
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	140	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	140	CARBON DIOXIDE 1.3
		HELIUM 0.13
		HEATING VALUE* 1,029
		SPECIFIC GRAVITY 0.612

SAMPLE	21055	COMPONENT, MOLE PCT
STATE	WYOMING	METHANE 92.8
COUNTY	SWEETWATER	ETHANE 2.0
FIELD	BAXTER BASIN M	PROPANE 0.1
WELL NAME	E.S. LAUZER NO. 1	N-BUTANE TRACE
API	4903705359	ISOBUTANE TRACE
LOCATION	SEC. 30, T18N, R103W	N-PENTANE 0.0
OWNER	WEXPRO CO.	ISOPENTANE 0.0
COMPLETED	380123	CYCLOPENTANE --
SAMPLED	021010	HEXANES PLUS TRACE
FORMATION	CRET-FRONTIER	NITROGEN 0.7
GEOLOGIC PROVINCE CODE	535	OXYGEN 0.0
TRUE VERTICAL DEPTH (FT)	1685	ARGON 0.0
MEASURED DEPTH		HYDROGEN 0.0
WELLHEAD PRESSURE, PSIG	912	HYDROGEN SULFIDE** 0.0
OPEN FLOW, MCFD	912	CARBON DIOXIDE 4.4
		HELIUM 0.05
		HEATING VALUE* 977
		SPECIFIC GRAVITY 0.61

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21294	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 88.7
COUNTY _____	SWEETWATER	ETHANE _____ 4.2
FIELD _____	BAXTER BASIN S.	PROPANE _____ 1.1
WELL NAME _____	SOUTH BAXTER UNIT NO. 22	N-BUTANE _____ 0.3
API _____	4903725253	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 5, T15N, R104W	N-PENTANE _____ 0.1
OWNER _____	WEXPRO CO.	ISOPENTANE _____ 0.1
COMPLETED _____	030124	CYCLOPENTANE _____ --
SAMPLED _____	031210	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 3.1
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3602	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1000	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	12000	CARBON DIOXIDE _____ 1.9
		HELIUM _____ 0.11
		HEATING VALUE* _____ 1,028
		SPECIFIC GRAVITY _____ 0.63

SAMPLE	21048	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 87.6
COUNTY _____	LINCOLN	ETHANE _____ 6.4
FIELD _____	BIRD CANYON	PROPANE _____ 3.0
WELL NAME _____	COUNTY LINE FEDERAL NO. 22-6	N-BUTANE _____ 0.9
API _____	4902320629	ISOBUTANE _____ 0.6
LOCATION _____	SEC. 6, T26N, R111W	N-PENTANE _____ 0.2
OWNER _____	PRIDE ENERGY CO.	ISOPENTANE _____ 0.3
COMPLETED _____	850812	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-BEAR RIVER	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	9161	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	694	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.05
		HEATING VALUE* _____ 1,152
		SPECIFIC GRAVITY _____ 0.653

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21038	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 97.3
COUNTY _____	SWEETWATER	ETHANE _____ 1.8
FIELD _____	BLACK BUTTE CREEK	PROPANE _____ 0.1
WELL NAME _____	FEDERAL BAXTER NO. 4-22	N-BUTANE _____ TRACE
API _____	4903721543	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 22, T19N, R103W	N-PENTANE _____ 0.0
OWNER _____	SAMSON RESOURCES CO.	ISOPENTANE _____ TRACE
COMPLETED _____	801013	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ TRACE
FORMATION _____	CRET-FRONTIER	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	2882	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	288	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1.022
		SPECIFIC GRAVITY _____ 0.569

SAMPLE	21217	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 89.8
COUNTY _____	SWEETWATER	ETHANE _____ 4.8
FIELD _____	BLUE FOREST	PROPANE _____ 1.0
WELL NAME _____	BLUE FOREST UNIT NO. 20-14	N-BUTANE _____ 0.2
API _____	4903724580	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 14, T24N, R111W	N-PENTANE _____ TRACE
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	010502	CYCLOPENTANE _____ --
SAMPLED _____	030710	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-FRONTIER	NITROGEN _____ 3.2
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10007	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1100	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	440	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1.040
		SPECIFIC GRAVITY _____ 0.615

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21031	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 91.5
COUNTY _____	CARBON	ETHANE _____ 4.7
FIELD _____	CHEROKEE CREEK	PROPANE _____ 1.7
WELL NAME _____	WILD COW CREEK NO. 1-23	N-BUTANE _____ 0.5
API _____	4900721531	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 23, T15N, R91W	N-PENTANE _____ 0.1
OWNER _____	MERIT ENERGY CO.	ISOPENTANE _____ 0.1
COMPLETED _____	961209	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-COW CREEK	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3336	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,098
		SPECIFIC GRAVITY _____ 0.622

SAMPLE	21032	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 81.9
COUNTY _____	SWEETWATER	ETHANE _____ 7.5
FIELD _____	FIVE MILE GULCH	PROPANE _____ 3.5
WELL NAME _____	USA AMOCO T NO. 1	N-BUTANE _____ 1.0
API _____	4903721252	ISOBUTANE _____ 0.8
LOCATION _____	SEC. 4, T20N, R93W	N-PENTANE _____ 0.3
OWNER _____	BP AMERICA PRODUCTION CO.	ISOPENTANE _____ 0.4
COMPLETED _____	790723	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 1.0
FORMATION _____	CRET-ALMOND	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10490	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	699	CARBON DIOXIDE _____ 3.5
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,181
		SPECIFIC GRAVITY _____ 0.72

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21043	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 93.7
COUNTY _____	SWEETWATER	ETHANE _____ 3.6
FIELD _____	FOUR MILE GULCH	PROPANE _____ 0.9
WELL NAME _____	FEDERAL NO. 1-9	N-BUTANE _____ 0.2
API _____	4903722683	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 9, T23N, R110W	N-PENTANE _____ TRACE
OWNER _____	MERIT ENERGY CO.	ISOPENTANE _____ 0.1
COMPLETED _____	910523	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-DAKOTA	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11370	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	275	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,054
		SPECIFIC GRAVITY _____ 0.599

SAMPLE	21042	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 90.7
COUNTY _____	SWEETWATER	ETHANE _____ 6.1
FIELD _____	FOUR MILE GULCH	PROPANE _____ 1.3
WELL NAME _____	FEDERAL NO. 1-9	N-BUTANE _____ 0.2
API _____	4903722683	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 9, T23N, R110W	N-PENTANE _____ 0.1
OWNER _____	MERIT ENERGY CO.	ISOPENTANE _____ 0.1
COMPLETED _____	910523	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-FRONTIER	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10670	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	40	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,090
		SPECIFIC GRAVITY _____ 0.619

