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Analyses of Natural Gases, 1974



UNITED STATES DEPARTMENT OF THE INTERIOR

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Analyses of Natural Gases, 1974

By B. J. Moore

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UNITED STATES DEPARTMENT OF THE INTERIOR
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ANALYSES OF NATURAL GASES, 1974

by

B. J. Moore¹

INTRODUCTION

This publication contains analyses and related source data for 352 natural gas samples from wells and pipelines in 18 States and 5 foreign countries. All of the samples were obtained and analyzed during calendar year 1974 as a part of Bureau of Mines investigations of the occurrences of helium in natural gases of countries with free market economies. This survey has been conducted in the United States by the Bureau of Mines since 1917. In late 1965, the survey was expanded to include foreign gasfields. The analyses published herein were made by mass spectrometer and a special helium analysis apparatus, which are described in Bureau of Mines Bulletins 486² and 576.³

The results of the investigation of the occurrences of helium are published annually to make the information available as soon as possible to the gas industry and the public in general. Sixteen previous publications have presented the results of 10,479 gas analyses prior to 1974. The first three, Bulletins 486,⁴ 576,⁵ and 617,⁶ contain analyses and related source data on

¹Chief, Section of Helium Resources Surveys, Branch of Helium Resources.

²Anderson, C. C., and H. H. Hinson. Helium-Bearing Natural Gases of the United States. Analyses and Analytical Methods. BuMines Bull. 486, 1951, 141 pp.

³Boone, W. J., Jr. Helium-Bearing Natural Gases of the United States. Analyses and Analytical Methods. Supplement to Bulletin 486. BuMines Bull. 576, 1958, 117 pp.

⁴Work cited in footnote 2.

⁵Work cited in footnote 3.

⁶Munnerlyn, R. D., and R. D. Miller. Helium-Bearing Natural Gases of the United States: Analyses. Second Supplement to Bulletin 486. BuMines Bull. 617, 1963, 93 pp.

5,218 gas samples collected from 1917 through 1960. The other 13 publications,⁷ which were issued as information circulars, supplement the three bulletins and contain 5,261 analyses of samples collected since 1960. This publication is the 14th publication supplementing the three bulletins.

In addition to being included in the publications, all published analyses and related information are available on a magnetic tape file. The tape is available from the National Technical Information Service, Springfield, Va. 22161, as Bureau of Mines Tape PB 234-511, \$97.50.

ACKNOWLEDGMENTS

The helium survey program is conducted by soliciting natural gas samples throughout the United States and other countries with free market economies. Without the assistance of the oil and gas industry, State and national agencies, and many individuals engaged in oil and gas exploration and production, the helium survey with its present scope would be impossible.

The analyses listed in the tables were made by the Technical Services Unit of the Section of Chemical Engineering, Helium Operations, Bureau of Mines, Amarillo, Tex. The list of analyses was produced through use of a computer by the Section of Automatic Data Processing, Helium Operations, Bureau of Mines, Amarillo, Tex.

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- ⁷Miller, R. D., and G. P. Norrell. Analyses of Natural Gases of the United States, 1961. BuMines IC 8221, 1964, 148 pp.
Miller, R. D., and G. P. Norrell. Analyses of Natural Gases of the United States, 1962. BuMines IC 8239, 1964, 120 pp.
Miller, R. D., and G. P. Norrell. Analyses of Natural Gases of the United States, 1963. BuMines IC 8241, 1965, 102 pp.
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.
Moore, B. J., and R. D. Shrewsbury. Analyses of Natural Gases of the United States, 1965. BuMines IC 8316, 1966, 181 pp.
Moore, B. J., and R. D. Shrewsbury. Analyses of Natural Gases, 1966. BuMines IC 8356, 1967, 130 pp.
Moore, B. J., and R. D. Shrewsbury. Analyses of Natural Gases, 1967. BuMines IC 8395, 1968, 187 pp.
Cardwell, L. E., and L. F. Benton. Analyses of Natural Gases, 1968. BuMines IC 8443, 1969, 169 pp.
Cardwell, L. E., and L. F. Benton. Analyses of Natural Gases, 1969. BuMines IC 8475, 1970, 134 pp.
Cardwell, L. E., and L. F. Benton. Analyses of Natural Gases, 1970. BuMines IC 8518, 1971, 130 pp.
Cardwell, L. E., and L. F. Benton. Analyses of Natural Gases, 1971. BuMines IC 8554, 1972, 163 pp.
Cardwell, L. E., and L. F. Benton. Analyses of Natural Gases, 1972. BuMines IC 8607, 1973, 104 pp.
Moore, B. J. Analyses of Natural Gases, 1973. BuMines IC 8658, 1974, 96 pp.

TABLES

The following tables include the results of analyses and related source data from gas samples, which are divided into four groups as follows:

Table 1. - Samples from gas and oil wells in the United States.

Table 2. - Samples from pipelines in the United States.

Table 3. - Samples from gas and oil wells in foreign countries.

Table 4. - Samples from pipelines in foreign countries.

The following list indicates the sources of the samples listed in the tables:

<u>Source</u>	<u>Number of samples</u>	<u>Tables</u>
Alabama.....	3	2
Alaska.....	13	1
Arkansas.....	19	1, 2
California.....	48	1, 2
Colorado.....	4	1
Kansas.....	14	1
Louisiana.....	53	1
Michigan	4	1
Mississippi.....	11	1, 2
Montana.....	4	1
New Mexico.....	13	1
North Dakota.....	1	1
Oklahoma.....	35	1
Pennsylvania.....	5	1
Texas.....	95	1, 2
Utah.....	1	1
West Virginia.....	4	1
Wyoming.....	8	1
Australia.....	1	3
Ethiopia.....	1	3
Netherlands.....	2	4
Norway.....	1	4
Taiwan.....	12	3

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.

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

	INDEX SAMPLE 14033	INDEX SAMPLE 14047	INDEX SAMPLE 14119
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	AK PENINSULA	AK PENINSULA	COPPER RIVER BASIN
FIELD.....	NATURAL GAS SEEP	NATURAL GAS SEEP	NATURAL GAS SEEP
WELL NAME.....	AREA HOT SPRING	SALMON CREEK	JOHNSON CREEK SEEP
LOCATION.....	SFC. 2, T29S, R44W (SM)	SFC. 13, T30S, R41W	SEC. 7, T22S, R21E
OWNER.....	STATE OF ALASKA	ALASKA	U.S. BUREAU OF MINES
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	06/24/74	07/06/74	07/16/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	10.7	15.7	96.0
ETHANE.....	0.4	0.2	TRACE
PROPANE.....	0.1	TRACE	TRACE
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	23.2	2.5	2.0
OXYGEN.....	TRACE	0.3	0.0
ARGON.....	0.4	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	65.3	81.3	1.9
HELIUM.....	0.01	0.01	TRACE
HEATING VALUE*.....	118	163	972

* 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

	INDEX SAMPLE 14120	INDEX SAMPLE 14121	INDEX SAMPLE 14032
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	COPPER RIVER BASIN	COPPER RIVER BASIN	KFJULIK RIVER
FIELD.....	NATURAL GAS SEEP	NATURAL GAS SEEP	NATURAL GAS SEEP
WELL NAME.....	CROOKED CREEK SEEP	JOHNSON CREEK SEEP	KFJULIK RIVER
LOCATION.....	SEC. 35, T21S, R19E	SEC. 7, T22S, R21E	SEC. 34, T26S, R38W (SM)
OWNER.....	U.S. BUREAU OF MINES	U.S. BUREAU OF MINES	STATE OF ALASKA
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	07/--/74	07/--/74	06/24/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
DEPTH, FEET.....	NOT GIVFN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	93.1	84.1	73.6
ETHANE.....	2.0	0.5	TRACE
PROPANE.....	0.5	0.1	TRACE
N-BUTANE.....	TRACE	TRACE	0.0
ISOBUTANE.....	0.1	TRACE	0.0
N-PENTANE.....	0.0	TRACE	0.0
ISOPENTANE.....	0.1	0.0	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	TRACE	TRACE	0.0
NITROGEN.....	0.7	5.9	25.8
OXYGEN.....	0.1	1.3	0.0
ARGON.....	TRACE	0.1	0.5
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.3	8.0	TRACE
HELIUM.....	TRACE	TRACE	0.01
HEATING VALUE*.....	1000	863	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

	INDEX 7 SAMPLE 14003	INDEX 8 SAMPLE 13980	INDEX 9 SAMPLE 13985
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	NOT GIVFN	NOT GIVEN	NOT GIVEN
FIELD.....	BARROW S	BARROW S NO. 2	BARROW S NO. 2
WELL NAME.....	BARROW S NO. 12	BARROW S. NO. 12	BARROW S NO. 12
LOCATION.....	SFC. 23, T24N, R17W	SEC. 23, T24N, R17W	SFC. 23, T24N, R17W
OWNER.....	U.S. NAVY	U.S. NAVY	U.S. NAVY
COMPLETED.....	05/04/74	DRILL STEM TEST	NOT GIVEN
SAMPLED.....	05/05/74	04/21/74	NOT GIVEN
FORMATION.....	JURA-BARROW	JURA-BARROW	JURA-BARROW
DEPTH, FEET.....	2087	2087	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	810	810	300
OPEN FLOW, MCFD.....	500	500	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	90.6	87.3	87.8
ETHANE.....	0.7	0.4	0.4
PROPANE.....	TRACE	0.1	TRACE
N-BUTANE.....	0.1	0.1	0.1
ISOBUTANE.....	TRACE	0.1	TRACE
N-PENTANE.....	TRACE	TRACE	TRACE
ISOPENTANE.....	0.1	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	0.1	TRACE
NITROGEN.....	5.6	7.9	7.7
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.2	0.1
HELIUM.....	2.60	3.74	3.69
HEATING VALUE*.....	938	910	904

* 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

	INDEX SAMPLE 14048	INDEX SAMPLE 14050	INDEX SAMPLE 14051
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	NOT GIVEN	NOT GIVEN	SEWARD MERIDIAN
FIELD.....	GAS SEEP	GAS SEEP	GAS SEEP
WELL NAME.....	OIL CREEK	BLUE CREEK	GAS ROCKS
LOCATION.....	SFC. 3, T29S, R40W	SFC. 13, T29S, R44W	SEC. 9, T27S, R44W
OWNER.....	NOT GIVEN	NOT GIVEN	STATE OF ALASKA
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	07/06/74	07/06/74	07/06/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	91.2	7.2	0.1
ETHANE.....	TRACE	0.0	0.0
PROPANE.....	TRACE	TRACE	TRACE
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	6.7	20.6	12.3
OXYGEN.....	TRACE	1.8	3.0
ARGON.....	0.1	0.3	0.2
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.9	70.1	84.5
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	924	73	1

* 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

	INDFX SAMPLE 14118	INDFX SAMPLE 13888	INDFX SAMPLE 14180
STATE	ALASKA	ARKANSAS	ARKANSAS
COUNTY.....	SEWARD MERIDIAN	COLUMBIA	JOHNSON
FIELD.....	NOT GIVEN	CHALYBEAT SPRINGS	ALTUS
WELL NAME.....	WARFIELD SFFP	DELTIC UNIT NO. 1	WOODROW HOING NO. 1-28
LOCATION.....	SFC. 20, T18N, R3W	SFC. 35, T19S, R19W	SFC. 28, T9N, R25W
OWNER.....	U.S. BUREAU OF MINES	AMOCO PRODUCTION CO.	TENNECO OIL CO.
COMPLETED.....	NOT GIVEN	10/17/73	03/18/74
SAMPLED.....	07/03/74	01/31/74	10/12/74
FORMATION.....	NOT GIVEN	JURA-SMACKOVER	PERM-MORRIS
DEPTH, FEET.....	NOT GIVEN	9959	2703
WELLHEAD PRESSURE, PSIG..	NOT GIVEN	2100	1625
OPEN FLOW, MCFD.....	NOT GIVEN	595	3158
COMPONENT, MOLE PCT			
METHANE.....	77.1	83.6	97.8
ETHANE.....	0.0	6.7	1.0
PROPANE.....	TRACE	2.9	0.1
N-BUTANE.....	0.0	1.1	0.0
ISOBUTANE.....	0.0	1.0	0.0
N-PENTANE.....	0.0	0.3	0.0
ISOPENTANE.....	0.0	0.5	0.0
CYCLOPENTANE.....	0.0	TRACE	0.0
HEXANES PLUS.....	0.0	0.2	0.0
NITROGEN.....	22.4	2.5	0.5
OXYGEN.....	0.2	TRACE	0.0
ARGON.....	0.1	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	1.1	0.3
HELUM.....	0.03	0.03	0.12
HEATING VALUE*.....	781	1157	1012

* 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

	INDEX SAMPLE 14181	INDEX SAMPLE 13990	INDEX SAMPLE 13991
STATE.....	ARKANSAS	ARKANSAS	ARKANSAS
COUNTY.....	JOHNSON	JOHNSON	JOHNSON
FIELD.....	ALTUS	BATSON-OZONE	BATSON-OZONE
WELL NAME.....	WOODROW HOING NO. 1-28	FEDERAL FS5263 NO. 1	FEDERAL FS5263 NO. 1
LOCATION.....	SFC. 28, T9N, R25W	SFC. 14, T11N, R25W	SEC. 14, T11N, R25W
OWNER.....	TFNNCO OIL CO.	ARKANSAS WESTERN GAS CO.	ARKANSAS WESTERN GAS CO.
COMPLETED.....	03/18/74	02/15/74	02/15/74
SAMPLED.....	10/12/74	04/26/74	04/26/74
FORMATION.....	PFNN-ATOKA	PFNN-ATOKA	PENN-MORROW
DEPTH, FEET.....	5706	1706	1906
WELLHEAD PRESSURE, PSIG.....	1625	320	500
OPEN FLOW, MCFD.....	3542	1100	2500
COMPONENT, MOLE PCT			
METHANE.....	97.8	98.0	98.0
ETHANE.....	1.0	0.1	0.1
PROPANE.....	0.1	TRACE	TRACE
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	0.5	1.6	1.6
OXYGEN.....	0.0	0.1	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.1	0.0	0.0
HYDROGEN SULFIDE*+.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.1	0.1
HELIUM.....	0.12	0.13	0.12
HEATING VALUE*.....	1012	995	995

* 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

	INDEX SAMPLE 13992	INDEX SAMPLE 13993	INDEX SAMPLE 13994
STATE.....	ARKANSAS	ARKANSAS	ARKANSAS
COUNTY.....	JOHNSON	JOHNSON	JOHNSON
FIELD.....	RATSON-OZONE	RATSON-OZONE	RATSON-OZONE
WELL NAME.....	FEDERAL ES4068 NO. 1	FEDERAL FS5276 NO. 1	FEDERAL FS5262
LOCATION.....	SEC. 28, T12N, R24W	SFC. 33, T12N, R24W	SFC. 12, T11N, R25W
OWNER.....	ARKANSAS WESTERN GAS CO.	ARKANSAS WESTERN GAS CO.	ARKANSAS WESTERN GAS CO.
COMPLETED.....	03/05/74	04/19/74	12/14/73
SAMPLED.....	04/26/74	04/26/74	04/26/74
FORMATION.....	MISS-ROONF	PENN-BRENTWOOD	MISS-ROONF
DEPTH, FEET.....	2280	1408	2578
WELLHEAD PRESSURE, PSIG.....	790	300	820
OPEN FLOW, MCFD.....	2000	2000	7600
COMPONENT, MOLE PCT			
METHANE.....	90.1	97.8	91.2
ETHANE.....	1.6	TRACE	1.7
PROPANE.....	0.2	TRACE	0.1
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	7.7	1.7	6.5
OXYGEN.....	0.1	0.1	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.1	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.2	0.1
HELUM.....	0.25	0.13	0.26
HEATING VALUE*.....	947	991	957

* 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

	INDEX SAMPLE 13995	INDEX SAMPLE 13996	INDEX SAMPLE 13997
STATE.....	ARKANSAS	ARKANSAS	ARKANSAS
COUNTY.....	JOHNSON	JOHNSON	JOHNSON
FIELD.....	BATSON-OZONE	BATSON-OZONE	BATSON-OZONE
WELL NAME.....	COOPER NO. 1	MOORF NO. 1	MOORF NO. 1
LOCATION.....	SEC. 15, T11N, R25W	SEC. 6, T11N, R23W	SEC. 6, T11N, R23W
OWNER.....	ARKANSAS WESTERN GAS CO.	ARKANSAS WESTERN GAS CO.	ARKANSAS WESTERN GAS CO.
COMPLETED.....	11/20/73	02/12/74	02/12/74
SAMPLED.....	04/26/74	04/26/74	04/26/74
FORMATION.....	PFNN-ATOKA	PFNN-DUNN	PFNN-HALF
DEPTH, FEET.....	1404	1376	2278
WELLHEAD PRESSURE, PSIG.....	156	120	420
OPEN FLOW, MCFD.....	1000	900	1300
COMPONENT, MOLE PCT			
METHANE.....	97.9	98.0	98.8
ETHANE.....	0.2	0.3	0.2
PROPANE.....	TRACE	0.1	TRACE
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	1.2	1.2	0.7
OXYGEN.....	TRACE	0.1	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.1	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	TRACE	0.1
HELIUM.....	0.13	0.13	0.09
HEATING VALUE*.....	995	1001	1005

* 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

	INDEX 25 SAMPLE 13998	INDEX 26 SAMPLE 13999	INDEX 27 SAMPLE 14000
STATE.....	ARKANSAS	ARKANSAS	ARKANSAS
COUNTY.....	JOHNSON	JOHNSON	JOHNSON
FIELD.....	RATSON-OZONE	RATSON-OZONE	RATSON-OZONE
WELL NAME.....	TAYLOR NO. 1	TAYLOR NO. 1	FEDERAL E55269 NO. 1
LOCATION.....	SFC. 1, T11N, R24W	SEC. 1, T11N, R24W	SEC. 13, T11N, R25W
OWNER.....	ARKANSAS WESTERN GAS CO.	ARKANSAS WESTERN GAS CO.	ARKANSAS WESTERN GAS CO.
COMPLETED.....	02/19/74	02/19/74	10/25/73
SAMPLED.....	04/26/74	04/26/74	04/26/74
FORMATION.....	MISS-BOONE	PENN-ORR	PENN-ORR
DEPTH, FEET.....	2620	1439	1482
WELLHEAD PRESSURE, PSIG.....	820	245	300
OPEN FLOW, MFD.....	600	3000	1000
COMPONENT, MOLE PCT			
METHANE.....	96.7	96.4	98.1
ETHANE.....	1.3	1.4	0.1
PROPANE.....	0.1	0.1	TRACE
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	1.7	1.7	1.5
OXYGEN.....	0.0	0.1	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.2	TRACE
HELIUM.....	0.10	0.10	0.12
HEATING VALUE*.....	1005	1004	996

* 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 I. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14001	INDEX SAMPLE 14179	INDEX SAMPLE 14057
STATE.....	ARKANSAS	ARKANSAS	CALIFORNIA
COUNTY.....	JOHNSON	JOHNSON	FRESNO
FIELD.....	BATSON-OZONF	COAL HILL	SAN JOAQUIN
WELL NAME.....	PAYNE NO. 1	J.G. HOING NO. I-20	TEFD NO. 1
LOCATION.....	NOT GIVEN	SFC. 20, T9N, R25W	NOT GIVEN
OWNER.....	ARKANSAS WESTERN GAS CO.	TFNN ECO OTL CO.	TEXACO INC.
COMPLETED.....	03/15/74	03/18/74	NOT GIVEN
SAMPLED.....	04/26/74	10/12/74	07/09/74
FORMATION.....	PFNN-ORR	PFNN-ATOKA	NOT GIVEN
DEPTH, FEET.....	NOT GIVEN	3655	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	1350	1600
OPEN FLOW, MCFD.....	NOT GIVFN	3732	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	84.9	97.8	97.1
ETHANE.....	TRACE	1.1	0.8
PROFANE.....	TRACE	0.1	0.2
N-BUTANE.....	0.0	TRACE	TRACE
ISOBUTANE.....	0.0	TRACE	0.1
N-PENTANE.....	0.0	TRACE	0.0
ISOPENTANE.....	0.0	TRACE	0.1
CYCLOPENTANE.....	0.0	TRACE	0.1
HEXANES PLUS.....	0.0	TRACE	TRACE
NITROGEN.....	10.2	0.5	1.5
OXYGEN.....	2.4	0.0	0.0
ARGON.....	0.1	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.2	0.1	0.1
HELUM.....	0.09	0.13	0.01
HEATING VALUE*.....	860	1013	1015

* CALCULATED GROSS BTU PFR 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

	INDEX SAMPLE 14233	INDEX SAMPLE 14115	INDEX SAMPLE 14116
STATE.....	COLORADO	COLORADO	COLORADO
COUNTY.....	GARFIELD	WASHINGTON	WASHINGTON
FIELD.....	PRAIRIE CANYON	BULLSEYE	NOT GIVEN
WELL NAME.....	P. C. FEDERAL NO. 1	DANIELS NO. 1	STEPHENSON
LOCATION.....	SFC. 17, T7S, R104W	SFC. 28, T3N, R51W	SFC. 13, T3N, R52W
OWNER.....	KELCO PETROLEUM CORP.	PATRICK A. DOHENY	PATRICK A. DOHENY
COMPLETED.....	11/27/73	06/26/73	11/21/73
SAMPLED.....	11/20/74	07/22/74	07/22/74
FORMATION.....	CRET-DAKOTA	CRET-DAKOTA	CRET-DAKOTA
DEPTH, FEET.....	4810	4309	4509
WELLHEAD PRESSURE (PSIG).....	853	700	740
OPEN FLOW, MCFD.....	2122	750	1000
COMPONENT, MOLE % PT			
METHANE.....	85.3	90.4	94.1
ETHANE.....	5.0	1.3	1.3
PROPANE.....	1.9	0.3	0.2
N-BUTANE.....	0.4	0.1	0.0
ISOBUTANE.....	0.7	1.5	0.6
N-PENTANE.....	0.1	0.0	0.0
ISOPENTANE.....	0.4	0.6	0.3
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.5	0.1	0.1
NITROGEN.....	3.5	5.3	2.0
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.7	0.3	1.2
HELIUM.....	0.28	0.03	0.02
HEATING VALUE*.....	1091	1031	1024

* 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

	INDEX 34 SAMPLE 14240	INDEX 35 SAMPLE 14224	INDEX 36 SAMPLE 13931
STATE.....	COLORADO	KANSAS	KANSAS
COUNTY.....	WFLD	CLARK	EDWARDS
FIELD.....	SURREY	CLARK CREEK	BRAD RIDGE
WELL NAME.....	UPRR 43 PAN AM G NO. 3	TUTTLE NO. 2	BELT-JOHNSON NO. 1
LOCATION.....	SEC. 29, T1N, R67W	SEC. 8, T35S, R22W	SEC. 11, T24S, R16W
OWNER.....	AMOCO PRODUCTION CO.	RORERT L. HAYNIE	ALPINE DRILLING CO.
COMPLETED.....	10/09/74	06/21/74	04/12/70
SAMPLED.....	12/05/74	31/11/74	03/04/74
FORMATION.....	CRFT-SUSSEX	PFNN-MORROW	CAMO-ARRUCKLE
DEPTH, FEET.....	4880	5707	4075
WELLHEAD PRESSURE, PSIG.....	520	1700	1150
OPEN FLOW, MCFD.....	136	7000	750000
COMPONENT, MOLE PCT			
METHANE.....	73.2	90.1	34.6
ETHANE.....	12.0	4.7	4.5
PROPANE.....	8.0	2.2	2.5
N-BUTANE.....	2.4	0.6	0.9
ISOBUTANE.....	1.2	0.4	0.9
N-PENTANE.....	0.5	0.1	0.2
ISOPENTANE.....	0.8	0.3	0.3
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.4	0.2	0.3
NITROGEN.....	1.2	1.2	50.2
OXYGEN.....	0.1	0.0	0.0
ARGON.....	0.0	0.0	0.2
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	0.5
HELUM.....	0.01	0.11	4.66
HEATING VALUE*.....	1365	1119	597

