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Sulfur Content of Crude Oils



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Sulfur Content of Crude Oils

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CONTENTS

	<u>Page</u>
Abstract.....	1
Introduction.....	1
Acknowledgments.....	2
General procedure.....	3
Sulfur content of U.S. crude oils.....	44
Gulf Coast.....	47
Midcontinent.....	48
Rocky Mountain.....	49
Alaska.....	50
Illinois and Michigan Basins and Appalachia.....	50
California and Nevada.....	51
Sulfur content of foreign crude oils.....	52
Africa.....	58
Canada.....	58
Europe.....	58
Far East.....	58
Latin America.....	59
Middle East.....	59
Conclusions.....	59
References.....	61

ILLUSTRATION

1. Oil-producing States of the United States, by selected regions.....	44
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TABLES

1. U.S. crude oil production during 1971 by fields and sulfur content with related field data from Bureau of Mines oil analyses.....	4
2. Classification of 1971 crude oil production in the United States, by sulfur content.....	46
3. Foreign crude oil production during 1971 by fields and sulfur content with related field data from Bureau of Mines oil analyses.....	53
4. Classification of 1971 crude oil production from foreign countries, by sulfur content.....	57

SULFUR CONTENT OF CRUDE OILS

by

M. Carrales, Jr.,¹ and R. W. Martin²

ABSTRACT

This Bureau of Mines report presents information on the sulfur content of crude oil in the United States and in some foreign countries. Data are presented for oil produced in 1971 from fields in 26 States that accounted for about 76 percent of total U.S. oil production; the foreign data cover fields in 24 foreign countries that accounted for about 64 percent of the total oil produced from these countries in 1971. Most of the data are presented in tabular form.

INTRODUCTION

Sulfur in crude oil is very important because it causes difficulties, such as corrosion of metals, in processing the oil and because air pollution results from the burning of high-sulfur fuels processed from crude oils having a high sulfur content. At a time when sulfur content restrictions on the use of fossil fuels are causing shortages and making it more difficult for industry to achieve air quality standards, data are needed regarding the quality of available world crude oil supplies. This Bureau of Mines report presents sulfur data for 2,858 U.S. crude oils and 168 foreign oils. Some Bureau authors have related sulfur content of crude oil to volumes of crude oil produced in the United States (1, 7-11),³ and one earlier report (2) also included the sulfur content of foreign crude oils. This present report includes a classification of both U.S. and foreign crude oil production for 1971 by sulfur content. Only fields with reported sulfur content are included, and no attempt is made either to classify total production for 1971 by sulfur content or to develop a historical series of U.S. production by sulfur content.

Some articles in trade journals (3-5) have included a correlation between API gravity and sulfur content of crude oils to establish which crude oils qualify as "low-sulfur oils," defined as crude oils having a sulfur content

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³Underlined numbers in parentheses refer to items in the list of references at the end of this report.

less than 60 percent of the average sulfur content of all U.S. crude oils of the same API gravity. For this study, the term "low-sulfur oil" refers to oil with a sulfur content of 0.50 percent and less, and the term "high-sulfur oil" refers to oil with greater than 0.50 percent sulfur content.

The Petroleum Publishing Company in its 1972 Petroleum International Encyclopedia published a list of U.S. and foreign major oilfields with current year's production, sulfur content, and other related field data. Although a substantial list of analyses with sulfur content for U.S. and foreign crude oils was included, the oil production was not classified by sulfur content.

The Bureau of Mines classified 1969 crude oil production and reserves in the United States by sulfur content for the Environmental Protection Agency (EPA) (11). In this study, done in 1970-71, about 80 percent of the 1969 oil production was classified from known sulfur contents of crude oils, and this classification served as a basis to classify the remaining 20 percent of the total production. The study did not include any foreign crude oil production by sulfur content nor report the sulfur content of individual field production for the United States.

Basically, this report updates the data developed and entered into the data bank at the Bureau of Mines Automatic Data Processing facilities (ADP) in Denver, Colo., for the 1970-71 study (11). Work for the U.S. part of this report consisted of updating statistics for fields in the data bank with 1971 production and adding statistics for other fields for which crude oil analyses were run after the 1970-71 study (11) was completed or for which sulfur content was obtained from sources other than the Bureau of Mines. For the foreign crude oil fields, most of the sulfur content data were obtained from crude oil analyses at the Bureau of Mines Bartlesville (Okla.) Energy Research Center,⁴ and the production data were obtained from the Oil and Gas Journal (6). These data were entered into the data bank. Computer programs were written by the ADP section of the Bureau of Mines in Denver to printout the data in the desired tabular form.

It should be noted that not all of the fields in the United States were included in the present study because the sulfur content of part of the oil produced was not known, and some of the fields to which a sulfur content was assigned were eliminated if their production was less than 5,000 barrels during 1971.

ACKNOWLEDGMENTS

The writers gratefully acknowledge the use of U.S. oilfield production data as reported by State oil and gas agencies, the International Oil Scouts Association, the Conservation Committee of California Oil Producers, and the American Petroleum Institute. Acknowledgment is also made to the Oil and Gas Journal for the use of foreign oilfield production data.

⁴Now transferred to the Energy Research and Development Administration.

GENERAL PROCEDURE

The procedure used in this report was basically the same as that used in the 1970-71 study (11). The method of assigning sulfur content to each field during the study was that only one Bureau of Mines crude oil analysis was selected to be representative of each field (or reservoir). Where more than one reservoir was producing in a field and production was reported as a field total, the crude oil analysis chosen was judged to be representative of that expected from a composite sample from the producing reservoirs. For this reason, it is possible that the sulfur content assigned to some fields will not agree with that reported in other sources.

Most of the sulfur contents for the foreign fields were taken primarily from the Bureau of Mines crude oil analysis file. The method of assigning sulfur content to a foreign oilfield with more than one analysis was basically the same as that used for the U.S. oilfields. A few sulfur contents for some Canadian oilfields were taken from RI 7059 (2). The daily oil production for the first 6 months of 1971 by fields as reported by the Oil and Gas Journal (6) was used to estimate yearly production.

The U.S. and foreign oilfield data tabulation included related field data, such as geologic formation, geologic age, and depth of formation, which were taken from the Bureau of Mines crude oil analyses where available. No related field data were printed for those fields with a sulfur content reported from sources other than the Bureau of Mines. Furthermore, the U.S. tabulation included only those fields that had an assigned sulfur content and produced at least 5,000 barrels of oil during 1971.

The following sulfur content categories in weight-percent were used to classify the U.S. and foreign crude oil production for 1971:

0.00-0.50;

0.51-1.00;

1.01-2.00;

and >2.00.

These categories were the same as those used in the 1970-71 study (11). The results of this present study were summarized and compared with the results of that study to show changes in the sulfur content during 1969-71.

Table 1 presents the data on U.S. crude oil production during 1971 by fields and sulfur content.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES

GEOGRAPHICAL AREA, SULFUR CONTENT CATEGORY, AND FIELD	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
ALABAMA						
(0.00-0.50)						
CITRONELLE.....	0.38	861053	RODESSA, GLEN ROSE.....	CRET..	10,700	6,736
(0.51-1.00)						
POLLARD.....	.65	854023	TUSCALOOSA.....	CRET..	5,710	160
(1.01-2.00)						
CHOCTAW RIDGE.....	1.07	870087	SMACKOVER.....	JUR...	11,987	282
(>2.00)						
GILBERTOWN SOUTH.....	4.22	857129	EUTAW.....	CRET..	3,300	6
GILBERTOWN.....	4.29	845072	SELMA.....	..DO..	7,620	72
TOXEY.....	4.59	869112	SMACKOVER.....	JUR...	10,446	167
ALASKA						
(0.00-0.50)						
GRANITE POINT.....	.02	L65077	KENAI, MIDDLE.....	TERT..	8,650	5,577
MCARTHUR RIVER.....	.09	L66014	KENAI, LOWER (HFMLOCK)...	..DO..	9,370	40,537
MIDDLE GROUND SHOAL.....	.06	L65001	MIDDLE GROUND SHOALS...	..DO..	8,400	11,304
SWANSON RIVER.....	.08	L65073	HEMLOCK.....	..DO..	11,200	11,466
TRADING BAY.....	.05	L65076	KENAI.....	..DO..	5,363	8,744
(0.51-1.00)						
PRUDHOE BAY.....	.82	871011	.....	.....	.....	1,157
ARIZONA						
(0.00-0.50)						
DINEH-BI-KEYAH.....	.19	867088	.....	.....	.....	1,106
DRY MESA.....	.20	859284	.....	.....	.....	19
ARKANSAS						
(0.00-0.50)						
ATLANTA/COTTON VALLEY.....	.25	.....	.....	.....	.....	47
ATLANTA/SMACKOVER.....	.49	839001	REYNOLDS, SMACKOVER.....	JUR...	8,201	96
CATESVILLE/COTTON VALLEY & JONES.....	.36	.....	.....	.....	.....	16
DOOLEY CREEK/LIMESTONE.....	.27	870120	SMACKOVER.....	JUR...	10,935	10
DORCHESTER-MACEDONIA/COTTON VALLEY.....	.09	842044	MORGAN, COTTON VALLEY...	..DO..	7,860	242
FOUKE/SMACKOVER.....	.16	870112	SMACKOVER.....	..DO..	9,023	51
KILBURN/GLOYD.....	.38	861089	GLOYD 1ST, GLEN ROSE...	CRET..	6,108	41
MCAMIE-PATTON/REYNOLDS.....	.43	861017	SMACKOVER.....	JUR...	9,302	191
PINE TREE.....	.48	870105	.....	.....	.....	17
RODESSA OLD/GLOYD.....	.32	838002	CRETACEOUS.....	CRET..	5,973	18
VILLAGE/COTTON VALLEY.....	.37	.....	.....	.....	.....	17
VILLAGE/TRAVIS PEAK.....	.40	.....	.....	.....	.....	179
WALKER CREEK/LIMESTONE.....	.20	870118	SMACKOVER.....	JUR...	10,913	2,167
(0.51-1.00)						
BRISTER.....	.55	870106	SMACKOVER.....	JUR...	8,501	9
RUCKNER/TRAVIS PEAK.....	.65	.....	.....	.....	.....	92
CAIRO.....	1.00	870092	.....	.....	.....	30
HAYNESVILLE/PETIT UNIT.....	.60	.....	.....	.....	.....	68
HITANK/NACATOCH.....	.60	.....	.....	.....	.....	41
LEWISVILLE/PALUXY.....	.63	839178	RODESSA, GLEN ROSE.....	CRET..	7,410	8
LEWISVILLE/SMACKOVER.....	.80	871032	SMACKOVER.....	JUR...	7,067	399
MAGNOLIA/SMACKOVER.....	.89	838191	REYNOLDS, SMACKOVER.....	..DO..	7,633	851
MCNEIL EAST.....	.80	.....	.....	.....	.....	7
MT HOLLY/REYNOLDS.....	.87	870099	SMACKOVER.....	JUR...	7,149	12
SCHULER EAST/MORGAN.....	.55	842043	MORGAN, COTTON VALLEY...	..DO..	5,735	6
SCHULER/COTTON VALLEY.....	.52	838193	..DO..	..DO..	5,588	72
SCHULER/MORGAN.....	.56	838198	..DO..	..DO..	5,688	17
SPIRIT LAKE/KILPATRICK.....	1.00	.....	.....	.....	.....	8
VILLAGE/SMACKOVER.....	.80	838192	REYNOLDS, SMACKOVER.....	JUR...	7,388	50
(1.01-2.00)						
RODCAW/KILPATRICK.....	1.80	.....	.....	.....	.....	16
RUCKNER/SMACKOVER.....	1.87	838199	REYNOLDS, SMACKOVER.....	JUR...	7,196	66
EL DORADO E/EZZELL/ALL SANDS.....	1.60	855171	NACATOCH.....	CRET..	2,204	214
EL DORADO EAST/NACATOCH.....	1.92	838212	..DO..	..DO..	2,200	27
EL DORADO SOUTH/NACATOCH.....	1.07	838299	..DO..	..DO..	2,172	131
FOUKE/PALUXY.....	1.47	847025	STURGIS, PALUXY.....	..DO..	3,633	306
HILLSBORO/NACATOCH.....	1.56	838303	NACATOCH.....	..DO..	2,250	26
LISBON.....	1.08	838213	SMACKOVER.....	..DO..	2,106	16
MIDWAY WEST.....	1.57	870094	SMACKOVER.....	JUR...	6,580	119
MIDWAY/REYNOLDS.....	1.36	842011	REYNOLDS, SMACKOVER.....	..DO..	6,304	1,164
NEW LONDON.....	1.94	843048	WALTON, COTTON VALLEY...	..DO..	5,717	38
NICK SPRINGS WEST/MEAKIN.....	1.70	.....	.....	.....	.....	17
PACE CITY EAST/GRAVES.....	1.96	865025	GRAVES, OZAN.....	CRET..	2,377	10
SCHULER/JONES.....	1.40	838194	JONES, COTTON VALLEY...	JUR...	7,506	464
SNOW HILL/SMACKOVER.....	1.08	838293	REYNOLDS, SMACKOVER.....	..DO..	4,938	10
STAMPS/TOKIO.....	1.90	865038	TOKIO.....	CRET..	2,376	32
STEPHENS-SMART AREA/GLEN ROSE.....	1.99	846083	TRAVIS PEAK, TRINITY...	..DO..	3,650	182
STEPHENS/BUCKRANGE.....	1.61	854179	BUCKRANGE, OZAN.....	..DO..	2,100	531
STEPHENS/GLEN ROSE.....	1.50	.....	.....	.....	.....	10

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, SULFUR CONTENT CATEGORY, AND FIELD	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
ARKANSAS - CONTINUED						
(1.01-2.00)						
STEPHENS/HOGG.....	1.96	B53004	HOGG, PINE ISLAND.....	CRET..	3,125	158
STEPHENS/SMACKOVER.....	1.79	B70091	SMACKOVER.....	JUR..	5,891	72
URBANA/NACATOC.....	1.14	B38302	NACATOC.....	CRET..	2,224	9
URBANA/URBANA & GREGORY.....	2.00	B35308	URBANA, TRAVIS PEAK.....	..DO..	3,630	32
WESSON/HOGG.....	1.43	B52024	HOGG, PINE ISLAND.....	..DO..	3,000	527
WESSON/LIMESTONE.....	1.63	B70090	SMACKOVER.....	JUR..	5,837	169
WESSON/NACATOC.....	1.56	B65029	NACATOC.....	CRET..	1,548	31
WESSON/TRAVIS PEAK.....	1.50	.....	.....	.....	.....	30
WOODLEY.....	1.94	B38296	NACATOC.....	CRET..	2,180	7
(> 2.00)						
ARTESIAN.....	5.77	B65032	MEAKIN, OZAN.....	CRET..	2,549	31
CAMP CREEK/BLOSSOM.....	2.15	B65030	BLOSSOM, BROWNSTOWN.....	..DO..	2,584	28
CHAMPAGNOLLE LANDING.....	3.21	B65018	GRAVES, OZAN.....	..DO..	2,557	68
CHAMPAGNOLLE/GRAVES.....	2.79	B65035	..DO.....	..DO..	.....	522
CROSS COUNTRY SLOUGH/BAKER.....	3.11	B65026	BAKER.....	..DO..	2,571	19
EL DORADO E/EZZELL/SMACKOVER.....	3.30	B70119	SMACKOVER.....	JUR..	6,224	33
FALCON/NACATOC.....	3.28	B39004	NACATOC.....	CRET..	1,180	10
FALCON/TOKIO.....	2.51	B65021	TOKIO.....	..DO..	2,540	14
GUM CREEK/NACATOC.....	2.51	B65036	NACATOC.....	..DO..	1,621	20
GUM CREEK/SMACKOVER.....	4.24	B70095	SMACKOVER.....	JUR..	5,866	9
HAMPTON/MEAKIN.....	5.04	B65033	NACATOC.....	CRET..	2,462	7
IRMA/NACATOC.....	2.70	B23275	..DO.....	..DO..	1,140	44
LEWISVILLE WEST/TOKIO.....	2.23	B65027	TOKIO.....	..DO..	2,441	30
LICK CREEK/MEAKIN.....	2.92	B65016	MEAKIN, OZAN.....	..DO..	2,522	141
RITCHIE.....	2.99	B65017	BAKER.....	..DO..	2,595	141
SANDY BEND/NACATOC.....	2.54	B65014	NACATOC.....	..DO..	2,385	273
SMACKOVER/NACATOC.....	2.07	B23260	CRETACEOUS.....	..DO..	1,940	2,821
STEPHENS NORTH/RUCKRANGE.....	2.30	.....	.....	.....	.....	10
TROY/OLD.....	2.51	B38219	TOKIO.....	CRET..	2,126	65
WILLISVILLE/NACATOC.....	2.60	B65019	NACATOC.....	..DO..	1,176	8
WINCHESTER.....	2.73	B65015	MEAKIN, OZAN.....	..DO..	2,628	12
CALIFORNIA						
SAN JOAQUIN VALLEY						
(0.00-0.50)						
ANT HILL						
JEWETT.....	.28	B46046	JEWETT.....	MIOC..	3,635	11
ASPHALTO						
STEVENS.....	.42	B46074	STEVENS.....	..DO..	5,677	1,185
BELGIAN ANTICLINE						
MAIN AREA						
POINT OF ROCKS.....	.41	.....	.....	.....	.....	222
BELLEVUE						
MAIN AREA						
STEVENS.....	.36	B46047	STEVENS.....	MIOC..	6,520	92
BELRIDGE NORTH						
"H" SAND.....	.28	B46049	TERTIARY, Y.....	TERT..	8,990	13
BELRIDGE NORTH						
BELRIDGE "64".....	.17	.....	.....	.....	.....	149
BELRIDGE NORTH						
CARNEROS)						
"H" SAND.....	.17	B46048	WAGONWHEEL, VAQUEROS....	MIOC..	8,450	23
BELRIDGE SOUTH.....	.23	B55146	TULARE.....	PLEIS.	500	9,260
CANAL						
STEVENS UPPER.....	.41	B39469	STEVENS.....	MIOC..	8,312	418
CANFIELD RANCH						
STEVENS.....	.37	B46051	STEVENS, 2ND.....	..DO..	7,859	45
COALINGA						
EASTSIDE AREA						
TEMPLO)						
Eocene).....	.45	B01132	MIOCENE.....	..DO..	2,700	4,258
COALINGA EAST EXTENSION						
NOSE AREA						
Eocene.....	.31	B41060	GATCHELL.....	Eocene	7,443	4,750
COLES LEVEE NORTH						
RICHFIELD WESTERN AREA						
MAIN WESTERN.....	.39	.....	.....	.....	.....	389
COLES LEVEE SOUTH						
STEVENS (F-1, F-2)						
CRUDE OIL.....	.18	B39021	STEVENS.....	MIOC..	9,221	313
CUYAMA SOUTH						
MAIN AREA						
HOMAN.....	.42	B50087	DIBBLEE, VAQUEROS.....	..DO..	3,318	1,979
CYMRIC						
SHEEP SPRINGS AREA						
CARNEROS.....	.44	B46060	CARNEROS.....	..DO..	3,450	21
CYMRIC						
SHEEP SPRINGS AREA						
OCEANIC.....	.23	B46052	OCEANIC.....	OLIG..	4,657	6
CYMRIC						
WELPORT AREA						
OCEANIC.....	.23	B46052	..DO.....	..DO..	4,657	49
DEVILS DEN						
BATES.....	.14	.....	.....	.....	.....	8
EDISON						
RACE TRACK HILL AREA						
JEWETT.....	.22	B46056	JEWETT.....	MIOC..	4,705	8

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
CALIFORNIA - CONTINUED SAN JOAQUIN VALLEY - CONTINUED (0.00-0.50)						
EDISON						
WEST AREA						
CHANAC-SANTA MARGARITA)						
FREEMAN-JEWETT).....	0.20	B55149	CHANAC.....	PLIO..	4,008	187
GOSFORD						
WEST AREA						
STEVENS.....	.37	.....	.....	.....	.....	14
GREELEY						
OLCESE ("12-21").....	.31	B55162	MIOCENE.....	MIOC..	11,260	286
GREELEY						
RIO BRAVO-VEDDER.....	.29	R38314	..DO.....	..DO..	11,410	285
GREELEY						
STEVENS.....	.28	R37001	..DO.....	..DO..	7,740	192
GUIJARRAL HILLS						
MAIN AREA						
GATCHELL.....	.31	.....	.....	.....	.....	17
HELM						
LANARE AREA						
EOCENE.....	.21	H42189	TEPTIARY.....	TERT..	8,070	56
HELM						
LANARE AREA						
MIOCENE.....	.26	R46054	MIOCENE.....	MIOC..	6,848	51
HELM						
MAIN AREA						
EOCENE-PALEOCENE & CRETACEOUS.....	.21	.....	.....	.....	.....	56
HELM						
MAIN AREA						
MIOCENE.....	.26	.....	.....	.....	.....	322
JACALITOS						
TEMBLOR.....	.34	H43175	TEMBLOR.....	MIOC..	3,900	135
KETTLEMAN NORTH DOME						
LOWER MCADAMS (EOCENE).....	.31	.....	.....	.....	.....	111
KETTLEMAN NORTH DOME						
TEMBLOR.....	.50	H37168	TEMBLOR, 5TH.....	MIOC..	8,130	607
KETTLEMAN NORTH DOME						
UPPER MCADAMS (EOCENE).....	.31	B55137	MCADAMS.....	EOCFNE	11,035	14
KETTLEMAN NORTH DOME						
VAQUEROS.....	.24	B55136	VAQUEROS.....	MIOC..	9,241	110
MOUNTAIN VIEW						
ARVIN AREA						
H.S.J.-"2" (CHANAC)						
GEORGE).....	.36	B55130	PLIOCENE + MIOCENE.....	PLIO..	5,015	63
MOUNTAIN VIEW						
MAIN AREA.....	.44	R35287	HOGAN.....	MIOC..	5,505	536
PALOMA						
MAIN AREA						
PALOMA - CRUDE OIL.....	.10	B40198	STEVENS.....	..DO..	10,001	130
PLEASANT VALLEY						
EOCENE.....	.35	R43169	EOCENE.....	EOCFNE	8,542	10
RAILROAD GAP						
CARNEROS.....	.44	R49083	CARNEROS.....	MIOC..	7,243	175
RAILROAD GAP						
PHACOIDES.....	.22	R49084	PHACOIDES.....	..DO..	9,422	118
RAISIN CITY						
MIOCENE.....	.41	H42187	TEMBLOR.....	..DO..	5,087	249
RIO BRAVO						
RIO BRAVO-VEDDER-OSBORNE.....	.35	B57104	RIO BRAVO.....	..DO..	11,444	382
RIVERDALE						
EOCENE.....	.27	H42191	TERTIARY.....	TERT..	6,780	56
RIVERDALE						
MIOCENE.....	.22	R42190	MIOCENE.....	MIOC..	6,662	207
ROUND MOUNTAIN						
ROUND MOUNTAIN AREA						
JEWETT.....	.43	R37227	JEWETT.....	..DO..	1,175	88
ROUND MOUNTAIN						
ROUND MOUNTAIN AREA						
VEDDER.....	.49	R37228	VEDDER.....	..DO..	1,827	470
RUSSELL RANCH						
MAIN AREA						
DIRBLEE.....	.35	R49036	DIRBLEE, VAQUEROS.....	..DO..	2,700	411
STRAND						
MAIN AREA						
STEVENS UPPER.....	.43	H39444	STEVENS.....	..DO..	8,300	376
TEJON GRAPEVINE						
CENTRAL AREA						
"H".....	.22	B56016	VALVULINERIA.....	..DO..	4,720	19
TEJON GRAPEVINE						
CENTRAL AREA						
OLCESE.....	.33	B56011	OLCESE.....	..DO..	5,636	24
TEJON GRAPEVINE						
CENTRAL AREA						
RESERVE.....	.40	B56014	RESERVE.....	..DO..	4,427	28
TEJON GRAPEVINE						
CENTRAL AREA						
TRANSITION.....	.17	B55182	TRANSITION.....	..DO..	2,600	7
TEJON HILLS						
"S".....	.29	B55158	MIOCENE.....	..DO..	910	54
TEJON HILLS						
"H".....	.29	B50084	VALVULINERIA.....	..DO..	4,485	30
TEJON NORTH						
"J. V.".....	.16	B61019	ZEMORRIAN.....	..DO..	8,710	34
TEJON NORTH						
EOCENE.....	.24	B61020	EOCENE.....	EOCFNE	10,840	76