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21041	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 90.8
COUNTY _____	SWEETWATER	ETHANE _____ 6.0
FIELD _____	FOUR MILE GULCH	PROPANE _____ 1.3
WELL NAME _____	FOUR MILE GULCH NO. 10-9	N-BUTANE _____ 0.2
API _____	4903724238	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 9, T23N, R110W	N-PENTANE _____ 0.1
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	991202	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-FRONTIER	NITROGEN _____ 0.4
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10604	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	700	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	382	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1.091
		SPECIFIC GRAVITY _____ 0.619

SAMPLE	21040	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 89.3
COUNTY _____	SWEETWATER	ETHANE _____ 6.8
FIELD _____	FOUR MILE GULCH	PROPANE _____ 1.6
WELL NAME _____	SWAN SOUTH FEDERAL A NO. 2	N-BUTANE _____ 0.3
API _____	4903722498	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 8, T23N, R110W	N-PENTANE _____ 0.1
OWNER _____	SAMSON RESOURCES CO.	ISOPENTANE _____ 0.1
COMPLETED _____	880413	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-FRONTIER	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10584	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1476	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1.106
		SPECIFIC GRAVITY _____ 0.63

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21035	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 85.7
COUNTY _____	SWEETWATER	ETHANE _____ 6.6
FIELD _____	HIGGINS	PROPANE _____ 2.5
WELL NAME _____	PRONGHORN FEDERAL NO. 1	N-BUTANE _____ 0.6
API _____	4903723538	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 2, T17N, R99W	N-PENTANE _____ 0.1
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.2
COMPLETED _____	950906	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-ALMOND	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6406	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2898	CARBON DIOXIDE _____ 3.2
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1,114
		SPECIFIC GRAVITY _____ 0.672

SAMPLE	21057	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 90.8
COUNTY _____	SWEETWATER	ETHANE _____ 4.1
FIELD _____	KINNEY	PROPANE _____ 1.4
WELL NAME _____	KINNEY UNIT NO. 4	N-BUTANE _____ 0.4
API _____	4903705151	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 12, T13N, R100W	N-PENTANE _____ 0.1
OWNER _____	WEXPRO CO.	ISOPENTANE _____ 0.2
COMPLETED _____	620929	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-MESAVERDE	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	4664	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1640	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	4630	CARBON DIOXIDE _____ 2.3
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,075
		SPECIFIC GRAVITY _____ 0.632

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21056	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 97.9
COUNTY _____	SWEETWATER	ETHANE _____ 0.2
FIELD _____	KINNEY	PROPANE _____ 0.0
WELL NAME _____	BIG DROP UNIT NO. 8-2	N-BUTANE _____ 0.0
API _____	4903723743	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 8, T13N, R99W	N-PENTANE _____ 0.0
OWNER _____	QUESTAR EXPLORATION & PROD.	ISOPENTANE _____ 0.0
COMPLETED _____	961112	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.0
FORMATION _____	EOCE-WASATCH	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	1380	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2006	CARBON DIOXIDE _____ 1.6
		HELIUM _____ 0.01
		HEATING VALUE* _____ 996
		SPECIFIC GRAVITY _____ 0.572

SAMPLE	21045	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 89.8
COUNTY _____	SWEETWATER	ETHANE _____ 6.4
FIELD _____	LINCOLN ROAD	PROPANE _____ 1.6
WELL NAME _____	LINCOLN ROAD NO. 70-22	N-BUTANE _____ 0.3
API _____	4903723829	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 22, T24N, R111W	N-PENTANE _____ 0.1
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	971018	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-FRONTIER	NITROGEN _____ 0.5
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	9941	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,104
		SPECIFIC GRAVITY _____ 0.628

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21039	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 75.4
COUNTY _____	SWEETWATER	ETHANE _____ 11.5
FIELD _____	MESA	PROPANE _____ 7.7
WELL NAME _____	HORSESHOE NO. 10-13	N-BUTANE _____ 2.0
API _____	4903723786	ISOBUTANE _____ 1.5
LOCATION _____	SEC. 13, T23N, R111W	N-PENTANE _____ 0.2
OWNER _____	MERRION OIL & GAS CORP.	ISOPENTANE _____ 0.4
COMPLETED _____	970514	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-MOWRY	NITROGEN _____ 0.7
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10800	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	163	CARBON DIOXIDE _____ 0.5
		HELIUM _____ 0.12
		HEATING VALUE* _____ 1,304
		SPECIFIC GRAVITY _____ 0.755

SAMPLE	20925	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 92.4
COUNTY _____	SUBLETTE	ETHANE _____ 4.0
FIELD _____	MESA UNIT	PROPANE _____ 1.2
WELL NAME _____	MESA NO. 11-16	N-BUTANE _____ 0.3
API _____	4903522303	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 16, T32N, R109W	N-PENTANE _____ 0.1
OWNER _____	WEXPRO CO.	ISOPENTANE _____ 0.1
COMPLETED _____	010326	CYCLOPENTANE _____ --
SAMPLED _____	020400	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-LANCE	NITROGEN _____ 0.6
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	13276	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	4700	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	4050	CARBON DIOXIDE _____ 0.8
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,070
		SPECIFIC GRAVITY _____ 0.612

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21186	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 86.2
COUNTY _____	SUBLETTE	ETHANE _____ 4.9
FIELD _____	PINEDALE WC SE	PROPANE _____ 2.1
WELL NAME _____	BULL DRAW 3-11	N-BUTANE _____ 0.5
API _____	4903521283	ISOBUTANE _____ 0.5
LOCATION _____	SEC. 11, T28N, R107W	N-PENTANE _____ 0.2
OWNER _____	MOUNTAIN PETROLEUM CORP.	ISOPENTANE _____ 0.2
COMPLETED _____	020514	CYCLOPENTANE _____ --
SAMPLED _____	030521	HEXANES PLUS _____ 0.6
FORMATION _____	CRET-LANCE, MESAVERDE	NITROGEN _____ 3.0
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	12617	ARGON _____ 0.1
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	260	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	60	CARBON DIOXIDE _____ 1.7
		HELIUM _____ 0.04
		HEATING VALUE* _____ 1,088
		SPECIFIC GRAVITY _____ 0.663