* 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

	INDEX SAMPLE 14018	INDEX SAMPLE 14019	INDEX SAMPLE 14162
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	KFARNY	KFARNY	KINGMAN
FIELD.....	PANOMA	PANOMA	NEGRO CREEK
WELL NAME.....	JOHNSON NO. 4A	JOHNSON NO. 2A	LAKIN NO. 1
LOCATION.....	SFC. 19, T25S, R36W	SFC. 24, T25S, R37W	SEC. 6, T28S, RGW
OWNER.....	W.B. OSBORN	W.R. OSBORN	VULCAN MATERIALS CO.
COMPLETED.....	11/01/73	11/01/73	03/22/74
SAMPLED.....	06/01/74	06/01/74	10/03/74
FORMATION.....	PFRM-COUNCIL GROVE	PERM-COUNCIL GROVE	MISS-
DEPTH, FEET.....	2770	2750	3842
WELLHEAD PRESSURE, PSIG....	243	306	1324
OPEN FLOW, MCFD.....	4500	4500	3206
COMPONENT, MOLE PCT			
METHANE.....	72.0	73.1	86.6
ETHANE.....	5.9	6.3	5.3
PROPANE.....	3.3	3.8	2.6
N-BUTANE.....	0.8	1.0	0.9
ISOBUTANE.....	0.5	0.4	0.4
N-PENTANE.....	0.2	0.2	0.3
ISOPENTANE.....	0.2	0.3	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	16.5	14.3	3.3
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.1	TRACE
HELUM.....	0.49	0.40	0.18
HEATING VALUE*.....	987	1026	1119

* CALCULATED GROSS RTU 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

	INDEX SAMPLE 14143	INDEX SAMPLE 14011	INDEX SAMPLE 14144
STATE	KANSAS	KANSAS	KANSAS
COUNTY.....	KIOWA	KIOWA	KIOWA
FIELD.....	ALLSTOTT	CONKLIN	EINSFL
WELL NAME.....	FINSEL NO. 1	CONKLIN NO. 1	GAMBLE NO. 1
LOCATION.....	SFC. 11, T28S, R18W	SFC. 15, T29S, R17W	SFC. 11, T28S, R18W
OWNER.....	A.L. ABERCROMBIE, INC.	MARSH OIL ASSOCIATES	A.L. ABERCROMBIE, INC.
COMPLETED.....	03/09/74	08/05/73	02/23/74
SAMPLED.....	09/11/74	05/21/74	09/11/74
FORMATION.....	PENN-KANSAS CITY	PERM-COTTONWOOD	MISS-
DEPTH, FEET.....	4166	2866	4776
WELLHEAD PRESSURE, PSIG....	1290	945	1392
OPEN FLOW, MCFD.....	4311	11000	4189
COMPONENT, MOLE PCT			
METHANE.....	79.3	77.2	92.1
ETHANE.....	3.8	2.2	3.2
PROPANE.....	1.9	1.0	1.2
N-BUTANE.....	0.7	0.3	0.3
ISOBUTANE.....	0.5	0.2	0.3
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.4	TRACE	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	12.5	18.3	2.2
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	0.1
HELUM.....	0.34	0.59	0.19
HEATING VALUE*.....	997	874	1060

* 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

	INDEX 43 SAMPLE 14146	INDEX 44 SAMPLE 14145	INDEX 45 SAMPLE 14246
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	KIOWA	KIOWA	MEADE
FIELD.....	FINSEL	HARDY	JOHAN
WELL NAME.....	MINKS NO. 1	BFR TRAM NO. 1	JOHANNSEN-BARRY NO. 1
LOCATION.....	SFC. 13, T28S, R18W	SFC. 14, T28S, R18W	SEC. 32, T34S, R27W
OWNER.....	A.L. ABERCROMBIE, INC.	A.L. ABERCROMBIE, INC.	JOHNSON-MIZEL OIL CO.
COMPLETED.....	03/26/74	06/07/73	07/--/74
SAMPLED.....	09/11/74	09/11/74	12/23/74
FORMATION.....	MTSS-	MISS-	MISS-CHESTER
DEPTH, FEET.....	4766	4774	6000
WELLHEAD PRESSURE, PSIG.....	1360	1325	1500
OPEN FLOW, MCFD.....	NOT GIVEN	7510	5000
COMPONENT, MOLE PCT			
METHANE.....	92.2	92.5	89.6
ETHANE.....	3.3	3.2	4.6
PROPANE.....	1.1	1.2	2.1
N-BUTANE.....	0.3	0.3	0.6
ISOBUTANE.....	0.2	0.3	0.4
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.2	0.1	0.3
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	2.1	1.9	1.7
OXYGEN.....	TRACE	0.0	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	0.2
HELUM.....	0.17	0.17	0.12
HEATING VALUE*.....	1056	1059	1100

* 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

	INDEX 46 SAMPLE 14137	INDEX 47 SAMPLE 13883	INDEX 48 SAMPLE 14156
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	RTCF	SEWARD	SUMNER
FIELD.....	CFNTENNIAL	WIDE AWAKE	MURPHY
WELL NAME.....	ENGELLAND NO. 1	ROLES NO. 1-17	STALNAKER NO. 1
LOCATION.....	SEC. 3, T20S, R7W	SEC. 17, T35S, R34W	SEC. 11, T35S, R2E
OWNER.....	MESSMAN-RINEHART OIL CO.	HORIZON OIL & GAS CO.	HERNDON DRILLING CO.
COMPLETED.....	09/12/73	NOT GIVEN	04/11/74
SAMPLED.....	08/26/74	01/03/74	09/25/74
FORMATION.....	MTSS-	PENN-LANSING-KANSAS CITY	PENN-LAYTON
DEPTH, FEET.....	3278	4548	2775
WELLHEAD PRESSURE, PSIG....	1080	695	920
OPEN FLOW, MCFO.....	6200	1000	3260
COMPONENT, MOLE PCT			
METHANE.....	65.8	77.3	70.3
ETHANE.....	6.5	6.2	5.6
PROPANE.....	4.7	3.0	3.0
N-BUTANE.....	1.4	0.8	0.8
ISOBUTANE.....	0.9	0.5	0.5
N-PENTANE.....	0.3	0.2	0.2
ISOPENTANE.....	0.2	0.3	0.3
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	19.1	11.1	18.7
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	0.1	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE*.....	TRACE	TRACE	0.1
HELUM.....	0.99	0.28	0.30
HEATING VALUE*.....	1009	1047	964

* 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

	INDEX SAMPLE 14015	INDEX SAMPLE 13926	INDEX SAMPLE 13987
STATE	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ACADIA	ACADIA	ASSUMPTION
FIELD.....	CROWLEY S	M TLAND	RAY NATCHEZ
WELL NAME.....	DAVID HFAUX EST. NO. 1	WALTON GUIDRY NO. 1	BROWNELL-KIDD NO. C-1
LOCATION.....	SFC. 17, T10S, R1F	SFC. 53, T10S, R2W	SFC. 23, T12S, R12E
OWNER.....	DAMSON OIL CORP.	GOLDING-SERIO-TIPCO-DILLON	CITIES SERVICE OIL CO.
COMPLETED.....	05/30/74	08/29/73	10/09/73
SAMPLED.....	05/30/74	02/18/74	04/17/74
FORMATION.....	-HAYES	OLIG-DISCORRIS	MIOC-SIPHONINA DAVISI
DEPTH, FEET.....	11952	9704	13930
WELLHEAD PRESSURE, PSTG...	2350	1425	4949
OPEN FLOW, MCFD.....	2000	2000	80000
COMPONENT, MOLE %			
METHANE.....	89.6	58.7	84.0
ETHANE.....	3.0	12.7	2.7
PROPANE.....	0.8	12.2	0.7
N-BUTANE.....	0.2	4.4	0.2
ISOBUTANE.....	0.3	5.3	0.2
N-PENTANE.....	TRACE	1.4	0.1
ISOPENTANE.....	0.1	2.4	0.1
CYCLOPENTANE.....	TRACE	0.4	0.1
HEXANES PLUS.....	0.1	1.9	0.1
NITROGEN.....	4.2	0.1	9.0
OXYGEN.....	1.0	0.0	2.1
ARGON.....	TRACE	0.0	0.1
HYDROGEN.....	0.0	TRACE	TRACE
HYDROGEN SULFIDE**....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	0.4	0.7
HELIUM.....	0.01	TRACE	TRACE
HEATING VALUE*.....	10018	1740	948

* 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

	INDEX SAMPLE 14191	INDEX SAMPLE 14192	INDEX SAMPLE 14125
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	RIVENVILLE	RIVENVILLE	CADDY
FIELD.....	DANVILLE	DANVILLE	LONGWOOD
WELL NAME.....	BROWN NO. 1	BROWN NO. 1-D	W.F. NOEL FEE NO. 11
LOCATION.....	SEC. 26, T14N., R5W	SEC. 26, T14N., R5W	SEC. 33, T19N., R16W
OWNER.....	SKLAR & PHILLIPS OIL CO.	SKLAR & PHILLIPS OIL CO.	TEXACO INC.
COMPLETED.....	06/--/74	06/--/74	02/11/74
SAMPLED.....	10/25/74	10/25/74	08/06/74
FORMATION.....	CRET-HOSSTON C	CRET-HOSSTON A	CRET-HOSSTON "B"
DEPTH, FEET.....	8800	8000	6011
WELLHEAD PRESSURE, PSIG.....	3250	2200	2300
OPEN FLOW, MCFD.....	60000	10000	1000
COMPONENT, MOLE PCT			
METHANE.....	96.6 -----	95.5 -----	91.9 -----
ETHANE.....	0.3 -----	0.2 -----	4.1 -----
PROPANE.....	TRACE -----	TRACE -----	1.0 -----
N-BUTANE.....	TRACE -----	TRACE -----	0.3 -----
ISOBUTANE.....	TRACE -----	TRACE -----	0.3 -----
N-PENTANE.....	TRACE -----	TRACE -----	0.1 -----
ISOPENTANE.....	TRACE -----	0.0 -----	0.1 -----
CYCLOPENTANE.....	TRACE -----	TRACE -----	TRACE -----
HEXANES PLUS.....	TRACE -----	0.1 -----	0.2 -----
NITROGEN.....	1.1 -----	2.5 -----	1.4 -----
OXYGEN.....	0.0 -----	TRACE -----	0.0 -----
ARGON.....	TRACE -----	TRACE -----	TRACE -----
HYDROGEN.....	0.0 -----	TRACE -----	0.1 -----
HYDROGEN SULFIDE**.....	0.0 -----	0.0 -----	0.0 -----
CARBON DIOXIDE.....	1.9 -----	1.6 -----	0.7 -----
HELUM.....	0.03 -----	0.03 -----	0.02 -----
HEATING VALUE*.....	984 -----	976 -----	1070 -----

* 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 I. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14142	INDEX SAMPLE 14139	INDEX SAMPLE 14152
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	CALDWELL	CALDWELL	CLAIRBORNE
FIELD.....	CLARKS S	COOPER	OAK
WELL NAME.....	LOUISIANA-CENTRAL NO. 11-23	HOGG NO. 1	MORELOCK NO. 1
LOCATION.....	SFC. 23, T12N, R3E	SFC. 31, T13N, R3E	SEC. 36, T23N, R8W
OWNER.....	JUSTISS-MFARS OIL CO.	SOUTH LOUISIANA PROD. CO.	LONE STAR PRODUCING CO.
COMPLETED.....	02/13/74	04/26/74	07/13/73
SAMPLED.....	09/06/74	08/28/74	09/21/74
FORMATION.....	FOCE-WILCOX	FOCE-WILCOX	JURA-SMACKOVER
DEPTH, FEET.....	2602	2494	10955
WELLHEAD PRESSURE, PSIG.....	510	940	1790
OPEN FLOW, MCFO.....	NOT GIVEN	NOT GIVEN	1000
COMPONENT, MOLE PCT			
METHANE.....	97.0	97.3	84.8
ETHANE.....	0.1	0.1	5.1
PROPANE.....	0.0	TRACE	2.0
N-BUTANE.....	0.0	0.0	0.6
ISOBUTANE.....	TRACE	0.0	0.8
N-PENTANE.....	0.0	0.0	0.2
ISOPENTANE.....	0.1	0.0	0.2
CYCLOPENTANE.....	TRACE	0.0	TRACE
HEXANES PLUS.....	0.1	0.0	0.2
NITROGEN.....	2.4	2.4	4.2
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.1	1.8
HELUM.....	0.03	0.03	0.03
HEATING VALUE*.....	994	987	1077

* CALCULATED GROSS BTU PFR 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

	INDEX SAMPLE 13832	INDEX SAMPLE 13919	INDEX SAMPLE 14241
STATE.....	LOUISIANA	L LOUISIANA	LOUISIANA
PARISH.....	JEFFERSON DAVIS	LAFOURCHE	LAFOURCHE
FIELD.....	RON AIR N	RAY LIZETTE	GOLDEN MEADOW
WELL NAME.....	FUGENE LEBLANC NO. 1	STATE LEASE 5918 NO. 1	SL378 CATFISH LAKE NO. 1D1
LOCATION.....	SEC. 1, T10S, R6W	SEC. 11, T21S, R23E	SEC. 3, T20S, R21E
OWNER.....	AMOCO PRODUCTION CO.	ATLANTIC RICHFIELD CO.	TEXACO INC.
COMPLETED.....	06/13/73	06/24/73	11/13/74
SAMPLED.....	01/28/74	02/04/74	12/06/74
FORMATION.....	OLIG-HACKER RRY	MIOC-TEXTULARIA 'L'-1	MIOC-
DEPTH, FEET.....	12300	14495	10286
WELLHEAD PRESSURE, PSIG.....	7600	5234	1800
OPEN FLOW, MCFD.....	7500	NOT GIVEN	518000
COMPONENT, MOLE PCT			
METHANE.....	92.2	96.8	93.8
ETHANE.....	4.7	1.1	2.9
PROPANE.....	1.4	0.2	1.2
N-BUTANE.....	0.2	0.1	0.4
ISOBUTANE.....	0.3	0.0	0.5
N-PENTANE.....	TRACE	0.0	TRACE
ISOPENTANE.....	0.1	0.0	0.2
CYCLOPENTANE.....	TRACE	0.0	0.1
HEXANES PLUS.....	TRACE	0.0	0.2
NITROGEN.....	0.4	0.8	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	1.0	0.4
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1076	1009	1086

* 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

	INDEX SAMPLE 14114	INDEX SAMPLE 14140	INDEX SAMPLE 13848
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	LAFOURCHE	LAFOURCHE	PLAQUEMINES
FIELD.....	RACCOON LAKE	RACCOON LAKE	BASTIAN BAY
WELL NAME.....	STATE LEASE 6052 NO. 1	FASTERLING NO. 9	FASTERLING 9 MEN NO. 9
LOCATION.....	SFC. 20, T21S, R24E	SFC. 20, T21S, R24E	NOT GIVEN
OWNER.....	AMOCO PRODUCTION CO.	AMOCO PRODUCTION CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	01/29/74	NOT GIVEN	NOT GIVEN
SAMPLED.....	01/30/74	07/22/74	12/26/73
FORMATION.....	MIOC-TFXT L6	NOT GIVEN	-9200 FT. SAND
DEPTH, FEET.....	15178	NOT GIVEN	9328
WELLHEAD PRESSURE, PSIG.....	5200	750	1000
OPEN FLOW, MCFD.....	NOT GIVEN	4000	1000
COMPONENT, MOLE PCT			
METHANE.....	87.5	92.0	94.3
ETHANE.....	3.0	3.0	2.6
PROPANE.....	2.9	1.7	1.3
N-BUTANE.....	0.8	0.3	0.4
ISOBUTANE.....	2.0	0.6	0.4
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.5	0.2	0.1
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.6	0.4	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.4	1.5	0.2
HELUM.....	0.01	TRACE	TRACE
HEATING VALUE*.....	1140	1078	1085

* 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

	INDEX SAMPLE 13851	INDEX SAMPLE 13846	INDEX SAMPLE 13847
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES
FIELD.....	BASTIAN RAY	BASTIAN RAY E	BASTIAN RAY F
WELL NAME.....	DISC 12-SUA-FEF B NO. 1	FASTERLING NO. 1	FASTERLING B NO. 1
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	12/26/73	12/26/73	12/26/73
FORMATION.....	GLIG-DISCORRIS	-5700 FT. SAND	-L SAND
DEPTH, FEET.....	10008	5720	11416
WELLHEAD PRESSURE, PSIG....	2750	1800	300
OPEN FLOW, MCFD.....	6000	1000	330
COMPONENT, MOLE PCT			
METHANE.....	94.7	95.6	92.5
ETHANE.....	2.4	1.7	3.2
PROPANE.....	1.1	0.6	1.5
N-BUTANE.....	0.3	TRACE	0.4
ISOBUTANE.....	0.4	0.4	0.5
N-PENTANE.....	0.1	TRACE	0.1
ISOPENTANE.....	0.1	0.0	0.2
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.2	0.2
NITROGEN.....	0.6	0.8	0.7
OXYGEN.....	0.0	0.1	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.3	0.7
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1077	1042	1090

* 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

	INDEX SAMPLE 13849	INDFX SAMPLE 13853	INDFX SAMPLE 13850
STATE	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES
FIELD.....	RASTIAN RAY E	RASTIAN RAY E	RASTIAN RAY W
WELL NAME.....	FFE H NO. 1	LL&E NO. 25	LL&E FEE 24 NO. 24
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	NOT GIVEN	02/01/74	NOT GIVEN
SAMPLED.....	12/26/73	12/26/73	12/26/73
FORMATION.....	-UPPER RUB 15	-6600 FT. SAND	OLIG-5100 FT. SAND
DEPTH, FEET.....	10263	6692	5176
WELLHEAD PRESSURE, PSIG....	2500	2400	1025
OPEN FLOW, MCFD.....	4500	2300	330
COMPONENT, MOLE PCT			
METHANE.....	93.5	87.8	97.4
ETHANE.....	3.1	1.8	1.3
PROPANE.....	1.3	0.9	0.4
N-BUTANE.....	0.4	0.1	TRACE
ISOBUTANE.....	0.4	0.3	0.1
N-PENTANE.....	0.1	TRACE	TRACE
ISOPENTANE.....	0.1	0.1	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	0.6	7.0	0.5
OXYGEN.....	0.0	1.3	0.0
ARGON.....	0.0	0.1	0.0
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.4	0.1
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1082	968	1029

* 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

	INDEX SAMPLE 13852	INDEX SAMPLE 14169	INDEX SAMPLE 14238
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES
FIELD.....	RASTIAN RAY W	SOUTH PASS BLOCK 27	SOUTH PASS BLOCK 27
WELL NAME.....	SUA-LL8F NO. 24-D	OCS0694 NO. 129	OCS 0697 NO. C-17
LOCATION.....	NOT GIVEN	FAST RAY OFF SHORE	BLOCK 27 OFFSHORE
OWNER.....	PHILLIPS PETROLEUM CO.	SHFLL OIL CO.	TFXACO INC.
COMPLETED.....	NOT GIVEN	12/08/72	02/15/72
SAMPLED.....	12/26/73	10/07/74	11/21/74
FORMATION.....	-7000 FT. SAND	PLIO-M4	Eocene-WILCOX
DEPTH, FEET.....	6984	7409	10555
WELLHEAD PRESSURE, PSIG.....	2300	2300	1450
OPEN FLOW, MCFD.....	2100	2900	1453
COMPONENT, MOLE PCT			
METHANE.....	95.1	94.4	91.4
ETHANE.....	2.1	2.5	3.8
PROPANE.....	1.2	1.2	1.8
N-BUTANE.....	0.2	0.3	0.6
ISOBUTANE.....	0.4	0.3	0.5
N-PENTANE.....	0.1	0.1	0.2
ISOPENTANE.....	0.1	0.2	0.3
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.2	0.4
NITROGEN.....	0.4	0.3	0.5
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.3	0.4
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1075	1079	1123

* 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

	INDEX SAMPLE 14130	INDEX SAMPLE 14235	INDEX SAMPLE 14020
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST CHARLES	ST LANDRY	ST MARTIN
FIELD.....	TAFT S	ANDREFPONT	ARNAUDVILLE S
WELL NAME.....	OCCIDENTAL PET. CORP. NO. 1	DALLAS PITRE NO. 1	DR. SIDNEY FREDRICK NO. 1
LOCATION.....	SFC. 58, T13S, R20E	SFC. 99, T5S, R3E	SEC. 38, T8S, R5E
OWNER.....	ASHLAND OIL, INC.	SOUTH LOUISIANA PROD. CO.	TEXACO INC.
COMPLETED.....	04/15/74	08/05/74	12/10/73
SAMPLED.....	08/16/74	11/19/74	05/29/74
FORMATION.....	NOT GIVEN	Eocene-Wilcox	Eocene-Wilcox
DEPTH, FEET.....	11122	12573	15886
WELLHEAD PRESSURE, PSIG.....	4000	4760	7000
OPEN FLOW, MCFD.....	1600	750	2300
COMPONENT, MOLE PCT			
METHANE.....	94.6	83.7	85.8
ETHANE.....	2.1	7.8	7.0
PROPANE.....	0.9	3.9	2.0
N-BUTANE.....	0.2	0.9	0.3
ISOBUTANE.....	0.4	0.8	0.5
N-PENTANE.....	0.1	0.2	0.1
ISOPENTANE.....	0.2	0.4	0.1
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.2	0.2	0.1
NITROGEN.....	0.6	0.8	0.3
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE*+.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	1.3	3.7
HELUM.....	0.01	0.01	TRACE
HEATING VALUE*.....	1066	1186	1087

* 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

	INDEX SAMPLE 13891	INDEX SAMPLE 13892	INDEX SAMPLE 13893
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST MARY	ST MARY	ST MARY
FIELD.....	RATEMAN LAKE	RATEMAN LAKE	RATEMAN LAKE
WELL NAME.....	WK&L NO. 30	WAX BAYOU NO. 28	ST. MARY PARISH S.B. NO. 1
LOCATION.....	NOT GIVFN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	02/02/74	02/03/74	02/03/74
FORMATION.....	NOT GIVFN	NOT GIVEN	NOT GIVEN
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	3000	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	5000	2000	6000
COMPONENT, MOLE PCT			
METHANE.....	.93.9	88.1	94.8
ETHANE.....	2.8	4.7	2.8
PROPANE.....	1.1	2.3	0.9
N-BUTANE.....	0.2	0.5	0.1
ISOBUTANE.....	0.4	0.7	0.3
N-PENTANE.....	0.1	0.1	TRACE
ISOPENTANE.....	0.1	0.3	0.1
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.2	0.2	0.1
NITROGEN.....	0.4	1.2	0.4
OXYGEN.....	0.0	0.2	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE*+....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	1.5	0.5
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1073	1108	1057

* 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

	INDEX SAMPLE 79 13894	INDEX SAMPLE 80 13895	INDEX SAMPLE 81 13896
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST MARY	ST MARY	ST MARY
FIELD.....	RATEMAN LAKE	RATEMAN LAKE	RATEMAN LAKE
WELL NAME.....	WK&L NO. 8	WAX BAYOU NO. 32	WAX BAYOU NO. 11
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	NOT GIVEN	02/03/74	02/02/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	3350
OPEN FLOW, MCFD.....	NOT GIVEN	6000	5000
COMPONENT, MOLE PCT			
METHANE.....	94.3	94.2	94.7
ETHANE.....	2.9	3.0	2.8
PROPANE.....	1.1	1.2	0.9
N-BUTANE.....	0.2	0.3	0.2
ISOBUTANE.....	0.4	0.4	0.3
N-PENTANE.....	0.0	0.1	0.1
ISOPENTANE.....	0.1	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	0.2	0.1
NITROGEN.....	0.4	0.4	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.2	TRACE	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.3	0.3
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1061	1081	1063