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
CALIFORNIA - CONTINUED SAN JOAQUIN VALLEY - CONTINUED (0.00-0.50)						
TEN SECTION MAIN AREA						
STEVENS.....	0.37	R37002	STEVENS.....	MIOC..	7,763	573
TEN SECTION NORTHWEST AREA						
STEVENS.....	.37	.....	.....	.....	.....	32
WHEELER RIDGE CENTRAL AREA						
"424-28" (VALV).....	.40	.....	.....	.....	.....	15
WHEELER RIDGE CENTRAL AREA						
GORDON (OLCESE) "2-38".....	.40	R37229	MIOCENE, DEEP.....	MIOC..	3,170	22
WHEELER RIDGE CENTRAL AREA						
REFUGIAN-EOCENE.....	.29	R53051	EOCENE.....	EOCENE	9,910	661
(0.51-1.00)						
ANT HILL OLCESE.....	.65	H46045	OLCESE.....	MIOC..	2,304	163
ANTELOPE HILLS WILLIAMS AREA.....	.60	.....	.....	.....	.....	270
BELGIAN ANTICLINE MAIN AREA						
OCEANIC.....	.59	R53057	OCEANIC.....	OLIG..	5,395	176
BELRIDGE NORTH TEMBLOR.....	.69	R01102	MIOCFNE.....	MIOC..	.....	84
RUENA VISTA RUENA VISTA FRONT AREA.....	1.00	.....	.....	.....	.....	452
BUENA VISTA BUENA VISTA HILLS AREA						
"27-8".....	.59	R46050	ETCHEGOIN 27R.....	PLIO..	3,272	121
RUENA VISTA BUENA VISTA HILLS AREA						
UPPER.....	.59	R01117	.....	.....	.....	1,799
RURREL MIOCENE.....	.90	.....	.....	.....	.....	20
CANAL STEVENS LOWER (73U-73X).....	.70	.....	.....	.....	.....	40
COALINGA WESTSIDE AREA						
TEMBLOR.....	.75	R55105	TERTIARY.....	TERT..	2,642	3,610
COLES LEVEE NORTH NORTHWEST AREA						
STEVENS.....	.80	.....	.....	.....	.....	7
COLES LEVEE NORTH RICHFIELD WESTERN AREA						
"21-1".....	.66	R46069	STEVENS, 21-1.....	MIOC..	9,483	48
CYMRIC SALT CREEK MAIN AREA						
CARNEROS UNIT.....	.69	R46057	CARNEROS.....	..DO..	2,790	367
CYMRIC SHEEP SPRINGS AREA						
ETCHEGOIN.....	.86	R46053	ETCHEGOIN 54-21.....	PLIO..	2,810	64
EDISON MAIN AREA						
FRACTURED SCHIST.....	.57	R35285	DUFF.....	MIOC..	2,904	302
EDISON MAIN AREA						
UPPER.....	.68	R35286	KERN RIVER.....	PLEIS.	1,577	352
ELK HILLS MAIN AREA						
UPPER.....	.51	L65028	SUB-SCALEZ NO. 1.....	PLIO..	3,333	942
FRUITVALE CALLOWAY.....	.93	.....	.....	.....	.....	36
FRUITVALE MAIN AREA						
CHANAC-KERNCO.....	.60	R37169	KERNCO, CHANAC.....	PLIO..	3,754	1,068
GOSFORD EAST AREA						
MIDDLE & LOWER STEVENS.....	.57	R61058	STEVENS.....	MIOC..	9,464	324
GOSFORD EAST AREA						
UPPER STEVENS.....	.58	R61059	..DO.....	..DO..	7,548	80
GUIJARRAL HILLS MAIN AREA						
LEDA NORTH.....	.63	R49038	LEDA, KREYENHAGEN.....	EOCENE	8,658	9
GUIJARRAL HILLS MAIN AREA						
LEDA.....	.63	.....	.....	.....	.....	116
KERN FRONT MAIN.....	.85	R56022	CHANAC.....	PLIO..	1,865	3,434
LOST HILLS MAIN.....	.85	R01098	TERTIARY.....	TERT..	.....	2,161
MCKITTRICK MAIN AREA						
UPPER.....	.96	R61072	TULARE.....	PLEIS.	1,000	4,882
MIDWAY-SUNSET GIBSON.....	.88	.....	.....	.....	.....	24
MIDWAY-SUNSET LAKEVIEW.....	.75	.....	.....	.....	.....	124

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR, WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
CALIFORNIA - CONTINUED						
SAN JOAQUIN VALLEY - CONTINUED						
(0.51-1.00)						
MIDWAY-SUNSET						
MARICOPA FLAT.....	0.73	B00474	MARICOPA.....	MIOC..	.....	92
MIDWAY-SUNSET						
MONARCH-110-10M.....	.75	.....	.....	.....	.....	423
MIDWAY-SUNSET						
OLIG.....	1.00	.....	.....	.....	.....	266
MIDWAY-SUNSET						
OTHERS.....	.88	R45402	.....	.....	.....	31,259
MOUNT POSO						
BAKER AREA - VEDDER.....	.65	.....	.....	.....	.....	13
MOUNT POSO						
DOMINION AREA - VEDDER.....	.68	B55150	VEDDER.....	MIOC..	1,600	110
MOUNT POSO						
DORSEY AREA - VEDDER.....	.65	.....	.....	.....	.....	87
MOUNT POSO						
GRANITE CANYON AREA - VEDDER.....	.65	.....	.....	.....	.....	7
MOUNT POSO						
VEDDER.....	.65	B37226	VEDDER.....	MIOC..	1,748	1,120
MOUNTAIN VIEW						
WEST ARVIN AREA						
MAIN HOUGHIN)						
NORTHWEST HOUGHIN).....	.51	R39237	CHANAC.....	PLIO..	5,909	51
PALOMA						
SYMONS AREA						
PALOMA.....	.53	R55123	STEVENS.....	MIOC..	11,625	12
POSO CREEK						
PREMIER AREA						
MAIN.....	.98	H61052	ETCHEGOIN + CHANAC.....	PLIO..	2,400	1,613
RAISIN CITY						
TAR-MIOCENE.....	.70	.....	.....	.....	.....	211
ROUND MOUNTAIN						
ALMA AREA - VEDDER.....	.71	.....	.....	.....	.....	10
ROUND MOUNTAIN						
COFFEE CANYON AREA - VEDDER.....	.71	R55152	VEDDER.....	MIOC..	1,900	108
SAN EMIDIO NOSE						
REEF RIDGE.....	.83	R61018	REEF RIDGE.....	..DO..	11,460	79
STRAND						
MAIN AREA						
"73-X".....	.54	R61087	STEVENS.....	..DO..	9,475	27
STRAND						
MAIN AREA						
STEVENS LOWER.....	.54	.....	.....	.....	.....	11
STRAND						
NORTHWEST AREA						
STEVENS UPPER)						
STEVENS LOWER).....	.54	.....	.....	.....	.....	97
WHEELER RIDGE						
CENTRAL AREA						
COAL OIL CANYON.....	.69	R37230	MIOCENE, SHALLOW.....	MIOC..	2,600	51
WHEELER RIDGE						
CENTRAL AREA						
MAIN.....	.69	.....	.....	.....	.....	67
(1.01-2.00)						
BELRIDGE NORTH						
SHALLOW.....	1.14	R52033	TULARE.....	PLEIS.	670	93
CYMRIC						
MCKITTRICK FRONT AREA						
TULARE.....	1.16	R61051	..DO.....	..DO..	655	1,503
CYMRIC						
WELPORT AREA						
TULARE.....	1.16	.....	.....	.....	.....	839
KERN RIVER						
PLIOCENE.....	1.19	R55121	KERN RIVER.....	PLEIS.	1,099	25,609
MIDWAY-SUNSET						
METSON.....	1.67	.....	.....	.....	.....	782
RAILROAD GAP						
AMNICOLA.....	1.60	R69082	AMNICOLA.....	PLEIS.	995	72
RAILROAD GAP						
ANTELOPE SHALE.....	1.18	R69081	ANTELOPE.....	MIOC..	6,534	56
COASTAL						
(0.00-0.50)						
CONCEPTION OFFSHORE						
SESPE EQUIVALENT.....	.12	R66102	ALEGRIA.....	OLIG..	3,011	347
ELWOOD						
Vaqueros.....	.18	R30251	Vaqueros.....	MIOC..	3,329	106
HONOR RANCHO						
MAIN AREA						
WAYSIDE.....	.40	R53058	WAYSIDE, MOHNIAN.....	..DO..	6,600	112
(0.51-1.00)						
ALISO CANYON						
MAIN AREA						
ALISO.....	.67	R39099	PICO, CYPRESS.....	PLIO..	5,365	135
ALISO CANYON						
MAIN AREA						
SESNON.....	.92	R55166	SESNON, LUISIAN.....	MIOC..	8,350	496

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR, WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
CALIFORNIA - CONTINUED						
COASTAL - CONTINUED						
(0.51-1.00)						
BARSDALE						
IRWIN.....	0.83	R01167	TERTIARY.....	TERT..	.....	50
CAPITAN						
VAQUEROS.....	.69	B38076	VAQUEROS.....	MIOC..	1,280	38
CASTAIC HILLS						
STERLING EAST.....	.51	.....	.....	.....	.....	10
CASTAIC HILLS						
STERLING.....	.51	B53061	STERLING, MOHNIAN.....	MIOC..	5,600	75
FILLMORE						
PERKINS-SPALDING.....	.75	B61039	PERKINS-SPALDING.....	PLIO..	13,765	92
NEWMALL-POTRERO						
"1-2-3".....	.52	R38078	MIOCENE.....	MIOC..	6,385	146
NEWMALL-POTRERO						
"5TH".....	.56	R55154	MODELO 5TH.....	..DO..	8,800	244
NEWMALL-POTRERO						
"6TH".....	.56	B55155	MODELO 6TH.....	..DO..	9,800	70
NEWMALL-POTRERO						
"7TH".....	.81	R55156	MODELO 7TH.....	..DO..	10,300	211
OAK CANYON						
"5-4".....	.59	R46070	LECHLER, MODELO.....	..DO..	7,178	48
OAKRIDGE						
MIOCENE.....	.98	R53050	LUISIAN.....	..DO..	2,700	395
SAN MIGUELITO						
FIRST GRUBB.....	.93	B39507	PICO + REPETTO.....	PLIO..	6,472	377
SAN MIGUELITO						
SECOND GRUBB.....	.87	B55160	REPETTO.....	..DO..	6,022	143
SATICOY						
"F".....	.94	R64070	PICO, CYPRESS.....	..DO..	6,454	79
SHIELLS CANYON						
MAIN AREA						
SESPE (INTERMEDIATE).....	.78	R43173	SESPE.....	OLIG..	2,000	349
SIMI						
OLD AREA - SESPE-EOCENE.....	.68	R01172	EOCENE.....	EOCENE	500	53
SUMMERLAND OFFSHORE						
VAQUEROS.....	.54	R01173	.....	.....	300	651
TEMESCAL	.55	.....	.....	.....	.....	69
VENTURA						
"C" BLOCK.....	1.00	R55128	PLIOCENE A2 TO D8.....	PLIO..	4,000	2,633
(1.01-2.00)						
ARROYO GRANDE						
TIRER AREA.....	1.30	R01170	PISMO.....	MIOC..	500	68
DEL VALLE						
EAST AREA						
DEL VALLE.....	1.15	R55147	DEL VALLE.....	..DO..	6,467	26
DEL VALLE						
EAST AREA						
SHERMAN.....	1.14	B40197	MODELO.....	..DO..	5,750	11
OXNARD						
MCINNES.....	1.72	R61025	MCINNES, SESPE.....	OLIG..	6,273	265
PLACERITA						
YORK-KRAFT AREA)						
JUANITA AREA).....	1.30	.....	.....	.....	.....	354
RINCON						
MAIN AREA						
C-9.....	1.40	R55131	PLIOCENE.....	PLIO..	2,000	247
RINCON						
MAIN AREA						
HOBSON-TOMSON-MILEY.....	1.08	R39506	HOBSON, PICO.....	..DO..	5,210	968
SHIELLS CANYON						
MAIN AREA						
SESPE OTHERS.....	1.50	.....	.....	.....	.....	43
SISAR-SILVERTHREAD.....	1.63	R01147	.....	.....	500	42
VENTURA						
A-3, B-3.....	1.18	R26335	PICO, CYPRESS.....	PLIO..	4,725	462
VENTURA						
R-1, R-2.....	1.15	R01148	TERTIARY.....	TERT..	3,600	21
VENTURA						
C-1, C-2 WEST.....	1.17	R26336	PICO, CYPRESS.....	PLIO..	.....	46
VENTURA						
C-3 WEST.....	1.20	R26337	..DO.....	..DO..	4,075	845
(>2.00)						
CASMALIA						
MONTEREY.....	2.80	R01164	TERTIARY.....	TERT..	1,200	640
CASTAIC JUNCTION						
"10-A".....	3.40	B55125	MOHNIAN 10.....	MIOC..	10,640	505
"10-B".....	.....	.....	.....	.....	.....	688
CAT CANYON EAST						
OLD AREA.....	6.00	.....	.....	.....	.....	2,794
CAT CANYON EAST						
SISQUOUC AREA.....	4.10	R01162	TERTIARY.....	TERT..	2,600	29
CAT CANYON WEST						
ALEXANDER.....	3.13	R70041	SISQUOUC.....	PLIO..	.....	1,328
CAT CANYON WEST						
LOS FLORES.....	5.07	B53055	LOS FLORES, MONTEREY...	MIOC..	4,612	611
CAT CANYON WEST						
PLIOCENE (NEW AREA).....	3.83	.....	.....	.....	.....	631
CAT CANYON WEST						
PLIOCENE (OLD AREA).....	3.83	R53054	SISQUOUC.....	PLIO..	2,805	631

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
CALIFORNIA						
COASTAL						
(>2.00)						
GATO RIDGE						
TOGNAZZINI.....	5.87	869063	MONTEREY.....	MIOC..	2,380	664
GUADALUPE						
SISQUOC-MONTEREY.....	5.39	869078	SISQUOC.....	PLIO..	2,550	1,703
LOMPOC						
MONTEREY.....	3.66	843170	ARENACEOUS.....	MIOC..	2,500	521
MONTALVO WEST						
COLONIA.....	4.10	861024	COLONIA, SESPE.....	OLIG..	11,094	827
ORCUTT						
MONTEREY-PT. SAL.....	2.48	855134	POINT SAL 3RD.....	MIOC..	3,046	2,176
OXNARD						
MIOCENE.....	7.47	846067	MIOCENE.....	..DO..	2,480	164
RAMONA						
KERN-DEL VALLE.....	2.45	853053	KERN + DEL VALLE.....	..DO..	2,908	199
SAN ARDO						
AURIGNAC.....	2.25	853059	AURIGNAC, MONTEREY.....	..DO..	2,390	2,766
SAN ARDO						
LOMBARDI.....	2.25	858028	LOMBARDI, MONTEREY.....	..DO..	2,100	7,181
SANTA MARIA VALLEY						
CLARK AREA.....	4.35	.....	.....	.....	.....	686
SANTA MARIA VALLEY						
HOUK AREA.....	5.20	.....	.....	.....	.....	284
SANTA MARIA VALLEY						
MAIN AREA.....	4.62	855112	MONTEREY.....	MIOC..	3,673	991
SOUTH MOUNTAIN						
MAIN AREA						
SESPE.....	2.79	853049	SESPE.....	OLIG..	4,609	1,140
TORREY CANYON						
LOWER SESPE.....	2.74	853048	..DO.....	..DO..	7,600	257
ZACA CREEK						
MAIN AREA.....	6.76	855167	MONTEREY.....	MIOC..	3,367	406
LOS ANGELES						
(0.00-0.50)						
DOMINGUEZ						
UPPER 1ST EAST REYES.....	.40	855139	PLIOCENE + MIOCENE.....	PLIO..	4,000	60
EAST LOS ANGELES.....	.50	.....	.....	.....	.....	103
MONTERELLO						
WEST AREA.....	.28	843030	FERNANDO.....	PLIO..	.....	103
POTRERO						
EAST AREA.....	.33	839470	PICO, CYPRESS.....	..DO..	4,421	115
ROSECRANS						
HOWARD TOWNSITE AREA						
7 & 8.....	.48	.....	.....	.....	.....	79
SANTA FE SPRINGS						
MAIN AREA						
OTHERS.....	.44	823525	MEYER.....	PLIO..	.....	903
SANTA FE SPRINGS						
MAIN AREA						
SANTA FE.....	.26	830254	CLARK.....	MIOC..	8,060	38
(0.51-1.00)						
BELMONT OFFSHORE						
OLD AREA						
LOWER.....	.90	864095	MIOCENE, DEEP.....	MIOC..	5,810	236
BELMONT OFFSHORE						
SURFSIDE AREA.....	.90	864095	..DO.....	..DO..	5,810	2,286
BREA-OLINDA						
BREA AREA						
OTHERS.....	.75	855177	MIOCENE.....	..DO..	3,390	1,038
BREA-OLINDA						
TONNER AREA.....	.75	.....	.....	.....	.....	1,187
CHEVIOT HILLS						
MIOCENE UNDIFFERENTIATED.....	.53	844113	MIOCENE, 8.....	MIOC..	9,000	493
CHEVIOT HILLS						
PLIOCENE.....	.87	869044	DELMONTIAN 8+MODELO.....	..DO..	9,057	20
COYOTE EAST						
ANAHEIM.....	.95	857092	REPETTO.....	PLIO..	3,950	388
COYOTE WEST						
EAST AREA						
"138".....	.82	855164	EMERY, REPETTO.....	..DO..	4,900	39
COYOTE WEST						
WEST AREA						
EMERY.....	.82	855164	..DO.....	..DO..	4,900	267
DOMINGUEZ						
1ST EAST CENTRAL.....	.93	.....	.....	.....	.....	46
DOMINGUEZ						
1ST EAST UNIT.....	.93	.....	.....	.....	.....	86
DOMINGUEZ						
3RD, 4TH, & 5TH SOUTHEAST CENTRAL.....	.96	855176	TERTIARY 5TH.....	TERT..	5,871	192
DOMINGUEZ						
3RD, 4TH, & 5TH WEST.....	.96	.....	.....	.....	.....	8
DOMINGUEZ						
4TH & 5TH MIDDLE EAST CENTRAL.....	.96	.....	.....	.....	.....	9
INGLEWOOD						
SENTOUS.....	1.00	.....	.....	.....	.....	88
LAS CIENEGAS						
JEFFERSON.....	.58	864061	MIOCENE.....	MIOC..	2,300	820
LAS CIENEGAS						
MURPHY.....	.58	.....	.....	.....	.....	847

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR, WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
CALIFORNIA - CONTINUED LOS ANGELES - CONTINUED (0.51-1.00)						
MONTEBELLO MAIN AREA						
BALDWIN "1-2-3".....	0.75	B43028	BALDWIN, FERNANDO.....	PLIO..	.....	623
ROSECRANS ATHENS AREA						
UPPER.....	.53	R26330	TERTIARY.....	TERT..	4,500	13
ROSECRANS MAIN AREA						
MAXWELL-HOGE.....	.52	.....	.....	.....	.....	55
ROSECRANS MAIN AREA						
PADEFORD.....	.53	.....	.....	.....	.....	20
ROSECRANS MAIN AREA						
ZINS.....	.52	.....	.....	.....	.....	87
SANSINENA EAST AREA						
MIOCENE "A-10" BLOCKS I & II.....	.52	R55180	ZINS.....	PLIO..	5,720	16
SEAL BEACH NORTH BLOCK						
MCGRATH.....	.55	R55142	MCGRATH.....	MIOC..	8,500	521
SEAL BEACH NORTH BLOCK-EAST EXTENSION						
MCGRATH.....	.55	.....	.....	.....	.....	100
SEAL BEACH SOUTH BLOCK						
MCGRATH.....	.55	.....	.....	.....	.....	312
WHITTIER MAIN.....	.53	B44060	WHITTIER, REPETTO.....	PLIO..	2,500	556
(1.01-2.00)						
BREA-OLINDA BREA AREA						
MIOCENE "D".....	1.43	B01136	TERTIARY.....	TERT..	.....	104
COYOTE EAST HUALDE.....	1.80	.....	.....	.....	.....	53
COYOTE EAST STERN.....	1.44	.....	.....	.....	.....	350
COYOTE WEST EAST AREA						
EMERY.....	1.21	R43033	PLIOCENE.....	PLIO..	.....	151
COYOTE WEST EAST AREA						
MAIN) "99" UPPER).....	1.60	.....	.....	.....	.....	464
COYOTE WEST WEST AREA						
B-4, B-5.....	1.46	B01143	TERTIARY.....	TERT..	3,200	57
COYOTE WEST WEST AREA						
MAIN) "99" UPPER).....	1.21	B43033	PLIOCENE.....	PLIO..	.....	1,422
HUNTINGTON BEACH HUNTINGTON AVENUE AREA						
JONES.....	1.46	R55141	JONES, MODELO.....	MIOC..	4,300	231
HUNTINGTON BEACH HUNTINGTON AVENUE AREA						
MAIN.....	1.29	B23515	PLIOCENE.....	PLIO..	5,000	7
HUNTINGTON BEACH NORTH AREA						
ASHTON.....	1.26	B43026	FERNANDO.....	..DO..	.....	2,311
HUNTINGTON BEACH NORTH AREA						
TAR BOLSA.....	2.00	B23517	PLIOCENE.....	..DO..	2,750	300
HUNTINGTON BEACH SOUTH AREA (OFFSHORE)						
JONES.....	1.57	B58014	TERTIARY.....	TERT..	.....	5,151
HUNTINGTON BEACH SOUTH AREA (OFFSHORE)						
UPPER MAIN) MAIN).....	1.29	.....	.....	.....	.....	6,447
HUNTINGTON BEACH SOUTH AREA (ONSHORE)						
"A-37".....	1.60	.....	.....	.....	.....	606
HUNTINGTON BEACH SOUTH AREA (ONSHORE)						
JONES.....	1.42	B69088	JONES AE-AK.....	MIOC..	2,635	351
HUNTINGTON BEACH SOUTH AREA (ONSHORE)						
MAIN.....	1.57	B58014	TERTIARY.....	TERT..	.....	140
INGLEWOOD RINDGE.....	1.67	B43029	PLIOCENE.....	PLIO..	.....	483
LAWDALE JOHNSON.....	1.40	.....	.....	.....	.....	11
LONG BEACH NORTHWEST EXTENSION AREA.....	1.34	B23521	TERTIARY.....	TERT..	4,769	82
LONG BEACH OLD AREA						
UPPER POOLS.....	1.34	.....	.....	.....	.....	2,823