SAMPLE	21036	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 96.8
COUNTY _____	SWEETWATER	ETHANE _____ 2.1
FIELD _____	POINT OF ROCKS	PROPANE _____ 0.3
WELL NAME _____	BROWN FEDERAL NO. 11-12	N-BUTANE _____ 0.1
API _____	4903720368	ISOBUTANE _____ TRACE
LOCATION _____	SEC. 12, T19N, R101W	N-PENTANE _____ TRACE
OWNER _____	TRUE OIL CO.	ISOPENTANE _____ TRACE
COMPLETED _____	730423	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ TRACE
FORMATION _____	CRET-FRONTIER	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	7266	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	231	CARBON DIOXIDE _____ 0.4
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,030
		SPECIFIC GRAVITY _____ 0.574

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21037	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 96.6
COUNTY _____	SWEETWATER	ETHANE _____ 2.0
FIELD _____	POINT OF ROCKS	PROPANE _____ 0.5
WELL NAME _____	TEXACO FEDERAL NO. 11-2	N-BUTANE _____ 0.1
API _____	4903720719	ISOBUTANE _____ 0.1
LOCATION _____	SEC. 2, T19N, R101W	N-PENTANE _____ TRACE
OWNER _____	TRUE OIL CO.	ISOPENTANE _____ TRACE
COMPLETED _____	760601	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-FRONTIER 2	NITROGEN _____ 0.3
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6913	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	373	CARBON DIOXIDE _____ 0.3
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,037
		SPECIFIC GRAVITY _____ 0.577

SAMPLE	21052	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 87.7
COUNTY _____	LINCOLN	ETHANE _____ 8.2
FIELD _____	SEVEN MILE GULCH	PROPANE _____ 2.0
WELL NAME _____	SEVEN MILE GULCH UNIT NO. 20	N-BUTANE _____ 0.3
API _____	4902320744	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 22, T20N, R112W	N-PENTANE _____ 0.1
OWNER _____	BP AMERICA PRODUCTION CO.	ISOPENTANE _____ 0.1
COMPLETED _____	911024	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-DAKOTA, FRONTIER	NITROGEN _____ 0.5
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11330	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	2644	CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,121
		SPECIFIC GRAVITY _____ 0.638

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21029	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 82.4
COUNTY _____	CARBON	ETHANE _____ 6.0
FIELD _____	SIERRA MADRE	PROPANE _____ 6.1
WELL NAME _____	SIERRA MADRE NO. 15-19	N-BUTANE _____ 2.1
API _____	4900721649	ISOBUTANE _____ 0.8
LOCATION _____	SEC. 19, T13N, R89W	N-PENTANE _____ 0.5
OWNER _____	MERIT ENERGY CO.	ISOPENTANE _____ 0.5
COMPLETED _____	980218	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.8
FORMATION _____	CRET-SHANNON	NITROGEN _____ 0.7
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	3478	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,263
		SPECIFIC GRAVITY _____ 0.725

SAMPLE	21030	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 88.4
COUNTY _____	CARBON	ETHANE _____ 5.1
FIELD _____	SNOWBANK	PROPANE _____ 1.0
WELL NAME _____	SNOWBANK UNIT NO. 1	N-BUTANE _____ 0.2
API _____	4900721396	ISOBUTANE _____ 0.2
LOCATION _____	SEC. 31, T15N, R93W	N-PENTANE _____ 0.1
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ 0.1
COMPLETED _____	950827	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.2
FORMATION _____	CRET-ALMOND	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11364	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1000	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	617	CARBON DIOXIDE _____ 4.8
		HELIUM _____ 0.02
		HEATING VALUE* _____ 1,037
		SPECIFIC GRAVITY _____ 0.647

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21034	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 90.8
COUNTY _____	SWEETWATER	ETHANE _____ 4.9
FIELD _____	STAGE STOP	PROPANE _____ 1.3
WELL NAME _____	JEWEL FEDERAL NO. 1	N-BUTANE _____ 0.3
API _____	4903720382	ISOBUTANE _____ 0.3
LOCATION _____	SEC. 34, T18N, R99W	N-PENTANE _____ 0.1
OWNER _____	KAISER-FRANCIS OIL CO.	ISOPENTANE _____ 0.1
COMPLETED _____	730731	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-ALMOND	NITROGEN _____ 0.1
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	5556	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	10218	CARBON DIOXIDE _____ 2.0
		HELIUM _____ 0.03
		HEATING VALUE* _____ 1,074
		SPECIFIC GRAVITY _____ 0.627

SAMPLE	21049	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 85.5
COUNTY _____	LINCOLN	ETHANE _____ 6.7
FIELD _____	STEAD CANYON	PROPANE _____ 3.8
WELL NAME _____	EAST STEAD CANYON NO. 37-12	N-BUTANE _____ 1.1
API _____	4902321355	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 12, T26N, R112W	N-PENTANE _____ 0.3
OWNER _____	EOG RESOURCES, INC.	ISOPENTANE _____ 0.3
COMPLETED _____	970805	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.7
FORMATION _____	CRET-BAXTER	NITROGEN _____ 0.7
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	6866	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	720	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	232	CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1,196
		SPECIFIC GRAVITY _____ 0.682

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21033	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 84.3
COUNTY _____	SWEETWATER	ETHANE _____ 6.3
FIELD _____	TIERNEY	PROPANE _____ 2.9
WELL NAME _____	USA AMOCO S NO. 1	N-BUTANE _____ 0.7
API _____	4903721235	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 22, T20N, R94W	N-PENTANE _____ 0.2
OWNER _____	BP AMERICA PRODUCTION CO.	ISOPENTANE _____ 0.3
COMPLETED _____	790820	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-ALMOND	NITROGEN _____ 0.2
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	9816	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____		HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	679	CARBON DIOXIDE _____ 3.9
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1,127
		SPECIFIC GRAVITY _____ 0.693

SAMPLE	21305	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 78.1
COUNTY _____	SWEETWATER	ETHANE _____ 8.9
FIELD _____	TWO RIM	PROPANE _____ 4.2
WELL NAME _____	TWO RIM UNIT NO. 30-2	N-BUTANE _____ 0.9
API _____	4903724389	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 30, T19N, R94W	N-PENTANE _____ 0.2
OWNER _____	BP AMERICA PRODUCTION CO.	ISOPENTANE _____ 0.2
COMPLETED _____	010101	CYCLOPENTANE _____ --
SAMPLED _____	040414	HEXANES PLUS _____ 0.1
FORMATION _____	CRET-MESAVERDE	NITROGEN _____ 3.3
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	10016	ARGON _____ TRACE
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1000	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	300	CARBON DIOXIDE _____ 3.2
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1,131
		SPECIFIC GRAVITY _____ 0.717