* 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

	INDEX SAMPLE 13897	INDEX SAMPLE 13898	INDEX SAMPLE 13899
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST MARY	ST MARY	ST MARY
FIELD.....	BATEMAN LAKE	RATEMAN LAKE	BATEMAN LAKE
WELL NAME.....	ST. MARY PARISH S.B. NO. 3	WK&L NO. 18	WAX RAYOU NO. 3
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	02/03/74	02/02/74	02/03/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	3000	7000	6000
COMPONENT, MOLE PCT			
METHANE.....	93.2	93.0	93.0
ETHANE.....	3.0	3.1	3.1
PROPANE.....	1.2	1.3	1.3
N-BUTANE.....	0.3	0.3	0.3
ISOBUTANE.....	0.4	0.4	0.5
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.2	0.2	0.2
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.2	0.3	0.4
NITROGEN.....	0.8	0.4	0.3
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.8	0.7
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1076	1087	1095

* 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

	INDEX 85 SAMPLE 13901	INDEX 86 SAMPLE 13902	INDEX 87 SAMPLE 13903
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST MARY	ST MARY	ST MARY
FIELD.....	RATEMAN LAKE	BATEMAN LAKE	BATEMAN LAKE
WELL NAME.....	WK&L NO 7	WK&L NO. 1	WAX RAYOU CO. NO. 52
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	02/05/74	02/05/74	02/05/74
FORMATION.....	-10900 FT. SAND	-9900 FT. SAND	-10100 FT. SAND
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	7000	3000	3000
COMPONENT, MOLE PCT			
METHANE.....	93.9	94.3	91.7
ETHANE.....	2.9	3.1	3.5
PROPANE.....	1.2	1.2	1.6
N-BUTANE.....	0.3	0.2	0.5
ISOBUTANE.....	0.3	0.3	0.7
N-PENTANE.....	0.1	0.1	0.2
ISOPENTANE.....	0.1	0.1	0.2
CYCLOCAPENTANE.....	0.1	TRACE	0.2
HEXANES PLUS.....	0.2	0.1	0.6
NITROGEN.....	0.3	0.4	0.4
OXYGEN.....	0.0	0.0	0.0
AREON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.3	0.3
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1077	1072	1129

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHFS 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

	INDEX 88 SAMPLE 13904	INDEX 89 SAMPLE 13905	INDEX 90 SAMPLE 13906
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST MARY	ST MARY	ST MARY
FIELD.....	RATEMAN LAKE	RATEMAN LAKE	RATEMAN LAKE
WELL NAME.....	WKBL NO. 22	WAX BAYOU CO. NO. 22	WKBL NO. 6
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	02/05/74	02/05/74	02/05/74
FORMATION.....	-10500 FT. SAND	-SUN STATE SAND	NOT GIVEN
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	12800
COMPONENT, MOLE PCT			
METHANE.....	92.8	85.2	84.9
ETHANE.....	3.7	4.0	6.8
PROPANE.....	1.6	3.0	3.7
N-BUTANE.....	0.3	1.5	1.0
ISOBUTANE.....	0.4	1.4	1.0
N-PENTANE.....	0.1	0.7	0.3
ISOPENTANE.....	0.1	1.1	0.6
CYCLOPENTANE.....	TRACE	0.3	0.1
HEXANES PLUS.....	0.1	1.0	0.4
NITROGEN.....	0.4	0.4	0.4
OXYGEN.....	0.0	0.0	0.1
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	1.3	0.7
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1085	1250	1208

* 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

	INDEX SAMPLE 13907	INDEX SAMPLE 13908	INDEX SAMPLE 13909
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST MARY	ST MARY	ST MARY
FIELD.....	BATEMAN LAKE	BATEMAN LAKE	BATEMAN LAKE
WELL NAME.....	WAX BAYOU CO. NO. 39	MERANTO NO. 1	WAX BAYOU CO. NO. 35
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	02/06/74	02/06/74	02/06/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	535	831	5000
COMPONENT, MOLE PCT			
METHANE.....	84.9	91.4	89.6
ETHANE.....	5.0	3.8	4.4
PROPANE.....	4.2	1.8	2.2
N-BUTANE.....	1.3	0.4	0.6
ISOBUTANE.....	1.6	0.6	0.9
N-PENTANE.....	0.3	0.1	0.2
ISOPENTANE.....	0.5	0.2	0.2
CYCLOCOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.3	0.1	0.3
NITROGEN.....	0.5	0.5	0.4
OXYGEN.....	TRACE	0.0	0.1
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.4	1.2	0.9
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE.....	1206	1092	1130

* 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

	INDEX SAMPLE 14187	INDEX SAMPLE 14196	INDEX SAMPLE 13984
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST MARY	ST MARY	TERREBONNE
FIELD.....	GARDEN CITY	HORSESHOE RAYOU	LAPEYROUSE
WELL NAME.....	BLANCHE L. SMITH NO. 1	PARISH LAND CO. NO. 22	AURELIE ESCHTE NO. 1
LOCATION.....	SEC. 27, T15S. R9E	SEC. 7, T17S. R10E	SEC. 30, T19S. R18E
OWNER.....	NORTH AMERICAN ROYALTIES	TEXACO INC.	QUINTANA PRODUCTION CO.
COMPLETED.....	08/16/73	09/03/73	11/06/73
SAMPLED.....	10/17/74	10/29/74	04/18/74
FORMATION.....	MIOC-MAS SAND	NOT GIVEN	MIOC-TEXTULARIAN W-4
DEPTH, FEET.....	15948	13715	16284
WELLHEAD PRESSURE *PSIG.....	8400	7800	11940
OPEN FLOW, MCFD.....	11000	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	85.6	86.7	89.1
ETHANE.....	6.7	3.7	5.9
PROPANE.....	3.2	1.8	2.1
N-BUTANE.....	0.6	0.8	0.3
ISOBUTANE.....	1.0	0.9	0.6
N-PENTANE.....	0.2	0.3	0.1
ISOPENTANE.....	0.2	0.5	0.1
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.2	0.4	0.1
NITROGEN.....	0.8	4.1	0.4
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.3	0.7	1.2
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1155	1107	1107

* 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

	INDEX 97 SAMPLE 14193	INDEX 98 SAMPLE 14160	INDEX 99 SAMPLE 13918
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	TERREBONNE	VERMILION	VERMILION
FIELD.....	POINT AU FER	LIVE OAK	PARC PERDUE N
WELL NAME.....	SL 649, NELSON LL&E VUA NO.5	GODCHAUX NO. 7-D	LANDRY A NO. 1
LOCATION.....	SFC. 6, T20S, R11E	SEC. 88, T14S, R3E	SEC. 27, T11S, R4E
OWNER.....	TFXACO INC.	ATLANTIC RICHFIELD CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	03/07/73	07/01/73	NOT GIVEN
SAMPLED.....	10/27/74	10/03/74	02/13/74
FORMATION.....	NOT GIVEN	MIOC-12300 FT. SAND	MIOC-CAMERINA
DEPTH, FEET.....	9075	12282	15550
WELLHEAD PRESSURE, PSIG.....	3300	2265	10100
OPEN FLOW, MCFD.....	4400	5400	50000
COMPONENT, MOLE PCT			
METHANE.....	93.4	91.7	87.0
ETHANE.....	2.9	4.1	6.3
PROPANE.....	0.8	1.5	2.8
N-BUTANE.....	0.2	0.3	0.6
ISOBUTANE.....	0.3	0.5	1.2
N-PENTANE.....	0.2	TRACE	0.2
ISOPENTANE....	0.2	0.2	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	1.1	0.4	0.3
OXYGEN.....	0.1	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	1.0	1.2
HELIUM.....	0.01	TRACE	TRACE
HEATING VALUE*.....	1067	1082	1155

* 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

	INDEX 100 SAMPLE 13975	INDEX 101 SAMPLE 14206	INDEX 102 SAMPLE 14173
STATE.....	LOUISIANA	LOUISIANA	MICHIGAN
PARISH.....	VERMILION	WINN	GRAND TRAVERSE
FIELD.....	REDFISH POINT	HICKORY VALLEY W	MAYFIELD
WELL NAME.....	STATE LEASE 3306 NO. 3	OLINKRAFT NO. 2	SCHMUCHAL NO. 1-3
LOCATION.....	T16S, R4E	SEC. 24, T12N, R1W	SEC. 3, T25N, R11W
OWNER.....	GULF OIL CO.-U.S.	TRIDENT OIL & GAS CORP.	SHELL OIL CO.
COMPLETED.....	03/06/72	01/16/74	04/03/73
SAMPLED.....	03/19/74	10/20/74	09/20/74
FORMATION.....	-M SAND	FOCE-WILCOX	SILU-NIAGARA
DEPTH, FEET.....	15192	2471	5974
WELLHEAD PRESSURE, PSIG.....	9000	1000	2120
OPEN FLOW, MCFD.....	1600	NOT GIVEN	80000
COMPONENT, MOLE PCT			
METHANE.....	79.8	97.8	84.0
ETHANE.....	5.1	TRACE	7.9
PROPANE.....	4.8	TRACE	3.4
N-BUTANE.....	1.8	0.0	0.9
ISOBUTANE.....	2.8	0.0	1.1
N-PENTANE.....	0.7	0.0	0.2
ISOPENTANE.....	1.0	0.0	0.4
CYCLOPENTANE.....	0.2	0.0	TRACE
HEXANES PLUS.....	1.0	0.0	0.2
NITROGEN.....	1.2	2.0	1.7
OXYGEN.....	0.1	0.0	TRACE
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.7	0.1	0.1
HELUM.....	TRACE	0.03	0.03
HEATING VALUE*.....	1311	991	1184

* 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

	INDEX SAMPLE 14054	INDEX SAMPLE 14172	INDEX SAMPLE 14171
STATE.....	MICHIGAN	MICHIGAN	MICHIGAN
COUNTY.....	KALKASKA	KALKASKA	OTSEGO
FIELD.....	KALKASKA N	RAPID RIVER	CHARLTON
WELL NAME.....	STATE KALKASKA "F" NO. 1-24	RAPID RIVER NO. 1-35	CHARLTON NO. 1-31
LOCATION.....	SEC. 24, T27N, RW	SEC. 35, T28N, RW	SEC. 31, T30N, RW
OWNER.....	AMOCO PRODUCTION CO.	SHELL OIL CO.	SHELL OIL CO.
COMPLETED.....	07/17/74	10/04/73	01/05/73
SAMPLED.....	07/16/74	09/20/74	09/17/74
FORMATION.....	SILU-NIAGARA	SILU-NIAGARA	SILU-NIAGARA
DEPTH, FEET.....	6388	6613	5822
WELLHEAD PRESSURE, PSIG.....	2382	2582	2250
OPEN FLOW, MCFD.....	95000	770000	52000
COMPONENT, MOLE PCT			
METHANE.....	76.4	88.3	78.6
ETHANE.....	10.9	4.7	8.7
PROPANE.....	6.1	2.3	5.1
N-BUTANE.....	1.8	0.9	2.0
ISOBUTANE.....	2.3	1.7	2.4
N-PENTANE.....	0.3	0.1	0.5
ISOPENTANE.....	0.7	0.4	1.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.5
NITROGEN.....	0.7	0.3	0.9
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	1.1	TRACE
HELUM.....	0.02	0.01	0.02
HEATING VALUE*.....	1313	1158	1331

* 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

	INDEX SAMPLE 106 13970	INDEX SAMPLE 107 13951	INDEX SAMPLE 108 14149
STATE.....	MISSISSIPPI	MONTANA	MONTANA
COUNTY.....	WALTHALL	HILL	STILLWATER
FIELD.....	KOKOMO-DURBAN	WILDCAT	BIG COULEE S
WELL NAME.....	WILMER HAMMOND NO. 1	MUELLER NO. 18-13	BRICKLEY NO. 1
LOCATION.....	SEC. 6, T2N, R12E	SEC. 18, T37N, R8E	SEC. 29, T4N, R20E
OWNER.....	MOON & HINES	OIL RESOURCES INC.	CIG EXPLORATION, INC.
COMPLETED.....	NOT GIVEN	12/07/73	04/21/74
SAMPLED.....	03/28/74	03/12/74	09/13/74
FORMATION.....	CRET-PALUXY	JURA-FIREMOON	CRET-FRONTIER
DEPTH, FEET.....	12866	3578	1715
WELLHEAD PRESSURE, PSIG.....	2600	1441	650
OPEN FLOW, MCFD.....	3500	15500	930
COMPONENT, MOLE PCT			
METHANE.....	95.9	97.6	88.9
ETHANE.....	0.1	0.1	0.2
PROPANE.....	TRACE	0.1	0.1
N-BUTANE.....	0.0	TRACE	0.0
ISOBUTANE.....	0.0	0.1	0.0
N-PENTANE.....	0.0	TRACE	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	TRACE	0.0
HEXANES PLUS.....	0.0	0.1	0.0
NITROGEN.....	1.0	0.7	9.6
OXYGEN.....	0.0	0.0	0.1
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	TRACE	TRACE	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.9	1.3	0.7
HELIUM.....	0.03	0.01	0.25
HEATING VALUE*.....	973	1002	907

* 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

	INDEX SAMPLE 109 14150	INDEX SAMPLE 110 14017	INDEX SAMPLE 111 13870
STATE.....	MONTANA	MONTANA	NEW MEXICO
COUNTY.....	STILLWATER	STILLWATER	CHAVES
FIELD.....	RIG COULEE S	RAPID CITY	WILDCAT
WELL NAME	BRICKLEY NO. 1	STATE NO. 4-16	PLAINS RADIO NO. 36-1
LOCATION.....	SEC. 29, T4N, R20E	SEC. 16, T2N, R20E	SEC. 36, T9S, R28E
OWNER.....	CTG EXPLORATION, INC.	CONCEPT RESOURCES, INC.	ROY WHITTENBURG
COMPLETED.....	04/21/74	NOT GIVEN	NOT GIVEN
SAMPLED.....	09/13/74	05/24/74	01/19/74
FORMATION.....	CRET-LAKOTA	CRET-EAGLE & VIRGILL	NOT GIVEN
DEPTH, FEET.....	2890	1230	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	1050	539	NOT GIVEN
OPEN FLOW, MCFD.....	1043	26000	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	89.1	93.3	28.9
ETHANE.....	0.2	1.7	7.2
PROPANE.....	TRACE	1.1	3.4
N-BUTANE.....	0.0	0.3	0.9
ISOBUTANE.....	0.0	0.4	0.5
N-PENTANE.....	0.0	0.1	0.2
ISOPENTANE.....	0.0	0.1	0.2
CYCLOPENTANE.....	0.0	TRACE	0.1
HEXANES PLUS.....	0.0	0.1	0.2
NITROGEN.....	9.5	2.8	56.2
OXYGEN.....	0.2	0.0	1.6
ARGON.....	0.1	TRACE	0.1
HYDROGEN.....	0.1	0.0	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.0	0.3
HELUM.....	0.24	0.09	0.12
HEATING VALUE*.....	906	1041	589

* CALCULATED GROSS BTU PFR 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

	INDEX SAMPLE 14044	INDEX SAMPLE 14205	INDEX SAMPLE 14007
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	EDDY	EDDY	EDDY
FIELD.....	CARLSBAD AREA E	CARLSBAD S	CARLSBAD S
WELL NAME.....	NIX-YATES NO. 1	SUN STATE NO. 1	SUN STATE NO. 1
LOCATION.....	SEC. 8, T21S, R27E	SEC. 22, T21S, R27E	SEC. 22, T21S, R27E
OWNER.....	MOHIL OIL CORP.	CHAMPLIN PETROLEUM CO.	TIPCO
COMPLETED.....	09/15/73	07/26/74	07/30/73
SAMPLED.....	07/10/74	10/-/74	05/13/74
FORMATION.....	PENN-MORROW	PERM-WOLFCAMP	PENN-MORROW
DEPTH, FEET.....	11234	9714	11350
WELLHEAD PRESSURE, PSIG.....	3611	2400	3450
OPEN FLOW, MCFD.....	7337	NOT GIVEN	2210
COMPONENT, MOLE PCT			
METHANE.....	92.8	95.1	94.5
ETHANE.....	3.4	2.2	3.1
PROPANE.....	0.9	0.6	0.7
N-BUTANE.....	TRACE	0.2	0.1
ISOBUTANE.....	0.3	0.2	0.1
N-PENTANE.....	0.0	0.1	TRACE
ISOPENTANE.....	0.3	0.1	TRACE
CYCLOPENTANE.....	0.2	TRACE	TRACE
HEXANES PLUS.....	0.5	0.1	0.1
NITROGEN.....	0.6	0.3	0.4
OXYGEN.....	0.1	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	1.0	0.9
HELIUM.....	0.02	0.02	0.02
HEATING VALUE*.....	1080	1045	1043

* 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

	INDEX SAMPLE 14042	INDEX SAMPLE 14038	INDEX SAMPLE 14122
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	EDDY	EDDY	EDDY
FIELD.....	MORROW	NOT GIVEN	NOT GIVEN
WELL NAME.....	FORTY NINER RIDGE NO. 1	MALAGA "A" NO. 1	PARKWAY WEST UNIT NO. 1
LOCATION.....	SEC. 16, T23S, R30E	SEC. 2, T24S, R28E	SEC. 28, T19S, R29E
OWNER.....	SKELLY OIL CO.	PHILLIPS PETROLEUM CO.	PETROLEUM CORP.
COMPLETED.....	12/06/73	03/18/74	03/26/73
SAMPLED.....	07/10/74	NOT GIVEN	08/05/74
FORMATION.....	PFNN-MORROW	PFNN-MORROW	PENN-STRAWN
DEPTH, FEET.....	13914	12310	10246
WELLHEAD PRESSURE, PSIG.....	5112	1500	2740
OPEN FLOW, MCFD.....	3703	350	2014
COMPONENT, MOLE PCT			
METHANE.....	95.8	96.5	78.6
ETHANE.....	2.0	1.2	12.9
PROPANE.....	0.3	0.1	4.8
N-BUTANE.....	0.1	TRACE	1.0
ISOBUTANE.....	0.1	0.0	0.5
N-PENTANE.....	TRACE	0.1	0.2
ISOPENTANE.....	TRACE	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	TRACE	0.1
NITROGEN.....	0.3	1.0	1.5
OXYGEN.....	TRACE	0.1	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.9	0.2
HELIUM.....	0.02	0.03	0.02
HEATING VALUE**.....	1026	1010	1225

* 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

	INDEX SAMPLE 118 14124	INDEX SAMPLE 119 13963	INDEX SAMPLE 120 14043
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	EDDY	EDDY	EDDY
FIELD.....	NOT GIVEN	WILDCAT	WILDCAT
WELL NAME.....	PARKWAY WFST UNIT NO. 1	LOWE STATE NO. 1	STATE CK NO. 1
LOCATION.....	SEC. 28, T19S, R29E	SEC. 16, T24S, R24E	SEC. 4, T17S, R26E
OWNER.....	PETROLEUM CORP.	C & K PETROLEUM, INC.	YATES PETROLEUM CORP.
COMPLETED.....	03/26/74	10/03/73	07/11/73
SAMPLED.....	08/05/74	03/13/74	07/12/74
FORMATION.....	PFNN-ATOKA	PFNM-WOLFCAMP	PENN-MORROW
DEPTH, FEET.....	10578	8361	7963
WELLHEAD PRESSURE, PSIG.....	3860	2687	2577
OPEN FLOW, MCFD.....	2770	46824	22856
COMPONENT, MOLE PCT			
METHANE.....	85.3	91.3	89.7
ETHANE.....	7.4	6.0	5.8
PROPANE.....	3.1	1.2	2.1
N-BUTANE.....	0.8	0.2	0.5
ISOBUTANE.....	0.6	0.2	0.4
N-PENTANE.....	0.2	0.1	0.1
ISOPENTANE.....	0.3	TRACE	0.3
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	1.8	0.7	0.5
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	0.3
HELIUM.....	0.02	0.02	0.03
HEATING VALUE*.....	1160	1086	1128

* 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

	INDEX 121 SAMPLE 14053	INDEX 122 SAMPLE 14174	INDEX 123 SAMPLE 14129
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	EDDY	EDDY	LEA
FIELD.....	WILDCAT	WILDCAT	BELL LAKE
WELL NAME.....	HINKLF-FEDERAL NO. 1	SHERLY FFDERAL NO. 2	BFLL LAKE UNIT 1 WELL 4
LOCATION.....	SEC. 9, T16S, R29E	SEC. 12, T22S, R34E	SEC. 6, T24S, R34E
OWNER.....	MCCLELLAN OIL CORP.	SOUTHERN UNION PROD. CO.	CONTINENTAL OIL CO, FT AL.
COMPLETED.....	03/12/73	05/11/74	07/06/73
SAMPLED.....	07/18/74	10/14/74	08/13/74
FORMATION.....	PERM-PREMIER	PFNN-CISCO	PFNN-ATOKA
DEPTH, FEET.....	2362	7970	12430
WELLHEAD PRESSURE, PSIG.....	450	2110	6906
OPEN FLOW, MCFD.....	2207	10430	69000
COMPONENT, MOLE% PCT			
METHANE.....	50.7	91.6	96.3
ETHANE.....	4.8	4.5	1.9
PROPANE.....	1.6	1.3	0.4
N-BUTANE.....	0.3	0.4	0.1
ISOBUTANE.....	0.2	0.4	0.1
N-PENTANE.....	TRACE	0.1	TRACE
ISOPENTANE.....	0.1	0.2	TRACE
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	TRACE	0.2	0.1
NITROGEN.....	42.1	1.0	0.5
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.2	0.4
HELIUM.....	0.14	0.02	0.02
HEATING VALUE**.....	662	1096	1032

* 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

	INDEX SAMPLE 14036	INDEX SAMPLE 14242	INDEX SAMPLE 14008
STATE.....	NORTH DAKOTA	OKLAHOMA	OKLAHOMA
COUNTY.....	BURKE	ALFALFA	BLAINE
FIELD.....	STONVIEW	LAMBERT NW	LONGDALE SE
WELL NAME.....	HOLTE-BANK OF ND NO. 1	WEERA NO. 9-R	BOSTON NO. 1-20
LOCATION.....	SFC. 31, T161N, R94W	SEC. 9, T26N, R12W	SEC. 20, T19N, R12W
OWNER.....	H.L. HUNT/PHILLIPS PET CO.	RAN RICKS, JR.	UNIVERSAL RESOURCES CORP.
COMPLETED.....	07/02/72	05--/75	03/14/74
SAMPLED.....	06/18/74	12--/74	05/13/74
FORMATION.....	DFVO-ORDO COMMINGLED	PENN-RED FORK	MISS-CHESTER
DEPTH, FEET.....	10714	NOT GIVEN	8032
WELLHEAD PRESSURE, PSIG.....	3650	1820	2950
OPEN FLOW, MCFD.....	340000	3100	4768
COMPONENT, MOLE PCT			
METHANE.....	43.1	88.8	86.3
ETHANE.....	4.7	5.5	5.9
PROPANE.....	1.8	2.6	3.1
N-BUTANE.....	0.5	0.7	1.3
ISOBUTANE.....	0.5	0.5	0.7
N-PENTANE.....	0.1	0.2	0.4
ISOPENTANE.....	0.3	0.3	0.5
CYCLOPENTANE.....	0.1	0.1	0.2
HEXANES PLUS.....	0.3	0.2	0.5
NITROGEN.....	46.8	0.9	0.6
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	0.4	0.0	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	0.1	0.5
HELUM.....	0.37	0.04	0.03
HEATING VALUE**.....	637	1141	1199