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
CALIFORNIA - CONTINUED						
LOS ANGELES - CONTINUED						
(1.01-2.00)						
POTRERO						
INGLEWOOD CITY AREA.....	2.00	.....	.....	.....	.....	16
RICHFIELD						
EAST AREA.....	1.60	801141	MIOCENE.....	MIOC..	3,800	1,045
RICHFIELD						
WEST AREA.....	1.86	855163	KRAEMER.....	..DO..	4,100	867
SAWTELL						
MIOCENE.....	1.53	869047	FUENTE.....	..DO..	9,078	750
SEAL BEACH						
SOUTH BLOCK						
RUBY-SELOVER.....	1.23	826328	REPETTO.....	PLIO..	4,570	28
TORRANCE						
DEL AMO.....	1.84	855126	DEL AMO, PUENTE.....	MIOC..	3,100	265
TORRANCE						
MAIN.....	1.62	801135	.....	.....	.....	1,091
WHITTIER						
184 ANTICLINE						
TMR-184 ZONE.....	1.20	.....	.....	.....	.....	120
WHITTIER						
184 ANTICLINE						
6TH ZONE.....	1.20	.....	.....	.....	.....	146
WILMINGTON						
HARBOR AREA						
FAULT BLOCK IV						
RANGER.....	1.42	866102	REPETTO.....	PLIO..	.....	1,655
WILMINGTON						
HARBOR AREA						
FAULT BLOCK IV						
TAR.....	1.14	866094	..DO.....	..DO..	.....	484
WILMINGTON						
HARBOR AREA						
FAULT BLOCK V						
TAR.....	1.68	866095	..DO.....	..DO..	.....	1,118
WILMINGTON						
HARBOR AREA						
FAULT BLOCK V-R						
UPPER TERMINAL.....	1.44	.....	.....	.....	.....	1,237
WILMINGTON						
HARBOR AREA						
FAULT BLOCK VI						
LOWER TERMINAL.....	1.44	.....	.....	.....	.....	321
WILMINGTON						
TERMINAL AREA						
FAULT BLOCK II-A						
RANGER.....	1.24	837167	TERMINAL, PUENTE.....	MIOC..	3,109	493
WILMINGTON						
TERMINAL AREA						
FAULT BLOCK II-A						
TAR.....	1.33	866091	REPETTO.....	PLIO..	.....	443
WILMINGTON						
TERMINAL AREA						
FAULT BLOCK II-R						
RANGER.....	1.40	854056	TERMINAL HX, PUENTE.....	MIOC..	2,981	182
WILMINGTON						
TERMINAL AREA						
FAULT BLOCK II-R						
TAR.....	1.36	866092	REPETTO.....	PLIO..	.....	94
WILMINGTON						
TERMINAL AREA						
FAULT BLOCK II-B						
UPPER TERMINAL.....	1.38	849005	TERMINAL, PUENTE.....	MIOC..	3,143	475
WILMINGTON						
TERMINAL AREA						
FAULT BLOCK III						
TAR.....	1.58	866093	REPETTO.....	PLIO..	.....	372
YORBA LINDA						
MAIN (SMITH).....	1.68	841057	SMITH, REPETTO.....	..DO..	2,181	167
YORBA LINDA						
SHALLOW.....	1.86	841055	PLEISTOCENE SHALLOW.....	PLEIS.	260	3,133
YORBA LINDA						
SHELL.....	1.90	861056	SHELL, REPETTO.....	PLIO..	1,994	142
(>2.00)						
REVERLY HILLS						
EAST AREA						
PLIOCENE.....	2.45	849043	DELMONTIAN<MONMNIAN<MOD..	MIOC..	5,780	2,189
EL SEGUNDO						
MAIN AREA).....	4.33	838049	COMPOSITE.....	..DO..	7,462	44
HUNTINGTON REACH						
NORTH AREA						
MAIN ("CH").....	2.07	823526	TERTIARY.....	TERT..	4,200	12
HUNTINGTON REACH						
SOUTH AREA (ONSHORE)						
TAR ZONE.....	2.22	823516	PLIOCENE.....	PLIO..	2,400	877
INGLEWOOD						
VICKERS.....	2.50	855140	VICKERS.....	..DO..	2,300	2,305
NEWPORT WEST						
ALORICH AREA						
"B".....	2.59	855143	NEWPORT, MODELO.....	MIOC..	4,921	30
NEWPORT WEST						
MAIN AREA.....	3.04	855144	..DO.....	..DO..	2,275	1,140

SEE FOOTNOTES AT END OF TABLE.

TABLE I. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
CALIFORNIA - CONTINUED						
LOS ANGELES - CONTINUED						
(>2.00)						
NEWPORT WEST						
OFFSHORE AREA.....	2.59	855143	NEWPORT, MODELO.....	MIOC..	4,921	150
NEWPORT WEST						
SURF AREA						
EAST BLOCK.....	3.27	.....	.....	.....	.....	19
PLAYA DEL REY						
DEL REY HILLS AREA.....	2.60	830255	MIOCENE.....	MIOC..	6,126	86
PLAYA DEL REY						
VENICE AREA.....	3.50	.....	.....	.....	.....	85
SALT LAKE						
PLIOCENE)						
MIOCENE).....	2.73	R01145	TERTIARY.....	TERT..	900	357
WILMINGTON						
EAST AREA						
FAULT BLOCK V						
TAR.....	2.07	R46098	REPETTO.....	PLIO..	.....	6
WILMINGTON						
TERMINAL AREA						
FAULT BLOCK I						
TAR-RANGER-TERMINAL.....	2.47	837166	TERMINAL, PUENTE.....	MIOC..	3,190	926
COLORADO						
(0.00-0.50)						
ABBOTT/J SAND.....	.24	L54218	J.....	CRET..	4,804	20
ADENA/J SAND.....	.06	L54219	..DO.....	..DO..	5,555	201
AKRON EAST/D SAND.....	.13	L56225	D.....	..DO..	4,534	194
BADGER CREEK/D SAND.....	.13	L56133	..DO.....	..DO..	5,460	10
BATTLESHIP/DAKOTA.....	.22	L60207	DAKOTA.....	..DO..	4,561	13
BEALL CREEK/J SAND.....	.10	L54211	J.....	..DO..	4,933	21
BIG BEAVER/J SAND.....	.10	L54224	..DO.....	..DO..	4,988	198
BIJOU WEST/D SAND.....	.10	L60138	D.....	..DO..	6,196	5
BOBCAT.....	.09	L54225	..DO.....	..DO..	5,150	35
BRANDON/LANSING-KC.....	.16	L67204	MISSISSIPPIAN.....	MISC..	4,617	5
BUCK PEAK/MANCOS.....	.07	L60210	NIOBRARA.....	CRET..	6,216	56
CACHE/ISMAY.....	.09	L66024	ISMAY.....	PENN..	5,572	95
CEDAR CREEK NORTH/D SAND.....	.09	L56215	D.....	CRET..	4,962	8
CLARK LAKE/D SAND.....	.19	L50273	MUDDY.....	..DO..	5,850	35
CLIFF.....	.12	L55369	D.....	..DO..	5,512	43
DALE/J SAND.....	.12	L56220	..DO.....	..DO..	4,663	5
DANFORTH HILLS NORTH.....	.47	L67118	MORRISON + ENTRADA.....	JUR..	6,430	11
DANFORTH HILLS/MORRISON.....	.24	L68009	DAKOTA.....	CRET..	6,072	25
DARBY CREEK.....	.09	L56212	D.....	..DO..	4,814	15
DIVIDE/D SAND.....	.13	L55372	..DO.....	..DO..	4,721	38
DUNE RIDGE/D SAND.....	.11	L55373	..DO.....	..DO..	4,474	11
FLOODLINE PARK ISMAY.....	.05	L67100	ISMAY.....	PENN..	5,862	74
FLORENCE-CANYON CITY/PIERRE.....	.32	L52163	PIERRE.....	CRET..	2,995	21
FT COLLINS/MUDDY-DAKOTA.....	.17	L50265	MUDDY + DAKOTA.....	..DO..	4,500	15
GRAYLIN NW/D SAND.....	.09	L51281	D.....	..DO..	4,901	92
HARDWAY/D SAND.....	.16	L56226	..DO.....	..DO..	4,506	26
HIAWATHA.....	.21	L36003	WASATCH.....	EOCENE	2,280	23
JOHNSON HILL NORTH.....	.16	L56164	J.....	CRET..	5,402	22
KEOTA.....	.08	L51309	..DO.....	..DO..	7,322	6
LEWIS CREEK/J SAND.....	.10	L56209	..DO.....	..DO..	5,367	7
LITTLE BEAVER E/D SAND.....	.17	L55295	D.....	..DO..	5,080	13
LITTLE BEAVER/D SAND.....	.08	L52174	..DO.....	..DO..	5,252	95
MAUDLIN GULCH/MORRISON & SUNDANCE.....	.50	L67116	DAKOTA.....	..DO..	6,186	124
MAY/J SAND.....	.14	L56168	J.....	..DO..	6,443	11
MCCALLUM/MORRISON.....	.04	L43041	DAKOTA.....	..DO..	4,980	20
MERINO/J SAND.....	.04	L51286	J.....	..DO..	5,095	35
MESSEX.....	.08	L51289	..DO.....	..DO..	5,072	6
MIDDLEMIST/J SAND.....	.10	L55448	..DO.....	..DO..	5,522	29
MINTO/J SAND.....	.09	L56223	..DO.....	..DO..	4,836	41
MORFAT.....	.29	L39009	SUNDANCE.....	JUR..	4,749	14
MOUNT HOPE.....	.09	L51285	D.....	CRET..	4,859	83
NINE MILE/DAKOTA.....	.06	L67115	DAKOTA.....	..DO..	7,266	69
NOONEN RANCH J.....	.04	L52079	J.....	..DO..	6,240	9
PAWNEE CREEK/J SAND.....	.05	L52076	..DO.....	..DO..	4,965	45
PEETZ WEST/J SAND.....	.11	L52181	..DO.....	..DO..	5,306	18
PLUM BUSH CREEK/J SAND.....	.20	L55297	..DO.....	..DO..	4,972	172
POWDER WASH/FT UNION.....	.11	L36018	WASATCH, LOWER.....	EOCENE	5,032	132
PRICE-GRAMPS/DAKOTA-MORRISON.....	.23	L54038	MORRISON.....	JUR..	1,323	52
SAND RIVER/D SAND.....	.13	L54231	D.....	CRET..	5,160	35
SPRINGDALE SOUTH/J SAND.....	.07	L52077	J.....	..DO..	4,870	16
TOW CREEK/NIOBRARA.....	.20	L49252	MANCOS.....	..DO..	2,740	15
TOWAC PARADOX.....	.08	L60209	PARADOX.....	PENN..	5,712	9
TREND.....	.10	L60133	D.....	CRET..	6,181	5
WALKER/J SAND.....	.13	L51290	J.....	..DO..	4,927	18
WELLINGTON.....	.25	L50266	MUDDY.....	..DO..	4,400	68
WILSON CREEK.....	.12	L49257	MORRISON.....	JUR..	6,664	2,202
WOODROW SOUTH/D SAND.....	.10	L55299	D.....	CRET..	4,914	10
XENIA WEST.....	.08	L55419	J.....	..DO..	4,808	43
YENTER.....	.09	L51284	..DO.....	..DO..	5,176	82
(0.51-1.00)						
BLACK HOLLOW/LYONS.....	.53	L54035	LYONS.....	PERM..	8,918	204
ILES/SUNDANCE.....	.57	L39012	SUNDANCE.....	JUR..	3,240	107
RANGELY/MANCOS.....	.70	L54111	.....	.....	.....	184
RANGELY/WEBER.....	.70	L45085	.....	.....	.....	10,041

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
FLORIDA						
(>2.00)						
SUNNILAND.....	3.95	B43167	CRETACEOUS.....	CRET..	11,613	671
ILLINOIS						
(0.00-0.50)						
ADEH CONSOL.....	.11	H79490	MCCLOSKEY.....	MISC..	3,325	244
AKIN.....	.14	R42049	CYPRESS.....	..DO..	2,839	35
ALBION CONSOL.....	.18	B54035	MCCLOSKEY.....	..DO..	3,101	451
ALBION EAST.....	.14	.....	.....	.....	.....	45
BARNHILL.....	.12	H39489	MCCLOSKEY.....	MISC..	3,371	36
BARTLES.....	.20	.....	.....	.....	.....	6
BEAVER CREEK.....	.25	.....	.....	.....	.....	5
BELLE PRAIRIE.....	.12	.....	.....	.....	.....	30
BENTON NORTH.....	.15	.....	.....	.....	.....	95
BENTON.....	.16	H45020	TAR SPRINGS.....	MISC..	.....	138
BONE GAP CONSOL.....	.33	.....	.....	.....	.....	21
BOYD.....	.14	R46126	RENOIST.....	MISC..	2,024	23
BROWNS.....	.18	.....	.....	.....	.....	39
BUNGAY CONSOL.....	.35	R66123	AUX VASES.....	MISC..	3,315	148
CALHOUN CONSOL.....	.15	R46124	MCCLOSKEY.....	..DO..	3,143	16
CENTERVILLE EAST.....	.20	.....	.....	.....	.....	109
CENTRALIA.....	.19	H45018	CHESTER.....	MISC..	.....	394
CLAY CITY CONSOL.....	.19	H58022	MISSISSIPPIAN.....	..DO..	2,174	4,658
COIL.....	.13	R42059	AUX VASES.....	..DO..	2,897	234
CONCORD CONSOL.....	.15	H42063	..DO..	..DO..	2,901	33
COOKS HILL CONSOL.....	.43	H57062	ROSCILARE.....	..DO..	1,798	18
CORDES.....	.12	H39492	BENOIST.....	..DO..	1,250	92
COVINGTON SOUTH.....	.18	.....	.....	.....	.....	13
DALF CONSOL.....	.15	H57063	AUX VASES.....	MISC..	3,013	1,135
DIVIDE CONSOL.....	.21	H46125	MCCLOSKEY.....	..DO..	2,752	294
DUBOIS CONSOL.....	.24	.....	.....	.....	.....	85
ELDORADO CONSOL.....	.14	.....	.....	.....	.....	377
FAIRMAN.....	.27	.....	.....	.....	.....	13
GOLDEN GATE CONSOL.....	.15	R63265	OMAHA.....	MISC..	3,295	167
HERALD CONSOL.....	.22	H57064	AUX VASES.....	..DO..	3,061	253
INMAN EAST CONSOL.....	.21	H57065	..DO..	..DO..	2,755	101
INMAN WEST CONSOL.....	.19	.....	.....	.....	.....	233
IOLA CONSOL.....	.14	.....	.....	.....	.....	304
IRVINGTON.....	.27	.....	.....	.....	.....	146
JOHNSONVILLE CONSOL.....	.18	H45017	AUX VASES + MCCLOSKEY.....	MISC..	.....	911
JUNCTION.....	.21	H39472	WALTERSBURG.....	..DO..	1,757	6
KENNER.....	.22	.....	.....	.....	.....	23
KINCAID CONSOL.....	.28	R57067	HARBARD.....	DEV..	1,809	38
KING.....	.17	.....	.....	.....	.....	28
LANCASTER.....	.28	.....	.....	.....	.....	75
LAWRENCE COUNTY DIVISION.....	.35	R29649	MCCLOSKEY.....	MISC..	1,691	4,394
LOUDEN.....	.26	R45036	BETHEL.....	..DO..	1,550	4,310
MAIN CONSOL.....	.20	H57072	ROBINSON.....	PENN..	912	1,979
MARINE.....	.29	R47033	DEVONIAN + SILURIAN.....	DEV..	1,727	48
MARSHAM CITY NORTH.....	.24	R47032	MCCLOSKEY.....	MISC..	3,052	13
MARSHAM CITY.....	.08	.....	.....	.....	.....	20
MATTOON.....	.21	R47034	ROSCILARE.....	MISC..	1,987	279
MILL SHOALS.....	.10	H39479	AUX VASES.....	..DO..	3,235	175
MT AUBURN CONSOL.....	.28	.....	.....	.....	.....	74
MT CARMEL.....	.17	R42100	CYPRESS.....	MISC..	2,000	391
NEW HARMONY CONSOL.....	.22	H39476	..DO..	..DO..	2,440	2,625
NEW HAVEN CONSOL.....	.27	.....	.....	.....	.....	47
OLNEY CONSOL.....	.17	H39488	MCCLOSKEY.....	MISC..	3,066	71
OMAHA.....	.24	.....	.....	.....	.....	152
PARKERSBURG CONSOL.....	.34	R42102	MCCLOSKEY.....	MISC..	3,100	10
PATOKA EAST.....	.16	.....	.....	.....	.....	80
PATOKA.....	.16	R37238	RENOIST.....	MISC..	1,378	74
PHILLIPSTOWN CONSOL.....	.23	R39501	MCCLOSKEY.....	..DO..	3,083	764
POSEY.....	.18	.....	.....	.....	.....	60
ROLAND CONSOL.....	.19	H57073	AUX VASES.....	MISC..	2,896	1,616
SAILOR SPRINGS CONSOL.....	.18	H63260	CYPRESS.....	..DO..	2,578	1,270
SAINT FRANCISVILLE EAST.....	.21	.....	.....	.....	.....	11
SAINT JACOB.....	.23	.....	.....	.....	.....	48
SAINT JAMES.....	.20	R46127	CYPRESS.....	MISC..	2,010	273
SAINT PAUL.....	.23	.....	.....	.....	.....	15
SALEM CONSOL.....	.17	H57074	AUX VASES.....	MISC..	1,786	3,424
SCHNELL.....	.19	.....	.....	.....	.....	8
SESSER CONSOL.....	.17	.....	.....	.....	.....	97
STE MARIE.....	.14	.....	.....	.....	.....	44
STEWARTSON.....	.18	.....	.....	.....	.....	29
STORMS CONSOL.....	.30	R46128	CYPRESS.....	MISC..	2,665	484
TAMAROA.....	.12	.....	.....	.....	.....	8
THOMPSONVILLE.....	.16	.....	.....	.....	.....	9
TONTI.....	.17	H39486	MCCLOSKEY.....	MISC..	2,128	69
WALPOLE.....	.27	R46129	TAR SPRINGS.....	..DO..	2,480	33
WEST FRANKFORT CONSOL.....	.13	.....	.....	.....	.....	84
WHITTINGTON.....	.24	.....	.....	.....	.....	73
WOBBURN CONSOL.....	.20	.....	.....	.....	.....	32
WOODLAWN.....	.15	R42119	BENOIST.....	MISC..	1,970	138
(0.51-1.00)						
COLMAR-PLYMOUTH.....	.57	R35135	HOING.....	DEV..	489	42
DUPO.....	.70	.....	.....	.....	.....	17