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

SAMPLE	21053	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 82.6
COUNTY _____	UINTA	ETHANE _____ 9.7
FIELD _____	VERNE	PROPANE _____ 3.7
WELL NAME _____	CHAMPLIN 186 AMOCO H NO. 1	N-BUTANE _____ 0.8
API _____	4904120354	ISOBUTANE _____ 0.7
LOCATION _____	SEC. 1, T18N, R113W	N-PENTANE _____ 0.1
OWNER _____	BP AMERICA PRODUCTION CO.	ISOPENTANE _____ 0.3
COMPLETED _____	821104	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.3
FORMATION _____	CRET-DAKOTA, FRONTIER 2	NITROGEN _____ 0.8
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11520	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ 0.0
WELLHEAD PRESSURE, PSIG _____	1900	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	3208	CARBON DIOXIDE _____ 0.9
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1,181
		SPECIFIC GRAVITY _____ 0.685

SAMPLE	21051	COMPONENT, MOLE PCT
STATE _____	WYOMING	METHANE _____ 77.4
COUNTY _____	LINCOLN	ETHANE _____ 11.9
FIELD _____	WHISKEY BUTTE	PROPANE _____ 5.8
WELL NAME _____	HELVIG NO. 30-8	N-BUTANE _____ 1.2
API _____	4902321507	ISOBUTANE _____ 1.0
LOCATION _____	SEC. 8, T20N, R112W	N-PENTANE _____ 0.2
OWNER _____	CABOT OIL & GAS CORP.	ISOPENTANE _____ 0.4
COMPLETED _____	000209	CYCLOPENTANE _____ --
SAMPLED _____	021010	HEXANES PLUS _____ 0.5
FORMATION _____	CRET-DAKOTA, FRONTIER	NITROGEN _____ 0.8
GEOLOGIC PROVINCE CODE _____	535	OXYGEN _____ 0.0
TRUE VERTICAL DEPTH (FT) _____	11270	ARGON _____ 0.0
MEASURED DEPTH _____		HYDROGEN _____ TRACE
WELLHEAD PRESSURE, PSIG _____	500	HYDROGEN SULFIDE** _____ 0.0
OPEN FLOW, MCFD _____	1741	CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.08
		HEATING VALUE* _____ 1,259
		SPECIFIC GRAVITY _____ 0.733

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

T a b l e 2

***Samples from Natural Gas Pipelines
in the United States***

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21125	COMPONENT, MOLE PCT
STATE _____	COLORADO	METHANE _____ 96.9
COUNTY _____	LA PLATA	ETHANE _____ 0.1
FIELD _____		PROPANE _____ 0.0
PLANT _____	FLORIDA RIVER-COAL BED METHANE PLANT	N-BUTANE _____ 0.0
LOCATION _____	FUEL TO EL PASO NATURAL GAS	ISOBUTANE _____ 0.0
OWNER _____	BP AMERICA PRODUCTION CO.	N-PENTANE _____ 0.0
SAMPLED _____	021204	ISOPENTANE _____ 0.0
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	580	HEXANES PLUS _____ 0.0
PRESSURE, PSIG _____	500	NITROGEN _____ 1.2
FLOW, MCFD _____	350000	OXYGEN _____ 0.0
		ARGON _____ 0.0
		HYDROGEN _____ 0.0
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 1.8
		HELIUM _____ 0.00
		HEATING VALUE* _____ 984
		SPECIFIC GRAVITY _____ 0.577

SAMPLE	21288	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 86.6
COUNTY _____	CHAVES	ETHANE _____ 6.6
FIELD _____		PROPANE _____ 2.9
PLANT _____	LONG ARROYO "MQ" VALLEY CENTRAL POINT	N-BUTANE _____ 0.8
LOCATION _____	SEC. 25, T14S, R28E	ISOBUTANE _____ 0.4
OWNER _____	YATES PETROLEUM CO.	N-PENTANE _____ 0.2
SAMPLED _____	031021	ISOPENTANE _____ 0.3
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	430	HEXANES PLUS _____ 0.5
PRESSURE, PSIG _____	974	NITROGEN _____ 0.9
FLOW, MCFD _____	2784	OXYGEN _____ 0.0
		ARGON _____ 0.1
		HYDROGEN _____ 0.0
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 0.6
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,152
		SPECIFIC GRAVITY _____ 0.664

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21287	COMPONENT, MOLE PCT
STATE _____	<u>NEW MEXICO</u>	METHANE _____ <u>76.5</u>
COUNTY _____	<u>CHAVES</u>	ETHANE _____ <u>8.2</u>
FIELD _____		PROPANE _____ <u>4.7</u>
PLANT _____	<u>SLAYTON CDP CENTRAL POINT</u>	N-BUTANE _____ <u>1.6</u>
LOCATION _____	<u>SEC. 23, T14S, R27E</u>	ISOBUTANE _____ <u>0.8</u>
OWNER _____	<u>YATES PETROLEUM CO.</u>	N-PENTANE _____ <u>0.4</u>
SAMPLED _____	<u>031021</u>	ISOPENTANE _____ <u>0.5</u>
FORMATION _____	<u>-</u>	CYCLOPENTANE _____ <u>--</u>
GEOLOGIC PROVINCE CODE _____	<u>430</u>	HEXANES PLUS _____ <u>0.7</u>
PRESSURE, PSIG _____	<u>109</u>	NITROGEN _____ <u>5.8</u>
FLOW, MCFD _____	<u>12</u>	OXYGEN _____ <u>0.0</u>
		ARGON _____ <u>0.1</u>
		HYDROGEN _____ <u>TRACE</u>
		HYDROGEN SULFIDE _____ <u>0.0</u>
		CARBON DIOXIDE _____ <u>0.5</u>
		HELIUM _____ <u>0.12</u>
		HEATING VALUE* _____ <u>1.185</u>
		SPECIFIC GRAVITY _____ <u>0.737</u>

SAMPLE	21285	COMPONENT, MOLE PCT
STATE _____	<u>NEW MEXICO</u>	METHANE _____ <u>87.0</u>
COUNTY _____	<u>CHAVES</u>	ETHANE _____ <u>4.4</u>
FIELD _____		PROPANE _____ <u>1.8</u>
PLANT _____	<u>BITTER LAKE CENTRAL POINT</u>	N-BUTANE _____ <u>0.6</u>
LOCATION _____	<u>TRANSFER POINT</u>	ISOBUTANE _____ <u>0.3</u>
OWNER _____	<u>YATES PETROLEUM CO.</u>	N-PENTANE _____ <u>0.2</u>
SAMPLED _____	<u>031021</u>	ISOPENTANE _____ <u>0.2</u>
FORMATION _____	<u>-</u>	CYCLOPENTANE _____ <u>--</u>
GEOLOGIC PROVINCE CODE _____	<u>430</u>	HEXANES PLUS _____ <u>0.5</u>
PRESSURE, PSIG _____	<u>950</u>	NITROGEN _____ <u>4.2</u>
FLOW, MCFD _____	<u>45000</u>	OXYGEN _____ <u>0.0</u>
		ARGON _____ <u>0.2</u>
		HYDROGEN _____ <u>TRACE</u>
		HYDROGEN SULFIDE _____ <u>0.0</u>
		CARBON DIOXIDE _____ <u>0.3</u>
		HELIUM _____ <u>0.33</u>
		HEATING VALUE* _____ <u>1.074</u>
		SPECIFIC GRAVITY _____ <u>0.646</u>