* 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

	INDEX SAMPLE	127 13889	INDEX SAMPLE	128 14138	INDEX SAMPLE	129 14157
STATE.....	OKLAHOMA		OKLAHOMA		OKLAHOMA	
COUNTY.....	BLAINE		BLAINE		BRYAN	
FIELD.....	OKEFNE SW		SOUTHARD SE		AYLESWORTH SF	
WELL NAME.....	ORLANDER NO. 1-18		BOECKMAN NO. 1		NEFF GODFREY NO. 2	
LOCATION.....	SFC. 18, T18N, R11W		SFC. 20, T18N, R11W		SEC. 22, T6S, R7E	
OWNER.....	ARKLA EXPLORATION CO.		TEXAS OIL & GAS CORP.		JAKE L. HAMON	
COMPLETED.....	09/16/73		05/04/74		05/03/74	
SAMPLED.....	12/18/73		08/29/74		09/26/74	
FORMATION.....	PFNN-MORROW		PFNN-MORROW		MISS-WOODFORD	
DEPTH, FEET.....	7921		7877		3575	
WELLHEAD PRESSURE, PSIG.....	5200		4450		798	
OPEN FLOW, MCFD.....	4250		3036		6759	
COMPONENT, MOLE PCT						
METHANE.....	93.1	-----	92.3	-----	84.0	-----
ETHANE.....	3.6	-----	4.4	-----	7.7	-----
PROPANE.....	1.2	-----	1.7	-----	3.6	-----
N-BUTANE.....	0.2	-----	0.3	-----	0.7	-----
ISOBUTANE.....	0.3	-----	0.3	-----	0.3	-----
N-PENTANE.....	0.0	-----	TRACE	-----	0.1	-----
ISOPENTANE.....	0.3	-----	0.2	-----	0.1	-----
CYCLOPENTANE.....	0.1	-----	0.1	-----	TRACE	-----
HEXANES PLUS.....	0.2	-----	0.1	-----	0.1	-----
NITROGEN.....	0.5	-----	0.4	-----	2.9	-----
OXYGEN.....	TRACE	-----	0.0	-----	0.0	-----
ARGON.....	0.0	-----	0.0	-----	TRACE	-----
HYDROGEN.....	0.0	-----	TRACE	-----	TRACE	-----
HYDROGEN SULFIDE**.....	0.0	-----	0.0	-----	0.0	-----
CARBON DIOXIDE.....	0.3	-----	0.2	-----	0.3	-----
HELUM.....	0.03	-----	0.03	-----	0.05	-----
HEATING VALUE*.....	1082	-----	1096	-----	1130	-----

* 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

	INDEX SAMPLE 13844	INDEX SAMPLE 13989	INDEX SAMPLE 13873
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CADDY	CADDY	CANADIAN
FIELD.....	SPRINGER F	COGAR	FORT RENO SW
WELL NAME.....	JOSHUA UNIT 29-1	STAHLMAN NO. 1	DENWALT NO. 1
LOCATION.....	SEC. 29, T10N, R10W	SEC. 9, T10N, R9W	SEC. 1, T12N, R10W
OWNER.....	JONFS & PELLOW OIL CO.	TEXAS PACIFIC OIL CO., INC.	TEXAS OIL & GAS CORP.
COMPLETED.....	10/31/73	12/30/73	06/01/73
SAMPLED.....	12/26/73	05/03/74	01/24/74
FORMATION.....	PENN-SPRINGER	PENN-MORROW/SPRINGER	PENN-SPRINGER
DEPTH, FEET.....	13900	12004	11019
WELLHEAD PRESSURE, PSIG.....	8000	7435	6125
OPEN FLOW, MCFD.....	6400	NOT GIVEN	7400
COMPONENT, MOLE PCT			
METHANE.....	93.6	96.5	91.5
ETHANE.....	1.0	1.8	4.5
PROPANE.....	0.2	0.3	2.0
N-BUTANE.....	0.0	TRACE	0.4
ISOBUTANE.....	0.0	TRACE	0.4
N-PENTANE.....	0.0	TRACE	0.1
ISOPENTANE.....	0.0	0.0	0.1
CYCLOPENTANE.....	0.0	TRACE	0.1
HEXANES PLUS.....	0.0	0.1	0.1
NITROGEN.....	3.7	0.4	0.3
OXYGEN.....	0.1	0.1	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.4	0.7	0.6
HELIUM.....	0.02	0.02	0.02
HEATING VALUE*.....	971	1023	1100

* 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

	INDEX SAMPLE 13913	INDEX SAMPLE 14186	INDEX SAMPLE 14112
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CANADIAN	CARTER	COAL
FIELD.....	UNION CITY	HEALDTON	LULA NE
WELL NAME.....	HILL NO. 1	ORME NO. 3	MORGAN NO. 1
LOCATION.....	SEC. 27, T11N, R7W	SEC. 34, T35, R3W	SEC. 27, T3N, R9E
OWNER.....	MACKELLAR, INC.	KINGERY DRILLING CO.	WESTHEIMER-NEUSTADT CORP.
COMPLETED.....	01/12/74	09--/73	09/25/73
SAMPLED.....	02/07/74	10--/74	07/24/74
FORMATION.....	PFNN-OSBORNE	PENN-DORNICK HILLS	PENN-CROMWELL
DEPTH, FEET.....	9610	5700	4060
WELLHEAD PRESSURE, PSIG.....	3455	1700	1500
OPEN FLOW, MCFD.....	2239	3710	20000
COMPONENT, MOLE PCT			
METHANE.....	86.6	77.2	84.9
ETHANE.....	7.7	10.8	7.9
PROPANE.....	3.0	5.8	3.0
N-BUTANE.....	0.5	1.5	0.8
ISOBUTANE.....	0.4	0.5	0.3
N-PENTANE.....	0.1	0.4	0.2
ISOPENTANE.....	0.2	0.2	0.2
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	0.8	3.1	2.2
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.1	TRACE
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.2	0.2
HELIUM.....	0.03	0.08	0.09
HEATING VALUE*	1141	1233	1142

* 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

	INDEX SAMPLE 14126	INDEX SAMPLE 13922	INDEX SAMPLE 14025
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	COAL	CUSTER	DEWEY
FIELD.....	LULA NE	WILDCAT	VICI
WELL NAME.....	MORGAN NO. 1	PAULINE REINSON NO. 1	BASKETT NO. 1
LOCATION.....	SFC. 27. T3N. R9E	SEC. 20. T14N. R15W	SEC. 28. T19N. R20W
OWNER.....	WFSTHFIMER-NFUSTADT CORP.	LVO CORP.	MONSANTO CO.
COMPLETED.....	09/25/73	01/15/74	12/27/73
SAMPLED.....	07/24/74	02/18/74	06/10/74
FORMATION.....	PFNN-CROMWELL	PFNN-MORROW	PENN-MORROW
DEPTH, FEET.....	4060	12250	10180
WELLHEAD PRESSURE, PSIG.....	1500	6000	1350
OPEN FLOW, MCFD.....	20000	NOT GIVEN	1200
COMPONENT, MOLE PCT			
METHANE.....	85.1	93.7	85.7
ETHANE.....	7.7	3.7	7.6
PROPANE.....	3.0	1.0	3.5
N-BUTANE.....	0.8	0.2	0.8
ISOBUTANE.....	0.3	0.2	0.4
N-PENTANE.....	0.2	TRACE	0.2
ISOPENTANE.....	0.2	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.7
NITROGEN.....	2.3	0.4	0.7
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.7	0.7
HELUM.....	0.08	0.02	0.05
HEATING VALUE*.....	1137	1064	1167

* 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

	INDEX SAMPLE 13865	INDEX SAMPLE 13979	INDEX SAMPLE 14167
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	ELLIS	ELLIS	GRADY
FIELD.....	GAGE NE	VICI W	MINCO
WELL NAME.....	WHITTFNBERG NO. 1	AARON MORGAN NO. 1	LITTLE NO. 1
LOCATION.....	SFC. 32, T24N, R23W	SFC. 3, T19N, R21W	SEC. 8, T9N, RRW
OWNER.....	TEXAS OIL & GAS CORP.	NATOL PETROLEUM CORP.	WOODS PETROLEUM CORP.
COMPLETED.....	07/24/73	12/12/73	04/19/74
SAMPLED.....	01/17/74	04/19/74	10/04/74
FORMATION.....	PFNN-MORROW	PFNN-MORROW	PFNN-SPRINGER
DEPTH, FEET.....	8034	10329	12388
WELLHEAD PRESSURE, PSIG.....	2195	2500	8253
OPEN FLOW, MCFD.....	2480	10000	80000
COMPONENT, MOLE PCT			
METHANE.....	94.8	85.1	96.7
ETHANE.....	2.6	7.3	1.7
PROPROPANE.....	0.9	3.3	0.3
N-BUTANE.....	0.2	0.9	TRACE
ISOBUTANE.....	0.2	0.6	0.1
N-PENTANE.....	TRACE	0.3	TRACE
ISOPENTANE.....	0.1	0.4	TRACE
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.4	0.1
NITROGEN.....	0.4	0.5	0.2
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	1.0	0.9
HELIUM.....	0.01	0.04	0.02
HEATING VALUE*.....	1053	1183	1026

* CALCULATED GROSS BTU PFR 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

	INDEX 142 SAMPLE 14168	INDEX 143 SAMPLE 13950	INDEX 144 SAMPLE 14006
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	GRADY	HARPER	HASKELL
FIELD.....	MINCO	PARKER SW	KEOTA NE
WELL NAME.....	MALCOM NO. 1	SMITH NO. 1	CARSON NO. 1-30
LOCATION.....	SEC. 16, T9N, R8W	SEC. 23, T25N, R21W	SEC. 30, T10N, R23E
OWNER.....	WOODS PETROLEUM CORP.	OKLAHOMA NATURAL GAS CO.	CLEARY PETROLEUM CO.
COMPLETED.....	11/11/73	01/29/74	01/24/74
SAMPLED.....	10/04/74	03/13/74	05/03/74
FORMATION.....	PENN-SPRINGER	MISS-CHESTER	PENN-SPIRO
DEPTH, FEET.....	12444	6994	7396
WELLHEAD PRESSURE, PSIG.....	8306	1750	1571
OPEN FLOW, MCFD.....	37759	2900	15815
COMPONENT, MOLE PCT			
METHANE.....	96.8	92.5	96.2
ETHANE.....	1.7	3.6	0.9
PROPANE.....	0.3	1.4	0.1
N-BUTANE.....	TRACE	0.3	0.0
ISOBUTANE.....	0.1	0.3	0.0
N-PENTANE.....	TRACE	0.1	0.0
ISOPENTANE.....	TRACE	0.2	0.0
CYCLOPENTANE.....	TRACE	0.1	0.0
HEXANES PLUS.....	0.1	0.2	0.0
NITROGEN.....	0.2	0.7	0.3
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	0.6	2.3
HEL IUM.....	0.02	0.10	0.09
HEATING VALUE*.....	1027	1085	993

* 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

	INDEX SAMPLE 13930	INDEX SAMPLE 13932	INDEX SAMPLE 13949
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	KINGFISHER	LOGAN	MAJOR
FIELD.....	OMEGA E	HULL E	CHESTER N
WELL NAME.....	FTRESTONE NO. 1	FASTWOOD NO. 5	HAYNES NO. 1-28
LOCATION.....	SFC. 9. T16N. R9W	SEC. 8. T18N. R3W	SFC. 28. T21N. R16W
OWNER.....	CAYMAN EXPLORATION CORP.	GFMIF OIL & GAS CORP.	ASHLAND OIL INC.
COMPLETED.....	03/03/73	01/31/74	10/15/73
SAMPLED.....	02/28/74	03/05/74	NOT GIVEN
FORMATION.....	MISS-CHESTER-MANNING	-JACK E SAND	MISS-CHESTER
DEPTH, FEET.....	8243	2652	7792
WELLHEAD PRESSURE, PSIG.....	2659	1150	2739
OPEN FLOW, MCFD.....	2083	16000	4103
COMPONENT, MOLE PCT			
METHANE.....	92.2	75.0	93.8
ETHANE.....	3.9	6.0	3.3
PROPANE.....	1.7	3.4	1.1
N-BUTANE.....	0.4	1.0	0.3
ISOBUTANE.....	0.4	0.5	0.2
N-PENTANE.....	0.1	0.2	0.1
ISOPENTANE.....	0.2	0.2	0.1
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	0.5	13.1	0.4
OXYGEN.....	0.0	0.1	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.1	0.5
HELUM.....	0.03	0.24	0.04
HEATING VALUE*.....	1102	1032	1077

* 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

	INDEX SAMPLE 14111	INDEX SAMPLE 14159	INDEX SAMPLE 14123
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	MCLAIN	OSAGE	ROGER MILLS
FIELD.....	NFWCASTLE	DOMES POND	REYDON SE
WELL NAME.....	RABB NO. 1-19	FRIEND NO. F-2	PIERCE NO. 1
LOCATION.....	SFC. 19, T9N, R4W	SFC. 17, T27N, R11E	SEC. 9, T13N, R25W
OWNER.....	MFSA PETROLFUM CO.	PRODUCERS OIL CO.	EL PASO NATURAL GAS CO.
COMPLETED.....	11/05/73	05/28/74	05/21/74
SAMPLED.....	07/--/74	09/30/74	08/07/74
FORMATION.....	PENN-OSBORNE	MISS-CHAT	DEVO-HUNTON
DEPTH, FEET.....	9040	1900 280 50000	22566 6110 12081
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN		
OPEN FLOW, MCFD.....	NOT GIVEN		
COMPONENT, MOLE PCT			
METHANE.....	87.4	85.6	91.6
ETHANE.....	5.8	4.6	0.1
PROPANE.....	2.4	1.5	TRACE
N-BUTANE.....	0.6	0.6	0.0
ISOBUTANE.....	0.4	0.4	0.0
N-PENTANE.....	0.2	0.2	0.0
ISOPENTANE.....	0.2	0.3	0.0
CYCLOPENTANE.....	TRACE	0.1	0.0
HEXANES PLUS.....	0.1	0.1	0.0
NITROGEN.....	2.5	2.0	3.5
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	4.6	4.7
HELIUM.....	0.08	0.04	0.06
HEATING VALUE*.....	1107	1052	930

* 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

	INDEX SAMPLE 13972	INDEX SAMPLE 14231	INDEX SAMPLE 14232
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	ROGER MILLS	STEPHENS	STEPHENS
FIELD.....	REYDON W	SHOLEM ALFCHEM	SHOLEM ALFCHEM
WELL NAME.....	SCRIVNFR NO. 1	DENVER NEWMAN NO. 1	DENVER NEWMAN NO. 1
LOCATION.....	SEC. 35, T14N, R26W	SEC. 22, T1N, R4W	SEC. 22, T1N, R4W
OWNER.....	EL PASO NATURAL GAS CO.	HELMERICH & PAYNE, INC.	HELMERICH & PAYNE, INC.
COMPLETED.....	11/25/73	10/02/74	10/02/74
SAMPLED.....	04/03/74	11/21/74	11/21/74
FORMATION.....	PFNN-MORROW U	MISS-GOODWIN	MISS-SYCAMORE
DEPTH, FEET.....	14986	6514	8522
WELLHEAD PRESSURE +PSIG.....	10467	1714	1454
OPEN FLOW, MCFD.....	4846	2129	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	97.1	90.2	77.0
ETHANE.....	0.6	5.2	10.3
PROPANE.....	0.1	2.0	5.6
N-BUTANE.....	TRACE	0.5	1.5
ISOBUTANE.....	TRACE	0.3	0.5
N-PENTANE.....	TRACE	0.1	0.3
ISOPENTANE.....	TRACE	0.2	0.2
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	TRACE	0.1	0.2
NITROGEN.....	0.3	1.1	3.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.9	0.1	0.7
HELUM.....	0.02	0.09	0.07
HEATING VALUE*.....	997	1107	1213

* CALCULATED GROSS HTU 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

	INDEX SAMPLE 14228	INDEX SAMPLE 14229	INDEX SAMPLE 14230
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	TEXAS	TEXAS	TEXAS
FIELD.....	FVA SE	FVA SE	FVA SE
WELL NAME.....	STONEBRAKER AQ NO. 2	STONEBRAKER AQ NO. 2	STONEBRAKER AQ NO. 2
LOCATION.....	SFC. 20, T3N, R12ECM	SFC. 20, T3N, R12ECM	SEC. 20, T3N, R12ECM
OWNER.....	CITIES SERVICE OIL CO.	CITIES SERVICE OIL CO.	CITIES SERVICE OIL CO.
COMPLETED.....	09/13/74	09/18/74	09/18/74
SAMPLED.....	11/21/74	11/21/74	11/21/74
FORMATION.....	PFNN-CHEROKEE	PFNN-KEYES	PENN-LANSING
DEPTH, FEET.....	5303	6242	4428
WELLHEAD PRESSURE +PSIG.....	1098	1020	947
OPEN FLOW, MCFD.....	1414	1550	8000
COMPONENT, MOLE PCT			
METHANE.....	78.4	78.5	77.0
ETHANE.....	8.4	6.6	5.9
PROPANE.....	4.6	3.9	3.3
N-BUTANE.....	1.1	1.3	1.0
ISOBUTANE.....	0.4	0.6	0.4
N-PENTANE.....	0.2	0.4	0.2
ISOPENTANE.....	0.2	0.4	0.3
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	6.2	7.8	11.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	TRACE
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	TRACE
HELUM.....	0.15	0.19	0.22
HEATING VALUE*.....	1137	1123	1045

* 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

	INDEX SAMPLE 13867	INDEX SAMPLE 14035	INDEX SAMPLE 13915
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	TEXAS	WOODWARD	WOODWARD
FIELD.....	HITCHLAND N	ELLWOOD	SHARON SW
WELL NAME.....	HITCH UNIT B NO. 1	STATE NO. 1-36	WREATH NO. 1
LOCATION.....	SEC. 27, T1N, R16E CM	SFC. 36, T22N, R22W	SEC. 17, T20N, R21W
OWNER.....	PFTROLEUM INC.	MAY PETROLEUM, INC.	ODESSA NATURAL CORP.
COMPLETED.....	06/08/73	09/20/73	12/14/73
SAMPLED.....	01/18/74	06/30/74	02/12/74
FORMATION.....	PENN-MORROW	PENN-MORROW	PENN-MORROW
DEPTH, FEET.....	6450	9257	10028
WELLHEAD PRESSURE, PSIG.....	1162	2963	2190
OPEN FLOW, MCFD.....	23857	7750	2287
COMPONENT, MOLE PCT			
METHANE.....	89.1	90.4	88.0
ETHANE.....	5.0	5.2	6.3
PROPANE.....	2.1	1.7	2.5
N-BUTANE.....	0.6	0.4	0.5
ISOBUTANE.....	0.4	0.3	0.5
N-PENTANE.....	0.3	TRACE	0.1
ISOPENTANE.....	0.2	0.3	0.2
CYCLOPENTANE.....	0.2	TRACE	0.1
HEXANES PLUS.....	0.5	0.1	0.2
NITROGEN.....	1.2	0.5	0.5
OXYGEN.....	0.0	0.1	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.9	0.9
HELIUM.....	0.11	0.06	0.05
HEATING VALUE*.....	1135	1095	1130

* 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

	INDEX 160 SAMPLE 14234	INDFX 161 SAMPLE 14045	INDEX 162 SAMPLE 14154
STATE.....	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA
COUNTY.....	CLEARFIELD	ERIE	SOMERSET
FIELD.....	DECATOR W	ERIE COUNTY	WILDCAT
WELL NAME.....	GFMFRAL REFACTORIES NO. 1	MCLAUGHLIN NO. 1	R.J. LAMBERT NO. 1
LOCATION.....	SFC. C, HOUTZDALE QUADRANGLE	MCKEAN TOWNSHIP	STONY CREEK TOWNSHIP
OWNER.....	TEXACO INC.	NATIONAL FUEL GAS SUPPLY	AMOCO PRODUCTION CO.
COMPLETED.....	03/30/73	01/17/73	09/30/73
SAMPLED.....	11/19/74	07/10/74	08/28/74
FORMATION.....	DFVO-ORISKANY	DFVO-ORISKANY	DFVO-ORISKANY
DEPTH, FEET.....	7995	2175	8636
WELLHEAD PRESSURE (PSIG).....	4250	808	3250
OPEN FLOW, MCFD.....	2196	15000	1500
COMPONENT, MOLE PCT			
METHANE.....	97.7	77.3	98.3
ETHANE.....	1.5	4.9	0.9
PROPANE.....	0.1	2.4	0.1
N-BUTANE.....	0.0	0.6	0.0
ISOBUTANE.....	0.0	0.3	0.0
N-PENTANE.....	0.0	0.1	0.0
ISOPENTANE.....	0.0	0.2	0.0
CYCLOPENTANE.....	0.0	0.1	0.0
HEXANES PLUS.....	0.0	0.1	0.0
NITROGEN.....	0.5	11.7	0.5
OXYGEN.....	0.0	2.1	0.0
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE*+.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.2
HELIUM.....	0.02	0.22	0.03
HEATING VALUE*.....	1019	985	1014

* CALCULATED GROSS HTU 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

	INDEX SAMPLE 14106	INDEX SAMPLE 14107	INDEX SAMPLE 13886
STATE.....	PENNSYLVANIA	PENNSYLVANIA	TEXAS
COUNTY.....	VENANGO	VENANGO	AUSTIN
FIELD.....	HARKEYVILLE	WESLEY	NEW ULM SW
WELL NAME.....	W.F. DUNCAN NO. 1	TASA CORP. NO. 1	HENRY FOERSTER UNIT NO. 1
LOCATION.....	SFC. A, HILLARDS QUADRANGLE	SEC. A, HILLARDS QUAD.	JAMES TYLEE SUR. A-304
OWNER.....	PEOPLES NATURAL GAS CO.	PEOPLES NATURAL GAS CO.	PRAIRIE PRODUCING CO.
COMPLETED.....	04/12/73	12/19/72	10/04/72
SAMPLED.....	07/16/74	07/16/74	11/12/73
FORMATION.....	SILU-MEDINA	SILU-MEDINA	EOCE-WILCOX
DEPTH, FEET.....	6535	6350	9366
WELLHEAD PRESSURE, PSIG.....	1638	1630	2897
OPEN FLOW, MCFD.....	5600	2740	9800
COMPONENT, MOLE PCT			
METHANE.....	94.1	88.5	49.6
ETHANE.....	2.2	6.6	14.8
PROPROPANE.....	0.2	1.5	18.5
N-BUTANE.....	TRACE	0.3	5.2
ISOBUTANE.....	TRACE	0.3	4.5
N-PENTANE.....	TRACE	0.1	1.0
ISOPENTANE.....	TRACE	0.1	1.9
CYCLOPENTANE.....	TRACE	TRACE	0.2
HEXANES PLUS.....	TRACE	0.2	0.6
NITROGEN.....	3.3	2.4	0.4
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	3.2
HELUM.....	0.09	0.07	TRACE
HEATING VALUE*.....	998	1093	1736

* 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

	INDEX SAMPLE 13856	INDEX SAMPLE 14226	INDEX SAMPLE 14227
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	BFF	BRAZORIA	BRAZORIA
FIELD.....	TULETA N	BRAZOS BLOCK 386-S	BRAZOS BLOCK 386-S
WELL NAME.....	W.E. MCKINNEY NO. 2	NO. 3	NO. 3
LOCATION.....	L.C. RANDOLPH SUR. A-279	BLK. 307-L, OFFSHORE	BLOCK 307-L, OFFSHORE
OWNER.....	HUGHES & HUGHES	MOBIL OIL CORP.	MOBIL OIL CORP.
COMPLETED.....	05/13/72	08/04/72	08/04/72
SAMPLED.....	01/02/74	11/18/74	11/18/74
FORMATION.....	FOCE-WILCOX	MIOC-	MIOC-
DEPTH, FEET.....	8935	6895	6895
WELLHEAD PRESSURE, PSIG.....	3905	2055	2055
OPEN FLOW, MCFD.....	82520	24000	24000
COMPONENT, MOLE PCT			
METHANE.....	86.1	96.6	96.6
ETHANE.....	6.3	1.9	1.9
PROPANE.....	2.6	0.5	0.6
N-BUTANE.....	0.5	0.1	0.1
ISOBUTANE.....	0.5	0.2	0.2
N-PENTANE.....	TRACE	TRACE	TRACE
ISOPENTANE.....	0.3	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.2	0.4	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.3	0.1	0.1
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1104	1045	1048