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
INDIANA						
(0.00-0.50)						
DODDS BRIDGE NEW.....	0.46	B42211	DEVONIAN.....	DEV...	2,397	23
GRIFFIN CONSOL.....	.20	B57103	CYPRESS.....	MISS..	2,473	1,317
HEUSLER CONSOL.....	.28	R42171	WALTERSBURG.....	..DO..	1,801	273
MT VERNON CONSOL.....	.28	R42170	WENSBURG.....	PENN..	1,273	237
OWENSVILLE CONSOL.....	.18	R62140	CYPRESS + RETHFL.....	MISS..	1,941	71
OWENSVILLE NORTH CONSOL.....	.17	B62139	..DO.....	..DO..	1,951	27
SPRINGFIELD CONSOL.....	.30	R61088	PENNSYLVANIAN.....	PENN..	1,150	402
UNION-BOWMAN CONSOL.....	.21	R42226	HARDINSBURG.....	MISS..	1,347	424
(0.51-1.00)						
SIOSSI.....	.69	R34068	NIAGARAN.....	SIL...	2,110	35
KANSAS						
(0.00-0.50)						
ALAMEDA.....	.11	B63270	VIOLA + SIMPSON.....	ORD...	.....	416
ARNOLD.....	.21	B44024	MISSISSIPPIAN.....	MISS..	4,529	16
ASH CREEK SOUTHWEST.....	.40	B50004	ARBUCKLE.....	ORD...	3,803	11
AUGUSTA.....	.48	B40219	..DO.....	..DO..	2,502	208
BAUM.....	.38	B42054	LANSING-KANSAS CITY.....	PENN..	3,069	7
BLANKENSHIP.....	.30	B00592	PENNSYLVANIAN.....	..DO..	.....	248
BLOOMER.....	.24	R35002	KANSAS CITY.....	..DO..	3,100	318
BROWNING.....	.20	R41007	BARTLESVILLE.....	..DO..	.....	35
BURDEN.....	.19	R35142	BURBANK.....	..DO..	2,923	111
BURKETT.....	.24	B25205	BARTLESVILLE.....	..DO..	.....	57
CALDWELL.....	.09	R41059	WILCOX, SIMPSON.....	ORD...	4,750	8
CHASE-SILICA.....	.44	R60012	KANSAS CITY.....	PENN..	3,071	1,576
CHEYENNE VIEW.....	.30	B50042	ARBUCKLE.....	ORD...	3,346	146
CHITWOOD.....	.44	B47022	SIMPSON.....	..DO..	4,370	21
CROWTHER.....	.41	R42231	..DO.....	..DO..	2,778	32
DAVIS RANCH.....	.42	R50075	VIOLA.....	ORD...	3,201	431
DEICHMAN.....	.18	R58020	BARTLESVILLE.....	PENN..	2,800	8
DEMALORIE-SOUER.....	.18	R41064	..DO.....	..DO..	2,240	91
DEUILING.....	.50	R50076	ARBUCKLE.....	ORD...	3,367	14
EASTMAN.....	.19	R41026	BARTLESVILLE.....	PENN..	.....	25
EL DORADO.....	.23	R40213	LANSING.....	..DO..	1,615	1,488
ELBING.....	.29	R00589	..DO.....	..DO..	.....	157
EUBANK.....	.35	B65132	LANSING.....	PENN..	5,363	414
FAIRPORT.....	.37	R61082	LANSING-KANSAS CITY.....	..DO..	3,194	720
FANKHOUSER.....	.19	R41019	BARTLESVILLE.....	..DO..	1,850	33
FLORENCE.....	.23	R00590	..DO.....	..DO..	.....	10
FOX-BUSH-COUCH.....	.20	R35206	BURBANK.....	PENN..	2,782	55
FROG HOLLOW.....	.18	R41170	BARTLESVILLE.....	..DO..	.....	46
GARDEN-REYNOLDS-SCHAFFER.....	.32	R35211	VIOLA.....	ORD...	3,149	67
GATES.....	.33	R67146	..DO.....	..DO..	3,552	295
GENESE-EDWARDS.....	.47	R35073	ARBUCKLE.....	..DO..	3,130	689
GEUDA SPRINGS.....	.30	R58025	BARTLESVILLE.....	PENN..	3,411	23
GLADYS.....	.12	B61003	MISSISSIPPIAN.....	MISS..	3,180	283
GOODRICH.....	.41	R35124	DEVONIAN.....	DEV...	3,038	62
GRABER.....	.16	R35082	HUNTON.....	..DO..	3,310	52
GRAHAM.....	.12	R35132	KANSAS CITY.....	PENN..	2,541	94
HALL-GURNEY.....	.41	B59193	LANSING-KANSAS CITY.....	..DO..	2,952	2,438
HANSTON-OPPY.....	.21	R66049	MISSISSIPPIAN.....	MISS..	4,413	358
HAZEL.....	.13	R42206	ARBUCKLE.....	ORD...	3,692	26
HAZLETT.....	.13	R35254	MISSISSIPPIAN.....	MISS..	2,470	41
HEIKEN.....	.30	R35007	ARBUCKLE.....	ORD...	3,244	24
HOLLOW-NIKKEL.....	.12	R35084	HUNTON.....	DEV...	3,505	247
HUFFSTUTTER.....	.27	R67093	LANSING-KANSAS CITY.....	PENN..	3,400	471
INTERSTATE.....	.09	R60033	..DO.....	..DO..	.....	1,553
IUKA-CARMI.....	.41	R54100	SIMPSON.....	ORD...	4,300	435
JOHN CREEK.....	.39	R67155	VIOLA.....	..DO..	3,079	263
KEIGHLEY.....	.20	R35215	BURBANK.....	PENN..	2,632	132
KRAFT-PRUSA.....	.27	R46118	..DO.....	..DO..	3,341	1,130
KRAMER-STERN.....	.34	R35216	VIOLA.....	ORD...	3,079	189
LAMONT.....	.20	R41016	BARTLESVILLE.....	PENN..	.....	14
LATON.....	.36	R66014	LANSING-KANSAS CITY.....	..DO..	3,097	305
LEON.....	.19	R35208	BURBANK.....	..DO..	2,700	48
LINDSBORG.....	.46	R42209	SIMPSON.....	ORD...	3,451	116
NOVINGER.....	.10	R69046	MARMATON.....	PENN..	5,280	167
ORTH.....	.35	R41367	GRANITE WASH.....	ORD...	3,150	31
OTIS-ALBERT.....	.39	R42107	REAGAN.....	CAMR..	3,561	140
OXFORD.....	.22	R35271	ARBUCKLE.....	ORD...	2,801	36
PADGETT.....	.18	R41049	..DO.....	..DO..	3,460	79
PARKER.....	.38	R50053	LANSING.....	PENN..	3,070	11
PAWNEE ROCK.....	.34	R42116	ARBUCKLE.....	ORD...	3,667	152
PEABODY.....	.25	R35305	VIOLA.....	..DO..	2,504	39
PIERCE.....	.11	R35255	MISSISSIPPIAN.....	MISS..	2,585	48
POLHAMUS.....	.20	R41012	BARTLESVILLE.....	PENN..	2,170	21
POTWIN.....	.12	R35253	POTWIN.....	MISS..	2,756	79
QUINCY.....	.21	R41040	BARTLESVILLE.....	PENN..	1,436	96
RAHN.....	.19	R41169	..DO.....	..DO..	2,910	33
RAINBOW BEND.....	.18	R41172	..DO.....	..DO..	3,200	98
RICHARDSON.....	.31	R35072	ARBUCKLE.....	ORD...	3,550	181
RINGWALD.....	.32	R50108	LANSING.....	PENN..	2,859	46
RITZ-CANTON.....	.50	R35010	MISSISSIPPIAN.....	MISS..	2,915	603
ROCK.....	.23	R58026	BARTLESVILLE.....	PENN..	2,820	105
ROXBURY.....	.39	R42232	..DO.....	..DO..	2,658	36
RUSSELL.....	.45	R36013	ARBUCKLE.....	ORD...	3,276	136
SALLYARDS.....	.22	R56003	BARTLESVILLE.....	PENN..	2,450	149
SCOTT.....	.19	R41005	..DO.....	..DO..	.....	32
SEELEY-WICK.....	.21	R41008	..DO.....	..DO..	1,700	237
SLICK-CARSON.....	.20	R35129	ARBUCKLE.....	ORD...	3,462	8

SEE FOOTNOTES AT END OF TABLE.

TARIFF 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
 WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA 1/ SULFUR CONTENT CATEGORY AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
KANSAS						
- CONTINUED						
(0.00-0.50)						
SMITH.....	0.12	R35140	RIUPRANK.....	PENN..	3,107	47
SMOCK-SLUSS.....	.21	R35207	..DO.....	..DO..	2,750	50
SNOWDEN-MCSWEENEY.....	.19	R35218	MISSISSIPPIAN.....	MISS..	2,877	15
STOLTENBERG.....	.27	R41366	ARRUCKLE.....	ORD..	3,302	318
TEETER.....	.20	R45130	BARTLESVILLE.....	PENN..	.....	133
THALL-AAGARD.....	.18	R41068	..DO.....	..DO..	2,300	192
TRAPP.....	.41	R41365	ARRUCKLE.....	ORD..	3,282	1,902
TRICO.....	.50	R66019	..DO.....	..DO..	.....	397
UNGER.....	.19	R60026	HUNTON.....	DEV..	2,835	95
VALLEY CENTER.....	.49	R35092	KANSAS CITY.....	PENN..	2,601	51
VIRGIL.....	.19	R41053	BARTLESVILLE.....	..DO..	.....	127
WICHITA.....	.76	H67095	VIOLA.....	ORD..	1,330	54
WIGGINS.....	.17	R41023	BARTLESVILLE.....	PENN..	1,860	9
WILBURTON.....	.13	H45127	MORROW G.....	..DO..	5,082	563
WINFIELD.....	.23	H00584	.....	.....	1,450	47
YOUNG.....	.47	R35214	KANSAS CITY.....	PENN..	2,167	56
ZENITH-PEACE CREEK.....	.33	R41359	VIOLA.....	ORD..	3,719	145
(0.51-1.00)						
BARRY.....	.55	B69049	LANSING-KANSAS CITY.....	PENN..	3,196	245
REMS-SHUTTS.....	.57	B58157	ARRUCKLE.....	ORD..	3,592	2,520
BURTON-HAUPY.....	.53	R36190	MISSISSIPPIAN.....	MISS..	3,248	1,017
COOPER.....	.51	R47090	ARRUCKLE.....	ORD..	3,861	360
CUNNINGHAM.....	.53	R35075	LANSING.....	PENN..	3,389	77
EULFERT.....	.74	H50057	ARRUCKLE.....	ORD..	3,267	83
GORHAM.....	.55	R41080	..DO.....	..DO..	3,299	667
HAYDEN.....	.69	H50054	..DO.....	..DO..	3,470	8
KISMET.....	.53	R40462	MORROW.....	PENN..	5,613	231
MARCOTTE.....	.77	R41084	ARRUCKLE.....	ORD..	3,757	695
MOREL.....	.67	H46119	..DO.....	..DO..	3,711	610
NORTHAMPTON.....	.75	R47144	..DO.....	..DO..	3,823	143
NORTON.....	.65	H47122	..DO.....	..DO..	3,769	243
PLEASANT PRAIRIE.....	.70	H58009	MISSISSIPPIAN.....	MISS..	5,054	627
RAY.....	.53	R41006	ARRUCKLE.....	ORD..	3,556	961
SHALLOW WATER.....	.77	R45104	MISSISSIPPIAN.....	MISS..	4,587	9
SPIVEY-GRABS-BASIL.....	.93	R41007	..DO.....	..DO..	4,472	1,624
SUGARLOAF SOUTHEAST.....	.57	H47138	ARRUCKLE.....	ORD..	3,506	157
WELCH-RORNHOLDT.....	.58	H54025	MISSISSIPPIAN.....	MISS..	3,534	261
WHERRY.....	.61	R35078	..DO.....	..DO..	3,383	245
ZURICH.....	.78	R44041	ARRUCKLE.....	ORD..	3,623	10
(1.01-2.00)						
RHODES.....	1.04	R40009	MISSISSIPPIAN.....	MISS..	4,600	221
KENTUCKY						
(0.00-0.50)						
APEX CONSOL.....	.31	R41068	JACKSON + BETHFL.....	MISS..	700	94
BIRK CITY CONSOL.....	.35	R47013	MCCLOSKY.....	..DO..	1,896	142
CLEOPATRA CONSOL.....	.37	R43148	RENOIST.....	..DO..	1,833	41
DIXIE WEST.....	.14	R43264	TRADEWATER A.....	PENN..	924	274
HITESVILLE CONSOL.....	.44	H47012	CYPRESS.....	MISS..	2,317	290
POOLF CONSOL.....	.26	H47001	JETT, TAR SPRINGS.....	..DO..	1,814	502
SMITH MILLS CONSOL.....	.40	R47014	CYPRESS.....	..DO..	2,288	110
SMITH MILLS NORTH.....	.40	R47014	..DO.....	..DO..	2,288	166
UNIONTOWN CONSOL.....	.27	R47007	WALTERSBURG.....	..DO..	1,792	180
WHITESVILLE CONSOL.....	.44	H47012	CYPRESS.....	..DO..	2,317	9
LOUISIANA						
NORTH						
(0.00-0.50)						
ADA.....	.47	H72004	RODESSA.....	CRET..	5,863	117
ANTIOCH.....	.29	R71016	COTTON VALLEY.....	JUR..	8,970	13
ATHENS HOSSTON.....	.16	H71021	HOSSTON.....	CRET..	7,452	8
RIG ISLAND, NORTH.....	.08	R48108	WILCOX.....	EOCFNE	4,798	1,148
BLACK LAKE.....	.14	H48093	PETTIT, SLIGO.....	CRET..	7,979	3,248
CADDO - PINE ISLAND.....	.25	R35094	ANNONA, TAYLOR.....	..DO..	1,550	3,487
CARTERSVILLE NORTH.....	.23	H71015	TOKIO.....	..DO..	3,080	46
COLGRADE.....	.30	R41076	WILCOX.....	EOCFNE	1,310	505
COLQUITT NORTHWEST.....	.18	H72051	COTTON VALLEY.....	JUR..	.....	153
COLQUITT.....	.07	H41077	SMACKOVER R.....	..DO..	10,308	372
CONVERSE.....	.13	R34016	ANNONA, TAYLOR.....	CRET..	1,955	83
COTTON VALLEY.....	.09	R39080	HOLLOWAY, TRAVIS PEAK.....	..DO..	5,810	402
DELHI HOLT RYANT.....	.09	R54153	TUSCALOOSA.....	..DO..	3,342	5,472
DELHI MAY EQUIVALENT.....	.19	R53043	PALUXY, TRINITY.....	..DO..	3,343	120
DELHI MENGEL.....	.19	R53043	..DO.....	..DO..	3,343	99
DELHI, SOUTH.....	.09	R59153	TUSCALOOSA.....	..DO..	3,342	194
DIXIE.....	.22	R35094	TOKIO.....	..DO..	2,388	10
ESPERANCE POINT.....	.04	H40031	WILCOX.....	EOCFNE	6,549	488
GREENWOOD-WASKOM.....	.21	R40014	NACATOCH.....	CRET..	1,110	593
HICO-KNOWLES.....	.09	H54031	HODCAW, COTTON VALLEY.....	JUR..	8,620	32
HOLLY RIDGE.....	.10	R43197	MASSIVE, TUSCALOOSA.....	CRET..	8,399	77
LAKE ST. JOHN.....	.17	R53042	TUSCALOOSA.....	..DO..	9,178	1,114
LICK CREEK.....	.18	R71010	SMACKOVER.....	JUR..	9,950	126
LISBON NORTHEAST.....	.02	H72057	HOSSTON.....	CRET..	6,304	91
LITTLE CREEK.....	.10	R42090	WILCOX.....	EOCFNE	2,700	258
MOUNT SINAI.....	.11	R71014	SMACKOVER.....	JUR..	10,450	15
NEBO-HEMPHILL.....	.08	R40029	WILCOX.....	EOCFNE	3,370	1,695
OLLA.....	.15	R40030	..DO.....	..DO..	2,226	1,649

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR, WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
LOUISIANA						
NORTH						
(0.00-0.50)						
PENDLETON-MANY.....	0.04	B64057	SARATOGA, TAYLOR.....	CRET..	2,840	80
PLEASANT HILL.....	.41	R35110	TRINITY.....	..DO..	3,279	23
RED RIVER-BULL BAYOU.....	.16	R35113	PALUXY, TRINITY.....	..DO..	2,779	911
RODESSA.....	.25	R40084	COQUINA, GLEN ROSE.....	..DO..	5,975	274
SHONGALOO.....	.09	R39085	SEXTON, COTTON VALLEY.....	JUR...	8,990	143
SHONGALOO, NORTH RED ROCK.....	.01	B69092	SMACKOVER A.....	..DO..	10,730	383
SHREVEPORT.....	.10	R38271	PETTIT.....	CRET..	5,549	101
SIBLEY.....	.09	R39079	RODESSA, GLEN ROSE.....	..DO..	5,575	13
SILIGO.....	.26	B61126	HEROLD, PALUXY.....	..DO..	3,003	316
SPRINGHILL.....	.25	B54066	OKIO + AUSTIN.....	..DO..	3,100	54
SUMMERVILLE.....	.11	R42088	WILCOX.....	Eocene	2,575	75
TROUT CREEK.....	.09	H42087	..DO..	..DO..	3,176	82
TULLOS-URANIA.....	.26	B33064	URANIA, WILCOX.....	..DO..	1,550	583
(0.51-1.00)						
BELLEVUE.....	.90	B35106	NACATOCH.....	CRET..	305	420
CARTERVILLE.....	.68	R35105	BLOSSOM, BROWNSTOWN.....	..DO..	2,735	227
ELM GROVE.....	.59	R35112	HUCKPANGE, OZAN.....	..DO..	1,550	76
HAYNESVILLE EAST.....	.57	B33033	BIRDSONG-OWENS.....	..DO..	5,179	440
HAYNESVILLE PETTIT LIME.....	.66	B33031	PETTIT.....	..DO..	5,255	509
HAYNESVILLE.....	.54	R35104	BLOSSOM, BROWNSTOWN.....	..DO..	2,797	1,595
HOLLY.....	.57	R35111	EAGLE FORD.....	..DO..	2,850	21
HOMER.....	.63	B00711	BLOSSOM + NACATOCH.....	..DO..	1,100	334
SUGAR CREEK.....	.94	B39095	DARRETT, TRAVIS PEAK.....	..DO..	5,732	15
(1.01-2.00)						
LISBON WEST.....	1.04	B59180	PETTIT.....	CRET..	5,300	145
LISBON.....	1.07	B38455	..DO..	..DO..	5,311	451
MINDEN.....	1.01	B71031	COTTON VALLEY.....	JUR...	6,830	98
SOUTH						
(0.00-0.50)						
ANSE LA RUTTE.....	.13	B57130	MARTIN.....	MIOC..	5,250	1,919
AVERY ISLAND.....	.12	B50009	MIOCENE.....	..DO..	8,900	3,561
BANCROFT.....	.09	B42199	COCKFIELD.....	Eocene	7,296	27
BARATARIA WEST.....	.15	B54024	MIOCENE, 8900 FT.....	MIOC..	8,864	50
BARATARIA.....	.14	B42139	MIOCENE.....	..DO..	8,200	309
BASTIAN BAY.....	.17	B60039	MIOCENE E.....	..DO..	9,100	599
BATEMAN LAKE.....	.13	B54077	MIOCENE, 10900 FT.....	..DO..	12,063	1,937
BAY DE CHENE.....	.27	B54070	MIOCENE.....	..DO..	.....	6,511
BAY MARCHAND BLOCK 2.....	.28	B69107	PLIOCENE AND MIOCENE.....	PLIO..	2,472	30,567
BAY STE. ELAINE.....	.34	B57116	MIOCENE.....	MIOC..	.....	7,574
BAYOU BLUE.....	.23	B54057	MIOCENE 13.....	..DO..	3,716	1,463
BAYOU BOUILLON.....	.24	B68149	MARGINULINA, SU-H.....	..DO..	10,283	1,746
BAYOU CHOCTAW.....	.17	B60024	MIOCENE.....	..DO..	2,000	445
BAYOU COUBA.....	.11	B42222	..DO..	..DO..	6,536	636
BAYOU DES ALLEMANS.....	.13	B42126	..DO..	..DO..	.....	2,146
BAYOU HENRY.....	.15	B68128	MARGINULINA, FRIO.....	OLIG..	11,910	779
BAYOU MALLET.....	.09	B37199	MARGINULINA.....	MIOC..	6,997	276
BAYOU PIGEON.....	.04	B68164	MIOCENE, V.....	..DO..	9,201	551
BAYOU SALE.....	.10	B42134	MIOCENE, 10300 FT.....	..DO..	10,298	4,934
BAYOU SORREL.....	.10	B68165	MIOCENE W2.....	..DO..	7,102	1,837
BEAR.....	.09	B43120	FRIO.....	OLIG..	6,512	19
BELLE ISLE.....	.16	B68141	MIOCENE K.....	MIOC..	11,918	410
BIG LAKE.....	.09	B44005	MARGINULINA.....	..DO..	8,571	520
BLACK BAY EAST.....	.22	B68092	MIOCENE, 0-1.....	..DO..	7,242	3,044
BLACK BAY SOUTHEAST.....	.16	B69075	MIOCENE 0-2.....	..DO..	8,493	1,472
BLACK BAY WEST.....	.19	B60051	MIOCENE, 8650 FT.....	..DO..	8,610	9,713
BLACK BAYOU.....	.10	B68157	MIOCENE, 02.....	..DO..	5,640	3,204
BONNET-CARRE.....	.13	B64032	OPERULINOIDES 4.....	..DO..	9,400	1,868
BOSCO.....	.09	B54059	MIRE.....	..DO..	8,050	410
BRETON SOUND BLOCK 20.....	.29	B70032	MIOCENE.....	..DO..	5,174	2,651
BULLY CAMP.....	.16	B54049	..DO..	..DO..	6,468	4,537
BURRWOOD.....	.27	B64092	PLIOCENE, 5900 FT, G.....	PLIO..	7,176	1,176
CAILLOU ISLAND.....	.23	B58019	MIOCENE 70.....	MIOC..	12,640	31,364
CAMERON.....	.09	B42196	MIOCENE.....	..DO..	4,590	114
CHACAHOUILA.....	.10	B60064	ROBULUS 9.....	..DO..	12,640	498
CHARENTON.....	.10	B60050	MIOCENE.....	..DO..	6,430	1,107
CLEAR CREEK.....	.09	B60022	BEARHEAD CREEK.....	Eocene	8,848	395
CLOVELLY.....	.16	B61042	MIOCENE M-B.....	MIOC..	12,567	881
COQUILLE BAY.....	.18	B68127	MIOCENE, 8450 FT, A.....	..DO..	8,455	483
COTE BLANCHE BAY WEST.....	.16	B57117	MIOCENE.....	..DO..	.....	15,204
COTE BLANCHE ISLAND.....	.08	B60046	MIOCENE 1.....	..DO..	13,986	9,285
COX RAY.....	.38	B53038	MIOCENE.....	..DO..	8,900	1,558
CREOLE-OFFSHORE.....	.14	B40310	..DO..	..DO..	5,160	65
CROWLEY NORTH.....	.09	B50010	..DO..	..DO..	4,900	1,071
CUT OFF.....	.12	B68086	..DO..	..DO..	11,200	3,318
DARROW.....	.19	B37214	..DO..	..DO..	5,760	2,266
DELTA DUCK CLUB.....	.27	B54071	..DO..	..DO..	.....	2,673
DELTA FARMS.....	.26	B53035	..DO..	..DO..	8,780	1,245
DOG LAKE.....	.17	B69055	MIOCENE 19-7.....	..DO..	7,415	5,028
DUCK LAKE.....	.14	B53044	MIOCENE.....	..DO..	10,892	2,123
EGAN.....	.09	B50024	..DO..	..DO..	9,810	431
ELTON SOUTH.....	.09	B42218	CHICKASAWHAY.....	OLIG..	8,952	38
EOLA.....	.09	B39111	WILCOX.....	Eocene	8,550	300
ERATH.....	.20	B53063	MIOCENE.....	MIOC..	7,000	934
EUGENE ISLAND BLOCK 100.....	.08	B68166	PLIOCENE, R.....	PLIO..	12,348	534
EUGENE ISLAND BLOCK 126.....	.19	B54091	MIOCENE.....	MIOC..	4,000	5,773
EUGENE ISLAND BLOCK 128.....	.10	B64046	MIOCENE, DO.....	..DO..	10,533	2,745