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21286	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 87.3
COUNTY _____	CHAVES	ETHANE _____ 3.9
FIELD _____		PROPANE _____ 1.5
PLANT _____	RED BLUFF CENTRAL POINT	N-BUTANE _____ 0.6
LOCATION _____	SEC. 2, T8S, R25E	ISOBUTANE _____ 0.3
OWNER _____	YATES PETROLEUM CO.	N-PENTANE _____ 0.2
SAMPLED _____	031021	ISOPENTANE _____ 0.2
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	430	HEXANES PLUS _____ 0.4
PRESSURE, PSIG _____	950	NITROGEN _____ 4.9
FLOW, MCFD _____	28000	OXYGEN _____ 0.0
		ARGON _____ 0.1
		HYDROGEN _____ TRACE
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 0.2
		HELIUM _____ 0.38
		HEATING VALUE* _____ 1.054
		SPECIFIC GRAVITY _____ 0.639

SAMPLE	21106	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 84.1
COUNTY _____	LEA	ETHANE _____ 7.9
FIELD _____		PROPANE _____ 3.6
PLANT _____	NORTH VERSADO (TOWNSEND)	N-BUTANE _____ 1.0
LOCATION _____	14" INLET	ISOBUTANE _____ 0.5
OWNER _____	DYNEGY CORP.	N-PENTANE _____ 0.2
SAMPLED _____	021202	ISOPENTANE _____ 0.3
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	430	HEXANES PLUS _____ 0.3
PRESSURE, PSIG _____	646	NITROGEN _____ 1.1
FLOW, MCFD _____	7919	OXYGEN _____ 0.0
		ARGON _____ 0.0
		HYDROGEN _____ 0.0
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 1.1
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1.162
		SPECIFIC GRAVITY _____ 0.679

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21108	COMPONENT, MOLE PCT
STATE _____	<u>NEW MEXICO</u>	METHANE _____ <u>83.6</u>
COUNTY _____	<u>LEA</u>	ETHANE _____ <u>7.7</u>
FIELD _____		PROPANE _____ <u>3.7</u>
PLANT _____	<u>LINAM PLANT</u>	N-BUTANE _____ <u>1.1</u>
LOCATION _____	<u>EDDY LINE, 12"</u>	ISOBUTANE _____ <u>0.6</u>
OWNER _____	<u>DUKE ENERGY CORP.</u>	N-PENTANE _____ <u>0.3</u>
SAMPLED _____	<u>021202</u>	ISOPENTANE _____ <u>0.3</u>
FORMATION _____	<u>-</u>	CYCLOPENTANE _____ <u>--</u>
GEOLOGIC PROVINCE CODE _____	<u>430</u>	HEXANES PLUS _____ <u>0.4</u>
PRESSURE, PSIG _____		NITROGEN _____ <u>1.4</u>
FLOW, MCFD _____	<u>59000</u>	OXYGEN _____ <u>0.0</u>
		ARGON _____ <u>0.0</u>
		HYDROGEN _____ <u>0.0</u>
		HYDROGEN SULFIDE _____ <u>0.0</u>
		CARBON DIOXIDE _____ <u>0.9</u>
		HELIUM _____ <u>0.06</u>
		HEATING VALUE* _____ <u>1.174</u>
		SPECIFIC GRAVITY _____ <u>0.687</u>

SAMPLE	21109	COMPONENT, MOLE PCT
STATE _____	<u>NEW MEXICO</u>	METHANE _____ <u>81.6</u>
COUNTY _____	<u>LEA</u>	ETHANE _____ <u>8.6</u>
FIELD _____		PROPANE _____ <u>4.3</u>
PLANT _____	<u>LINAM PLANT</u>	N-BUTANE _____ <u>1.3</u>
LOCATION _____	<u>LEA COUNTY INLET LINE, 12"</u>	ISOBUTANE _____ <u>0.6</u>
OWNER _____	<u>DUKE ENERGY CORP.</u>	N-PENTANE _____ <u>0.3</u>
SAMPLED _____	<u>021202</u>	ISOPENTANE _____ <u>0.3</u>
FORMATION _____	<u>-</u>	CYCLOPENTANE _____ <u>--</u>
GEOLOGIC PROVINCE CODE _____	<u>430</u>	HEXANES PLUS _____ <u>0.5</u>
PRESSURE, PSIG _____		NITROGEN _____ <u>1.6</u>
FLOW, MCFD _____	<u>42000</u>	OXYGEN _____ <u>0.0</u>
		ARGON _____ <u>0.0</u>
		HYDROGEN _____ <u>0.0</u>
		HYDROGEN SULFIDE _____ <u>0.0</u>
		CARBON DIOXIDE _____ <u>0.8</u>
		HELIUM _____ <u>0.07</u>
		HEATING VALUE* _____ <u>1.199</u>
		SPECIFIC GRAVITY _____ <u>0.703</u>

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21113	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 77.0
COUNTY _____	LEA	ETHANE _____ 9.8
FIELD _____		PROPANE _____ 5.6
PLANT _____	JAL NO. 4 GAS PLANT	N-BUTANE _____ 1.8
LOCATION _____	FEED TO JAL NO. 3, HIGH PRESSURE	ISOBUTANE _____ 0.7
OWNER _____	SID RICHARDSON GASOLINE	N-PENTANE _____ 0.4
SAMPLED _____	021203	ISOPENTANE _____ 0.4
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	430	HEXANES PLUS _____ 0.4
PRESSURE, PSIG _____	605	NITROGEN _____ 1.9
FLOW, MCFD _____	32000	OXYGEN _____ 0.0
		ARGON _____ 0.0
		HYDROGEN _____ TRACE
		HYDROGEN SULFIDE _____ 0.3
		CARBON DIOXIDE _____ 1.5
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,230
		SPECIFIC GRAVITY _____ 0.742