* 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

	INDEX SAMPLE 13924	INDEX SAMPLE 13925	INDEX SAMPLE 13900
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	BRAZORIA	BRAZORIA	BROOKS
FIELD.....	CLEMENS SW	CLEMENS SW	KELSY DEEP
WELL NAME.....	F.M. MCCARTHY NO. 1	E.M. MCCARTHY NO. 1	MCGILL BROTHERS NO. 203 T
LOCATION.....	T.B. BELL SUR., A-41	T.B. BELL SUR., A-41	LA BLANCO GRANT
OWNER.....	DOW CHEMICAL CO. U.S.A.	DOW CHEMICAL CO. U.S.A.	EXXON CO. U.S.A.
COMPLETED.....	10/23/72	10/23/72	09/09/72
SAMPLED.....	02/14/74	02/14/74	01/30/74
FORMATION.....	OLIG-FRI0	OLIG-FRI0	OLIG-FRI0-19-K-NW
DEPTH, FEET.....	11352	12692	5906
WELLHEAD PRESSURE, PSIG.....	2780	7770	1910
OPEN FLOW, MCFD.....	14300	706	8857
COMPONENT, MOLE PCT			
METHANE.....	94.0	92.8	92.8
ETHANE.....	2.8	3.1	3.9
PROPANE.....	0.9	1.1	1.5
N-BUTANE.....	0.2	0.2	0.4
ISOBUTANE.....	0.3	0.4	0.4
N-PENTANE.....	0.1	0.1	TRACE
ISOPENTANE.....	0.1	0.1	0.3
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.5	0.4	0.3
OXYGEN.....	TRACE	0.1	0.1
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	TRACE	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	1.6	0.1
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1056	1058	1098

* 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

	INDEX 172 SAMPLE 13866	INDEX 173 SAMPLE 14198	INDEX 174 SAMPLE 14200
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	CALHOUN	CHAMBERS	COLORADO
FIELD.....	APPLING SE	RED FISH REFF N	ENGLEHART
WELL NAME.....	FLORENCE M. TRULL NO. 1	STATE TRACT 131 NO. 2	HAROLD JOHNSON NO. 8-1
LOCATION.....	JAMFS HUGHSON SUR. A-23	GALVESTON BAY	SABRG SUR. 17, A-539
OWNER.....	ROBERT MOSBACHER	SUN OIL CO.	TEXAS OIL & GAS CORP.
COMPLETED.....	12/02/71	02/27/73	07/20/73
SAMPLED.....	01/17/74	10/31/74	10/30/74
FORMATION.....	-MELBOURNE	OLIG-FRIO F-7	EOCF-WILCOX C
DEPTH, FEET.....	8237	8379	8818
WELLHEAD PRESSURE, PSIG.....	4812	2985	2440
OPEN FLOW, MCFD.....	12400	29056	750
COMPONENT, MOLE PCT			
METHANE.....	88.9	92.3	89.4
ETHANE.....	4.1	3.9	4.6
PROPANE.....	1.7	1.6	2.1
N-BUTANE.....	0.3	0.4	0.5
ISOBUTANE.....	0.8	0.5	0.5
N-PENTANE.....	0.1	0.1	TRACE
ISOPENTANE.....	0.2	0.2	0.3
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	3.0	0.4	0.2
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	0.3	2.2
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1078	1095	1094

* 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

	INDEX SAMPLE 13884	INDEX SAMPLE 13885	INDEX SAMPLE 13887
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	COLORADO	COLORADO	COLORADO
FIELD.....	NEW ULM SW	NEW ULM SW	NEW ULM SW
WELL NAME.....	ARCO-FFF NO. 1-C	ARCO-FEE NO. 2UT	JOHN M. GAY NO. 1
LOCATION.....	JAMES NELSON SUR. A-434	JAMES NELSON SUR. A-434	JAMES TYLEE SUR. A-550
OWNER.....	PRAIRIE PRODUCING CO.	PRAIRIE PRODUCING CO.	PRAIRIE PRODUCING CO.
COMPLETED.....	12/16/71	08/31/72	08/12/72
SAMPLED.....	11/12/73	11/12/73	11/12/73
FORMATION.....	Eocene-Wilcox	Eocene-Wilcox	Eocene-Wilcox
DEPTH, FEET.....	9414	9156	9382
WELLHEAD PRESSURE, PSIG.....	3107	2300	3007
OPEN FLOW, MCFD.....	5200	2500	5900
COMPONENT, MOLE PCT			
METHANE.....	58.8	41.6	74.4
ETHANE.....	13.0	12.0	5.9
PROPANE.....	13.9	27.0	4.3
N-BUTANE.....	4.0	7.1	1.0
ISOBUTANE.....	3.4	6.5	1.0
N-PENTANE.....	0.7	1.4	0.2
ISOPENTANE.....	1.8	0.7	0.5
CYCLOPENTANE.....	0.2	0.1	0.1
HEXANES PLUS.....	0.6	0.4	0.2
NITROGEN.....	0.4	0.2	7.7
OXYGEN.....	TRACE	TRACE	1.7
ARGON.....	0.0	0.0	0.1
HYDROGEN.....	0.0	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.2	2.9	2.9
HELIUM.....	TRACE	TRACE	0.01
HEATING VALUE*.....	1584	1909	1082

* CALCULATED GROSS BTU PFR 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

	INDEX SAMPLE 14029	INDEX SAMPLE 14030	INDEX SAMPLE 14161
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	COTTELE	COTTELE	CRAEF
FIELD.....	PROVIDENCE	PROVIDENCE	BLOCK 27
WELL NAME.....	J.J. GIBSON NO. 4	J.J. GIBSON NO. 3	ELL LONG NO. 13
LOCATION.....	SEC. 38, F.P.KNOTT SUR.	SEC. 34, F.P.KNOTT SUR.	SEC. 25, BLK. 27, PSL SUR.
OWNER.....	GUS EDWARDS	GUS EDWARDS	AMOCO PRODUCTION CO.
COMPLETED.....	06/21/74	06/18/74	03/08/73
SAMPLED.....	06/21/74	06/18/74	10/03/74
FORMATION.....	PENN-ATOKA	PENN-ATOKA	PERM-TUBB
DEPTH, FEET.....	6146	6158	4200
WELLHEAD PRESSURE, PSIG.....	1900	2059	5
OPEN FLOW, MCFD.....	4600	8500	200
COMPONENT, MOLE PCT			
METHANE.....	79.3 -----	80.8 -----	53.8 -----
ETHANE.....	9.6 -----	9.8 -----	27.8 -----
PROPANE.....	4.4 -----	4.5 -----	0.0 -----
N-BUTANE.....	1.2 -----	1.0 -----	4.1 -----
ISOBUTANE.....	0.8 -----	0.6 -----	3.2 -----
N-PENTANE.....	0.2 -----	0.1 -----	2.6 -----
ISOPENTANE.....	0.6 -----	0.2 -----	3.5 -----
CYCLOPENTANE.....	0.1 -----	TRACE -----	0.4 -----
HEXANES PLUS.....	0.3 -----	0.1 -----	1.5 -----
NITROGEN.....	3.1 -----	2.6 -----	0.0 -----
OXYGEN.....	TRACE -----	TRACE -----	0.0 -----
ARGON.....	TRACE -----	TRACE -----	0.1 -----
HYDROGEN.....	0.0 -----	0.0 -----	0.0 -----
HYDROGEN SULFIDE**	0.0 -----	0.0 -----	0.6 -----
CARBON DIOXIDE.....	0.2 -----	0.2 -----	2.4 -----
HELIUM.....	0.10 -----	0.10 -----	0.03 -----
HEATING VALUE*.....	1210 -----	1183 -----	1646 -----

* 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

	INDEX 181 SAMPLE 13881	INDEX 182 SAMPLE 13914	INDEX 183 SAMPLE 14002
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	DEWITT	DIMMIT	DUVAL
FIELD.....	YORKTOWN S	PENA CREEK	HOFFMAN
WELL NAME.....	CLIFFORD F. SPIES NO. 1	L. STEWART NO. 1	A. WEIL NO. B-2
LOCATION.....	J.T. TINSLEY SUR. A-455	SAM L. WILSON SUR. 654-A-1452	SA & MG SUR., A-524
OWNER.....	ROBERT MOSBACHER	HUGHES & HUGHES OIL & GAS	KILLAM & HURD, INC.
COMPLETED.....	01/17/72	10/13/72	09/15/71
SAMPLED.....	01/27/74	02/07/74	05/02/74
FORMATION.....	EOCE-WILCOX	EOCE-OLMOS	EOCE-JACKSON
DEPTH, FEET.....	11100	2341	1970
WELLHEAD PRESSURE, PSIG.....	6850	775	600
OPEN FLOW, MCFD.....	12500	3400	5600
COMPONENT, MOLE PCT			
METHANE.....	62.8	94.3	98.4
ETHANE.....	13.7	3.8	TRACE
PROPANE.....	5.9	0.1	TRACE
N-BUTANE.....	1.1	TRACE	0.0
ISOBUTANE.....	1.7	0.2	0.0
N-PENTANE.....	0.2	0.0	0.0
ISOPENTANE.....	0.9	0.1	0.0
CYCLOPENTANE.....	0.1	TRACE	0.0
HEXANES PLUS.....	0.5	TRACE	0.0
NITROGEN.....	5.0	0.8	1.4
OXYGEN.....	1.3	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	6.7	0.7	0.1
HELUM.....	TRACE	0.01	0.01
HEATING VALUE*.....	1205	1037	997

* 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

	INDEX SAMPLE 13880	INDEX SAMPLE 14151	INDEX SAMPLE 14197
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	DUVAL	FREESTONE	GALVESTON
FIELD.....	VIGGO	TEAS	BLOCK 176-S
WELL NAME.....	D.V. KOHLER A NO. 97D	HENRY WILLIAMS NO. 1	STATE TRACT 176-S NO. 3
LOCATION.....	BS&F SUR. 401, A100	CHARLES TEAS SUR. A-610	OFFSHORE
OWNER.....	EXXON CO., U.S.A.	GFTTY OIL CO.	MICHELL ENERGY CORP.
COMPLETED.....	08/02/72	03/24/73	07/24/72
SAMPLED.....	01/30/74	09/20/74	10/---/74
FORMATION.....	Eocene-YGua	CRET-PETTIT	OLIG-FRTO L-1
DEPTH, FEET.....	3218	6898	8604
WELLHEAD PRESSURE, PSIG.....	600	2334	3115
OPEN FLOW, MCFD.....	50000	8400	54000
COMPONENT, MOLE PCT			
METHANE.....	94.0	88.5	94.5
ETHANE.....	3.7	5.7	3.3
PROPANE.....	0.2	2.0	0.9
N-BUTANE.....	0.0	0.5	0.2
ISOBUTANE.....	0.6	0.6	0.3
N-PENTANE.....	0.0	0.1	0.1
ISOPENTANE.....	0.1	0.3	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	0.5	1.2	0.4
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	0.7	0.2
HELUM.....	TRACE	0.03	TRACE
HEATING VALUE*.....	1053	1115	1070

* 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

	INDEX SAMPLE 187 14204	INDEX SAMPLE 188 13923	INDEX SAMPLE 189 13927
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	GALVESTON	HANSFORD	HANSFORD
FIELD.....	LAFITTE'S GOLD	BERNSTEIN	BERNSTEIN E
WELL NAME.....	GALVESTON TOWNSITE NO. 5	THORENSEN NO. 1	BRAVO-HART NO. 1
LOCATION.....	BLK.406, MB MENARD SUR.A-628	SEC. 29, BLK. 1, CIF SUR.	SEC. 32, BLK.1, CIF SUR.
OWNER.....	MITCHELL ENERGY CORP.	BASIN PETROLEUM CORP.	H & L OPERATING CO.
COMPLETED.....	03/24/73	07/04/74	06/01/73
SAMPLED.....	11/07/74	02/15/74	02/23/74
FORMATION.....	MIOC-L-2 SAND	PENN-MORROW U	PENN-LANSING
DEPTH, FEET.....	9716	6722	5893
WELLHEAD PRESSURE *PSIG.....	6215	1239	1851
OPEN FLOW, MCFD.....	63000	9500	3010
COMPONENT, MOLE PCT			
METHANE.....	93.1	81.1	82.2
ETHANE.....	4.2	7.3	7.6
PROPANE.....	1.3	4.7	4.7
N-BUTANE.....	0.3	1.3	1.3
ISOBUTANE.....	0.5	0.5	0.6
N-PENTANE.....	0.1	0.3	0.3
ISOPENTANE.....	0.1	0.3	0.3
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.2	0.2	0.2
NITROGEN.....	0.1	3.9	2.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	0.1
HELIUM.....	TRACE	0.20	0.13
HEATING VALUE*.....	1098	1175	1195

* 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

	INDEX SAMPLE 14013	INDEX SAMPLE 14014	INDEX SAMPLE 14016
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HANSFORD	HANSFORD	HANSFORD
FIELD.....	HANNAS DRAW	HANNAS DRAW	HANNAS DRAW
WELL NAME.....	CLUCK NO. C-1	HART NO. C-1	RACOL NO. 2
LOCATION.....	SEC. 117, BLK. 2, GH&H SUR.	SEC. 77, BLK. 2, GH&H SUR.	SEC. 116, BLK. 2, GH&H SUR.
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	02/27/74	08/27/73	08/14/73
SAMPLED.....	05/30/74	05/30/74	05/30/74
FORMATION.....	PENN-DOUGLAS	PENN-DOUGLAS	PENN-DOUGLAS
DEPTH, FEET.....	4820	4728	4750
WELLHEAD PRESSURE, PSIG.....	990	999	999
OPEN FLOW, MCFD.....	2800	21000	20000
COMPONENT, MOLE PCT			
METHANE.....	79.1	80.1	79.8
ETHANE.....	5.9	6.2	6.1
PROPANE.....	3.9	4.0	4.1
N-BUTANE.....	1.2	1.3	1.3
ISOBUTANE.....	0.5	0.5	0.5
N-PENTANE.....	0.2	0.3	0.3
ISOPENTANE.....	0.4	0.3	0.3
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	8.0	6.7	6.9
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.1
HELIUM.....	0.38	0.36	0.35
HEATING VALUE*.....	1105	1118	1124

* 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

	INDEX SAMPLE 13986	INDEX SAMPLE 14148	INDEX SAMPLE 13843
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HANSFORD	HANSFORD	HARDIN
FIELD.....	HANSFORD N	MORSE NE	VILLAGE MILLS N
WELL NAME.....	A.R. HENDERSON NO. 2	F.T. RAFFERTY NO. 1	KIRBY LUMMER CO. NO. 2
LOCATION.....	SEC. 82, BLK. 45, H&TC SUR.	SEC. 1, BLK. 4, PSL SUR.	THOMAS J. HATTON SUR. A-279
OWNER.....	YUCCA PETROLEUM CO.	CIG EXPLORATION, INC.	HOUSTON OIL&MINERALS CORP.
COMPLETED.....	03/07/74	07/26/74	03/03/72
SAMPLED.....	04/29/74	09/17/74	12/-/73
FORMATION.....	PENN-TONKAWA	PENN-DOUGLAS	OLIG-FRIO 6500
DEPTH, FEET.....	5352	4704	6520
WELLHEAD PRESSURE, PSIG.....	773	1035	2338
OPEN FLOW, MCFD.....	4350	5900	11007
COMPONENT, MOLE PCT			
METHANE.....	85.1	77.3	72.9
ETHANE.....	6.6	5.2	6.2
PROPANE.....	3.7	3.5	5.3
N-BUTANE.....	1.1	1.1	1.6
ISOBUTANE.....	0.4	0.6	1.9
N-PENTANE.....	0.2	0.3	0.4
ISOPENTANE.....	0.3	0.2	0.7
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.3
NITROGEN.....	1.9	11.0	8.5
OXYGEN.....	0.0	TRACE	1.6
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	0.5
HELUM.....	0.13	0.45	0.01
HEATING VALUE*.....	1157	1051	1171

* 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

	INDEX SAMPLE 14034	INDEX SAMPLE 14182	INDEX SAMPLE 13858
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HEMPHILL	HEMPHILL	HEMPHILL
FIELD.....	HEMPHILL	HEMPHILL	HOWE RANCH
WELL NAME.....	GEORGE "A" NO. 1-45	FLOWERS-R NO. 1	GENE HOWE NO. 1
LOCATION.....	SEC. 45, BLK. 1, I&GN SUR.	SEC. 47, BLK. 1, I&GN SUR.	SEC. 5, BLK. 1, G&M SUR.
OWNER.....	ANADARKO PRODUCTION CO.	ANADARKO PRODUCTION CO.	EL PASO NATURAL GAS CO.
COMPLETED.....	07/10/73	04/01/74	04/12/73
SAMPLED.....	06/26/74	10/23/74	01/07/74
FORMATION.....	PFRM-GRANITE WASH	PFRM-GRANITE WASH	DFVO-HUNTON
DEPTH, FEET.....	10681	10912	17202
WELLHEAD PRESSURE, PSIG.....	2857	1200	5739
OPEN FLOW, MCFD.....	12800	1500	23000
COMPONENT, MOLE PCT			
METHANE.....	83.3	86.1	92.9
ETHANE.....	9.0	7.8	0.2
PROPANE.....	3.2	3.0	TRACE
N-BUTANE.....	0.8	0.7	0.0
ISOBUTANE.....	0.5	0.6	0.0
N-PENTANE.....	0.1	0.2	0.0
ISOPENTANE.....	0.3	0.2	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	0.1	0.1	0.0
NITROGEN.....	1.9	0.7	1.2
OXYGEN.....	0.3	TRACE	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.6	5.5
HELIUM.....	0.03	0.03	0.03
HEATING VALUE*.....	1154	1156	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

	INDEX SAMPLE 199 13978	INDEX SAMPLE 200 13965	INDEX SAMPLE 201 14009
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HFM PHILL	HEMPHILL	HUTCHINSON
FIELD.....	MENDOTA NW	WILDCAT	MORRIS SW
WELL NAME.....	LESLIF WEBB ET AL. NO. 1	HENDERSON NO. 1-64	CUNNINGHAM NO. 1
LOCATION.....	SEC. 189, BLK. C, GMBA SUR.	SEC. 64, BLK. 41, H&TC SUR.	SEC. 8, BLK. 1, BBB&C SUR.
OWNER.....	DIAMOND SHAMROCK CORP.	MESA PETROLEUM CO.	MCCULLOCH OIL CORP.
COMPLETED.....	01/23/70	NOT GIVEN	03/15/74
SAMPLED.....	04/19/74	03/27/74	05/15/74
FORMATION.....	PENN-CHEROKEE	PENN-MORROW	PENN-MARMATON
DEPTH, FEET.....	10266	NOT GIVEN	5270
WELLHEAD PRESSURE, PSIG.....	2114	9035	1200
OPEN FLOW, MCFD.....	5000	NOT GIVEN	2800
COMPONENT, MOLE PCT			
METHANE.....	82.4	94.7	72.7
ETHANE.....	10.2	0.4	6.6
PROPANE.....	4.0	TRACE	4.0
N-BUTANE.....	0.9	0.0	1.1
ISOBUTANE.....	0.6	0.0	0.5
N-PENTANE.....	0.1	0.0	0.3
ISOPENTANE.....	0.2	0.0	0.2
CYCLOPENTANE.....	TRACE	0.0	TRACE
HEXANES PLUS.....	0.1	0.0	0.1
NITROGEN.....	0.6	0.3	13.8
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	4.6	0.2
HELIUM.....	0.05	0.02	0.34
HEATING VALUE*.....	1190	966	1039

* 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

	INDEX SAMPLE 14039	INDEX SAMPLE 14185	INDEX SAMPLE 13876
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HUTCHINSON	JACK	JACKSON
FIELD.....	MORSE SW	JACK COUNTY REGULAR	GANADO W
WELL NAME.....	BARNES "B" NO. 4	E.M. CROFT NO. 1	MINTA DOLFSH R NO. 4
LOCATION.....	SEC. 5, BLK. 1, BB&C SUR.	SEC. 2731, TE&L SUR. A-649	A. ROGERS SUR. A-65
OWNER.....	PHILLIPS PETROLEUM CO.	MCMAHON-BULLINGTON	CLINTON OIL CO.
COMPLETED.....	05/01/74	11/23/73	08/31/73
SAMPLED.....	07/08/74	10/23/74	01/28/74
FORMATION.....	PFRM-WICHITA-ALBANY	PFNN-ATOKA	OLIG-FRIO
DEPTH, FEET.....	3012	4490	4756
WELLHEAD PRESSURE, PSIG.....	378	1600	440
OPEN FLOW, MCFD.....	2200	3400	3600
COMPONENT, MOLE PCT			
METHANE.....	70.4	77.2	95.2
ETHANE.....	8.1	8.3	2.8
PROPANE.....	4.5	6.1	0.7
N-BUTANE.....	0.8	1.8	0.1
ISOBUTANE.....	0.4	0.9	0.2
N-PENTANE.....	0.0	0.4	TRACE
ISOPENTANE.....	0.5	0.5	0.1
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	TRACE	0.3	TRACE
NITROGEN.....	14.3	3.9	0.2
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	0.1	TRACE	0.0
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.3	0.6
HELUM.....	0.75	0.14	TRACE
HEATING VALUE*.....	1037	1238	1047

* 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

	INDEX SAMPLE 205 13860	INDEX SAMPLE 206 14225	INDEX SAMPLE 207 13879
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	JACKSON	JEFFERSON	KLERBERG
FIELD.....	WFSTHOFF RANCH	FANNETT	ALAZAN
WELL NAME.....	A.E. WESTHOFF NO. 6	JUNKER SPENCER "A" NO. 58	K.R. ALAZAN NO. 275
LOCATION.....	THOMAS MENEFEE SUR. A-52	W. H. SMITH SUR. A-198	EL ALAZAN GRANT. A-241
OWNER.....	HASSIE HUNT TRUST	GULF OIL CO. - U.S.	EXXON CO., U.S.A.
COMPLETED.....	05/25/72	05/04/73	11/09/72
SAMPLED.....	01/14/74	11/14/74	02/01/74
FORMATION.....	OLIG-FRIO	FRI-O-MARGINULINA	MIOC-052 SAND
DEPTH, FEET.....	6728	7234	3515
WELLHEAD PRESSURE, PSIG.....	2100	703	1485
OPEN FLOW, MCFD.....	6546	5032	8036
COMPONENT, MOLE PCT			
METHANE.....	94.1	93.3	95.6
ETHANE.....	3.3	3.5	1.4
PROPANE.....	1.2	1.2	0.1
N-BUTANE.....	0.2	0.3	0.0
ISOBUTANE.....	0.3	0.4	0.1
N-PENTANE.....	TRACE	0.1	0.0
ISOPENTANE.....	0.2	0.2	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	TRACE
NITROGEN.....	0.2	0.4	2.2
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.4	0.4
HELUM.....	TRACE	TRACE	0.01
HEATING VALUE*.....	1074	1086	1004

* 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

	INDEX SAMPLE 14026	INDEX SAMPLE 14027	INDEX SAMPLE 13861
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	KLEBERG	KLEBERG	KLEBERG
FIELD.....	PADRE N	PADRE N	SPRINT S
WELL NAME.....	STATE TRACT 924-S NO. 1	STATE TRACT 924-S NO. 1	SOUTH SPRINT GAS UNIT NO. 2
LOCATION.....	STATE TRACT 924-S	STATE TRACT 924-S	STATE TRACT 981-S
OWNER.....	MCMORAN EXPLORATION CO.	MCMORAN EXPLORATION CO.	AMOCO PRODUCTION CO.
COMPLETED.....	03/07/72	03/07/72	10/17/72
SAMPLED.....	06/12/74	06/12/74	01/09/74
FORMATION.....	OLIG-FRIO	OLIG-FRIO	OLIG-FRIO A
DEPTH, FEET.....	8450	7625	7880
WELLHEAD PRESSURE, PSIG.....	3240	2865	2700
OPEN FLOW, MCFD.....	15300	59000	6700
COMPONENT, MOLE PCT			
METHANE.....	94.9	93.3	95.2
ETHANE.....	2.6	3.3	2.1
PROPANE.....	0.7	1.1	0.6
N-BUTANE.....	0.2	0.2	0.1
ISOBUTANE.....	0.3	0.5	0.3
N-PENTANE.....	0.1	0.1	TRACE
ISOPENTANE.....	0.1	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.7	1.0	1.2
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.3	0.4
HELIUM.....	0.01	0.01	0.01
HEATING VALUE*.....	1057	1070	1040