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/ (0.00-0.50)	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
LOUISIANA - CONTINUED						
SOUTH - CONTINUED						
EUGENE ISLAND BLOCK 18.....	0.07	H64044	MIOCENE, N.....	MIOC..	9,582	3,705
EUGENE ISLAND BLOCK 18B.....	.35	H61129	MIOCENE, 9080 FT.....	..DO..	9,082	5,150
EUGENE ISLAND BLOCK 20B.....	.15	H64081	MIOCENE, JR C4.....	..DO..	8,336	1,569
EUGENE ISLAND BLOCK 23B.....	.19	H64113	MIOCENE, C-5.....	..DO..	9,392	1,204
EUGENE ISLAND BLOCK 32.....	.07	H61111	MIOCENE.....	..DO..	8,100	1,674
EUGENE ISLAND BLOCK 45.....	.08	H64117	MIOCENE, 10000 FT.....	..DO..	10,060	889
FAUSSE POINTE.....	.11	H61010	MIOCENE 8.....	..DO..	10,044	1,305
FIELDS.....	.09	H64004	FRIO.....	OLIG..	8,011	33
FORDOCHE.....	.16	H54081	LONG, FRIO.....	..DO..	8,287	2,883
GARDEN CITY.....	.08	H68069	MIOCENE OP 9.....	MIOC..	13,661	14
GARDEN ISLAND BAY.....	.22	H60044	MIOCENE.....	..DO..	5,900	15,785
GIBSON.....	.05	H61033	..DO.....	..DO..	8,900	165
GOLDEN MEADOW.....	.18	H53045	..DO.....	..DO..	8,410	2,662
GOOD HOPE.....	.28	H53040	..DO.....	..DO..	7,800	2,496
GRAND BAY.....	.31	H53039	..DO.....	..DO..	6,600	6,689
GRAND ISLE BLOCK 16.....	.18	H60048	PLIOCENE BF-1-E.....	PLIO..	6,952	21,139
GRAND ISLE BLOCK 18.....	.22	H60047	PLIOCENE R2.....	..DO..	8,875	3,217
GRAND ISLE BLOCK 41.....	.24	H70058	MIOCENE.....	MIOC..	12,000	5,341
GRAND ISLE BLOCK 43.....	.40	H70060	MIOCENE KH-11.....	..DO..	10,260	22,563
GRAND ISLE BLOCK 47.....	.23	H60020	PLIOCENE + MIOCENE.....	PLIO..	7,900	4,226
GRAND LAKE.....	.11	H60035	MIOCENE, 9900 FT.....	MIOC..	9,836	815
GUEYDAN WEST.....	.06	H61093	HARTWELL.....	..DO..	9,612	307
GUEYDAN.....	.08	H61094	ALLANCE.....	..DO..	9,782	325
HACKBERRY EAST.....	.30	H64120	CAMERINA, MAIN.....	OLIG..	7,256	2,230
HACKBERRY WEST.....	.29	H50015	MIOCENE.....	MIOC..	3,050	3,767
HORSFHOE RAYOU.....	.09	H63078	..DO.....	..DO..	10,180	659
IBERIA.....	.21	H51117	..DO.....	..DO..	3,790	1,556
IOWA.....	.20	H57105	MIOCENE C.....	..DO..	5,050	832
JEANPERETTE.....	.15	H54102	MIOCENE Q.....	..DO..	6,500	835
JEFFERSON ISLAND.....	.10	H62136	MIOCENE.....	..DO..	3,070	121
JENNINGS.....	.36	H00945	TERTIARY.....	TERT..	1,963	292
JOHNSON RAYOU.....	.05	H64114	AMPHISTEGINA I2.....	MIOC..	7,132	1,211
LA PICE.....	.24	H54044	BIGENERINA FLORIDIANA.....	..DO..	6,845	1,725
LAFITTE.....	.14	H37218	MIOCENE.....	..DO..	9,558	10,675
LAKE BARRE.....	.14	H60049	MIOCENE R1.....	..DO..	16,534	7,475
LAKE CHICOT.....	.11	H54062	MIOCENE, 8100 FT.....	..DO..	8,170	1,784
LAKE LONG.....	.09	H42131	MIOCENE.....	..DO..	9,356	369
LAKE MONGOULOIS.....	.25	H54086	ANAHUAC.....	OLIG..	10,709	411
LAKE PALOURE EAST.....	.13	H60063	CAMERINA.....	..DO..	12,829	499
LAKE PELTO.....	.21	H57118	MIOCENE.....	MIOC..	.....	4,709
LAKE RACCOURCI.....	.19	H68090	..DO.....	..DO..	12,404	70
LAKE SALVADOR.....	.13	H42109	..DO.....	..DO..	9,670	4,336
LAKE SAND.....	.05	H68091	OPERCULINOIDES, 8+10.....	..DO..	16,090	29
LAKE VERRET WEST.....	.08	H60060	MIOCENE Q.....	..DO..	7,669	3,844
LAKE WASHINGTON.....	.35	H68172	MIOCENE.....	..DO..	8,000	10,581
LAROSF.....	.13	H60023	MIOCENE, 11400 FT.....	..DO..	11,390	865
LEEVILLE.....	.38	H33037	TERTIARY.....	TERT..	3,664	4,206
LITTLE LAKE.....	.24	H61041	MIOCENE E4-2.....	MIOC..	10,876	1,348
LIVE OAK.....	.02	H68123	MIOCENE, 9200 FT MASS.....	..DO..	9,224	37
LOCKPORT.....	.15	H3025	MIOCENE.....	..DO..	5,109	329
MAIN PASS BLOCK 35.....	.22	H64091	RUCCELLA MANSFIELD.....	..DO..	7,778	3,440
MAIN PASS BLOCK 41.....	.16	H64128	MIOCENE, 9200 RA SU.....	..DO..	9,268	17,904
MAIN PASS BLOCK 6.....	.28	H68096	DISCORRIS (12.4A).....	..DO..	5,932	1,166
MAIN PASS BLOCK 69.....	.16	H50093	MIOCENE, 6350 FT.....	..DO..	6,930	12,285
MOUND POINT.....	.11	H69056	TEXTULARIA L, M-1.....	..DO..	8,500	342
NAPOLEONVILLE.....	.09	H43060	MIOCENE.....	..DO..	9,034	582
NEALE.....	.13	H42197	WILCOX.....	EOCENE	8,356	143
OPELOUSAS.....	.06	H64121	COCKFIELD 2.....	..DO..	10,215	211
PARADIS.....	.12	H42130	PARADIS.....	MIOC..	10,076	1,937
PATTERSON.....	.13	H64037	MIOCENE.....	..DO..	.....	83
PERKINS.....	.21	H63119	FRIO.....	OLIG..	5,367	400
PHOENIX LAKE.....	.12	H54061	BROWN A, FRIO.....	..DO..	7,724	632
PINE PRAIRIE.....	.14	H43077	YEGUA.....	EOCENE	8,098	369
POINTE-A-LA-HACHE.....	.14	H50046	FLWING UL-4.....	MIOC..	10,647	1,023
PORT BARRE.....	.11	H64094	MIOCENE.....	..DO..	6,746	588
POTASH.....	.37	H42114	..DO.....	..DO..	8,700	290
QUARANTINE BAY.....	.12	H42108	..DO.....	..DO..	8,618	6,706
RABBIT ISLAND.....	.09	H69057	TEXTULARIA W, 10,000 FT.....	..DO..	10,480	6,104
RAYNE.....	.02	H64053	HOMESSEKER E.....	..DO..	12,540	12
ROANOKE.....	.09	H42221	HETEROSTEGINA, 5TH.....	OLIG..	7,935	135
ROMERE PASS.....	.30	H53036	MIOCENE.....	MIOC..	10,100	3,608
SATURDAY ISLAND.....	.35	H60017	..DO.....	..DO..	10,350	777
SHIP SHOAL BLOCK 107.....	.12	H68147	MIOCENE, 9,400 FT.....	..DO..	9,690	3,468
SHIP SHOAL BLOCK 113.....	.43	H68138	PLIOCENE.....	PLIO..	4,820	5,066
SHIP SHOAL BLOCK 154.....	.36	H60025	MIOCENE.....	MIOC..	6,322	4,122
SHIP SHOAL BLOCK 176.....	.14	H60088	PLIOCENE, JS.....	PLIO..	.....	2,556
SHIP SHOAL BLOCK 208.....	.36	H70033	PLIOCENE.....	..DO..	9,180	14,204
SORRENTO.....	.21	H33041	TERTIARY.....	TERT..	4,346	168
SOUTH MARSH ISLAND BLOCK 23.....	.11	H68146	MIOCENE, 13,000 FT.....	MIOC..	13,242	278
SOUTH MARSH ISLAND BLOCK 6.....	.13	H70049	MIOCENE HF-1A.....	..DO..	10,066	3,811
SOUTH MARSH ISLAND BLOCK 71.....	.20	H68158	PLIOCENE, P6.....	PLIO..	8,491	6,471
SOUTH PASS BLOCK 24.....	.31	H71058	MIOCENE.....	MIOC..	.....	19,820
SOUTH PASS BLOCK 27.....	.27	H64067	MIOCENE, N4A.....	..DO..	7,818	20,730
SOUTH PASS BLOCK 62.....	.27	H70053	MIOCENE T.....	..DO..	.....	10,255
SOUTH PELTO BLOCK 20.....	.15	H68094	MIOCENE, AE-9.....	..DO..	6,850	2,243
SOUTH TIMBALIER BLOCK 131.....	.20	H64062	MIOCENE, E2.....	..DO..	8,950	2,639
SOUTH TIMBALIER BLOCK 176.....	.19	H68110	MIOCENE, F-2.....	..DO..	10,202	3,033
SOUTHEAST PASS.....	.12	H64055	MIOCENE.....	..DO..	8,270	1,640
ST. GABRIEL.....	.18	H42111	MIOCENE, F.....	..DO..	7,760	430
STELLA.....	.09	H42138	MIOCENE.....	..DO..	7,500	189
SULPHUR MINES.....	.42	H33032	TERTIARY.....	TERT..	3,101	80
SWEET RAY LAKE.....	.14	H64104	MIOCENE, 10400 FT.....	MIOC..	11,704	983
SWEETLAKE.....	.13	H68153	MIOCENE, 20-A.....	..DO..	6,325	1,661

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
LOUISIANA - CONTINUED						
SOUTH - CONTINUED						
(0.00-0.50)						
TEPETATE WEST.....	0.12	R50014	MIOCENE.....	MIOC..	8,300	117
TEPETATE.....	.13	R37203	ORTEGO, FRIO.....	OLIG..	8,280	531
TIMBALIER BAY.....	.33	R59162	MIOCENE.....	MIOC..	8,000	29,403
UNIVERSITY.....	.23	R53041	..DO.....	..DO..	9,420	206
VALENTINE.....	.12	R37246	..DO.....	..DO..	6,920	1,048
VENICE.....	.24	R53034	..DO.....	..DO..	3,547	5,478
VILLE PLATTE.....	.11	R39115	SPARTA, CLAIBORNE.....	EOCENE	9,048	178
VINTON.....	.29	R34073	MIOCENE.....	MIOC..	2,525	2,371
WASHINGTON.....	.13	R62113	MIOCENE H.....	..DO..	7,716	308
WEEKS ISLAND.....	.14	R52036	MIOCENE.....	..DO..	9,250	10,407
WELSH.....	.13	R68151	CAMERINA 2.....	OLIG..	7,778	1,627
WEST BAY.....	.27	R57084	MIOCENE.....	MIOC..	6,400	9,353
WEST CAMERON BLOCK 192.....	.04	R68168	MIOCENE 5.....	..DO..	8,343	100
WEST CAMERON BLOCK 45.....	.04	R61095	PLANULINA.....	..DO..	9,955	195
WEST DELTA BLOCK 105.....	.37	R70052	MIOCENE P-2.....	..DO..	11,338	2,269
WEST DELTA BLOCK 117.....	.27	R69061	MIOCENE D-10.....	..DO..	9,646	3,370
WEST DELTA BLOCK 27.....	.38	R68130	MIOCENE, E-7.....	..DO..	8,570	1,546
WEST DELTA BLOCK 30.....	.33	R61021	..DO.....	..DO..	5,800	25,853
WEST DELTA BLOCK 52.....	.20	R64079	MIOCENE, 7600 FT, 52-1.....	MIOC..	7,634	206
WEST DELTA BLOCK 53.....	.43	R61022	MIOCENE KE.....	..DO..	10,100	967
WEST DELTA BLOCK 83.....	.37	R61023	..DO.....	..DO..	10,100	691
WHITE CASTLE.....	.30	R32372	MIOCENE.....	..DO..	5,165	3,661
WHITE LAKE EAST.....	.06	R61031	MIOCENE R.....	..DO..	6,390	1,856
WHITE LAKE WEST.....	.04	R68163	RIGENERINA FLORIDIANA 3.....	..DO..	8,334	1,012
WOODLAWN.....	.09	R43007	MARGINULINA.....	..DO..	8,036	755
(0.51-1.00)						
EDGERLY.....	.64	R00757	TERTIARY.....	TERT..	3,200	322
EUGENE ISLAND BLOCK 276.....	.53	R69059	MIOCENE.....	MIOC..	.....	9,944
LIRETTE.....	.45	R37018	..DO.....	..DO..	11,615	194
SOUTH TIMBALIER BLOCK 135.....	.66	R68112	MIOCENE, J-3.....	..DO..	11,384	12,305
TIGER SHOAL.....	.99	R64096	MIOCENE.....	..DO..	8,560	747
MICHIGAN						
(0.00-0.50)						
ALBION-PULASKI-SCIPIO TREND.....	.15	R64020	TRENTON + BLACK RIVER...	ORD...	4,170	4,713
BIRCH RUN.....	.25	R36125	BEEBA.....	MISS..	1,525	14
BUCKEYE NORTH.....	.29	R64016	DUNDEE.....	DEV...	3,622	92
CEDAR.....	.30	R43045	..DO.....	..DO..	3,823	10
COLDWATER.....	.30	R57053	..DO.....	..DO..	3,721	77
CRYSTAL.....	.37	R36122	..DO.....	..DO..	3,216	8
EDMORE.....	.11	R36119	TRAVERSE.....	..DO..	3,025	11
HEADQUARTERS.....	.18	R43096	..DO.....	..DO..	3,219	68
KAWKAWLIN.....	.45	R57056	DUNDEE.....	..DO..	2,820	176
MT PLEASANT.....	.13	R36116	..DO.....	..DO..	3,506	93
NORWICH EAST.....	.22	R57054	RICHFIELD.....	..DO..	4,346	256
PORTER.....	.26	R36126	DUNDEE.....	..DO..	3,365	124
PROSPER.....	.43	R43044	..DO.....	..DO..	3,813	11
REYNOLDS.....	.48	R57057	RED CITY, DUNDEE.....	DEV...	3,340	41
ROSE LAKE.....	.10	R44001	TRAVERSE.....	..DO..	3,131	19
WAYLAND.....	.24	R45044	..DO.....	..DO..	1,796	63
(0.51-1.00)						
ADAMS (ADAMS SOUTH).....	.64	R46122	DUNDEE.....	DEV...	2,982	17
DEEP RIVER.....	.57	R63279	..DO.....	..DO..	2,847	70
EDEN.....	.55	R57055	..DO.....	..DO..	2,270	10
PETERS.....	.54	R64021	NIAGARA.....	SIL...	2,611	165
RED CITY.....	.54	R42146	MONROE, DUNDEE.....	DEV...	3,574	499
ROSE CITY.....	.70	R57052	RICHFIELD.....	..DO..	4,090	176
STERLING.....	.71	R64004	RICHFIELD+DETROIT RIVER.....	..DO..	4,098	56
WEST BRANCH.....	.57	R64015	DUNDEE.....	..DO..	2,457	166
(1.01-2.00)						
RICH.....	1.38	R64019	DETROIT RIVER.....	DEV...	2,982	66
MISSISSIPPI						
(0.00-0.50)						
BAY SPRINGS/L COTTON VALLEY.....	.37	R69042	COTTON VALLEY.....	JUR...	14,559	2,375
CRANFIELD/4400 WILCOX.....	.11	R45070	WILCOX.....	EOCENE	5,879	17
CRANFIELD/5200 WILCOX.....	.11	.....	.....	.....	.....	20
CRANFIELD/5750 WILCOX.....	.11	.....	.....	.....	.....	12
DEXTER/LOWER TUSCALOOSA.....	.18	R64084	PITTMAN, TUSCALOOSA.....	CRET..	9,668	243
FAYETTE/L TUSCALOOSA.....	.09	.....	.....	.....	.....	17
KINGSTON/ 4300 WILCOX.....	.15	R54094	HARMON, WILCOX.....	EOCENE	6,587	18
LAGRANGE/BAKER.....	.17	R48087	BAKER, WILCOX.....	..DO..	6,222	74
LAGRANGE/4300 WILCOX.....	.13	.....	.....	.....	.....	215
LAGRANGE/4600 WILCOX.....	.13	.....	.....	.....	.....	146
LITTLE CREEK/L TUSCALOOSA.....	.16	R61036	TUSCALOOSA.....	CRET..	10,700	118
MALLALIEU EAST/L TUSCALOOSA.....	.16	R45069	..DO.....	..DO..	10,523	90
MCCOMB/L TUSCALOOSA.....	.09	R64098	..DO.....	..DO..	10,493	258
PELAHATCHIE/NORPHLET.....	.10	R70018	NORPHLET.....	JUR...	.....	60
RALEIGH/L, CRETACEOUS.....	.43	R61078	HOLSTON, TRINITY.....	CRET..	12,084	1,035
SOSO/11081 RODESSA.....	.43	.....	.....	.....	.....	7
SOSO/11151 RODESSA.....	.43	R61097	RODESSA, GLEN ROSE.....	CRET..	11,405	55
SOSO/11180 RODESSA.....	.43	.....	.....	.....	.....	286
SOSO/11385 RODESSA.....	.47	R61096	RODESSA, GLEN ROSE.....	CRET..	11,352	18

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
MISSISSIPPI - CONTINUED						
(0.00-0.50)						
TALLAHALA CREEK EAST/SMACKOVER A.....	0.26	R70111	SMACKOVER A.....	JUR...	16,794	225
TALLAHALA CREEK EAST/SMACKOVER B.....	.29	R70109	SMACKOVER.....	..DO..	16,879	228
TALLAHALA CREEK/COTTON VALLEY.....	.33	B70031	SMACKOVER+COTTON VALLEY.....	..DO..	15,546	223
TALLAHALA CREEK/MIDDLE SMACKOVER.....	.44	R70017	SMACKOVER.....	..DO..	15,570	253
TALLAHALA CREEK/SMACK. II.....	.28	R70019	SMACKOVER 2.....	..DO..	15,675	384
(0.51-1.00)						
BARBER CREEK/SMACKOVER.....	.67	B70114	SMACKOVER.....	JUR...	.....	31
BROOKHAVEN/L. TUSCALOOSA.....	.86	R45068	TUSCALOOSA.....	CRET..	10,288	1,090
CLARA WEST/SMACKOVER.....	.54	R70115	SMACKOVER.....	JUR...	.....	144
DIAMOND/GLEN ROSE.....	.88	R41035	GLEN ROSE, TRINITY.....	CRET..	9,190	109
PICKENS/EUTAW.....	.72	R45073	EUTAW.....	..DO..	4,836	42
SOSO/11513 RODESSA.....	.57	R41099	RODESSA, GLEN ROSE.....	..DO..	11,691	19
SOSO/11701 BAILEY.....	.89	R41100	BAILEY, RODESSA.....	..DO..	12,041	77
TINSLEY/SELMA-EUTAW-TUSC.....	.78	R43067	WOODRUFF, SELMA.....	..DO..	4,440	1,380
(1.01-2.00)						
BOLTON/E RODESSA.....	1.77	.....	.....	.....	.....	10
BOLTON/HOSSTON.....	1.77	.....	.....	.....	.....	42
BOLTON/W RODESSA.....	1.77	.....	.....	.....	.....	48
BOLTON/W. FAULT SEG. L. RODESSA.....	1.77	.....	.....	.....	.....	29
BOLTON/W. FAULT SEG. RODESSA.....	1.77	B44099	WASHITA+FREDERICKSBURG..	CRET..	8,359	98
BRYAN/RODESSA.....	1.47	R41128	RODESSA, GLEN ROSE.....	..DO..	10,302	241
BRYAN/SLIGO.....	1.28	R41127	SLIGO, TRINITY.....	..DO..	10,760	214
CYPRESS CREEK/SMACKOVER.....	1.70	R72007	SMACKOVER.....	JUR...	12,754	227
FLORA/SELMA GAS ROCK.....	1.32	R43196	GAS ROCK, SELMA.....	CRET..	4,357	385
PACHUTA CREEK/SMACKOVER.....	1.23	R72006	SMACKOVER.....	JUR...	12,900	3,941
SUMMERLAND/LOWER PALUXY.....	1.77	B70047	PALUXY, TRINITY.....	CRET..	11,632	36
SUMMERLAND/LOWER WASHITA-FRFD.....	1.55	R70039	CRETACEOUS.....	..DO..	10,401	268
SUMMERLAND/LWR-LWR WASH-FRFD.....	1.63	B70045	WASHITA+FREDERICKSBURG..	..DO..	10,418	7
SUMMERLAND/UPPER PALUXY.....	1.46	R70046	PALUXY, TRINITY.....	..DO..	10,614	173
(>2.00)						
BAXTERVILLE/L. TUSCALOOSA.....	2.80	R57093	TUSCALOOSA.....	CRET..	8,700	3,657
EUCUTTA EAST/EUTAW.....	3.89	R45066	XMAS, TUSCALOOSA.....	..DO..	5,141	980
EUCUTTA WEST/EUTAW.....	3.89	.....	.....	.....	.....	61
HEIDELBERG CENTRAL SEGMENT/EUTAW.....	3.03	R44056	EUTAW.....	CRET..	4,518	24
HEIDELBERG EAST/EUTAW.....	3.69	R45065	XMAS, TUSCALOOSA.....	..DO..	4,962	1,810
HEIDELBERG EAST/J. TUSCALOOSA.....	3.66	R46018	TUSCALOOSA, UPPER.....	..DO..	.....	354
HEIDELBERG WEST/EUTAW.....	4.19	R45062	XMAS, TUSCALOOSA.....	..DO..	5,138	622
HEIDELBERG WEST/L. CRETACEOUS.....	3.03	.....	.....	.....	.....	320
HEIDELBERG WEST/J. TUSCALOOSA.....	3.66	.....	.....	.....	.....	7
LANGSDALE/EUTAW.....	4.13	R45074	EUTAW.....	CRET..	3,649	71
POOL CREEK/RODESSA.....	2.35	R44039	RODESSA, GLEN ROSE.....	..DO..	10,800	37
POOL CREEK/SLIGO.....	2.74	R44038	SLIGO, TRINITY.....	..DO..	11,200	28
SUMMERLAND/MOORINGSPOORT.....	2.30	R70048	MOORINGSPOORT, GLEN ROSE.....	..DO..	12,212	11
YELLOW CREEK EAST/EUTAW.....	3.98	B54034	STANLEY, EUTAW.....	..DO..	5,144	119
YELLOW CREEK NORTH/EUTAW.....	3.98	.....	.....	.....	.....	61
YELLOW CREEK WEST/EUTAW.....	3.98	.....	.....	.....	.....	364
YELLOW CREEK WEST/LOWER TUSC.....	3.05	R72032	TUSCALOOSA.....	CRET..	.....	10
MONTANA						
(0.00-0.50)						
RELL CREEK.....	.17	R48018	.....	.....	.....	5,884
BENRIJ EAST.....	.11	L43065	NISKU.....	DEV..	7,522	150
RRORSON SOUTH RED RIVER.....	.07	L43119	RED RIVER.....	ORD..	11,630	111
BROPSON/MADISON.....	.07	L43119	..DO..	..DO..	11,630	220
CABIN CREEK/SILURO-ORD.....	.47	L48177	SILURO + ORDOVICIAN.....	SIL...	8,219	3,498
CAT CREEK/KOOTENAI.....	.27	R50292	.....	.....	.....	196
CUPTON.....	.23	L60125	RED RIVER.....	ORD..	9,308	147
DEER CREEK.....	.12	L53054	..DO..	..DO..	9,957	16
FRED & GEORGE CREEK/SUNBURST.....	.50	L44169	SUNBURST.....	CRET..	2,624	344
GAS CITY.....	.28	L48179	RED RIVER.....	ORD..	9,145	286
GLENDALE.....	.19	L52244	STONY MT. + RED RIVER.....	..DO..	8,740	326
GRABEN COULEE.....	.43	L44177	CUT BANK.....	CRET..	2,693	46
KEG COULEE.....	.25	L43094	TYLER, C.....	PENN..	4,530	150
LOOKOUT BUTTE/LOGGEPOL.....	.42	L43095	RED RIVER.....	ORD..	8,721	809
MELSTONE.....	.40	L50294	AMSDEN.....	PENN..	4,199	21
MONARCH.....	.50	L59191	RED RIVER.....	ORD..	8,961	204
OUTLOOK/SILURO-DEVONIAN.....	.38	L59188	SILURO-DEVONIAN.....	DEV..	9,056	245
POPLAR EAST.....	.33	L52247	CHARLES.....	MISC..	5,648	559
POPLAR NORTHWEST.....	.35	L52248	..DO..	..DO..	6,176	16
RED STONE.....	.26	L43066	WINNIPEGOSTS.....	DEV..	9,390	28
RICHEY SOUTHWEST.....	.22	L48181	DEVONIAN-SILURIAN.....	..DO..	9,090	36
SAND CREEK.....	.12	L40116	INTERLAKE.....	SIL...	8,988	66
SPRING LAKE.....	.07	L43119	RED RIVER.....	ORD..	11,630	29
STENSVAD.....	.35	L43117	TYLER, B.....	PENN..	5,356	427
TULE CREEK EAST.....	.14	L41189	NISKU.....	DEV..	7,636	102
TULE CREEK.....	.14	L41189	..DO..	..DO..	7,636	319
WELDON.....	.41	L45096	KIRREY.....	MISC..	5,827	174
(0.51-1.00)						
BEARS DEN.....	.77	L44171	SWIFT.....	JUR...	2,444	12
BIG WALL/AMSDEN.....	.77	L50300	.....	.....	.....	16
DWYER.....	.64	L41190	MADISON.....	MISC..	7,769	279
FLAT COULEE.....	.81	L50289	SUNBURST.....	CRET..	2,800	92
FLAT LAKE.....	.68	L45101	PATCLIFFE.....	MISC..	6,540	629
GOOSE LAKE.....	.47	L45097	..DO..	..DO..	6,935	439