SAMPLE	21114	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 75.2
COUNTY _____	LEA	ETHANE _____ 10.0
FIELD _____		PROPANE _____ 5.9
PLANT _____	EUNICE PLANT	N-BUTANE _____ 2.0
LOCATION _____	NORTH/SOUTH INLET, METER 41	ISOBUTANE _____ 0.8
OWNER _____	DYNEGY CORP.	N-PENTANE _____ 0.5
SAMPLED _____	021203	ISOPENTANE _____ 0.5
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	430	HEXANES PLUS _____ 0.8
PRESSURE, PSIG _____		NITROGEN _____ 1.8
FLOW, MCFD _____	90800	OXYGEN _____ 0.0
		ARGON _____ 0.0
		HYDROGEN _____ TRACE
		HYDROGEN SULFIDE _____ 0.4
		CARBON DIOXIDE _____ 2.0
		HELIUM _____ 0.07
		HEATING VALUE* _____ 1,256
		SPECIFIC GRAVITY _____ 0.767

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21110	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 76.3
COUNTY _____	LEA	ETHANE _____ 9.1
FIELD _____		PROPANE _____ 5.4
PLANT _____	EUNICE NATURAL GAS PLANT	N-BUTANE _____ 2.0
LOCATION _____	"P" LINE, 6", FROM SAND DUNES	ISOBUTANE _____ 0.8
OWNER _____	DUKE ENERGY CORP.	N-PENTANE _____ 0.7
SAMPLED _____	021202	ISOPENTANE _____ 0.7
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	430	HEXANES PLUS _____ 0.4
PRESSURE, PSIG _____		NITROGEN _____ 3.3
FLOW, MCFD _____	17000	OXYGEN _____ 0.0
		ARGON _____ 0.0
		HYDROGEN _____ TRACE
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 1.3
		HELIUM _____ 0.08
		HEATING VALUE* _____ 1.233
		SPECIFIC GRAVITY _____ 0.752

SAMPLE	21111	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 75.8
COUNTY _____	LEA	ETHANE _____ 8.6
FIELD _____		PROPANE _____ 5.6
PLANT _____	EUNICE NATURAL GAS PLANT	N-BUTANE _____ 2.1
LOCATION _____	12", 200 PSI LINE FROM CORRIDOR EAST OF PLANT	ISOBUTANE _____ 0.9
OWNER _____	DUKE ENERGY CORP.	N-PENTANE _____ 0.5
SAMPLED _____	021202	ISOPENTANE _____ 0.6
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	430	HEXANES PLUS _____ 0.6
PRESSURE, PSIG _____		NITROGEN _____ 2.4
FLOW, MCFD _____	74000	OXYGEN _____ 0.0
		ARGON _____ 0.0
		HYDROGEN _____ 0.1
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 2.9
		HELIUM _____ 0.09
		HEATING VALUE* _____ 1.230
		SPECIFIC GRAVITY _____ 0.765

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21112	COMPONENT, MOLE PCT
STATE _____	<u>NEW MEXICO</u>	METHANE _____ <u>71.7</u>
COUNTY _____	<u>LEA</u>	ETHANE _____ <u>9.5</u>
FIELD _____		PROPANE _____ <u>6.5</u>
PLANT _____	<u>JAL NO. 3 GAS PLANT</u>	N-BUTANE _____ <u>2.7</u>
LOCATION _____	<u>LEA COUNTY LOW PRESSURE GAS</u>	ISOBUTANE _____ <u>0.9</u>
OWNER _____	<u>SID RICHARDSON GASOLINE</u>	N-PENTANE _____ <u>0.8</u>
SAMPLED _____	<u>021203</u>	ISOPENTANE _____ <u>0.8</u>
FORMATION _____	<u>-</u>	CYCLOPENTANE _____ <u>--</u>
GEOLOGIC PROVINCE CODE _____	<u>430</u>	HEXANES PLUS _____ <u>1.3</u>
PRESSURE, PSIG _____		NITROGEN _____ <u>3.0</u>
FLOW, MCFD _____	<u>64500</u>	OXYGEN _____ <u>0.3</u>
		ARGON _____ <u>0.0</u>
		HYDROGEN _____ <u>TRACE</u>
		HYDROGEN SULFIDE _____ <u>0.5</u>
		CARBON DIOXIDE _____ <u>2.0</u>
		HELIUM _____ <u>0.09</u>
		HEATING VALUE* _____ <u>1.302</u>
		SPECIFIC GRAVITY _____ <u>0.813</u>

SAMPLE	21107	COMPONENT, MOLE PCT
STATE _____	<u>NEW MEXICO</u>	METHANE _____ <u>74.2</u>
COUNTY _____	<u>LEA</u>	ETHANE _____ <u>10.9</u>
FIELD _____		PROPANE _____ <u>6.5</u>
PLANT _____	<u>LINAM PLANT</u>	N-BUTANE _____ <u>1.8</u>
LOCATION _____	<u>BUCKEYE LINE, 10"</u>	ISOBUTANE _____ <u>1.0</u>
OWNER _____	<u>DUKE ENERGY CORP.</u>	N-PENTANE _____ <u>0.3</u>
SAMPLED _____	<u>021202</u>	ISOPENTANE _____ <u>0.3</u>
FORMATION _____	<u>-</u>	CYCLOPENTANE _____ <u>--</u>
GEOLOGIC PROVINCE CODE _____	<u>430</u>	HEXANES PLUS _____ <u>0.3</u>
PRESSURE, PSIG _____		NITROGEN _____ <u>2.2</u>
FLOW, MCFD _____	<u>38800</u>	OXYGEN _____ <u>0.0</u>
		ARGON _____ <u>0.0</u>
		HYDROGEN _____ <u>TRACE</u>
		HYDROGEN SULFIDE _____ <u>0.5</u>
		CARBON DIOXIDE _____ <u>2.0</u>
		HELIUM _____ <u>0.09</u>
		HEATING VALUE* _____ <u>1.240</u>
		SPECIFIC GRAVITY _____ <u>0.759</u>