* 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

	INDEX 211 SAMPLE 13911	INDEX 212 SAMPLE 14184	INDEX 213 SAMPLE 14113
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	LAVACA	LIBERTY	LIVE OAK
FIELD.....	PROVIDENT CITY	ESPERSOON DOME	C.A. WINN
WELL NAME.....	PROVIDENT CITY G.U. NO. 9	MOORE'S BLUFF NO. A-207	ROY HINNANT NO. 5
LOCATION.....	DAVID DAVIS SUR. A-135	C.W. FISHER SUR., A-657	5 MI. S OF GEORGE WEST
OWNER.....	SHELL OIL CO.	GENERAL CRUDE OIL CO.	FROG PRODUCTION CO.
COMPLETED.....	01/04/72	04/20/73	09/03/72
SAMPLED.....	02/06/74	10/23/74	07/24/74
FORMATION.....	FOCE-WILCOX	FOCE-COOK MOUNTAIN	FOCE-HOCKLEY
DEPTH, FEET.....	8895	7610	4173
WELLHEAD PRESSURE, PSIG.....	3100	3000	760
OPEN FLOW, MCFD.....	16500	NOT GIVEN	4200
COMPONENT, MOLE PCT			
METHANE.....	88.6	88.4	88.2
ETHANE.....	4.9	5.5	6.0
PROPANE.....	2.0	2.6	2.9
N-BUTANE.....	0.5	0.6	0.7
ISOBUTANE.....	0.5	0.6	0.8
N-PENTANE.....	TRACE	0.1	0.1
ISOPENTANE.....	0.3	0.4	0.4
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.1	0.3	0.2
NITROGEN.....	0.1	0.5	0.3
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	TRACE	0.1	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.7	0.7	0.2
HELIUM.....	TRACE	TRACE	0.01
HEATING VALUE*.....	1093	1143	1162

* 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

	INDEX SAMPLE 214 13890	INDEX SAMPLE 215 14108	INDEX SAMPLE 216 14004
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	LIVE OAK	LOVING	MATAGORDA
FIELD.....	CLAYTON	MOORE-HOOPER	BRAZOS AREA BLK. 541
WELL NAME.....	BLOCK 86 NO. 2	MOORE HOOPER NO. 1	BLK. 5410CS-6-1733 NO. A-2
LOCATION.....	D.R. FANT SUR. NO. 20. A-628	SEC. 79. BLK-1. W&NW SUR.	OFFSHORE FED. BLK 541
OWNER.....	MORIL OIL CORP.	SUN OIL CO.	TEXACO INC.
COMPLETED.....	01/16/74	01/02/74	03/09/72
SAMPLED.....	01/25/74	07/25/74	05/04/72
FORMATION.....	FOCE-WILCOX	SILU-FUSSFLMAN	NOT GIVFN
DEPTH, FEET.....	8353	18988	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	3870	6450	3835
OPEN FLOW, MCFD.....	2800	164000	2787
COMPONENT, MOLE PCT			
METHANE.....	89.8	96.3	94.7
ETHANE.....	4.1	0.8	2.2
PROPANE.....	2.4	0.1	0.9
N-BUTANE.....	0.5	0.0	0.2
ISOBUTANE.....	0.5	0.0	0.3
N-PENTANE.....	0.1	0.0	TRACE
ISOPENTANE.....	0.3	0.0	0.2
CYCLOPENTANE.....	0.1	0.0	TRACE
HEXANES PLUS.....	0.1	0.0	0.1
NITROGEN.....	0.7	1.0	0.5
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE*.....	0.0	0.1	0.0
CARBON DIOXIDE.....	1.5	1.7	0.8
HELUM.....	TRACE	0.03	TRACE
HEATING VALUE*.....	1105	993	1053

* 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

	INDEX SAMPLE 14005	INDEX SAMPLE 13959	INDEX SAMPLE 13960
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	MATAGORDA	MATAGORDA	MATAGORDA
FIELD.....	BRAZOS AREA BLK. 541	OLIVER POINT S	OLIVER POINT S
WELL NAME.....	BLK. 5410CS-6-1733 NO. 2	STATE TRACT 86 NO. 1-L	STATE TRACT 86 NO. 1-U
LOCATION.....	OFFSHORE FED. BLK. 541	TRES PALACIOS BAY	TRES PALACIOS BAY
OWNER.....	TEXACO INC.	MCMORAN EXPLORATION CO.	MCMORAN EXPLORATION CO.
COMPLETED.....	03/09/72	05/22/72	05/22/72
SAMPLED.....	05/04/72	03/14/74	03/14/74
FORMATION.....	NOT GIVEN	MIOC-4200 FT. SAND	MIOC-3950 FT. SAND
DEPTH, FEET.....	NOT GIVEN	4184	3953
WELLHEAD PRESSURE, PSIG.....	2051	1705	1720
OPEN FLOW, MCFD.....	1717	7500	8000
COMPONENT, MOLE PCT			
METHANE.....	93.9	97.9	98.2
ETHANE.....	2.3	0.3	0.4
PROPANE.....	0.9	0.1	TRACE
N-BUTANE.....	0.2	TRACE	TRACE
ISOBUTANE.....	0.3	0.1	TRACE
N-PENTANE.....	0.1	TRACE	TRACE
ISOPENTANE.....	0.1	TRACE	TRACE
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	TRACE	TRACE
NITROGEN.....	1.2	1.5	1.2
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE*+.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	TRACE	TRACE
HELUM.....	TRACE	0.01	0.01
HEATING VALUE*.....	1055	1003	1002

* CALCULATED GROSS BTU PFR 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

	INDEX SAMPLE 13845	INDEX SAMPLE 13877	INDEX SAMPLE 14189
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	MATAGORDA	MCMULLEN	MONTGOMERY
FIELD.....	PHEASANT SW	CAMPANA S	CONROE
WELL NAME.....	MATL TRULL NO. 2	H.E. GOUGER FEE NO. 31	E. MOODY NO. 28
LOCATION.....	SUSAN PERKINS SUR., A-371	SEC. 75, AB&M SUR. A-1451	RANSOM HOUSE SUR. A-244
OWNER.....	MOBIL OIL CORP.	TEXACO INC.	TEXACO INC.
COMPLETED.....	02/24/72	04/02/72	07/17/73
SAMPLED.....	12/28/73	01/21/74	10/--/74
FORMATION.....	OLIG-FRIO H	OLIG-FRIO	MIOC-
DEPTH, FEET.....	11297	1700	2058
WELLHEAD PRESSURE, PSTG.....	3440	470	930
OPEN FLOW, MCFD.....	25364	4889	8700
COMPONENT, MOLE PCT			
METHANE.....	87.3	99.4	97.3
ETHANE.....	6.5	TRACE	1.5
PROPANE.....	2.5	TRACE	0.2
N-BUTANE.....	0.5	0.0	TRACE
ISOBUTANE.....	0.8	0.0	TRACE
N-PENTANE.....	0.1	0.0	TRACE
ISOPENTANE.....	0.3	0.0	0.0
CYCLOPENTANE.....	0.1	0.0	TRACE
HEXANES PLUS.....	0.2	0.0	TRACE
NITROGEN.....	0.6	0.5	0.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.0	0.1	0.3
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1141	1007	1018

* 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

	INDEX SAMPLE 14188	INDEX SAMPLE 13878	INDEX SAMPLE 13920
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	NFWTON	NUECES	NUECES
FIELD.....	HARTBURG NW	BLOCK 889	CORPUS CHANNEL NW
WELL NAME.....	R.A. MOORE NO. 5	T.S.L.4 1338 NO. R-1	STATE TRACT 15 NO. 3U
LOCATION.....	SFC. 1, HT&B RR SUR. A-264	MUSTANG ISLAND AREA	CORPUS CHRISTI BAY
OWNER.....	ATLANTIC RICHFIELD CO.	GULF OIL CO.-U.S.	CITIES SERVICE OIL CO.
COMPLETED.....	06/20/73	10/05/72	06/28/72
SAMPLED.....	10/23/74	01/29/74	01/31/74
FORMATION.....	-STRUMA	OLIG-MARGINULINA	-M-4
DEPTH, FEET.....	7245	11432	9903
WELLHEAD PRESSURE, PSIG.....	2676	3500	6115
OPEN FLOW, MCFD.....	31920	13300	40000
COMPONENT, MOLE PCT			
METHANE.....	94.1	90.7	88.9
ETHANE.....	3.3	4.7	5.2
PROPANE.....	1.3	2.0	2.4
N-BUTANE.....	0.2	0.5	0.7
ISOBUTANE.....	0.3	1.0	1.2
N-PENTANE.....	0.1	0.1	0.2
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.3	0.6	0.8
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.1
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE**.....	1080	1123	1147

* 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

	INDEX SAMPLE 13921	INDEX SAMPLE 13969	INDEX SAMPLE 14194
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	NUECES	NUECES	OCHILTREE
FIELD.....	CORPUS CHANNEL NW	RIVERSIDE	NORTHROP
WELL NAME.....	STATE TRACT 15 NO. 3L	E.C. WILSON NO. 10	CHARLES H. ELLZEY NO.1
LOCATION.....	CORPUS CHRISTI BAY	SHARE 6 OF THE WRIGHT LANDS	SEC. 583, BLK. 43, H&TC SUR.
OWNER.....	CITIES SERVICE OIL CO.	SOUTH STATES OIL & GAS CO.	DIAMOND SHAMROCK CORP.
COMPLETED.....	06/28/72	03/21/74	09/13/74
SAMPLED.....	01/31/74	03/27/74	10/29/74
FORMATION.....	-M-10	OLIG-FRIO	PENN-CLEVELAND
DEPTH, FEET.....	11182	6749	7092
WELLHEAD PRESSURE, PSIG.....	7325	2030	1717
OPEN FLOW, MCFD.....	5400	12700	6200
COMPONENT, MOLE PCT			
METHANE.....	82.2	91.2	86.6
ETHANE.....	6.9	4.6	6.2
PROpane.....	4.5	2.0	3.5
N-BUTANE.....	1.2	0.5	0.9
ISOBUTANE.....	1.7	0.6	0.4
N-PENTANE.....	0.5	0.1	0.2
ISOPENTANE.....	0.5	0.3	0.2
CYCLOPENTANE.....	0.2	0.1	TRACE
HEXANES PLUS.....	1.0	0.2	0.1
NITROGEN.....	0.9	0.3	1.5
OXYGEN.....	0.1	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	0.3
HELUM.....	TRACE	TRACE	0.12
HEATING VALUE**.....	1272	1126	1145

* 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

	INDEX SAMPLE 229 14109	INDEX SAMPLE 230 14153	INDEX SAMPLE 231 14128
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	PALO PINTO	PANOLA	PECOS
FIELD.....	PALO PINTO REGULAR	BETHANY	GOMFZ
WELL NAME.....	LESLIE CRUM NO. 1	B. CRFNSHAW G U 1 NO. 1	DIXFL RFSOURCES NO. 2
LOCATION.....	SEC. 2542, TEBL SUR.	BEN C. JORDAN SUR. A-348	SEC 1, BLK203, SA HOPSON SUR
OWNER.....	UPHAM OIL & GAS CO.	TEXACO INC.	LADD PETROLEUM CORP.
COMPLETED.....	06/04/73	05/07/74	04/27/73
SAMPLED.....	07/-/-74	09/23/74	08/12/74
FORMATION.....	PFNN-BEND CONGLOMFRATE	JURA-COTTON VALLEY	PENN-ATOKA (FUSSELMAN)
DEPTH, FEET.....	4602	8096	16250
WELLHEAD PRESSURE, PSIG....	1750	1150	11792
OPEN FLOW, MCFD.....	4200	9380	14096
COMPONENT, MOLE PCT			
METHANE.....	75.1	85.7	96.2
ETHANE.....	10.8	7.5	0.1
PROPANE.....	5.8	2.7	TRACE
N-BUTANE.....	1.9	0.7	0.0
ISOBUTANE.....	0.9	0.7	0.0
N-PENTANE.....	0.5	0.2	0.0
ISOPENTANE.....	1.2	0.3	0.0
CYCLOPENTANE.....	0.1	0.1	0.0
HEXANES PLUS.....	0.5	0.3	0.0
NITROGEN.....	2.7	0.5	0.4
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	1.3	3.3
HELUM.....	0.12	0.01	0.02
HEATING VALUE*.....	1301	1160	976

* 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

	INDEX SAMPLE 14175	INDEX SAMPLE 13968	INDEX SAMPLE 14239
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	PFCOS	PECOS	POLK
FIELD.....	HOKIT	THUNDERBIRD	SEVEN OAKS N
WELL NAME.....	HELLON HOKIT NO. 1	BLOWING SAND NO. 1	T. E. JONES UNIT NO. 1
LOCATION.....	SEC. 17, BLK. 127, T&STL SUR	SEC. 37, BLK. 3, H&TC SUR.	JOS W. SCARES SUR. A-69
OWNER.....	ALLIED CHEMICAL CORP.	THUNDERBIRD OIL CO.	MITCHELL ENERGY CORP.
COMPLETED.....	12/06/73	--/-/73	05/01/73
SAMPLED.....	10/04/74	NOT GIVEN	12/03/74
FORMATION.....	NOT GIVFN	DEVO-	CRET-WOODRINE
DEPTH, FEET.....	11038	5600	12270
WELLHEAD PRESSURE (PSIG).....	3200	1200	5215
OPEN FLOW, MCFD.....	65000	20000	6000
COMPONENT, MOLE PCT			
METHANE.....	77.1	81.7	56.2
ETHANE.....	3.2	8.8	13.9
PROPANE.....	1.4	4.0	10.9
N-BUTANE.....	0.5	1.1	4.8
ISOBUTANE.....	0.3	0.4	3.5
N-PENTANE.....	0.2	0.2	1.7
ISOPENTANE.....	0.2	0.3	2.5
CYCLOPENTANE.....	TRACE	TRACE	0.3
HEXANES PLUS.....	0.2	0.1	1.6
NITROGEN.....	2.1	2.9	0.2
OXYGEN.....	0.1	TRACE	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	14.7	0.3	4.5
HELIUM.....	0.08	0.05	TRACE
HEATING VALUE*.....	929	1166	1654

* 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

	INDEX SAMPLE 14040	INDEX SAMPLE 14041	INDEX SAMPLE 14176
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	RFFVES	RFEVES	ROBERTS
FIELD.....	WORSHAM	WORSHAM	PARSELL S
WELL NAME.....	WORSHAM '19' NO. 1	WORSHAM '19' NO. 1	J.B.RUSCE WATERFIELD NO. D 1
LOCATION.....	SFC. 19. BLK 6. H&GN SUR	SFC. 19. BLK. 6. H&GN SUR	SFC. 112. BLK. C. G&M SUR.
OWNER.....	AMERICAN QUASAR PETROLEUM CO	AMERICAN QUASAR PETROLEUM CO	DIAMOND SHAMROCK CORP.
COMPLETED.....	11/30/73	11/30/73	05/20/74
SAMPLED.....	07/08/74	07/08/74	10/09/74
FORMATION.....	DFVO-	DEVO-	PENN-MORROW L
DEPTH, FEET.....	17110	16611	11773
WELLHEAD PRESSURE, PSIG....	5126	5740	4342
OPEN FLOW, MCFD.....	9600	12800	16000
COMPONENT, MOLE PCT			
METHANE.....	96.3	95.6	96.3
ETHANE.....	0.6	0.7	0.5
PROPANE.....	0.1	0.1	0.1
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	0.6	0.6	0.4
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.4	3.0	2.5
HELIUM.....	0.01	0.01	0.03
HEATING VALUE**.....	989	984	987

* 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

	INDEX SAMPLE 14178	INDEX SAMPLE 13868	INDEX SAMPLE 13869
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	RUSK	SAN PATRICIO	SAN PATRICIO
FIELD.....	TRAWICK NE	WHITE POINT E	WHITE POINT F
WELL NAME.....	GAS UNIT 2 NO. 1	SOLAR FICKE DEEP G.U. NO. 1	F.H. FICKE NO. 11J
LOCATION.....	JOSE DURST SUR. A-8	SEC. 47, GEO. H. PAUL SUBD.	SEC. 50, G.H. PAUL SUBD.
OWNER.....	EXXON CO., U.S.A.	MARATHON OIL CO.	MARATHON OIL CO.
COMPLETED.....	01/23/73	02/13/72	03/14/72
SAMPLED.....	10/-/74	01/17/74	01/17/74
FORMATION.....	CRET-PETTIT	TERT-8750 FT. SAND	TERT-2850 FT. SAND
DEPTH, FEET.....	7494	8736	2837
WELLHEAD PRESSURE, PSIG.....	2175	1700	1107
OPEN FLOW, MCFD.....	1738	6200	35000
COMPONENT, MOLE PCT			
METHANE.....	91.4	89.1	98.8
ETHANE.....	3.2	5.0	0.1
PROPANE.....	1.2	2.4	TRACE
N-BUTANE.....	0.4	0.6	0.0
ISOBUTANE.....	0.4	0.8	0.0
N-PENTANE.....	0.1	0.2	0.0
ISOPENTANE.....	0.2	0.3	0.0
CYCLOPENTANE.....	TRACE	0.1	0.0
HEXANES PLUS.....	0.1	0.3	0.0
NITROGEN.....	2.0	0.5	1.0
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	0.6	TRACE
HELIUM.....	0.03	0.01	0.01
HEATING VALUE*.....	1059	1142	1003

* CALCULATED GROSS RTU 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

	INDEX SAMPLE 241 13874	INDEX SAMPLE 242 13875	INDEX SAMPLE 243 14105
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	SAN PATRICIO	SAN PATRICIO	SCHLEICHER
FIELD.....	WHITE POINT E	WHITE POINT E	BLOCK 56
WELL NAME.....	MAYO-OWENS G.U. NO. 1	MAYO-OWENS G.U. NO. 1	UNIVERSITY LANDS Y NO. 1
LOCATION.....	SEC. 62, H.S.DAY SUR. A-102	SEC. 62, H.S.DAY SUR. A-102	SEC. 7, BLK. 56, U L SUR
OWNER.....	MOBIL OIL CORP.	MOBIL OIL CORP.	PHILLIPS PETROLEUM CO.
COMPLETED.....	02/04/72	02/04/72	08/14/73
SAMPLED.....	01/18/74	01/18/74	07/09/74
FORMATION.....	OLIG-FRIO (OWENS)	OLIG-FRIO (MAYO)	ORDO-ELLENBURGER
DEPTH, FEET.....	10294	10158	8264
WELLHEAD PRESSURE, PSIG....	6838	5692	2480
OPEN FLOW, MCFD.....	5000	16500	600
COMPONENT, MOLE PCT			
METHANE.....	89.3	87.7	76.1
ETHANE.....	5.6	6.1	12.1
PROPANE.....	2.3	2.7	5.1
N-BUTANE.....	0.5	0.6	1.3
ISOBUTANE.....	0.5	1.0	0.6
N-PENTANE.....	0.1	0.1	0.3
ISOPENTANE.....	0.1	0.3	0.4
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	0.3	0.4	3.2
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	TRACE	0.1
HYDROGEN SULFIDE**....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.8	0.3
HELUM.....	TRACE	TRACE	0.08
HEATING VALUE*.....	1112	1149	1228

* 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

	INDEX 244 SAMPLE 14127	INDEX 245 SAMPLE 13928	INDEX 246 SAMPLE 13910
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	SHACKELFORD	STARR	STARR
FIELD.....	MORAN-BURTON	CAMERON NW	FLORFS
WELL NAME.....	ALTON BURTON NO. 1	DALLAS LAND BANK NO. 1	S.D. BLOOMBERG NO. 1
LOCATION.....	SEC. 71-UNIVERSITY LANDS SUR	CCSD & RGENG SUR. 509	X. ZAMORA PORCIAN 41. A-77
OWNER.....	PREWITT OIL CORP.	TENNECO OIL CO.	TEXACO INC.
COMPLETED.....	02/22/73	11/15/71	04/09/58
SAMPLED.....	07/31/74	02/27/74	02/--/74
FORMATION.....	PENN-CONGLOMERATE	OLIG-FRIO	OLIG-FRIO
DEPTH, FEET.....	3944	4480	5627
WELLHEAD PRESSURE, PSIG ..	1577	470	500
OPEN FLOW, MCFD.....	3950	270	300
COMPONENT, MOLE PCT			
METHANE.....	74.7	86.0	90.6
ETHANE.....	9.6	6.6	5.3
PROPANE.....	4.1	3.7	1.9
N-BUTANE.....	1.1	0.9	0.4
ISOBUTANE.....	0.4	1.4	0.6
N-PENTANE.....	0.2	0.3	0.1
ISOPENTANE.....	0.3	0.5	0.3
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.4	0.3
NITROGEN.....	8.8	0.1	0.3
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	0.1
HELUM.....	0.34	0.01	TRACE
HEATING VALUE*.....	1121	1221	1132

* 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

	INDEX SAMPLE 14052	INDEX SAMPLE 14037	INDEX SAMPLE 13859
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	SUTTON	SUTTON	UPTON
FIELD.....	SAWYER	SAWYER CANYON	HADACOL CORNER
WELL NAME.....	REINHARDT '6' NO. 2	CUSENBARY '60' NO. 1	JOHN H. HUTT ESTATE NO. 1
LOCATION.....	G.C. CORRIN SUR.	SFC. 60, CCSD&RGNG SUR.	SEC. 17, RLK.38, T&P SUR.
OWNER.....	HNG OIL CO.	W.B. OSBORN OPERATOR	GENERAL CRUD OIL CO.
COMPLETED.....	02/04/74	03/30/74	01/30/72
SAMPLED.....	07/17/74	06/26/74	01/02/74
FORMATION.....	PENN-STRAWN	PENN-CANYON	SILU-FUSSELMAN
DEPTH, FEET.....	8036	4416	12372
WELLHEAD PRESSURE, PSIG.....	2800	900	1180
OPEN FLOW, MCFD.....	14000	500	1548
COMPONENT, MOLE PCT			
METHANE.....	87.7	87.0	78.1
ETHANE.....	5.8	5.3	11.7
PROPANE.....	2.0	3.2	5.2
N-BUTANE.....	0.5	0.9	1.5
ISOBUTANE.....	0.5	0.7	0.7
N-PENTANE.....	0.1	0.2	0.5
ISOPENTANE.....	0.3	0.3	0.3
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.2	0.2	0.2
NITROGEN.....	1.1	1.7	1.3
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.8	0.3	0.2
HELUM.....	0.06	0.12	0.06
HEATING VALUE*.....	1109	1149	1254

* 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

	INDEX SAMPLE 14117	INDEX SAMPLE 13962	INDEX SAMPLE 13958
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	WARD	WEBB	WHARTON
FIELD.....	MONROE, DEEP	OWENS	HUNGERFORD
WELL NAME.....	ROMONE UNIT NO. 1	E.B. JONES NO. 3	G.C. DUNCAN NO. 2
LOCATION.....	SEC. 3, BLK.1, NW&NW SUR.	P. BENAVIDES SUR. NO. 1142	HUGH ROGERS SUR. A-325
OWNER.....	AMARILLO OIL CO.	TEXAS OIL & GAS CORP.	TEXAS OIL & GAS CORP.
COMPLETED.....	02/18/73	03/11/72	03/08/72
SAMPLED.....	07/30/74	02/04/74	03/07/74
FORMATION.....	PFNN-ATOKA	CRFT-OLMOS	-3000 FT. SAND
DEPTH, FEET.....	14814	7125	3048
WELLHEAD PRESSURE, PSIG.....	3000	1280	594
OPEN FLOW, MCFD.....	400	10000	8400
COMPONENT, MOLE PCT			
METHANE.....	97.7	96.9	98.2
ETHANE.....	0.7	0.4	TRACE
PROPANE.....	0.1	0.1	TRACE
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.1	0.0
N-PENTANE.....	0.0	TRACE	0.0
ISOPENTANE.....	0.0	TRACE	0.0
CYCLOPENTANE.....	0.0	TRACE	0.0
HEXANES PLUS.....	0.0	TRACE	0.0
NITROGEN.....	0.4	1.9	1.6
OXYGEN.....	TRACE	0.0	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.1	0.4	0.1
HELUM.....	0.01	0.01	0.01
HEATING VALUE*.....	1005	995	995