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA ¹ / SULFUR CONTENT CATEGORY, AND FIELD ²	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
MONTANA - CONTINUED						
(0.51-1.00)						
LITTLE BEAVER EAST.....	0.57	L60129	RED RIVER.....	ORD...	8,146	169
LITTLE BEAVER.....	.57	L53052	ORDOVICIAN.....	..DN..	8,313	415
PENNEL.....	.52	L58174	SILURO + ORDOVICIAN.....	SIL...	8,286	1,683
PINE.....	.54	L58178	SILURIAN.....	..DN..	8,456	3,029
RAGGED POINT.....	.51	L50293	KIRBEY.....	MISS..	4,433	75
REAGAN.....	.72	L50298	MADISON.....	..DN..	3,805	224
REPEAT.....	.87	L60140	RED RIVER.....	ORD...	8,605	18
RICHEY.....	.53	L52743	CHARLES.....	MISS..	7,183	7
SUMATRA.....	.65	L50283	AMSDEN.....	PENN..	4,385	799
WHITLASH.....	.77	L50825	.....	.....	.....	135
WOLF SPRINGS.....	.93	L60121	AMSDEN.....	PENN..	6,110	53
WOODROW.....	.90	L58399	RED RIVER.....	ORD...	9,998	22
(1.01-2.00)						
BORDEP.....	1.24	L42004	COSMOS + VANALTA.....	CRET..	2,400	9
BRADLEY.....	1.42	L64179	MADISON.....	MISS..	3,273	7
CUTBANK/KOOTENAI.....	1.01	L76011	CUT BANK.....	CRET..	2,935	5,561
ELK BASIN/FRONTIER.....	1.89	L50544	.....	.....	.....	1,790
KEVIN SUNBURST.....	1.17	L50295	.....	.....	.....	293
MOSSER.....	1.39	L60126	DAKOTA.....	CRET..	880	5
RED CREEK.....	1.82	L64176	CUT BANK + MADISON.....	..DN..	2,689	95
(>2.00)						
BOWES.....	3.75	L50284	SAWTOOTH, (ELLIS).....	JUR...	3,360	138
ELK BASIN NW/MADISON.....	2.18	L43036	TENSLEEP.....	PENN..	5,444	88
FRANNIE.....	2.60	L51142	PHOSPHORIA.....	PENN..	3,446	27
LODGE GRASS.....	2.50	L65038	TENSLEEP.....	PENN..	6,391	11
PONDERA.....	2.03	L41003	MADISON.....	MISS..	.....	285
SOAP CREEK.....	3.72	L60119	TENSLEEP.....	PENN..	1,646	57
NEBRASKA						
(0.00-0.50)						
AXIAL.....	.26	L56184	J.....	CRET..	5,776	100
BERTRAMSON.....	.11	L56159	.....	.....	.....	103
BROWNSON EAST.....	.08	L52034	D.....	CRET..	4,770	11
CEDAR VALLEY.....	.26	L56173	J.....	..DN..	6,012	324
CIZEK.....	.24	L56187	..DO.....	..DN..	5,682	42
COOK.....	.21	L52125	D.....	..DN..	4,358	32
DALTON.....	.23	L51318	J.....	..DN..	4,685	9
DAWSON.....	.33	L42035	VIOLA.....	ORD...	6,363	7
DIETZ.....	.14	L55371	J.....	CRET..	5,994	12
DIX SOUTH.....	.19	L56181	..DO.....	..DN..	4,589	69
DORAN FARMS.....	.11	L56194	D.....	..DN..	4,796	46
DORMAN.....	.16	L52074	J.....	..DN..	5,856	7
DOWNER.....	.15	L44156	D.....	..DN..	6,304	137
ENDERS.....	.12	L52027	H.....	..DN..	2,217	25
FALLS CITY.....	.37	L40087	HUNTON.....	DEV..	5,738	54
FERNOUIST.....	.25	L56185	J.....	CRET..	6,040	27
GOODWIN.....	.20	L55380	..DO.....	..DN..	4,840	79
GRAFF.....	.24	L51316	..DO.....	..DN..	4,490	23
GURLEY.....	.25	L50175	..DO.....	..DN..	6,205	11
HAFEMAN.....	.21	L56170	..DO.....	..DN..	5,880	71
HARRISBURG.....	.15	L51314	..DO.....	..DN..	5,212	29
HENRY.....	.19	L56196	..DO.....	..DN..	6,008	84
HOUTBY.....	.16	L56180	..DO.....	..DN..	6,012	6
HRUSKA.....	.26	L56173	..DO.....	..DN..	4,885	53
HUNTSMAN.....	.18	L50268	..DO.....	..DN..	5,836	70
JACINTO.....	.25	L56174	..DO.....	..DN..	4,498	103
JOHNSON.....	.17	L51321	D.....	..DN..	5,332	13
JUELF-S-GAYLORD.....	.23	L56178	J.....	..DN..	5,360	25
KENMAC.....	.23	L56188	..DO.....	..DN..	5,976	7
KENTON.....	.18	L56179	..DO.....	..DN..	6,506	48
KIMBALL.....	.15	L51319	..DO.....	..DN..	6,141	47
LONG.....	.09	L55376	D.....	..DN..	5,990	15
MADDEN.....	.26	L56182	J.....	..DN..	4,490	7
MCCLERNON.....	.15	L50270	D.....	..DN..	5,217	94
MINATARE.....	.19	L56197	J.....	..DO.....	5,380	36
OLSEN.....	.04	L52028	..DO.....	..DN..	5,904	13
PHILLIPS.....	.13	L55370	D.....	..DN..	5,990	87
POTTER SW.....	.26	L56182	J.....	..DO.....	4,418	35
PREBLE.....	.17	L52000	D.....	..DN..	3,816	98
REIHER.....	.47	L59367	LANSING-KANSAS CITY.....	PENN..	4,840	60
REIHERS.....	.24	L51316	D.....	..DN..	4,798	29
RUOOLPH.....	.07	L56195	..DO.....	..DN..	4,721	13
SIDNEY NORTH.....	.15	L52031	J.....	..DN..	.....	191
SINGLETON.....	.14	L64157	..DO.....	..DN..	7,326	9
SISSON.....	.09	L52035	..DO.....	..DN..	6,213	161
SLOSS-STATE.....	.12	L56171	..DO.....	..DN..	6,284	30
SWEARINGEN.....	.22	L55382	..DO.....	..DN..	6,003	9
VRTATKO.....	.08	L55381	D.....	..DN..	4,734	56
WAITMAN.....	.16	L63071	J.....	..DN..	.....	71
WILLSON RANCH.....	.14	L64157	..DO.....	..DN..	5,921	15
YOUNG.....	.26	L56176	..DO.....	..DN..	5,662	26
ZOLLER.....	.22	L56186	..DO.....	..DN..	.....	.....
(0.51-1.00)						
ACKMAN.....	.86	L59368	.....	.....	.....	243
BARGER.....	.78	L59370	LANSING-KANSAS CITY.....	PENN..	3,854	5
SILVER CREEK.....	.86	L59368	LANSING.....	..DN..	3,273	218

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGF	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
NEBRASKA - CONTINUED						
(0.51-1.00)						
SLEEPY HOLLOW NORTHWEST.....	0.86	L59368	LANSING.....	PENN..	3,273	83
SLEEPY HOLLOW.....	.86	L59368	..DO.....	..DO..	3,273	2,949
NEVADA						
(1.01-2.00)						
EAGLE SPRINGS.....	1.64	R66023	SHEEP PASS.....	EOCFNE	5,780	113
NEW MEXICO						
SOUTHEAST						
(0.00-0.50)						
ALLISON PENN.....	.11	R41079	BOUGH C.....	PENN..	9,567	313
BAGLEY NORTH PENN.....	.14	B54079	PENNSYLVANIAN.....	..DO..	8,640	4,906
BRUNSON/ELLENBURGER.....	.30	R46093	ELLENBURGER.....	ORD..	7,425	59
CAPROCK/DEVONIAN, EAST.....	.36	B54088	DEVONIAN.....	DEV..	11,184	231
CAPROCK/WOLFCAMP, EAST.....	.17	B54089	WOLFCAMP.....	PERM..	8,384	6
CEADAP LAKE ABO.....	.19	B65089	ABO.....	..DO..	7,122	5
CORBIN ABO.....	.25	R45074	..DO.....	..DO..	8,707	538
CORBIN/QUEEN.....	.48	R41081	PERMIAN.....	..DO..	4,706	15
CORRAL CANYON DELAWARE.....	.12	R66103	DELAWARE.....	..DO..	3,668	14
CROSSROADS/SILURO-DEVONIAN.....	.35	B54037	DEVONIAN.....	DEV..	12,000	1,696
DENTON WOLFCAMP.....	.35	B54045	DENTON.....	PERM..	9,350	746
DENTON/DEVONIAN.....	.21	B54042	..DO.....	..DO..	11,715	1,445
DOLLARHIDE DEVONIAN.....	.48	R61105	DEVONIAN.....	DEV..	7,498	278
DOLLARHIDE FUSSELMAN.....	.24	R61106	FUSSELMAN.....	SIL..	8,520	119
DOLLARHIDE/ELLENBURGER.....	.15	R61103	ELLENBURGER.....	ORD..	10,090	35
DRINKARD.....	.31	B62128	DRINKARD, YESO.....	PERM..	6,618	934
EMPIRE ABO.....	.28	R62118	ABO REEF.....	..DO..	6,276	9,279
GLADIOLA WOLFCAMP.....	.10	B54032	WOLFCAMP.....	..DO..	9,040	29
GLADIOLA/DEVONIAN.....	.24	B54033	DEVONIAN.....	DEV..	11,900	281
HARE/SIMPSON.....	.23	B54080	MCKEE, SIMPSON.....	ORD..	7,780	88
JACKSON ABO.....	.23	B65102	ABO.....	PERM..	6,890	23
JUSTIS FUSSELMAN.....	.41	R66043	FUSSELMAN.....	SIL..	6,879	359
JUSTIS MONTOYA.....	.42	R66044	MONTOYA.....	ORD..	6,854	91
JUSTIS TURB-DRINKARD.....	.48	R66041	TURB-DRINKARD.....	PERM..	5,930	186
JUSTIS/ELLENBURGER.....	.22	R66037	ELLENBURGER.....	ORD..	7,922	211
JUSTIS/FUSSELMAN, NORTH.....	.41	R66043	.....	.....	.....	115
KEMNITZ WOLFCAMP LOWER.....	.12	R61067	WOLFCAMP.....	PERM..	10,674	207
LEA DEVONIAN.....	.31	R66034	DEVONIAN.....	DEV..	14,300	181
LEONARD/QUEEN, SOUTH.....	.34	B54078	DEVONIAN + SILURIAN.....	..DO..	10,762	33
LOCO HILLS ABO.....	.26	R65100	ABO.....	PERM..	6,750	11
LOVINGTON ABO.....	.36	B54055	..DO.....	..DO..	8,380	711
LUSK STRAWN.....	.03	B70004	STRAWN.....	PENN..	11,430	126
MASON/DELAWARE, NORTH.....	.13	R65097	DELAWARE.....	PERM..	.....	54
MOORE DEVONIAN.....	.33	B54087	DEVONIAN.....	DEV..	10,385	865
PADUCA DELAWARE.....	.10	R65094	DELAWARE.....	PERM..	4,680	738
SAUNDERS PERMO-PENN.....	.11	B54036	WOLFCAMP.....	..DO..	9,812	252
SCHARR/BONE SPRINGS.....	.14	R65052	BONE SPRING.....	..DO..	10,152	365
SHUGART/YATES 7 RVS, G. GRAYBURG.....	.41	R41092	PERMIAN.....	..DO..	3,166	886
TEAGUE/SIMPSON.....	.09	R66080	MCKEE, SIMPSON.....	ORD..	9,308	69
TOWNSEND WOLFCAMP.....	.12	B57096	WOLFCAMP.....	PERM..	10,330	208
VACUUM ABO REEF.....	.32	R66074	ABO.....	..DO..	8,848	5,370
VACUUM BLINEBRY.....	.31	B65056	BLINEBRY.....	..DO..	6,587	126
VACUUM GLORIETA.....	.49	R65057	PADDOCK, GLORIETA.....	..DO..	6,003	3,625
VACUUM WOLFCAMP.....	.27	R66085	ABO.....	..DO..	8,882	237
VACUUM/ABO, NORTH.....	.10	B65053	WOLFCAMP.....	..DO..	9,122	1,479
VACUUM/LOWER WOLFCAMP, NORTH.....	.07	R65055	..DO.....	..DO..	9,975	160
WARREN MCKEE.....	.14	B54041	MCKEE, SIMPSON.....	ORD..	8,943	202
(0.51-1.00)						
ARTESIA/QUEEN GRAYBURG SA.....	.87	B25421	PERMIAN.....	PERM..	1,995	573
GRAYBURG JACKSON QUEEN SA.....	.86	R38143	..DO.....	..DO..	3,400	2,429
HALFWAY/YATES.....	.57	R41078	..DO.....	..DO..	2,642	12
INBE/PERMO PENN.....	.51	R64072	BLINEBRY.....	..DO..	5,392	439
JUSTIS BLINEBRY.....	.51	R64072	..DO.....	..DO..	5,392	1,468
LYNCH/SEVEN RIVERS YATES.....	.87	R41086	PERMIAN.....	..DO..	3,774	154
MALJAMAR PADDOCK.....	.55	R62115	PADDOCK, GLORIETA.....	..DO..	5,366	20
MALJAMAR/GRAYBURG SA.....	.85	R31180	PERMIAN.....	..DO..	4,000	6,268
MIDWAY ABO.....	.81	R65075	ABO.....	..DO..	8,902	87
PADDOCK.....	.96	R47036	PADDOCK, GLORIETA.....	..DO..	5,055	483
PENROSE SKELLY/GRAYBURG.....	.93	R37173	PERMIAN.....	..DO..	3,545	367
RED LAKE/QUEEN GRAYBURG SA.....	.82	R39257	..DO.....	..DO..	1,935	152
RHODES/YATES.....	.94	R41267	..DO.....	..DO..	3,280	177
SQUARE LAKE/GRAYBURG SAN ANDRES.....	.74	R43094	LOCO HILLS, GRAYBURG.....	..DO..	3,000	843
VACUUM GRAYBURG-SAN ANDRES.....	.95	B57091	SAN ANDRES.....	..DO..	4,580	5,304
(1.01-2.00)						
ARROWHEAD GRAYBURG.....	1.30	B41084	PERMIAN.....	PERM..	3,785	233
CAPROCK QUEEN.....	1.07	.....	.....	.....	.....	655
CATO SAN ANDRES.....	1.37	B57126	GRAYBURG.....	PERM..	.....	1,088
CHAVEROO SAN ANDRES.....	1.37	B57126	..DO.....	..DO..	.....	1,046
DOLLARHIDE QUEEN.....	1.09	R61107	QUEEN.....	..DO..	3,667	123
EUMONT/YATES SEVEN RIVERS.....	1.22	R61086	YATES.....	..DO..	3,882	1,119
EUNICE-MONUMENT (G-SA).....	1.42	B57126	.....	.....	.....	4,598
EUNICE/SEVEN RIVERS QUEEN, SOUTH.....	1.36	R41271	PERMIAN.....	PERM..	3,860	211
HIGH LONGHORN/QUEEN.....	1.24	R41094	..DO.....	..DO..	1,810	73
HOBBS (G-SA).....	1.41	R42121	GRAYBURG + SAN ANDRES.....	..DO..	3,981	4,761
JALMAT/YATES SEVEN RIVERS.....	1.22	B61086	YATES.....	..DO..	3,882	667
LANGITE MATTIX/SEVEN RIVERS.....	1.65	R57089	QUEEN.....	..DO..	3,325	2,992

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
NEW MEXICO SOUTHEAST - CONTINUED - CONTINUED (1.01-2.00)						
LOCO HILLS/GRAYBURG SAN ANDRES.....	1.02	841393	LOCO, GRAYBURG.....	PERM..	2,670	1,632
LOVINGTON PADDOCK.....	1.20	854054	PADDOCK, GLORIETA.....	..DO..	6,072	323
LOVINGTON/SAN ANDRES.....	1.64	854053	SAN ANDRES.....	..DO..	4,635	244
LOVINGTON/SAN ANDRES, WEST.....	1.64	854045	DENTON.....	..DO..	9,350	256
PEARL QUEEN.....	1.35	840012	PERMIAN.....	..DO..	3,362	832
RUSSELL/YATES.....	1.95	845027	YATES.....	..DO..	903	29
SAN SIMON/YATES, NORTH.....	1.42	844038	..DO..	..DO..	3,930	8
SKAGGS/GRAYBURG.....	1.35	841083	PERMIAN.....	..DO..	3,877	226
WILSON/YATES SEVEN RIVERS.....	1.56	841085	..DO..	..DO..	3,822	47
(>2.00)						
BARBER/YATES.....	2.12	841080	PERMIAN.....	PERM..	1,491	37
NORTHWEST (0.00-0.50)						
BISTI L GALLUP.....	.18	L56066	GALLUP.....	CRET..	4,838	306
BLANCO/TOCITO, SOUTH.....	.10	L97006	TOCITO, (MANCOS).....	..DO..	6,683	10
BOULDER MANCOS.....	.10	L67084	GALLUP.....	..DO..	3,918	46
CHA CHA GALLUP.....	.12	864105	..DO..	..DO..	5,322	214
DEVILS FORK GALLUP.....	.07	L67085	LOWER GALLUP.....	..DO..	5,514	63
ESCRITO GALLUP.....	.11	L67086	GALLUP.....	..DO..	5,972	78
HOGBACK DAKOTA.....	.05	L00075	.....	.....	.....	197
HORSESHOE/GALLUP.....	.11	L41258	GALLUP.....	CRET..	1,138	820
HOSPAN GALLUP.....	.21	L57004	HOSPAN, (MESAVEDE).....	..DO..	1,765	253
MANY ROCKS GALLUP.....	.07	L67097	GALLUP.....	..DO..	1,726	150
PUERTO CHIQUITO MANCOS EAST.....	.12	L67083	MANCOS-GALLUP.....	..DO..	1,245	183
PUERTO CHIQUITO MANCOS WEST.....	.12	L67083	..DO..	..DO..	1,245	778
RATTLESNAKE DAKOTA.....	.03	L53321	DAKOTA, 3RD.....	..DO..	731	6
SHIPROCK GALLUP.....	.07	L67093	GALLUP.....	..DO..	125	18
SIMPSON GALLUP.....	.06	L67087	LOWER GALLUP.....	..DO..	5,788	11
TABLE MESA DAKOTA.....	.09	L49073	DAKOTA.....	..DO..	1,335	7
TOCITO DOME/PENNSYLVANIAN D.....	.15	L67089	PARADOX.....	PENN..	6,275	705
TOTAM GALLUP.....	.06	L67094	GALLUP.....	CRET..	5,592	52
VERDE GALLUP.....	.12	L57016	GALLUP, (MANCOS).....	..DO..	2,085	38
WATERFLOW/GALLUP, SOUTH.....	.07	L67095	GALLUP.....	..DO..	4,111	9
NEW YORK (0.00-0.50)						
ALLEGHANY.....	.12	857100	RICHBURG.....	DEV..	1,228	390
CATTARAUGUS.....	.11	858016	.....	.....	.....	624
NORTH DAKOTA (0.00-0.50)						
ANTELOPE DEVONIAN.....	.08	L41161	DUPEPOW.....	DEV..	10,920	420
ANTELOPE MADISON.....	.46	L58136	MADISON.....	MISS..	9,097	449
ANTELOPE SANISH.....	.05	L98135	SANISH.....	..DO..	10,352	147
ANTELOPE SILURIAN.....	.06	L61164	INTERLAKE.....	SIL..	11,727	190
BEAVER LODGE DEVONIAN.....	.14	L54201	THREE FORKS + JEFFERSON.....	DEV..	10,390	1,516
BEAVER LODGE MADISON.....	.24	L52239	MADISON.....	MISS..	8,520	1,015
BEAVER LODGE ORDOVICIAN.....	.16	L65124	RED RIVER.....	ORD..	13,164	255
BEAVER LODGE SILURIAN.....	.09	L51163	INTERLAKE.....	SIL..	11,630	385
CAMEL BUTTE DEVONIAN.....	.08	L65125	DUPEPOW.....	DEV..	11,358	40
CAMEL BUTTE MADISON.....	.26	L61160	MADISON.....	MISS..	9,386	8
CAPA MADISON.....	.24	L58296	..DO..	..DO..	8,188	160
CHARLSON DEVONIAN.....	.02	L64188	DUPEPOW.....	DEV..	10,390	177
CHARLSON MADISON.....	.22	L53061	MADISON.....	MISS..	8,998	638
CLEAR CREEK MADISON.....	.18	L41159	..DO..	..DO..	9,176	462
CROFF DEVONIAN.....	.03	L64183	DUPEPOW.....	DEV..	11,652	28
DELTA MADISON.....	.24	L61181	NESSON, (MADISON).....	MISS..	8,322	18
DICKINSON HEATH.....	.42	L59192	HEATH.....	..DO..	7,786	736
DICKINSON WEST HEATH.....	.42	L59192	..DO..	..DO..	7,786	433
DIMMICK LAKE MADISON.....	.23	L58302	MADISON.....	..DO..	9,260	47
FLAXTON MADISON.....	.44	L58279	..DO..	..DO..	5,723	27
FRYBURG HEATH.....	.27	L55417	HEATH.....	..DO..	8,271	556
FRYBURG MADISON.....	.46	L54042	MADISON.....	..DO..	9,434	414
HAAS NORTH MADISON.....	.23	L61178	KIRREY.....	..DO..	3,929	25
HAWKEYE/MADISON.....	.46	L58136	MADISON.....	..DO..	9,097	559
HOFFLUND MADISON.....	.24	L53060	..DO..	..DO..	8,674	22
KEENE MADISON.....	.20	L53059	..DO..	..DO..	9,066	217
LANDA MADISON.....	.49	L60107	MISSION CANYON.....	..DO..	3,170	99
LOST BRIDGE.....	.10	L61158	DUPEPOW.....	DEV..	11,538	15
MCGREGOR MADISON.....	.18	L58292	MISSION CANYON.....	MISS..	8,156	64
MCGREGOR NW DUPEPOW.....	.07	L63088	DUPEPOW.....	DEV..	9,976	56
MEDORA HEATH.....	.26	L65099	HEATH.....	MISS..	7,797	257
MEDORA MADISON.....	.34	L65100	MADISON.....	..DO..	9,033	294
PERSHING MADISON.....	.29	L68304	..DO..	..DO..	9,506	59
ROUGH RIDER MADISON.....	.39	L61157	MISSION CANYON.....	..DO..	9,399	29
TIOGA MADISON.....	.31	L52241	MADISON.....	..DO..	8,258	967
TIOGA NORTH MADISON.....	.25	L61175	NESSON, (MADISON).....	..DO..	7,891	517
TIOGA/DEVONIAN.....	.14	L54201	THREE FORKS + JEFFERSON.....	DEV..	10,390	275
TIOGA/ORDOVICIAN.....	.07	L69276	.....	.....	.....	260
TIOGA/SILURIAN.....	.12	L57105	SILURIAN.....	SIL..	11,441	200
ZENITH/HEATH.....	.26	L58297	HEATH.....	MISS..	7,968	467