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21104	COMPONENT, MOLE PCT
STATE _____	<u>NEW MEXICO</u>	METHANE _____ <u>63.1</u>
COUNTY _____	<u>LEA</u>	ETHANE _____ <u>10.9</u>
FIELD _____		PROPANE _____ <u>6.9</u>
PLANT _____	<u>NORTH VERSADO</u>	N-BUTANE _____ <u>2.3</u>
LOCATION _____	<u>16" INLET</u>	ISOBUTANE _____ <u>0.9</u>
OWNER _____	<u>DYNEGY CORP.</u>	N-PENTANE _____ <u>0.5</u>
SAMPLED _____	<u>021202</u>	ISOPENTANE _____ <u>0.6</u>
FORMATION _____	<u>-</u>	CYCLOPENTANE _____ <u>--</u>
GEOLOGIC PROVINCE CODE _____	<u>430</u>	HEXANES PLUS _____ <u>1.0</u>
PRESSURE, PSIG _____	<u>4</u>	NITROGEN _____ <u>10.5</u>
FLOW, MCFD _____	<u>16906</u>	OXYGEN _____ <u>1.5</u>
		ARGON _____ <u>0.0</u>
		HYDROGEN _____ <u>0.0</u>
		HYDROGEN SULFIDE _____ <u>TRACE</u>
		CARBON DIOXIDE _____ <u>1.7</u>
		HELIUM _____ <u>0.10</u>
		HEATING VALUE* _____ <u>1.204</u>
		SPECIFIC GRAVITY _____ <u>0.833</u>

SAMPLE	21103	COMPONENT, MOLE PCT
STATE _____	<u>NEW MEXICO</u>	METHANE _____ <u>69.3</u>
COUNTY _____	<u>LEA</u>	ETHANE _____ <u>8.8</u>
FIELD _____		PROPANE _____ <u>5.2</u>
PLANT _____	<u>VADA BOOSTER</u>	N-BUTANE _____ <u>1.6</u>
LOCATION _____	<u>10" INLET, NORTH SIDE</u>	ISOBUTANE _____ <u>0.7</u>
OWNER _____	<u>DYNEGY CORP.</u>	N-PENTANE _____ <u>0.3</u>
SAMPLED _____	<u>021202</u>	ISOPENTANE _____ <u>0.3</u>
FORMATION _____	<u>-</u>	CYCLOPENTANE _____ <u>--</u>
GEOLOGIC PROVINCE CODE _____	<u>430</u>	HEXANES PLUS _____ <u>0.3</u>
PRESSURE, PSIG _____	<u>740</u>	NITROGEN _____ <u>6.2</u>
FLOW, MCFD _____	<u>16088</u>	OXYGEN _____ <u>0.0</u>
		ARGON _____ <u>0.0</u>
		HYDROGEN _____ <u>TRACE</u>
		HYDROGEN SULFIDE _____ <u>0.8</u>
		CARBON DIOXIDE _____ <u>6.3</u>
		HELIUM _____ <u>0.13</u>
		HEATING VALUE* _____ <u>1.108</u>
		SPECIFIC GRAVITY _____ <u>0.79</u>

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21105	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 70.2
COUNTY _____	LEA	ETHANE _____ 10.5
FIELD _____		PROPANE _____ 7.1
PLANT _____	NORTH VERSADO	N-BUTANE _____ 2.8
LOCATION _____	24" INLET	ISOBUTANE _____ 1.1
OWNER _____	DYNEGY CORP.	N-PENTANE _____ 0.8
SAMPLED _____	021202	ISOPENTANE _____ 0.8
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	430	HEXANES PLUS _____ 1.6
PRESSURE, PSIG _____	6	NITROGEN _____ 3.5
FLOW, MCFD _____	9035	OXYGEN _____ 0.2
		ARGON _____ 0.0
		HYDROGEN _____ TRACE
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 1.2
		HELIUM _____ 0.13
		HEATING VALUE* _____ 1.345
		SPECIFIC GRAVITY _____ 0.828

SAMPLE	21121	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 81.5
COUNTY _____	SAN JUAN	ETHANE _____ 0.4
FIELD _____		PROPANE _____ 0.1
PLANT _____	VALVERDE PLANT	N-BUTANE _____ TRACE
LOCATION _____	16" PLANT INLET - STREAM 6	ISOBUTANE _____ TRACE
OWNER _____	DUKE ENERGY CORP.	N-PENTANE _____ TRACE
SAMPLED _____	021203	ISOPENTANE _____ TRACE
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	580	HEXANES PLUS _____ TRACE
PRESSURE, PSIG _____	660	NITROGEN _____ 0.0
FLOW, MCFD _____	415000	OXYGEN _____ 0.0
		ARGON _____ 0.0
		HYDROGEN _____ 0.0
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 17.9
		HELIUM _____ 0.00
		HEATING VALUE* _____ 836
		SPECIFIC GRAVITY _____ 0.731

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21118	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 93.7
COUNTY _____	SAN JUAN	ETHANE _____ 2.9
FIELD _____		PROPANE _____ 0.7
PLANT _____	CHACO PLANT	N-BUTANE _____ 0.2
LOCATION _____	BISTI 16" INLET 02-662-01	ISOBUTANE _____ 0.1
OWNER _____	EL PASO NATURAL GAS CO.	N-PENTANE _____ 0.1
SAMPLED _____	021203	ISOPENTANE _____ 0.1
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	580	HEXANES PLUS _____ 0.1
PRESSURE, PSIG _____	56	NITROGEN _____ 0.4
FLOW, MCFD _____	16989	OXYGEN _____ 0.0
		ARGON _____ 0.0
		HYDROGEN _____ 0.0
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 1.8
		HELIUM _____ 0.01
		HEATING VALUE* _____ 1.036
		SPECIFIC GRAVITY _____ 0.603

SAMPLE	21117	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 86.5
COUNTY _____	SAN JUAN	ETHANE _____ 6.9
FIELD _____		PROPANE _____ 3.1
PLANT _____	CHACO PLANT	N-BUTANE _____ 0.9
LOCATION _____	"B" INLET 01-857-01, 30"	ISOBUTANE _____ 0.6
OWNER _____	EL PASO NATURAL GAS CO.	N-PENTANE _____ 0.2
SAMPLED _____	021203	ISOPENTANE _____ 0.3
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	580	HEXANES PLUS _____ 0.5
PRESSURE, PSIG _____	160	NITROGEN _____ 0.4
FLOW, MCFD _____	229029	OXYGEN _____ 0.0
		ARGON _____ TRACE
		HYDROGEN _____ 0.0
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 0.7
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1.164
		SPECIFIC GRAVITY _____ 0.667