* 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 I. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 13956	INDEX SAMPLE 13957	INDEX SAMPLE 14199
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	WHARTON	WHARTON	WHARTON
FIELD.....	SPANISH CAMP S	SPANISH CAMP S	STIMMFL
WELL NAME.....	M. SORREL A NO. 1	VIRGINIA BROUSE NO. 1	OUTLAR NO.1
LOCATION.....	STEPHEN F. AUSTIN SUR. NO. 3	STEPHEN F. AUSTIN SUR. A-3	WILLIAM MCFARLAND SUR.
OWNER.....	TFXAS OIL & GAS CORP.	TEXAS OIL & GAS CORP.	TEXAS OIL & GAS CORP.
COMPLETED.....	04/15/72	06/15/72	10/24/74
SAMPLED.....	03/07/74	03/07/74	10/30/74
FORMATION.....	OLIG-FRIO	OLIG-FRIO	OLIG-FRIO
DEPTH, FEET.....	4556	5206	4764
WELLHEAD PRESSURE (PSIG).....	390	2005	1845
OPEN FLOW, MCFD.....	230	14000	790
COMPONENT, MOLE PCT			
METHANE.....	99.0	98.7	93.8
ETHANE.....	0.1	0.4	2.8
PROPANE.....	TRACE	TRACE	0.4
N-BUTANE.....	0.0	0.0	0.1
ISOBUTANE.....	0.0	0.0	0.1
N-PENTANE.....	0.0	0.0	TRACE
ISOPENTANE.....	0.0	0.0	TRACE
CYCLOPENTANE.....	0.0	0.0	TRACE
HEXANES PLUS.....	0.0	0.0	TRACE
NITROGEN.....	0.8	0.3	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.6	2.3
HELUM.....	0.01	0.01	0.01
HEATING VALUE*.....	1005	1007	1017

* 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

	INDEX SAMPLE 14101	INDEX SAMPLE 14104	INDEX SAMPLE 13961
STATE.....	TEXAS	TFXAS	TFXAS
COUNTY.....	WILLACY	WILLACY	ZAPATA
FIELD.....	ARROYO COLORADO	ARROYO COLORADO	LOS MOGOTES
WELL NAME.....	ARMENDAIZ B NO. 1	ARMENDAIZ B NO. 2	HAYNES ESTATE NO. 7
LOCATION.....	JOSF MARCISCO CARAZO GR.	JOSF MARCISCO CABAZO GR.	LOS MOGOTES GRANT A-566
OWNER.....	CORPUS CHRISTI MANAGEMENT CO	CORPUS CHRISTI MANAGEMENT CO	TFXAS OIL & GAS CORP.
COMPLETED.....	04/06/72	04/13/72	03/03/72
SAMPLED.....	07/14/74	07/14/74	02/04/74
FORMATION.....	MIOC-CATAHOULA	MIOC-CATAHOULA	FOCE-QUEEN CITY
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	3594
WELLHEAD PRESSURE +PSIG.....	NOT GIVEN	NOT GIVEN	1367
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	10000
COMPONENT, MOLE PCT			
METHANE.....	94.6	94.5	85.3
ETHANE.....	1.3	1.3	8.8
PROpane.....	TRACE	0.1	3.1
N-BUTANE.....	0.0	0.0	0.7
ISOBUTANE.....	0.0	0.0	0.6
N-PENTANE.....	0.0	0.0	0.1
ISOPENTANE.....	0.0	0.0	0.3
CYCLOPENTANE.....	0.0	0.0	TRACE
HEXANES PLUS.....	0.0	0.0	0.1
NITROGEN.....	3.7	3.8	0.7
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	TRACE	0.1	0.0
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.2	0.2
HELUM.....	0.02	0.02	0.01
HEATING VALUE*.....	982	983	1168

* 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

	INDEX SAMPLE 259 14134	INDEX SAMPLE 260 14021	INDEX SAMPLE 261 14022
STATE.....	UTAH	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	CARRON	GILMER	GILMER
FIELD.....	STONE CABIN	GLENVILLE S	GLENVILLE S
WELL NAME.....	STONE CABIN II UNIT 2-B-27	LOUISA MOVERS NO. 2	D.C. HAYES NO. 2
LOCATION.....	SFC. 27, T12S, R15E	CENTER DISTRICT	TROY DISTRICT
OWNER.....	PACIFIC TRANSMISSION SUP. CO.	BASIN PETROLEUM CORP.	BASIN PETROLEUM CORP.
COMPLETED.....	09-/-/72	02/05/73	01/05/73
SAMPLED.....	08/21/74	06/05/74	06/05/74
FORMATION.....	NOT GIVEN	MISS-MAXTON	MISS-GREENBRIER
DEPTH, FEET.....	5004	1960	1894
WELLHEAD PRESSURE, PSIG.....	1900	550	520
OPEN FLOW, MCFD.....	NOT GIVEN	750	1000
COMPONENT, MOLE PCT			
METHANE.....	80.8	86.1	85.5
ETHANE.....	5.0	8.2	7.9
PROPANE	1.6	2.8	2.7
N-BUTANE.....	0.3	0.5	0.6
ISOBUTANE.....	0.8	0.5	0.5
N-PENTANE.....	0.3	TRACE	0.1
ISOPENTANE.....	0.7	0.2	0.2
CYCLOPENTANE.....	0.4	TRACE	TRACE
HEXANES PLUS.....	1.2	0.1	0.1
NITROGEN.....	6.8	1.4	2.1
OXYGEN.....	1.6	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	TRACE	0.1	0.2
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.1	0.2
HELUM.....	0.01	0.12	0.12
HEATING VALUE*.....	1106	1139	1133

* 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

	INDEX SAMPLE 14023	INDEX SAMPLE 14024	INDEX SAMPLE 13967
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WYOMING
COUNTY.....	GILMER	GILMER	CAMPBELL
FIELD.....	GLENVILLE S	GLENVILLE S	SPOTTED HORSE
WELL NAME.....	ARBUCKLE-GARRETT NO. 1	EFFIE MARKS NO. 1	SKYLINE FEDERAL NO. 16-34
LOCATION.....	GLENVILLE DISTRICT	GLENVILLE DISTRICT	SEC. 34, T55N, R75W
OWNER.....	BASIN PETROLEUM CORP.	BASIN PETROLEUM CORP.	KISSINGER PETROLEUM CORP.
COMPLETED.....	03/22/73	01/18/73	12/23/72
SAMPLED.....	06/05/74	06/05/74	03/28/74
FORMATION.....	MISS-GREENBRIER	MISS-GREENBRIER	CRET-MUDY
DEPTH, FEET.....	1822	1744	8300
WELLHEAD PRESSURE, PSIG.....	685	700	1400
OPEN FLOW, MCFD.....	1200	1000	700
COMPONENT, MOLE PCT			
METHANE.....	85.6	87.1	77.3
ETHANE.....	8.6	6.9	11.7
PROPANE.....	2.7	2.4	5.5
N-BUTANE.....	0.5	0.5	1.2
ISOBUTANE.....	0.5	0.4	0.8
N-PENTANE.....	0.1	TRACE	0.3
ISOPENTANE.....	0.2	0.2	0.3
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	1.4	2.0	1.4
OXYGEN.....	0.1	0.0	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.2	0.2	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	1.1
HELUM.....	0.10	0.13	0.03
HEATING VALUE*.....	1144	1113	1242

* 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

	INDEX SAMPLE 14012	INDEX SAMPLE 14190	INDEX SAMPLE 13981
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	CAMPBELL	FREMONT	LINCOLN
FIELD.....	SPOTTED HORSE	RIVERTON F	GREEN RIVER REND
WELL NAME.....	COONES R NO. 1	TRIBAL NO. 41-20	ROCKING CHAIR NO. 43-22
LOCATION.....	SFCT. 27, T55N, R75W	SFC. 20, T15, R6E	SEC. 22, T26N, R113W
OWNER.....	PHILLIPS PETROLEUM CO.	ENERGETICS, INC.	WFSTRANS PETROLEUM, INC.
COMPLETED.....	NOT GIVEN	03/26/74	NOT GIVFN
SAMPLED.....	05/25/74	10/24/74	04/--/74
FORMATION.....	CRFT-MUDGY	CRET-CLOVERLY&JUR-A-MORRISON	CRET-FRONTIER
DEPTH, FEET.....	8072	8860	7860
WELLHEAD PRESSURE (PSIG).....	1700	5071	3117
OPEN FLOW, MCFD.....	500000	2700	2941
COMPONENT, MOLE PCT			
METHANE.....	75.2	95.3	94.4
ETHANE.....	11.5	2.3	3.6
PROPANE.....	6.0	0.8	0.2
N-BUTANE.....	1.6	0.2	TRACE
ISOBUTANE.....	0.9	0.1	0.1
N-PENTANE.....	0.2	TRACE	TRACE
ISOPENTANE.....	1.1	0.1	TRACE
CYCLOPENTANE.....	0.3	TRACE	TRACE
HEXANES PLUS.....	0.6	0.1	0.1
NITROGEN.....	1.3	0.5	1.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.5	TRACE
HELIUM.....	0.03	0.01	0.03
HEATING VALUE*.....	1305	1047	1034

* 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

	INDEX SAMPLE 13988	INDEX SAMPLE 13982	INDEX SAMPLE 14110
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	PARK	SUBLFTTE	SWEETWATER
FIELD.....	WHISTLE CREEK S	BIRD CANYON	BRADY DEEP UNIT
WELL NAME.....	GOVERNMENT-SEABOARD NO. 1	BIRD CANYON NO. 41-36	BRADY UNIT NO. 6 D
LOCATION.....	SEC. 35, T56N, R98W	SEC. 36, T27N, R112W	SEC. 2, T16W, R101W
OWNER.....	PHILLIPS PETROLEUM CO.	WESTTRANS PETROLEUM, INC.	CHAMPLIN PETROLEUM CO.
COMPLETED.....	02/01/73	07/06/72	NOT GIVEN
SAMPLED.....	04/30/74	NOT GIVEN	NOT GIVEN
FORMATION.....	CRET-PEAY	CRET-FRONTIER	CRFT-DAKOTA
DEPTH, FEET.....	3112	8542	11116
WELLHEAD PRESSURE, PSIG.....	800	4000	3291
OPEN FLOW, MCFD.....	7000	3190	2500
COMPONENT, MOLE PCT			
METHANE.....	91.2	90.5	92.4
ETHANE.....	5.1	5.6	3.2
PROPANE.....	1.3	1.8	0.8
N-BUTANE.....	0.2	0.3	0.2
ISOBUTANE.....	0.4	0.4	0.2
N-PENTANE.....	TRACE	0.1	0.1
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	0.5	0.5	2.0
OXYGEN.....	0.0	0.0	0.1
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.1	TRACE
HYDROGEN SULFIDE*+.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	0.3	0.7
HELIUM.....	0.01	0.01	0.02
HEATING VALUE*.....	1082	1111	1045

* 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 I. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX 271 SAMPLE 13964
STATE.....	WYOMING
COUNTY.....	SWEETWATER
FIELD.....	SIX MILE
WELL NAME.....	GOVERNMENT NO. 30-1
LOCATION.....	SFC. 30, T18N, R104W
OWNER.....	POLUMBUS CORP.
COMPLETED.....	02/20/74
SAMPLED.....	03/21/74
FORMATION.....	CRET-FRONTIER
DEPTH, FEET.....	4632
WELLHEAD PRESSURE, PSIG.....	1650
OPEN FLOW, MCFD.....	3000
COMPONENT, MOLE PCT	
METHANE.....	86.3 -----
ETHANE.....	6.6 -----
PROPANE.....	1.3 -----
N-BUTANE.....	0.4 -----
ISOBUTANE.....	0.4 -----
N-PENTANE.....	0.1 -----
ISOPENTANE.....	0.6 -----
CYCLOPENTANE.....	0.1 -----
HEXANES PLUS.....	0.5 -----
NITROGEN.....	2.9 -----
OXYGEN.....	0.6 -----
ARGON.....	TRACE -----
HYDROGEN.....	TRACE -----
HYDROGEN SULFIDE*#.....	0.0 -----
CARBON DIOXIDE.....	0.1 -----
HELIUM.....	0.03 -----
HEATING VALUE*.....	1112 -----

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14218	INDEX SAMPLE 14220	INDEX SAMPLE 14219
STATE.....	ALABAMA	ALABAMA	ALABAMA
COUNTY.....	HALE	MARENGO	PICKENS
FIELD.....	GULF COAST AREA	GULF COAST AREA	GULF COAST AREA
LOCATION.....	18, 20 & 24 IN.	30 IN., 2-36 & 1-42 IN.	22, 24 & 26 IN.
OWNER.....	SOUTHERN NATURAL GAS CO.	TRANSCONTINENTAL GAS CORP.	SOUTHERN NATURAL GAS CO.
SAMPLED.....	11/11/74	11/11/74	11/11/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE,PSIG.....	960	800	750
FLOW,MCFD.....	1128000	1500000	641000
COMPONENT, MOLE PCT			
METHANE.....	96.3	96.4	95.3
ETHANE.....	2.1	2.1	2.2
PROPANE.....	0.2	0.2	0.4
N-BUTANE.....	TRACE	0.1	0.1
ISOBUTANE.....	TRACE	TRACE	TRACE
N-PENTANE.....	TRACE	TRACE	TRACE
ISOPENTANE.....	TRACE	TRACE	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	TRACE	0.1
NITROGEN.....	0.4	0.4	0.9
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	0.7	0.8
HELUM.....	TRACE	TRACE	0.01
HEATING VALUE*.....	1018	1023	1027

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14208	INDEX SAMPLE 14207	INDEX SAMPLE 14209
STATE.....	ARKANSAS	ARKANSAS	ARKANSAS
COUNTY.....	HOT SPRING	HOT SPRINGS	LINCOLN
FIELD.....	GULF COAST AREA	GULF COAST AREA	GULF COAST AREA
LOCATION.....	24 IN.	2-30 IN. & 1-36 IN.	22, 24, & 26 IN. LOOP
OWNER.....	TEXAS EASTERN TRANS. CORP.	NATURAL GAS PL CO OF AMERICA	MISS. RIVER TRANS. CORP.
SAMPLED.....	11/05/74	11/05/74	11/06/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	715	710	720
FLOW, MCFD.....	215000	1300000	600000
COMPONENT, MOLE PCT			
METHANE.....	92.2	95.6	96.1
ETHANE.....	4.6	2.4	2.5
PROPANE.....	0.8	0.3	0.6
N-BUTANE.....	0.1	0.1	0.1
ISOBUTANE.....	0.1	0.1	0.1
N-PENTANE.....	TRACE	TRACE	0.1
ISOPENTANE.....	TRACE	TRACE	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	TRACE	0.1
NITROGEN.....	1.1	0.7	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.0	0.8	0.0
HELIUM.....	0.02	TRACE	TRACE
HEATING VALUE*.....	1044	1026	1050

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14067	INDEX SAMPLE 14069	INDEX SAMPLE 14068
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	CONTRA COSTA	CONTRA COSTA	CONTRA COSTA
FIELD.....	DUTCH SLOUGH	FIELDS W OF SACRAMENTO RIVER	RIO VISTA GAS FIELD
LOCATION.....	12 IN. LINE NO. 316	16 IN. LINE NO. 114	12 IN. LINE NO. 131
OWNER.....	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.
SAMPLED.....	07/11/74	07/11/74	07/11/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	450	280	280
FLOW, MCFD.....	12000	76800	17000
COMPONENT, MOLE PCT			
METHANE.....	93.7	94.0	93.7
ETHANE.....	3.1	2.9	2.8
PROPANE.....	1.1	0.7	0.8
N-BUTANE.....	0.2	0.1	0.1
ISOBUTANE.....	0.2	0.1	0.2
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.3	0.1	0.1
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.1	TRACE	0.1
NITROGEN.....	0.8	1.6	1.9
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.4	0.2
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1068	1033	1040

* CALCULATED GROSS BTU PFR 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14059	INDEX SAMPLE 14058	INDEX SAMPLE 14085
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	FRESNO	FRESNO	KERN
FIELD.....	CHENEY RANCH GAS	RAISIN CITY	BFL RIDGE N
LOCATION.....	4 IN. NO. 204 LINL	PACIFIC GAS & ELECTRIC	METFR STA. NO. 4319, 12 IN.
OWNER.....	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	07/10/74	07/09/74	07/15/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	500	550	430
FLOW, MCFO.....	5000	500	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	88.7	95.0	92.1
ETHANE.....	7.0	2.5	5.0
PROPANE.....	1.6	0.5	0.8
N-BUTANE.....	0.1	0.1	0.0
ISOBUTANE.....	0.2	0.1	TRACE
N-PENTANE.....	TRACE	0.0	TRACE
ISOPENTANE.....	TRACE	0.1	TRACE
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	TRACE	TRACE	TRACE
NITROGEN.....	1.2	1.5	0.8
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.0	0.0	1.1
HELUM.....	0.03	0.01	TRACE
HEATING VALUE*.....	1076	1035	1043

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14078	INDEX SAMPLE 14080	INDEX SAMPLE 14082
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	KERN	KERN	KERN
FIELD.....	RUENA VISTA HILLS & ELK HILL	COLES LEVEE S	CYMRIC, BELGIAN & MCKITTRICK
LOCATION.....	METER STA. NO. 4432. 10 IN.	METER STA. NO. 4709 R 4710	METER STA. NO. 4320. 8 IN.
OWNER.....	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	07/15/74	07/15/74	07/15/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	380	100	380
FLOW, MCFD.....	3000	NOT GIVEN	5000
COMPONENT, MOLE PCT			
METHANE.....	84.5	91.4	91.2
ETHANE.....	7.1	6.3	4.6
PROPANE.....	1.5	0.9	0.1
N-BUTANE.....	0.0	TRACE	TRACE
ISOBUTANE.....	0.0	TRACE	TRACE
N-PENTANE..	0.0	TRACE	TRACE
ISOPENTANE..	0.0	TRACE	TRACE
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	TRACE	TRACE
NITROGEN.....	3.6	0.3	2.3
OXYGEN.....	0.8	TRACE	0.1
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	2.4	1.1	1.6
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1022	1062	1009

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14087	INDEX SAMPLE 14084	INDEX SAMPLE 14081
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	KERN	KERN	KERN
FIELD.....	LOST HILLS	MCDONALD ANTICLINE	RIO BRAVO
LOCATION.....	METER STA. NO. 4334, 6 IN.	METER STA. NO. 4324, 6 IN.	METER STA. NO. 5943, 8 IN.
OWNER.....	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	07/15/74	07/15/74	07/15/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	380	380	680
FLOW, MCFD.....	2000	2000	12000
COMPONENT, MOLE PCT			
METHANE.....	90.2	81.5	88.3
ETHANE.....	4.0	7.9	8.5
PROPANE.....	1.2	5.9	0.5
N-BUTANE.....	0.2	1.5	0.1
ISOBUTANE.....	0.2	1.1	0.1
N-PENTANE.....	TRACE	0.1	TRACE
ISOPENTANE.....	TRACE	0.4	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	TRACE	TRACE
NITROGEN.....	0.3	1.1	1.3
OXYGEN.....	0.0	0.1	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.9	0.3	1.0
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1030	1229	1071

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX 19 SAMPLE 14086	INDEX 20 SAMPLE 14079	INDEX 21 SAMPLE 14083
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	KERN	KERN	KERN
FIELD.....	TRICO, TRICO NW & HARVESTER	VARIOUS	VARIOUS
LOCATION.....	METER STA. NO. 952-2, 12 IN.	METER STA. NO. 4702, 10 IN.	METER STA. NO. 4339, 12 IN.
OWNER.....	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	07/15/74	07/15/74	07/15/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	380	380	380
FLOW, MCFD.....	2000	NOT GIVEN	12000
COMPONENT, MOLE PCT			
METHANE.....	99.2	87.7	87.9
ETHANE.....	0.2	8.0	8.1
PROPANE.....	TRACE	0.3	0.7
N-BUTANE.....	0.0	0.1	TRACE
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	TRACE	TRACE
ISOPENTANE.....	0.0	0.0	TRACE
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	TRACE	TRACE
NITROGEN.....	0.2	2.4	0.6
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	1.4	2.5
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1008	1043	1054

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14056	INDEX SAMPLE 14055	INDEX SAMPLE 14088
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	KINGS	KINGS	KINGS
FIELD.....	KETTLEMAN HILLS	TEXAS GAS FIELDS	VARIOUS
LOCATION.....	22 IN. SP NO. 1	34 IN. NO. 300	METER STA. NO. 4228, 8 IN.
OWNER.....	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	07/09/74	07/09/74	07/15/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	400	540	395
FLOW, MCFD.....	11000	950000	3000
COMPONENT, MOLE PCT			
METHANE.....	93.8	86.8	94.8
ETHANE.....	4.2	7.1	3.3
PROPANE.....	TRACE	1.7	TRACE
N-BUTANE.....	0.0	0.1	0.0
ISOBUTANE.....	0.0	0.2	0.0
N-PENTANE.....	0.0	TRACE	0.0
ISOPENTANE.....	0.0	TRACE	0.0
CYCLOPENTANE.....	0.0	0.1	0.0
HEXANES PLUS.....	0.0	0.1	0.0
NITROGEN.....	1.0	2.2	1.0
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	1.6	0.8
HELUM.....	0.06	0.06	TRACE
HEATING VALUE*.....	1025	1070	1019

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14133	INDEX SAMPLE 14096	INDEX SAMPLE 14097
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	LOS ANGELES	LOS ANGELES	LOS ANGELES
FIELD.....	CASTAIC JUNCTION	DOMINGUEZ ROSECRANS LOSCIENF	FOUR FIELDS
LOCATION.....	METER 4512 TO LINE 16361001	METER 732, 15 IN. LINE 77	16 IN. LINE 125
OWNER.....	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	08/16/74	07/12/74	07/15/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	300	170	155
FLOW, MCFD.....	4500	2500	6500
COMPONENT, MOLE PCT			
METHANE.....	93.9	90.3	86.3
ETHANE.....	3.8	7.2	7.6
PROPANE.....	0.2	TRACE	1.8
N-BUTANE.....	0.0	TRACE	TRACE
ISOBUTANE.....	0.0	TRACE	TRACE
N-PENTANE.....	0.0	TRACE	TRACE
ISOPENTANE.....	0.0	TRACE	TRACE
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	TRACE	TRACE
NITROGEN.....	1.6	2.2	2.4
OXYGEN.....	0.3	0.0	0.2
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.1	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	1.5
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1024	1044	1057

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14099	INDEX SAMPLE 14131	INDEX SAMPLE 14098
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	LOS ANGLES	LOS ANGELS	LOS ANGELES
FIELD.....	FOUR FIELDS	HONOR RANCHO	LOS ANGELES DOWNTOWN
LOCATION.....	METER STATION NO. A-2	FIELD METER 4510 TO LINE 174	MTR NO. 6004, 6 IN. LINE 296
OWNER.....	LOMITA GASOLINE CO.	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	07/12/74	08/16/74	07/12/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	60	200	160
FLOW, MCFD.....	2500	1600	2000
COMPONENT, MOLE PCT			
METHANE.....	81.8	86.6	80.3
ETHANE.....	6.4	11.6	8.3
PROPANE.....	4.5	0.3	6.4
N-BUTANE.....	0.7	0.1	2.0
ISOBUTANE.....	0.7	TRACE	1.2
N-PENTANE.....	TRACE	TRACE	0.1
ISOPENTANE.....	0.1	0.0	0.8
CYCLOCENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	TRACE	TRACE	0.1
NITROGEN.....	3.4	0.4	0.0
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	2.3	0.9	0.6
HELUM.....	0.01	TRACE	TRACE
HEATING VALUE*	1112	1096	1283