SEE FOOTNOTES AT END OF TABLE.

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WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
NORTH DAKOTA - CONTINUED						
(0.51-1.00)						
ANTLER CREEK SOUTH MADISON.....	0.71	L65119	MIDALE.....	MISS..	3,758	21
BAUKOL-NOONAN MADISON.....	.66	L58289	MISSION CANYON + NESSON..	..DO..	6,739	21
BEAR DEN MADISON.....	.59	L58301	MADISON.....	..DO..	9,530	29
BLACK SLOUGH MADISON.....	.65	L61162	..DO.....	..DO..	6,743	191
BLUE BUTTES MADISON.....	.52	L58139	..DO.....	..DO..	9,159	677
CEDAR CREEK ORDOVICIAN.....	.55	L61173	RED RIVER.....	ORD..	8,150	464
COLUMBUS MADISON.....	.75	L56045	MISSION CANYON.....	MISS..	6,220	6
FOOTHILLS MADISON.....	.84	L59189	MIDALE + NESSON.....	..DO..	6,820	123
FOOTHILLS NORTHEAST MADISON.....	.63	L61166	..DO.....	..DO..	6,520	287
GRENORA MADISON.....	.51	L64186	MADISON.....	..DO..	7,708	192
KUROKI MADISON.....	.62	L58290	CHARLES + C-2C.....	..DO..	3,370	11
LANDA NE MADISON.....	.82	L58291	MISSION CANYON.....	..DO..	3,074	34
LIGNITE MADISON.....	.51	R58156	MIDALE, MADISON.....	..DO..	6,074	31
NEUBURG SPEARFISH-CHARLES.....	.77	L58138	SPEARFISH.....	TRIA..	3,343	1,223
NOONAN MADISON.....	.59	L58288	NESSON, (MADISON).....	MISS..	7,260	24
PORTAL MADISON.....	.54	L58278	MADISON.....	..DO..	5,881	68
RENNIE LAKE MADISON.....	.54	L61163	NESSON.....	..DO..	6,349	59
RIVAL MADISON.....	.60	L58281	NESSON, (MADISON).....	..DO..	6,076	506
RUSSELL SPEARFISH.....	.70	L65116	SPEARFISH.....	TRIA..	3,397	17
SHORT CREEK MADISON.....	.56	L58280	MADISON.....	MISS..	5,900	5
STARBUCK MADISON.....	.54	L61179	..DO.....	..DO..	3,300	21
STARBUCK SOUTH MADISON.....	.66	L61180	CHARLES.....	..DO..	3,252	11
TIOGA EAST MADISON.....	.80	L53058	MADISON.....	..DO..	8,364	15
TIOGA WEST MADISON.....	.51	L58137	..DO.....	..DO..	8,264	9
WESTHOPE NORTH MADISON.....	.43	L53057	..DO.....	..DO..	3,268	48
WESTHOPE S SPEARFISH-CHARLES.....	.71	L58285	SPEARFISH + CHARLES.....	TRIA..	3,401	365
WHITE EARTH MADISON.....	.74	L58145	MADISON.....	MISS..	8,386	53
WOBURN MADISON.....	.89	L58287	..DO.....	..DO..	5,856	48
(1.01-2.00)						
ELMORE MADISON.....	1.49	L66007	FRORISHER-ALTOA.....	MISS..	3,990	66
LONE TREE/MADISON.....	2.00	L57106	MISSION CANYON.....	..DO..	6,734	239
ROCKY RIDGE HEATH.....	1.14	L58293	HEATH.....	..DO..	8,082	289
SOUPIS NORTH MADISON.....	1.01	L55302	MISSION CANYON.....	..DO..	2,980	38
(>2.00)						
CHOLA MADISON.....	2.06	L65117	SHERWOOD, (MADISON).....	MISS..	4,893	58
GLENBURN MADISON.....	2.79	L59185	MISSION CANYON.....	..DO..	4,513	545
HAAS MADISON.....	2.29	L58305	..DO.....	..DO..	4,034	180
MOHALL MADISON.....	2.53	L65120	..DO.....	..DO..	4,412	155
MOUSE RIVER PARK MADISON.....	2.29	L65114	SHERWOOD, (MADISON).....	..DO..	4,928	152
PRAIT MADISON.....	2.78	L61174	MISSION CANYON.....	..DO..	4,202	17
SHERWOOD MADISON.....	2.09	L59186	..DO.....	..DO..	4,178	673
TOLLEY MADISON.....	2.08	L65115	SHERWOOD, (MADISON).....	..DO..	5,215	31
WILFY MADISON.....	2.28	L58294	MISSION CANYON.....	..DO..	4,112	379
OKLAHOMA						
(0.00-0.50)						
ALLEN DISTRICT.....	.27	R42096	CROWWELL.....	PENN..	2,608	2,899
ALLUWE.....	.26	R55080	.....	.....	.....	91
ALMEDA.....	.18	R38036	BARTLESVILLE.....	PENN..	1,400	21
ANTIOCH DISTRICT EAST.....	.17	R50143	HUNTON.....	DEV..	5,750	183
APACHE.....	.38	R41440	BROWIE, SIMPSON.....	ORD..	3,305	3,274
ARDMORE SOUTHWEST.....	.29	R57049	TULP CREEK, SIMPSON.....	..DO..	1,260	51
ASHER WEST.....	.09	R31319	VIOLA.....	..DO..	3,471	12
ATLANTIC.....	.17	R38033	BURGESS.....	PENN..	2,460	605
AVANT WEST.....	.15	R38353	..DO.....	..DO..	1,894	181
AVANT.....	.19	R38359	BARTLESVILLE.....	..DO..	1,475	184
BALD HILL.....	.15	R00741	PENNSYLVANIAN.....	..DO..	750	250
BARKER.....	.14	R39344	ARBuckle.....	ORD..	2,894	175
BARNSDALL SOUTH.....	.20	R38340	BARTLESVILLE.....	PENN..	1,828	17
BARNSDALL WEST.....	.17	R38341	..DO.....	..DO..	1,750	41
BARNSDALL.....	.19	R00625	PENNSYLVANIAN.....	..DO..	.....	40
BARTLESVILLE.....	.18	R43140	BARTLESVILLE.....	..DO..	1,540	22
BARTLESVILLE-DEWEY.....	.26	R57030	PERU.....	..DO..	600	610
BEGGS DISTRICT.....	.15	R00735	.....	.....	.....	34
RIG BEND.....	.12	R44081	LAYTON + BURRANK.....	PENN..	2,852	68
BILLINGS.....	.16	R00591	PENNSYLVANIAN.....	..DO..	.....	35
BIRCH CREEK.....	.10	R39382	CLEVELAND.....	..DO..	1,399	39
BIRD CREEK.....	.29	R68082	BARTLESVILLE + TUCKER.....	..DO..	1,100	168
BLACK DOG WEST.....	.19	R45046	BURGESS.....	..DO..	2,532	27
BLACKWELL.....	.24	R00615	.....	.....	.....	176
BOSTON NORTH.....	.15	R43187	ARBuckle.....	ORD..	2,899	15
BOWLEGS.....	.29	R39342	..DO.....	..DO..	2,660	26
BOYNTON.....	.15	R46035	WILCOX, SIMPSON.....	..DO..	4,108	2,175
BRANSTETTER.....	.22	R00742	MISSISSIPPIAN.....	MISS..	.....	61
BRISTOW.....	.25	R44083	ARBuckle.....	ORD..	2,044	7
BRITTON.....	.15	R00732	PENNSYLVANIAN.....	PENN..	3,150	116
BROKEN ARROW.....	.19	R38110	ORDOVICIAN.....	ORD..	6,625	35
BULLDOG.....	.16	R00752	.....	.....	.....	15
BURRANK.....	.26	R41107	BARTLESVILLE.....	PENN..	2,265	21
CADDO.....	.09	R58015	LAYTON+BURRANK+GRANITE.....	..DO..	2,700	5,143
CAMRICK DISTRICT.....	.06	R42235	BROWIE, SIMPSON.....	ORD..	5,412	32
CANARY.....	.32	R44051	MORROW.....	PENN..	7,434	975
CANYON CREEK.....	.19	R00580	.....	.....	.....	143
CARR CITY.....	.28	R39310	ARBuckle.....	ORD..	2,495	34
CEMENT.....	.23	R24404	WILCOX, SIMPSON.....	..DO..	.....	127
CHANDLER.....	.21	R41443	ROWE, HOXBAR.....	PENN..	3,364	2,300
CHELSEA.....	.27	R40237	WILCOX, SIMPSON.....	ORD..	5,088	309
		R55079	.....	.....	.....	222

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
OKLAHOMA - CONTINUED						
(0.00-0.50)						
CHEROKITA TREND.....	0.34	H49077	CHEROKEE.....	PENN..	5,002	468
CLEVELAND.....	.26	H00623	.....	.....	.....	206
COON CREEK.....	.36	H44135	WILCOX, SIMPSON.....	ORD..	.....	13
COUNTRY CLUB.....	.18	H38343	ARHUCKLE.....	..DO..	2,056	61
CRESCENT-LOVELL.....	.12	H39331	LAYTON.....	PENN..	4,886	141
CROMWELL EAST.....	.10	H42154	CROMWELL.....	..DO..	3,374	38
CROMWELL.....	.14	H24486	WILCOX, SIMPSON.....	ORD..	3,457	286
CUMBERLAND.....	.66	H40088	SIMPSON.....	..DO..	4,857	724
CUSHING TOWNSITE.....	.29	H28494	HARTLESVILLE * TUCKER..	PENN..	.....	27
CUSHING.....	.26	H55098	.....	..DO..	2,580	4,093
DALTON.....	.18	H44090	SKINNER.....	..DO..	2,334	53
DELAWARE-CHILDERS.....	.21	H59160	HARTLESVILLE.....	..DO..	650	265
DEPEW.....	.24	H59170	RED FORK, CHEROKEE.....	..DO..	2,810	101
DILWORTH DISTRICT.....	.13	H41146	WILCOX, SIMPSON.....	ORD..	3,405	161
DOMES-POND CREEK.....	.21	H5H003	.....	.....	1,900	562
EARLSBORO WEST.....	.45	H37263	HUNTON.....	DEV..	4,244	12
EARLSBORO.....	.26	H37256	EARLSBORO.....	PENN..	3,417	652
EDMOND NORTHEAST.....	.12	H44137	HARTLESVILLE.....	..DO..	5,822	212
EDMOND WEST.....	.13	H48027	COMPOSITE.....	..DO..	6,401	732
ELGIN SOUTH.....	.13	H35122	PERU.....	..DO..	900	6
ELK CITY.....	.09	H49043	GRANITE WASH.....	..DO..	10,130	91
ENID NORTHEAST.....	.13	H70034	OSAGE.....	MISS..	6,116	534
ENVILLE SOUTHWEST.....	.04	H47078	OIL CREEK, SIMPSON.....	ORD..	8,175	342
EOLA-ROBBERTSON.....	.35	H59149	AROMIDE, SIMPSON.....	..DO..	.....	4,786
FITTS.....	.14	H42161	CROMWELL.....	PENN..	2,575	1,464
FLAT ROCK.....	.22	H38045	HARTLESVILLE.....	..DO..	1,350	218
FREDERICK WEST.....	.16	H40027	CANYON.....	..DO..	3,060	7
GARRER.....	.11	H25289	.....	.....	.....	923
GILLILAND.....	.16	H44057	ARHUCKLE.....	ORD..	2,875	72
GLENN.....	.31	H54172	GLENN.....	PENN..	1,420	2,300
GOLDEN TREND.....	.19	H50111	GILSON, DEFSE.....	..DO..	7,318	12,210
GRAND VALLEY EAST.....	.09	H47080	MORROW.....	..DO..	6,948	310
GUTHRIE TOWNSITE.....	.12	H42201	SIMPSON.....	ORD..	5,603	6
GUTHRIE.....	.12	H41190	WILCOX, SIMPSON.....	..DO..	5,440	48
HARDESTY NORTH.....	.03	H56074	MORROW.....	PENN..	6,236	46
HAYDENVILLE DISTRICT.....	.15	H39365	WILCOX, SIMPSON.....	ORD..	3,584	89
HENRYETTA.....	.33	H37075	.....	.....	.....	38
HOGSHOOTER.....	.21	H57014	HARTLESVILLE.....	PENN..	1,120	65
HOMINY EAST.....	.16	H48347	..DO..	..DO..	2,130	35
HOMINY FALLS.....	.20	H39375	BURGESS.....	..DO..	1,900	16
HOMINY.....	.13	H00622	PENN.+MISS.....	..DO..	.....	6
HOOVER NORTH (HOOVER).....	.35	H51026	PONTOTOC.....	..DO..	1,080	324
HOOVER SOUTHEAST.....	.36	H48116	HUTTERLY.....	ORD..	10,010	31
HORNS CORNER.....	.09	H43118	CROMWELL.....	PENN..	3,872	10
HUBBARD.....	.16	H40023	STALNAKER.....	..DO..	2,528	66
IRON POST.....	.16	H44080	SKINNER.....	..DO..	2,406	277
ISOM SPRINGS.....	.45	H48101	TRINITY.....	CRET..	365	23
JAVINE.....	.15	H46044	BURGESS.....	PENN..	1,618	50
KAW.....	.11	H39097	SKINNER.....	..DO..	3,095	10
KELLYVILLE.....	.28	H00734	.....	.....	.....	139
KENDRICK.....	.17	H54006	FORT SCOTT.....	PENN..	.....	54
KEOKUK.....	.31	H39352	HUNTON.....	DEV..	4,198	101
KEYES DISTRICT.....	.12	H46040	KEYES, CHEROKEE.....	PENN..	4,800	77
KNOX.....	.09	H47021	DORNIC HILLS.....	..DO..	3,492	1,249
KONAWA-DORA.....	.44	H47074	EARLSBORO.....	..DO..	2,732	522
LANGSTON.....	.13	H39322	WILCOX, 1ST, SIMPSON..	ORD..	5,059	11
LAUDERDALE.....	.18	H47154	RED FORK, CHEROKEE.....	PENN..	.....	155
LAWRIE WEST.....	.13	H48121	OSWEGO.....	..DO..	5,300	204
LITTLE RIVER.....	.25	H47156	GILCREASE.....	..DO..	3,085	290
LOGAN SOUTH.....	.04	H47075	TONKAWA.....	..DO..	6,006	192
LUCIEN NORTH.....	.10	H40262	WILCOX, 1ST, SIMPSON..	ORD..	5,373	36
LUCIEN NORTHEAST.....	.18	H42151	WILCOX, 2ND, SIMPSON..	..DO..	5,396	11
LUCIEN.....	.12	H40249	..DO..	..DO..	5,059	354
LYONS-GUINN.....	.11	H24872	LYONS.....	PENN..	2,710	113
MACOMB SOUTH.....	.40	H43014	HUNTON.....	DEV..	4,669	68
MADALENE EAST.....	.16	H44049	HOMINY.....	ORD..	2,425	139
MADALENE.....	.22	H38354	HARTLESVILLE.....	PENN..	2,030	48
MADILL NORTH.....	.33	H48109	AROMIDE, SIMPSON.....	ORD..	6,784	581
MADILL.....	.06	H00643	.....	.....	1,700	70
MANION.....	.22	H39311	RUZZARD, OKESA.....	PENN..	535	59
MARSHALL.....	.14	H36103	WILCOX, SIMPSON.....	ORD..	5,777	79
MAUD.....	.32	H29245	MISNER.....	DEV..	4,097	181
MAYSVILLE SOUTHEAST.....	.34	H50135	SIMPSON.....	ORD..	6,240	11
MERVINE.....	.15	H00614	PENNSYLVANIAN.....	PENN..	.....	8
MISSION.....	.27	H29240	WILCOX, SIMPSON.....	ORD..	4,250	56
MOORE WEST.....	.17	H46031	WILCOX, 2ND, SIMPSON..	..DO..	8,792	760
MORRIS.....	.11	H58035	HOCH.....	PENN..	1,232	62
MT VERNON.....	.29	H49045	RED FORK, CHEROKEE.....	..DO..	4,200	86
MUSKOGEE.....	.23	H00750	OROVICIAN.....	ORD..	1,052	181
NAVAL RESERVE SOUTH.....	.16	H44059	ARHUCKLE.....	..DO..	3,001	19
NAVAL RESERVE.....	.20	H48357	ARHANK.....	PENN..	2,645	556
NEWCASTLE EAST.....	.11	H51019	HUNTON.....	DEV..	8,890	7
NORMAN NORTH.....	.19	H41161	WILCOX, SIMPSON.....	ORD..	.....	288
NUYAKA.....	.17	H00740	OROVICIAN.....	..DO..	.....	34
OCHELATA NORTH.....	.31	H38450	BURGESS.....	PENN..	700	62
OKEMAH NORTH.....	.22	H42200	GILCREASE.....	..DO..	3,121	96
OKLAHOMA CITY.....	.16	H57101	WILCOX, SIMPSON.....	ORD..	6,348	1,770
OKMULGEE.....	.13	H00739	PENNSYLVANIAN.....	PENN..	1,250	133
OLYMPIC.....	.24	H41175	OLYMPIC.....	..DO..	1,721	13
OSAGE CITY EAST.....	.24	H38354	HARTLESVILLE.....	..DO..	.....	67
OSAGE CITY.....	.20	H39315	PEOPLES, MUSSELEM.....	..DO..	913	135
OSAGE-HOMINY.....	.16	H38356	MISSISSIPPIAN.....	MISS..	2,355	737
PAGE.....	.21	H38024	.....	.....	2,008	22
PAPOOSE.....	.10	H25335	PAPOOSE.....	PENN..	3,326	28