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

SAMPLE	21116	COMPONENT, MOLE PCT
STATE _____	NEW MEXICO	METHANE _____ 85.8
COUNTY _____	SAN JUAN	ETHANE _____ 6.8
FIELD _____		PROPANE _____ 3.1
PLANT _____	CHACO PLANT	N-BUTANE _____ 0.9
LOCATION _____	"A" INLET 01-261-01, 30"	ISOBUTANE _____ 0.6
OWNER _____	EL PASO NATURAL GAS CO.	N-PENTANE _____ 0.2
SAMPLED _____	021203	ISOPENTANE _____ 0.3
FORMATION _____	-	CYCLOPENTANE _____ --
GEOLOGIC PROVINCE CODE _____	580	HEXANES PLUS _____ 0.5
PRESSURE, PSIG _____	159	NITROGEN _____ 0.4
FLOW, MCFD _____	306329	OXYGEN _____ 0.0
		ARGON _____ TRACE
		HYDROGEN _____ 0.0
		HYDROGEN SULFIDE _____ 0.0
		CARBON DIOXIDE _____ 1.5
		HELIUM _____ 0.06
		HEATING VALUE* _____ 1.155
		SPECIFIC GRAVITY _____ 0.674

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

P r e v i o u s P u b l i c a t i o n s i n t h e H e l i u m S u r v e y S e r i e s

1. Anderson, C.C., and H.H. Hinson. Helium-Bearing Natural Gases of the United States. Analyses and Analytical Methods. BuMines Bulletin 486, 1951, 141 pp.
2. Boone, W.J., Jr. Helium-Bearing Natural Gases of the United States. Analyses and Analytical Methods. Supplement to Bulletin 486. BuMines Bulletin 576, 1958, 117pp.
3. Munnerlyn, R.D., and R.D. Miller. Helium-Bearing Natural Gases of the United States: Analyses. Second Supplement to Bulletin 486. BuMines Bulletin 617, 1963, 93pp.
4. Miller, R.D., and G.P. Norrell. Analyses of Natural Gases of the United States, 1961. BuMines IC 8221, 1964, 148 pp.
5. _____. Analyses of Natural Gases of the United States, 1962. BuMines IC 8239, 1964, 120 pp.
6. _____. Analyses of Natural Gases of the United States, 1963. BuMines IC 8241, 1965, 102 pp.
7. Moore, B.J., R.D. Miller, and R.D. Shrewsbury. Analyses of Natural Gases of the United States, 1964. BuMines IC 8302, 1966, 144 pp.
8. Moore, B.J., and R.D. Shrewsbury. Analyses of Natural Gases of the United States, 1965. BuMines IC 8316, 1966, 181 pp.
9. _____. Analyses of Natural Gases, 1966. BuMines IC 8356, 1967, 130 pp.
10. _____. Analyses of Natural Gases, 1967. BuMines IC 8395, 1968, 187 pp.
11. Cardwell, L.E., and L.F. Benton. Analyses of Natural Gases, 1968. BuMines IC 8443, 1970, 169 pp.
12. _____. Analyses of Natural Gases, 1969. BuMines IC 8475, 1970, 134 pp.
13. _____. Analyses of Natural Gases, 1970. BuMines IC 8518, 1971, 130 pp.
14. _____. Analyses of Natural Gases, 1971. BuMines IC 8554, 1972, 163 pp.
15. _____. Analyses of Natural Gases, 1972. BuMines IC 8607, 1973, 104 pp.

16. Moore, B.J. *Analyses of Natural Gases*, 1973. BuMines IC 8658, 1974, 96 pp.
17. _____. *Analyses of Natural Gases*, 1974. BuMines IC 8684, 1975, 122 pp.
18. _____. *Analyses of Natural Gases*, 1917–74. BuMines CP 1-76, 1976, 889 pp.; NTIS PB 251-202.
19. _____. *Analyses of Natural Gases*, 1975. BuMines IC 8717, 1976, 82 pp.
20. _____. *Analyses of Natural Gases*, 1976. BuMines IC 8749, 1977, 94 pp.
21. _____. *Analyses of Natural Gases*, 1977. BuMines IC 8780, 1978, 95 pp.
22. _____. *Analyses of Natural Gases*, 1978. BuMines IC 8810, 1979, 113 pp.
23. _____. *Analyses of Natural Gases*, 1979. BuMines IC 8833, 1980, 100 pp.
24. _____. *Analyses of Natural Gases*, 1980. BuMines IC 8856, 1981, 236 pp.
25. _____. *Analyses of Natural Gases*, 1917–80. BuMines IC 8870, 1982, 1055 pp.
26. Miller, R.D., and F.R. Hertweck, Jr. *Analyses of Natural Gases*, 1981. BuMines IC 8890, 1982, 84 pp.
27. _____. *Analyses of Natural Gases*, 1982. BuMines IC 8942, 1983, 100 pp.
28. Hertweck, F.R., Jr., and D.D. Fox. *Analyses of Natural Gases*, 1983. BuMines IC 8993, 1984, 127 pp.
29. Moore, B.J., and J.E. Hamak. *Analyses of Natural Gases*, 1984. BuMines IC9046, 1985, 102 pp.
30. Moore, B.J., and S. Sigler. *Analyses of Natural Gases*, 1985. BuMines IC9096, 1986, 182 pp.
31. _____. *Analyses of Natural Gases*, 1917–85. BuMines IC 9129, 1987, 1197 pp.
32. _____. *Analyses of Natural Gases*, 1986. BuMines IC 9167, 1988, 101 pp.
33. _____. *Analyses of Natural Gases*, 1987. BuMines IC 9188, 1988, 74 pp.

34. Hamak, J.E., and S. Sigler. *Analyses of Natural Gases*, 1988. BuMines IC9225, 1989, 66 pp.
35. _____. *Analyses of Natural Gases*, 1989. BuMines IC 9256, 1990, 60 pp.
36. _____. *Analyses of Natural Gases*, 1990. BuMines IC 9290, 1991, 56 pp.
37. _____. *Analyses of Natural Gases*, 1986–1990. BuMines IC 9301, 1991, 315 pp.
38. Hamak, J.E., and B.D. Gage. *Analyses of Natural Gases*, 1991. BuMines IC9318, 1992, 97 pp.
39. Hamak, J.E., and Stella M. Sigler. *Analyses of Natural Gases*, 1992. BuMines IC 9356, 1993, 62 pp.
40. Sigler, Stella M. *Analyses of Natural Gases*, 1993. BuMines IC 9400, 1994, 58 pp.
41. Hamak, J.E., and D.L. Driskill. *Analyses of Natural Gases*, 1994–95. Bureau of Land Management, Technical Note 399, 1996, 68 pp.
42. Gage, B.D., and D.L. Driskill. *Analyses of Natural Gases*, 1996–1997. Bureau of Land Management, Technical Note 404, 1998, 71 pp.
43. Gage, B.D., and D.L. Driskill. *Analyses of Natural Gases*, 1998–2001. Bureau of Land Management, Technical Note 412, 2003, 173 pp.

The mention of company names, trade names, or commercial products does not constitute endorsement or recommendation for use by the Federal Government.