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14132	INDEX SAMPLE 14062	INDEX SAMPLE 14061
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	LOS ANGELES	MADERA	MADERA
FIELD.....	TORREY CANYON	CHOWCHILLA	GILL RANCH
LOCATION.....	LTFN 1001 FIFLD METER 3723	4 IN. NO. 186 LINE	6 IN. NO. 133 LINE
OWNER.....	SOUTHERN CALIFORNIA GAS CO.	PACIFIC GAS & ELECTRIC CO.	TEXACO INC.
SAMPLED.....	08/16/74	07/10/74	07/10/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	300	1480	400
FLOW, MCFD.....	8000	4000	3000
COMPONENT, MOLE PCT			
METHANE.....	89.7	40.5	91.2
ETHANE.....	6.2	0.4	0.4
PROPANE.....	1.9	0.1	TRACE
N-BUTANE.....	0.2	0.0	0.0
ISOBUTANE.....	0.1	0.0	0.0
N-PENTANE.....	TRACE	0.0	0.0
ISOPENTANE.....	TRACE	0.0	0.0
CYCLOPENTANE.....	TRACE	0.0	0.0
HEXANES PLUS.....	TRACE	0.0	0.0
NITROGEN.....	1.1	59.0	8.0
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	TRACE	0.4
HELUM.....	TRACE	0.01	0.01
HEATING VALUE*.....	1079	420	931

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14060	INDEX SAMPLE 14100	INDEX SAMPLE 14073
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	MADERA	ORANGE	SACRAMENTO
FIELD.....	MOFFAT RANCH	HUNTINGTON BEACH	MARYSVILLE & HERSHEY JCT.
LOCATION.....	4 IN. NO. 183 LINE	METER STA. NO. 2343	12 IN. LINE 172
OWNER.....	PACIFIC GAS & ELECTRIC CO.	SIGNAL OIL CO.	PACIFIC GAS & ELECTRIC CO.
SAMPLED.....	07/10/74	07/12/74	07/11/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	150	150	500
FLOW, MCFO.....	200	2000	70000
COMPONENT, MOLE PCT			
METHANE.....	88.9	79.5	91.9
ETHANE.....	0.3	3.4	0.3
PROPANE.....	TRACE	2.6	TRACE
N-BUTANE.....	TRACE	0.5	TRACE
ISOBUTANE.....	TRACE	0.5	0.0
N-PENTANE.....	0.0	TRACE	TRACE
ISOPENTANE.....	TRACE	0.1	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	TRACE	TRACE
NITROGEN.....	10.2	8.8	7.6
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	4.5	0.1
HELUM.....	0.03	TRACE	TRACE
HEATING VALUE*.....	906	972	936

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX 37 SAMPLE 14070	INDEX 38 SAMPLE 14066	INDEX 39 SAMPLE 14064
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	SACRAMENTO	SAN JOAQUIN	SAN JOAQUIN
FIELD.....	RIVER ISLANDS	LATHROP	MCMULLIN RANCH
LOCATION.....	12 IN. LINE 196	10 IN. NO. 304	6 IN. NO. 194 LINE
OWNER.....	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.
SAMPLED.....	07/11/74	07/11/74	07/10/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	482	400	150
FLOW, MCFD.....	48000	50000	2500
COMPONENT, MOLE PCT			
METHANE.....	93.4	82.6	85.1
ETHANE.....	3.1	0.3	0.6
PROPANE.....	0.9	TRACE	0.1
N-BUTANE.....	0.1	0.0	TRACE
ISOBUTANE.....	0.2	0.0	TRACE
N-PENTANE.....	0.0	0.0	0.1
ISOPENTANE.....	0.2	0.0	0.0
CYCLOPENTANE.....	TRACE	0.0	TRACE
HEXANES PLUS.....	TRACE	0.0	TRACE
NITROGEN.....	1.7	16.6	13.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.4	0.5
HELIUM.....	TRACE	0.01	0.01
HEATING VALUE*.....	1044	842	880

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX 40 SAMPLE 14065	INDEX 41 SAMPLE 14063	INDEX 42 SAMPLE 14090
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	SAN JOAQUIN	SAN JOAQUIN	SANTA BARBARA
FIELD.....	ROBERTS ISLAND	VFRNALIS	CRAWFORD NW
LOCATION.....	8 IN. NO. 176	6 IN. NO. 112 LINP	12 IN. LINP 260
OWNER.....	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	07/11/74	07/10/74	07/16/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE,PSIG.....	1700	450	830
FLOW,MCFD.....	250	6000	14000
COMPONENT, MOLE PCT			
METHANE.....	92.9	89.5	95.4
ETHANE.....	0.3	0.6	4.1
PROPANE.....	TRACE	0.1	TRACE
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	6.8	9.7	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.1	0.1
HELIUM.....	0.01	0.01	TRACE
HEATING VALUE*	946	920	1040

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX 43 SAMPLE 14091	INDEX 44 SAMPLE 14089	INDEX 45 SAMPLE 14092
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	SANTA BARBARA	SANTA BARBARA	SANTA BARBARA
FIELD.....	GAVIOTA & CALIFINTE	SANTA MARIA VALLEY	SUMMERLAND & CARPINTERIA
LOCATION.....	16 IN. LINE 1010	METER STA. NO. 5805, 12 IN.	16 IN. LINE 1003
OWNER.....	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	07/16/74	07/12/74	07/16/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	540	179	375
FLOW, MCFD.....	3000	13000	4000
COMPONENT, MOLE PCT			
METHANE.....	90.0	85.5	83.0
ETHANE.....	6.2	5.6	9.0
PROPANE.....	2.5	1.4	4.2
N-BUTANE.....	0.4	TRACE	0.7
ISOBUTANE.....	0.4	0.1	0.5
N-PENTANE.....	TRACE	0.0	TRACE
ISOPENTANE.....	TRACE	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	TRACE	TRACE	0.1
NITROGEN.....	0.4	3.3	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	TRACE	0.1	TRACE
HYDROGEN SULFIDE**	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	3.9	2.0
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1115	1011	1165

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX 46 SAMPLE 14071	INDEX 47 SAMPLE 14072	INDEX 48 SAMPLE 14074
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	SOLANO	SOLANO	SUTTER
FIELD.....	LINDSEY SLOUGH & RIO VISTA W	MILLAR, SAXON & BUNKER	NOT GIVEN
LOCATION.....	16 IN. LINE 200	10 IN. LINE 220	16 IN. LINE 167
OWNER.....	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.
SAMPLED.....	07/11/74	07/11/74	07/12/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	480	518	600
FLOW, MCFD.....	80000	6200	7500
COMPONENT, MOLE PCT			
METHANE.....	94.1	81.9	92.6
ETHANE.....	3.0	1.3	0.3
PROPANE.....	0.8	0.3	TRACE
N-BUTANE.....	0.1	TRACE	0.0
ISOBUTANE.....	0.1	0.1	0.0
N-PENTANE.....	TRACE	0.0	0.0
ISOPENTANE.....	TRACE	TRACE	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	TRACE	TRACE	0.0
NITROGEN.....	1.5	16.2	7.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.1	TRACE
HELUM.....	TRACE	0.01	TRACE
HEATING VALUE*.....	1034	864	943

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX 49 SAMPLE 14075	INDEX 50 SAMPLE 14093	INDEX 51 SAMPLE 14095
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	SUTTER	VENTURA	VENTURA
FIELD.....	SUTTER CREEK & SUTTER BUTTES	FEDERAL OFFSHORE 401 & 402	FIVE FIELDS
LOCATION.....	6 IN. LINE NO. 121	16 IN. LINE 1004	15 IN. LINE 37
OWNER.....	PACIFIC GAS & ELECTRIC CO.	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	07/12/74	07/16/74	07/16/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	400	1000	400
FLOW, MCFD.....	600	14000	5000
COMPONENT, MOLE PCT			
METHANE.....	95.4	79.5	88.8
ETHANE.....	0.1	2.3	5.2
PROPANE.....	TRACE	4.6	0.4
N-BUTANE.....	0.0	1.3	TRACE
ISOBUTANE.....	0.0	0.5	0.1
N-PENTANE.....	0.0	0.1	TRACE
ISOPENTANE.....	0.0	0.1	0.0
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	TRACE	TRACE
NITROGEN.....	4.3	TRACE	3.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	TRACE	0.1
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	11.5	1.7
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	968	1035	1007

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14077	INDEX SAMPLE 14076	INDEX SAMPLE 14211
STATE.....	CALIFORNIA	CALIFORNIA	MISSISSIPPI
COUNTY.....	YOLO	YOLO	BOLIVAR
FIELD.....	CANADIAN GAS	VARIOUS	GULF COAST AREA
LOCATION.....	20 IN. NO. 302 WEST LINE	20 IN. NO. 302 EAST LINE	26, 30, & 36 IN.
OWNER.....	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	TRUNKLINE GAS CO.
SAMPLED.....	07/12/74	07/11/74	11/07/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	695	800	810
FLOW, MCFD.....	NOT GIVEN	31000	1049000
COMPONENT, MOLE PCT			
METHANE.....	87.9	96.0	96.9
ETHANE.....	6.1	0.3	1.9
PROPANE.....	1.0	TRACE	0.2
N-BUTANE.....	0.5	0.0	0.1
ISOBUTANE.....	0.4	0.0	0.0
N-PENTANE.....	0.2	0.0	0.0
ISOPENTANE.....	0.4	0.0	0.0
CYCLOPENTANE.....	0.4	0.0	0.0
HEXANES PLUS.....	0.5	0.0	0.0
NITROGEN.....	2.4	3.6	0.0
OXYGEN.....	TRACE	0.0	0.3
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.1	TRACE	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.0	0.7
HELUM.....	0.06	TRACE	TRACE
HEATING VALUE*.....	1123	978	1024

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX 55 SAMPLE 14215	INDEX 56 SAMPLE 14212	INDEX 57 SAMPLE 14214
STATE.....	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI
COUNTY.....	CALHOUN	COAHOMA	GRENADA
FIELD.....	GULF COAST AREA	GULF COAST AREA	GULF COAST AREA
LOCATION.....	2-30 IN. & 1-36 IN.	2-26 IN. & 1-30 IN.	30 IN.
OWNER.....	COLUMBIA GULF TRANS. CO.	TEXAS GAS TRANSMISSION CORP.	TENNESSEE GAS PIPELINE CO.
SAMPLED.....	11/08/74	11/07/74	11/07/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	1000	804	565
FLOW, MCFD.....	1500000	1600000	560000
COMPONENT, MOLE PCT			
METHANE.....	96.8	94.1	97.0
ETHANE.....	1.9	2.6	1.8
PROPANE.....	0.2	0.2	0.1
N-BUTANE.....	TRACE	TRACE	TRACE
ISOBUTANE.....	TRACE	0.1	TRACE
N-PENTANE.....	TRACE	TRACE	TRACE
ISOPENTANE.....	TRACE	0.0	0.0
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	0.1	TRACE
NITROGEN.....	0.2	1.2	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE*+.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	1.7	0.8
HELUM.....	TRACE	0.01	TRACE
HEATING VALUE*.....	1020	1013	1017

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14217	INDEX SAMPLE 14216	INDEX SAMPLE 14213
STATE.....	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI
COUNTY.....	LOWNDES	MONROE	PANOLA
FIELD.....	GULF COAST AREA	GULF COAST AREA	GULF COAST AREA
LOCATION.....	30 & 36 IN.	3-30 IN. & 1-36 IN.	24, 28 & 7-26 IN.
OWNER.....	TENNESSEE GAS PIPELINE CO.	TEXAS EASTERN TRANS. CORP.	TENNESSE GAS PIPELINE CO.
SAMPLED.....	11/08/74	11/08/74	11/07/74
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PRESSURE, PSIG.....	875	838	653
FLOW, MCFD.....	1693000	1500000	1200000
COMPONENT, MOLE PCT			
METHANE.....	97.3	96.4	95.8
ETHANE.....	1.8	2.1	2.7
PROPANE.....	0.1	0.3	0.3
N-BUTANE.....	0.0	0.1	0.1
ISOBUTANE.....	0.0	0.1	0.1
N-PENTANE.....	0.0	TRACE	TRACE
ISOPENTANE.....	0.0	TRACE	TRACE
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	TRACE	TRACE
NITROGEN.....	0.4	0.4	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.6	0.6
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1020	1029	1033

* CALCULATED GROSS RTU PFR 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14221	INDEX SAMPLE 14141	INDEX SAMPLE 14210
STATE.....	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI
COUNTY.....	PERRY	PARKIN	WASHINGTON
FIELD.....	GULF COAST AREA	PINNY WOODS & THOMASVILLE	GULF COAST AREA
LOCATION.....	24 & 30 IN.	PLANT RESIDUE	2-30 IN & 1-36 IN.
OWNER.....	FLORIDA GAS TRANSMISSION CO.	SHELL OIL CO.	MICHIGAN WISCONSIN P.L. CO.
SAMPLED.....	11/12/74	09/11/74	11/06/74
FORMATION.....	NOT GIVEN	JURA-SMACKOVER	NOT GIVEN
PRESSURE, PSIG.....	920	NOT GIVEN	850
FLOW, MCFD.....	469000	40000	1300000
COMPONENT, MOLE PCT			
METHANE.....	95.1	98.3	97.5
ETHANE.....	2.6	0.1	2.1
PROPANE.....	0.6	0.0	0.1
N-BUTANE.....	0.1	TRACE	0.0
ISOBUTANE.....	0.2	0.0	0.0
N-PENTANE.....	TRACE	TRACE	0.0
ISOPENTANE.....	TRACE	TRACE	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	TRACE	TRACE	0.0
NITROGEN.....	0.5	1.4	0.3
OXYGEN.....	0.0	0.1	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	TRACE	0.0
HELUM.....	TRACE	0.01	TRACE
HEATING VALUE*.....	1036	998	1028

* 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 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX 64
	SAMPLE 13947
STATE.....	TEXAS
COUNTY.....	MATAGORDA
FIELD.....	BRAZOS BLOCK 445(G)
LOCATION.....	STATE TRACT 445-L
OWNER.....	MONSANTO CO.
SAMPLED.....	03/10/74
FORMATION.....	MIOC-G SAND
PRESSURE,PSIG.....	2500
FLOW, MCFD.....	14000
COMPONENT, MOLE PCT	
METHANE.....	95.9
ETHANE.....	1.8
PROPANE.....	0.5
N-BUTANE.....	TRACE
ISOBUTANE.....	0.2
N-PENTANE.....	0.0
ISOPENTANE.....	0.1
CYCLOPENTANE.....	TRACE
HEXANES PLUS.....	0.1
NITROGEN.....	0.9
OXYGEN.....	TRACE
ARGON.....	0.0
HYDROGEN.....	0.1
HYDROGEN SULFIDE**	0.0
CARBON DIOXIDE	0.3
HELIUM.....	0.01
HEATING VALUE*.....	1033

* CALCULATED GROSS HTU 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 3. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES

	INDEX 1 SAMPLE 14223	INDEX 2 SAMPLE 14147	INDEX 3 SAMPLE 13935
COUNTRY.....	AUSTRALIA	ETHIOPIA	TAIWAN
STATE OR PROVINCE.....	NORTH TERRITORY	NOT GIVEN	HSIG CHU
FIELD.....	PALM VALLEY	NOT GIVEN	CHINGTSAOHU
WELL NAME.....	PALM VALLEY NO. 2	HILALA NO. 1	CTH-1 (S)
LOCATION.....	LAT 24 00 03S LONG 132 38 47E	NOT GIVEN	LAT 24 46 50 LONG 120 59 19
OWNER.....	MAGELLAN PETROLEUM PTY. LTD.	TFNNECO OIL CO.	CHINESE PETROLEUM CORP.
COMPLETED.....	02/02/70	DRILL STEM TEST NO. 10	05/03/69
SAMPLED.....	08/24/74	08/01/74	02/19/74
FORMATION.....	ORDO-POCOOTA	-GUMBORO	MIOC-YUTENGPTNG
DEPTH, FEET.....	6557	10470	5363
WELLHEAD PRESSURE, PSIG.....	2446	NOT GIVEN	1890
OPEN FLOW, MCFD.....	69700	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	87.9	79.0	82.7
ETHANE.....	7.8	6.0	9.8
PROPANE.....	1.2	1.7	4.0
N-BUTANE.....	0.2	0.3	0.9
ISOBUTANE.....	0.2	0.4	1.1
N-PENTANE.....	TRACE	0.1	0.1
ISOPENTANE.....	0.1	0.1	0.4
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	2.3	10.2	0.8
OXYGEN.....	0.0	1.4	0.0
ARGON.....	TRACE	0.1	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.4	0.1
HELUM.....	0.21	0.09	TRACE
HEATING VALUE*.....	1084	994	1211

* 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 3. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES

	INDEX SAMPLE 13936	INDEX SAMPLE 13940	INDEX SAMPLE 13937
COUNTRY.....	TAIWAN	TAIWAN	TAIWAN
STATE OR PROVINCE.....	HSING CHU	HSING CHU	MTAOLI
FIELD.....	CHINGSAOHU	CHINGSAOHU	CHINSHUI
WELL NAME.....	CTH-1 (L)	CTH-12	CS-66
LOCATION.....	LAT 24 46 50 LONG 120 59 19	LAT 24 47 26 LONG 120 59 46	LAT 24 34 43 LONG 120 51 21
OWNER.....	CHINESE PETROLEUM CORP.	CHINESE PETROLEUM CORP.	CHINESE PETROLEUM CORP.
COMPLETED.....	05/03/69	04/18/70	09/23/61
SAMPLED.....	02/19/74	02/19/74	02/22/74
FORMATION.....	MIOC-KUANTAO SHAN	MIOC-TALU	MIOC-CHUHUANG KENG
DEPTH, FEET.....	6396	12533	9768
WELLHEAD PRESSURE, PSIG.....	2220	3800	5100
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	86.6	83.0	88.7
ETHANE.....	7.5	7.7	4.0
PROPANE.....	2.8	2.8	1.2
N-BUTANE.....	0.5	0.5	0.2
ISOBUTANE.....	0.8	0.8	0.5
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.3	0.3	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.8	0.7	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	4.1	5.1
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1150	1117	1047

* 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 3. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES

	INDEX SAMPLE 13938	INDEX SAMPLE 13943	INDEX SAMPLE 13944
COUNTRY.....	TAIWAN	TAIWAN	TAIWAN
STATE OR PROVINCE.....	MTAOLI	MTAOLI	MTAOLI
FIELD.....	CHINSHUI	CHINSHUI	CHINSHUI
WELL NAME.....	CS-72 (L)	CS-45	CS-74
LOCATION.....	LAT 24 34 31 LONG120 50 58	LAT 24 3 33 LONG120 52 8	LAT 24 35 22 LONG120 51 07
OWNER.....	CHINESE PETROLEUM CORP.	CHINESE PETROLEUM CORP.	CHINESE PETROLEUM CORP.
COMPLETED.....	08/20/69	11/27/60	09/11/69
SAMPLED.....	02/22/74	02/22/74	02/22/74
FORMATION.....	MIOC-MUSHAN	MIOC-TALU	MIOC-WUCHTHSHAN
DEPTH, FEET.....	13530	7633	14793
WELLHEAD PRESSURE PSIG.....	6000	1220	6950
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	83.0	89.9	82.0
ETHANE.....	3.2	4.3	2.1
PROPANE.....	1.0	1.3	0.5
N-BUTANE.....	0.1	0.2	0.1
ISOBUTANE.....	0.4	0.5	0.2
N-PENTANE.....	TRACE	TRACE	TRACE
ISOPENTANE.....	0.1	0.2	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.3	0.3	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	11.8	3.1	14.6
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	950	1059	901

* 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 3. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES

	INDEX SAMPLE 13941	INDEX SAMPLE 13942	INDEX SAMPLE 13939
COUNTRY.....	TAIWAN	TAIWAN	TAIWAN
STATE OR PROVINCE	MTAOLI	MTAOLI	MTAOLI
FIELD.....	CHUHUANGKENG	CHUHUANGKENG	PAISHATUN
WELL NAME.....	CHK-106	CHK-110 (S)	PST-5 (S)
LOCATION.....	LAT 24 28 05 LONG120 51 18	LAT 24 27 17 LONG120 50 43	LAT 24 37 13 LONG120 45 42
OWNER.....	CHINESE PETROLEUM CORP.	CHINESE PETROLEUM CORP.	CHINESE PETROLEUM CORP.
COMPLETED.....	04/29/62	04/14/72	12/18/71
SAMPLED.....	02/20/74	02/20/74	02/18/74
FORMATION.....	MIOC-MUSHAN	MIOC-WUCHIHSHAN	MIOC-TALU
DEPTH, FEET.....	9889	10368	10762
WELLHEAD PRESSURE +PSIG.....	3860	4250	3610
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE	58.5	55.6	89.5
ETHANE.....	2.0	1.8	4.9
PROPANE.....	0.5	0.5	1.6
N-BUTANE.....	0.1	0.1	0.3
ISOBUTANE.....	0.2	0.2	0.6
N-PENTANE.....	TRACE	0.0	0.1
ISOPENTANE.....	0.1	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	1.2	1.0	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	37.4	40.6	2.4
HELUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	661	628	1084

* 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 3. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES

	INDEX 13 SAMPLE 13945	INDEX 14 SAMPLE 13946
COUNTRY.....	TAIWAN	TAIWAN
STATE OR PROVINCE.....	MIAOLI	MIAOLI
FIELD.....	TIECHENSHAN	TIECHENSHAN
WELL NAME.....	TCS-10	TCS-23(S)
LOCATION.....	LAT 24 28 11 LONG 120 40 33	LAT 24 26 40 LONG 120 41 44
OWNER.....	CHINESE PETROLEUM CORP.	CHINESE PETROLEUM CORP.
COMPLETED.....	12/18/65	02/09/69
SAMPLED.....	02/23/74	02/23/74
FORMATION.....	MIOC-TALU	MIOC-TALU
DEPTH, FEET.....	9000	9161
WELLHEAD PRESSURE, PSTG.....	2830	2850
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT		
METHANE.....	85.4	88.4
ETHANE.....	5.5	5.6
PROPANE.....	1.8	2.0
N-PENTANE.....	0.5	0.5
ISOBUTANE.....	0.6	0.6
N-PENTANE.....	0.1	TRACE
ISOPENTANE.....	0.3	0.4
CYCLOPENTANE.....	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1
NITROGEN.....	3.1	0.4
OXYGEN.....	0.7	0.0
ARGON.....	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0
CARBON DIOXIDE.....	1.9	1.9
HELUM.....	TRACE	TRACE
HEATING VALUE*.....	1070	1107

* 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 4. - SAMPLES FROM PIPELINES IN FOREIGN COUNTRIES

	INDEX SAMPLE 13954	INDEX SAMPLE 13955	INDEX SAMPLE 14010
COUNTRY.....	NETHERLANDS	NETHERLANDS	NORWAY
STATE OR PROVINCE.....	NOT GIVEN	NOT GIVEN	NORTH SEA
FIELD.....	BERGENEER	GROFT	EKOFLSK
LOCATION.....	NOT GIVFN	GROET	PHILLIPS GRP NORWAY EKOFLSK
OWNER.....	AMOCO NETHERLANDS PET. CO.	AMOCO NETHERLANDS PET. CO.	PHILLIPS PETROLEUM CO.
SAMPLED.....	02/28/74	02/28/74	02/17/74
FORMATION.....	PFRM-ROTLEGENDES	PERM-ROTLEGENDES	PALE-DANIAN
PRESSURE,PSIG.....	2700	2800	500
FLOW,MCFD.....	100000	60000	65000
COMPONENT, MOLE PCT			
METHANE.....	94.5	92.3	83.2
ETHANE.....	3.0	2.9	8.9
PROPANE.....	0.5	0.5	3.7
N-BUTANE.....	0.1	0.1	1.0
ISOBUTANE.....	0.1	0.1	0.5
N-PENTANE.....	TRACE	TRACE	0.3
ISOPENTANE.....	TRACE	TRACE	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	TRACE	0.1
NITROGEN.....	1.0	3.1	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**....	0.0	0.0	0.0
CARBON DICXIDE.....	0.6	0.9	1.6
HELIUM.....	0.03	0.08	TRACE
HEATING VALUE*.....	1036	1007	1175

* 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