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
OKLAHOMA - CONTINUED						
(0.00-0.50)						
PAULS VALLEY EAST.....	0.37	445082	HURNS.....	PENN..	2,948	168
PAULS VALLEY.....	.34	444019	CLVELAND.....	..DN..	4,053	183
PAWUSKA.....	.18	439374	MISSISSIPPIAN.....	MISS..	2,135	70
PAYNE.....	.27	461065	ARMIDE, SIMPSON.....	ORD..	9,560	1,879
PAYSON.....	.24	454030	SKINNER.....	PENN..	4,152	76
PEARSONIA.....	.13	467102	MISSISSIPPI CHAT.....	MISS..	2,408	88
PERSHING.....	.17	400424	PENNSYLVANIAN.....	PENN..	.....	124
PIONEER.....	.24	438027	BARTLESVILLE.....	..DN..	1,691	8
POLLYANNA.....	.38	440026	GLENN.....	..DN..	1,790	71
POLO.....	.12	441144	WILCOX, SIMPSON.....	ORD..	4,805	246
PONCA CITY SOUTH.....	.13	438140	..DO.....	..DN..	3,937	34
PONCA CITY.....	.18	400416	.....	.....	.....	384
POSTLE.....	.14	447044	MORROW G.....	PENN..	4,443	9,803
PRUE.....	.22	444087	PRUE + SOUTREI.....	..DN..	1,486	6
PUTNAM.....	.01	448085	OSWEGO.....	..DN..	9,663	2,376
QUAPAW.....	.18	438342	BARTLESVILLE.....	..DN..	1,750	29
RAMONA.....	.18	444020	..DO.....	..DN..	1,550	152
RAMSEY.....	.19	438015	WILCOX, SIMPSON.....	ORD..	4,668	170
RICH VALLEY.....	.12	446104	MISSISSIPPIAN.....	MISS..	5,219	192
RINGWOOD.....	.13	451048	MANNING.....	..DN..	6,500	4,798
SAND SPRINGS.....	.19	439714	TURKEY MOUNTAIN.....	ORD..	2,135	19
SAPULPA.....	.33	439366	WILCOX, SIMPSON.....	..DN..	2,651	68
SCHLEGEL NORTH.....	.13	443088	WILCOX, 2ND, SIMPSON.....	..DN..	3,602	6
SEARIGHT.....	.24	427341	HUNTON.....	DEV..	4,055	352
SEMINOLE.....	.32	444026	WILCOX, SIMPSON.....	ORD..	4,136	1,480
SKIATOOK.....	.16	434046	BURGESS.....	PENN..	.....	11
SLICK.....	.47	467018	DUTCHER.....	..DN..	2,583	560
SOONER TREND.....	.08	446104	OSWEGO.....	..DN..	6,330	15,921
ST. LOUIS.....	.36	437254	SIMPSON.....	ORD..	4,080	1,384
STILLWATER.....	.22	440231	WILCOX, 1ST, SIMPSON.....	..DN..	4,301	103
STOCKHOLM SOUTHEAST.....	.04	449062	TONKAWA.....	PENN..	5,418	54
STROUD.....	.20	440230	WILCOX, SIMPSON.....	ORD..	4,087	1,172
SYLVIAN.....	.19	443049	CROMWELL.....	PENN..	3,629	51
TECUMSEH LAKE.....	.20	441253	WILCOX, 1ST, SIMPSON.....	ORD..	5,234	43
THOMAS.....	.11	440097	WILCOX, SIMPSON.....	..DN..	4,032	113
TIDAL-OSAGE.....	.18	444030	BARTLESVILLE.....	PENN..	2,134	225
TONKAWA.....	.22	471034	.....	.....	.....	279
TRANSCO NORTHWEST.....	.27	424495	WILCOX, SIMPSON.....	ORD..	.....	13
TURLEY.....	.23	400731	.....	.....	.....	49
TUSKEGEE.....	.16	441135	WILCOX, SIMPSON.....	ORD..	3,323	21
WANETTE.....	.41	444003	VIOLA.....	..DN..	4,090	17
WASHINGTON.....	.17	446027	ARMIDE, SIMPSON.....	..DN..	10,620	754
WATCHORN EAST.....	.13	459223	WILCOX, SIMPSON.....	..DN..	.....	206
WATCHORN.....	.14	425344	..DO.....	..DN..	.....	21
WAYNE SOUTHWEST.....	.12	450130	PENNSYLVANIAN.....	PENN..	6,600	414
WELLSTON NORTH.....	.21	439400	WILCOX, SIMPSON.....	ORD..	5,105	135
WEWOKA NORTH.....	.11	443022	HUNTON.....	DEV..	3,923	6
WEWOKA.....	.18	467101	..DO.....	..DN..	3,859	336
WILDHORSE NORTH.....	.18	438368	BARTLESVILLE.....	PENN..	1,791	16
WILDHORSE WEST.....	.12	441073	HOWINY.....	ORD..	2,407	16
WILDHORSE.....	.23	438359	BARTLESVILLE.....	PENN..	1,723	261
WILZETTA.....	.41	439356	HUNTON.....	DEV..	4,241	12
WOOLAROC.....	.14	438041	BARTLESVILLE.....	PENN..	1,755	15
WYNONA.....	.14	441048	..DO.....	..DN..	2,098	265
YALE-QUAY.....	.33	400420	PENN.+MISS.....	..DN..	.....	375
YOUNGSTOWN.....	.32	400738	PENNSYLVANIAN.....	..DN..	.....	126
(0.51-1.00)						
ROCK.....	.54	439462	ROCK, 3RD.....	PENN..	1,564	311
CACHE CREEK.....	.52	447028	CACHE, POINTOTOC.....	..DN..	1,320	233
CHICKASHA.....	.58	423122	NICHOLS.....	PENN..	.....	212
EARLSBORO NORTH.....	.70	439349	WILCOX, SIMPSON.....	ORD..	4,637	26
HEALDTON.....	.75	450152	HEALDTON.....	PENN..	1,146	4,838
HEWITT.....	.79	444097	BAYOU, DEESE.....	..DN..	2,760	5,765
JOINEP CITY.....	.65	448114	WOODFORD.....	MISS..	8,518	184
ORR NORTH.....	.62	441073	HUNTON.....	DEV..	8,870	62
SEARIGHT NORTH.....	.61	439348	WILCOX, SIMPSON.....	ORD..	4,576	217
SHAWNEE NORTHEAST.....	.53	443047	WILCOX, 1ST, SIMPSON.....	..DN..	4,835	29
SHO-VEL-TUM.....	1.00	457047	FUSULINID, DEESE.....	PENN..	2,660	10,627
SOLDIER CREEK.....	.53	447026	SOLDIER CREEK.....	..DN..	1,629	182
(1.01-2.00)						
LAFFOON.....	1.10	454004	WILCOX, SIMPSON.....	ORD..	.....	108
PECK.....	1.13	441255	WILCOX, 1ST + 2ND.....	..DN..	4,150	75
PENNSYLVANIA						
(0.00-0.50)						
BRADFORD.....	.11	458016	DEVONIAN.....	DEV..	.....	2,200
SOUTH DAKOTA						
(0.51-1.00)						
RUFFALO FIELD.....	.51	454041	RED RIVER MIDDLE.....	ORD..	8,660	143

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WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS						
RAILROAD COMMISSION DISTRICT 1						
(0.00-0.50)						
BIG FOOT.....	0.42	R50062	OLMOS, NAVARRO.....	CRET..	3,270	630
CALLIHAM.....	.17	R35276	CALLIHAM, MIRANDO.....	EOCENE	704	24
CAMPANA, SOUTH.....	.19	R4R015	PETTUS, YEGUA.....	..DN..	3,026	354
CHAPMAN ABBOTT.....	.16	R33048	SERPENTINE.....	CRET..	1,504	15
EZZELL.....	.27	R39255	LOMA NOVIA, JACKSON.....	EOCENE	1,530	34
HILBIG.....	.19	R33122	SERPENTINE.....	CRET..	2,355	106
JACOB.....	.22	R35159	COCKFIELD.....	EOCENE	894	71
JOURDANTON EDWARDS LIME.....	.39	R68010	EDWARDS.....	CRET..	7,353	553
LYTTON SPRINGS.....	.34	R6R018	AUSTIN + SERPENTINE.....	..DN..	1,682	61
MINERVA ROCKDALE.....	.15	R33177	NAVARRO.....	..DN..	750	41
SACATOSA SAN MIGUEL # 1.....	.33	R62045	SAN MIGUEL 1.....	..DN..	1,250	733
SOUTHTON.....	.45	R00966	CRETACEOUS.....	..DN..	.....	23
WEIGANG.....	.12	R6R013	CARRIZO, CLATBORNE.....	EOCENE	3,750	230
(0.51-1.00)						
BEAR CREEK.....	.66	R6R014	OLMOS, NAVARRO.....	CRET..	2,278	79
BIG FOOT OLMOS D-3 SAND.....	.70	R67082	OLMOS D-3, NAVARRO.....	..DN..	3,571	13
CHARLOTTE NAVARRO.....	.58	R50021	CRETACEOUS.....	..DN..	5,154	1,179
CROWN, EAST NAVARRO.....	.57	R56129	OLMOS B, NAVARRO.....	..DN..	4,344	177
DARST CREEK BUDA.....	.76	R42047	BUDA.....	..DN..	2,327	905
DARST CREEK EDWARDS.....	.74	R54123	EDWARDS.....	..DN..	2,500	1,072
DUNLAP.....	.77	R68019	AUSTIN + BUDA.....	..DN..	2,070	249
GLEN HUMMEL POTH.....	.79	R6R011	POTH.....	EOCENE	2,400	238
LULING BRANYON.....	.86	R54122	EDWARDS.....	CRET..	2,100	1,714
PRUITT.....	.66	R59100	OLMOS, NAVARRO.....	..DN..	4,822	29
PRUITT, SOUTHEAST OLMOS.....	.75	R59096	..DO.....	..DN..	5,003	105
SALT FLAT.....	.58	R62046	AUSTIN + BUDA.....	..DN..	2,330	817
SPILLER.....	.76	R6R017	..DO.....	..DN..	2,033	361
(1.01-2.00)						
KAYE NAVARRO.....	1.61	R59101	ESCONDIDO, NAVARRO.....	CRET..	2,567	56
PEARSALL AUSTIN CHALK.....	1.11	R38074	AUSTIN.....	..DN..	5,275	45
PEARSALL OLMOS A.....	1.78	R59098	NAVARRO.....	..DN..	3,951	155
SOMERSET.....	1.47	R68012	OLMOS, NAVARRO.....	..DN..	774	112
(>2.00)						
PEARSALL NAVARRO.....	2.06	R35153	NAVARRO.....	CRET..	3,917	87
RAILROAD COMMISSION DISTRICT 2						
(0.00-0.50)						
BERCLAIR FRIO 2200.....	.19	R62171	FRIO.....	OLIG..	2,199	77
BERCLAIR VICKSBURG.....	.23	R62172	VICKSBURG.....	..DN..	3,183	259
BLOOMINGTON 4600.....	.19	R67088	GRETA, MASSIVE, FRIO.....	..DN..	4,646	709
BONNIE VIEW.....	.18	R50018	GRETA, FRIO.....	..DN..	4,550	470
BURNELL LULING.....	.07	R62173	LULING.....	EOCENE	6,875	288
BURNELL MASSIVE.....	.09	R56131	WILCOX.....	..DN..	.....	37
BURNELL REKLAU.....	.04	R62174	REKLAU.....	..DN..	6,524	81
CAESAR PETTUS.....	.42	R35151	COCKFIELD.....	..DN..	3,055	12
CLAYTON QUEEN CITY R.....	.03	R68009	QUEEN CITY R.....	..DN..	5,112	28
COTTONWOOD CREEK, SOUTH.....	.09	R56130	WILCOX.....	..DN..	7,651	271
DIRKS.....	.09	R36187	COCKFIELD.....	..DN..	3,842	20
FALLS CITY.....	.25	R62175	WILCOX.....	..DN..	6,056	457
FRANCITAS BROUGHTON.....	.12	R54067	BROUGHTON, FRIO.....	OLIG..	7,377	25
FRANCITAS, NORTH.....	.04	R67042	FRIO.....	..DN..	8,814	282
GANADO DEEP HANNA ROSS.....	.10	R62176	..DO.....	..DN..	6,406	36
GANADO DEEP HULTQUIST.....	.10	R62176	..DO.....	..DN..	6,406	136
GANADO DEEP LOWER 6650.....	.10	R62176	..DO.....	..DN..	6,406	146
GANADO FRIO 6-A.....	.13	R46137	FRIO, 6350 FT.....	..DN..	6,427	35
GANADO MARG. 3.....	.16	R62037	MARGINULINA, FRIO.....	..DN..	5,063	13
GANADO.....	.10	R62176	FRIO.....	..DN..	6,406	120
GANADO, WEST 4700.....	.17	R62038	GRETA, FRIO.....	..DN..	4,730	905
GANADO, WEST 6000.....	.17	R62038	..DO.....	..DN..	4,730	36
GRETA DEEP 5620.....	.09	R36054	TERTIARY.....	TERT..	5,615	62
GRETA DEEP 5900.....	.17	R54158	FRIO.....	OLIG..	5,939	257
GRETA MASSIVE CATAMOULA.....	.22	R35160	OSTREA + CATAMOULA.....	EOCENE	3,505	16
GRETA 4400.....	.17	R62192	GRETA, FRIO.....	OLIG..	4,400	3,042
HARMON.....	.12	R43057	OLIGOCENE.....	..DN..	5,317	33
HELEN GOHLKE WILCOX.....	.15	R52057	WILCOX A1.....	EOCENE	8,096	668
HELEN GOHLKE, WEST WILCOX.....	.09	R58137	WILCOX.....	..DN..	8,164	138
HEYSER 5400 NO. 1 SAND.....	.17	R54159	FRIO, 5400 FT.....	OLIG..	5,481	399
HEYSER 5400 NO. 2 SAND.....	.17	R54159	..DO.....	..DN..	5,481	325
HEYSER 5400 NO. 3 SAND.....	.17	R54159	..DO.....	..DN..	5,481	124
HEYSER.....	.16	R36181	FRIO.....	..DN..	5,496	65
HOBSON.....	.09	R43086	TERTIARY.....	TERT..	4,015	95
KARON LULING 7173.....	.11	R68016	LULING.....	EOCENE	7,281	378
KEERAN.....	.13	R33169	FRIO.....	OLIG..	5,841	88
LA ROSA DRISCOLL SAND.....	.12	R62180	DRISCOLL, FRIO.....	..DN..	8,323	6
LA ROSA 6300.....	.08	R62178	FRIO, 6300 FT.....	..DN..	6,300	285
LA ROSA 8200 SAND.....	.10	R62179	VICKSBURG, 8200 FT.....	..DN..	8,181	67
LAKE PASTURE FS-527.....	.16	R62194	FRIO, FS-527.....	..DN..	5,290	207
LAKE PASTURE FS-550.....	.10	R69013	FRIO, SINTON.....	..DN..	5,770	123
LAKE PASTURE FT-569.....	.13	R61049	SINTON, FRIO, 569 FT.....	..DN..	5,731	240
LAKE PASTURE FT-572.....	.11	R69014	FRIO.....	..DN..	5,710	90
LAKE PASTURE H-440.....	.20	R61050	GRETA H-440, FRIO.....	..DN..	4,519	1,684
LAWARD, NORTH ZONE 5600.....	.14	R50016	FRIO.....	..DN..	5,200	451
LOLITA DEEP 4-WAY.....	.11	R58134	FRIO, 4-WAY.....	..DN..	.....	41
LOLITA DEEP 7000.....	.11	R54160	FRIO, 7000 FT.....	..DN..	6,990	102
LOLITA DEEP 8000.....	.17	R58133	MARGINULINA, FRIO.....	..DN..	.....	51

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS						
- CONTINUED						
RAILROAD COMMISSION DISTRICT 2 - CONTINUED						
(0.00-0.50)						
LOLITA MARGINULINA.....	0.17	B58133	MARGINULINA, FRIO.....	OLIG..	.....	460
LOLITA TONEY.....	.17	H58133	..DO.....	..DO..	.....	103
LOLITA VENADO.....	.11	B58132	VENADO, FRIO.....	..DO..	6.064	43
LOLITA WARD.....	.17	B58133	MARGINULINA, FRIO.....	..DO..	.....	335
MARY ELLEN OCONNOR F0 40.....	.16	H54162	FRIO F0-40.....	..DO..	5.913	409
MARY ELLEN OCONNOR FS 96.....	.18	H58138	FRIO FS-96.....	..DO..	5.523	527
MAYO.....	.15	B46141	MAYS, FRIO.....	..DO..	5.437	96
MCFADDIN 4400.....	.24	R39254	GRETA, FRIO.....	..DO..	4.376	381
MCFADDIN, NORTH 6200.....	.11	B35167	FRIO.....	..DO..	6.179	15
PANNA MARIA EDWARDS.....	.15	R67092	EDWARDS.....	CRET..	10.926	348
PERSON EDWARDS.....	.23	R62040	..DO.....	..DO..	10.956	730
PETTUS.....	.09	B30487	COCKFIELD.....	EOCENE	3.660	78
PLACEDO EAST 5500.....	.18	H58135	FRIO, 5500 FT.....	OLIG..	5.560	30
PLACEDO.....	.17	H54163	FRIO.....	..DO..	.....	143
PLACEDO, EAST 6050.....	.09	B58136	FRIO, 6050 FT.....	..DO..	6.066	10
PLACEDO, EAST.....	.15	B58141	FRIO.....	..DO..	6.003	57
REFUGIO F01 5800.....	.12	R62041	FRIO, 5800 FT.....	..DO..	5.843	25
REFUGIO HEARD AREA.....	.11	R62189	FRIO, 4600.....	..DO..	4.600	25
REFUGIO NEW 6150 SAND.....	.09	H58140	FRIO.....	..DO..	6.226	29
REFUGIO, NEW 6200 FLT B 1.....	.09	H58139	FRIO, 6200 FT.....	..DO..	6.202	272
REFUGIO, OLD.....	.10	R62195	FRIO, 5700 FT.....	..DO..	5.700	132
ROCHE R.....	.12	R50019	FRIO.....	..DO..	6.810	135
ROCHE C.....	.12	R50019	..DO.....	..DO..	6.810	517
SLICK WILCOX MASSIVE.....	.09	B50008	WILCOX.....	EOCENE	7.570	316
STEWART.....	.18	H46142	FRIO, 4990 FT.....	OLIG..	4.999	117
SWAN LAKF 8700.....	.19	B52067	FRIO.....	..DO..	8.683	21
TOM OCONNOR 4400.....	.17	H62042	CATAHOULA, 4400 FT.....	..DO..	4.392	603
TOM OCONNOR 4500 GRETA MASS.....	.17	B62043	GRETA, 4500 FT, FRIO.....	..DO..	4.404	1,330
TOM OCONNOR 5400.....	.15	B69015	FRIO, SINTON 5400 FT.....	..DO..	5.395	623
TOM OCONNOR 5425.....	.16	R68079	FRIO.....	..DO..	.....	40
TOM OCONNOR 5450 SAND.....	.14	R62191	FRIO, 5450 FT.....	..DO..	5.540	79
TOM OCONNOR 5500 SAND.....	.16	B62044	FRIO, 5500 FT.....	..DO..	5.536	4,601
TOM OCONNOR 5900.....	.18	R62193	FRIO, 5900 FT.....	..DO..	5.900	7,915
TOM OCONNOR.....	.17	H59154	FRIO.....	..DO..	.....	7,967
UNA, WFST C-SAND.....	.06	R62184	FRIO, C.....	..DO..	6.772	28
UNA, WEST W-SAND.....	.09	R62185	FRIO, W.....	..DO..	6.187	25
UNA, WEST 6500.....	.09	R62170	FRIO, 6500 FT.....	..DO..	6.522	120
WEST RANCH 41 A ZONE.....	.17	H58121	FRIO 41A.....	..DO..	5.736	3,179
WEST RANCH 98 A ZONE.....	.11	H58126	FRIO 98A.....	..DO..	6.145	2,019
WEST RANCH GLASSCOCK.....	.13	B58128	GLASSCOCK, FRIO.....	..DO..	5.569	4,172
WEST RANCH GRETA ZONE.....	.14	B58122	GRETA, FRIO.....	..DO..	5.130	4,565
WEST RANCH TONEY.....	.11	B67043	TONEY, FRIO.....	..DO..	5.502	395
WEST RANCH VANDERBILT.....	.10	B58125	VANDERBILT, FRIO.....	..DO..	6.267	242
WEST RANCH VENADO.....	.14	B58127	VENADO, FRIO.....	..DO..	5.745	268
WEST RANCH WARD ZONE.....	.15	B58129	WARD, FRIO.....	..DO..	5.701	957
WEST RANCH 7200.....	.09	B58130	FRIO, 7200 FT.....	..DO..	7.304	112
WOODSBORO FT-B SAND.....	.13	R62188	TEPTIARY.....	TERT..	.....	18
WOODSBORO.....	.13	R62196	..DO.....	..DO..	.....	28
(0.51-1.00)						
LA ROSA 5900.....	.70	R62177	FRIO, 5900 FT.....	OLIG..	5.900	324
RAILROAD COMMISSION DISTRICT 3						
(0.00-0.50)						
AMELIA DISCORRIS 3.....	.20	R43129	DISCORRIS 3, ANAHUAC....	OLIG..	5.628	24
AMELIA FRIO 1.....	.21	R47217	FRIO.....	..DO..	6.723	47
AMELIA FRIO 2.....	.20	H38056	..DO.....	..DO..	6.768	55
AMELIA FRIO 4.....	.22	B37143	OLIGOCENE.....	..DO..	6.765	21
AMELIA FRIO 6.....	.23	B55046	FRIO 6.....	..DO..	6.766	161
AMELIA MARG 3.....	.24	B55047	MARGINULINA 3, FRIO.....	..DO..	6.236	58
ANAHUAC.....	.19	R55048	FRIO A.....	EOCENE	7.054	8,435
BAMMEL COCKFIELD 6200.....	.10	R59148	COCKFIELD.....	EOCENE	6.255	90
BARBERS HILL.....	.27	B55050	FRIO.....	OLIG..	4.495	768
BATSON, NEW.....	.09	R43131	EOCENE.....	EOCENE	5.124	683
BAY CITY, 7000 FRIO.....	.12	R49025	FRIO.....	OLIG..	7.075	61
BAY CITY, 7500 FRIO.....	.19	H55051	FRIO, 7500 FT.....	..DO..	7.490	167
BAY CITY, 8200 FRIO.....	.12	R46138	FRIO, 8200 FT.....	..DO..	8.248	55
BAY CITY, 8500 FRIO.....	.12	H46144	FRIO, 8500 FT.....	..DO..	8.506	143
BEAUMONT.....	.19	H59137	HETEROSTEGINA.....	..DO..	5.640	55
BEAUMONT, WEST.....	.18	R41475	DISCORBIS-MARGINULINA..	..DO..	5.400	262
BENDER COCKFIELD.....	.10	H59120	COCKFIELD.....	EOCENE	5.826	30
BENDER YEGUA Y 5 SAND.....	.14	B56084	YEGUA Y5.....	..DO..	6.072	215
BIG CREEK.....	.11	B67089	MIocene.....	MIOC..	3.851	1,054
BIG HILL.....	.19	H55052	MARGINULINA.....	..DO..	9.283	491
BLESSING F-12.....	.13	R69070	BLESSING F-12.....	OLIG..	7.790	19
BLESSING F-14-R.....	.06	H63136	FRIO F-14B.....	..DO..	8.179	61
BLESSING F-18-A.....	.05	B63137	FRIO F-15.....	..DO..	8.231	37
BLESSING F-3.....	.06	B63138	FRIO F-18A.....	..DO..	8.481	9
BLUE MARSH QUINN.....	.05	R63135	FRIO F3.....	..DO..	7.005	126
BLUE MARSH 5TH YEGUA.....	.14	R63139	QUINN, CISCO.....	PENN..	.....	8
BLUE RIDGE.....	.27	R59149	YEGUA, 5TH.....	EOCENE	.....	5
BOLING.....	.15	R51076	FRIO.....	OLIG..	3.949	108
BOLING, SOUTH.....	.16	R59146	..DO.....	..DO..	4.984	131
CEDAR POINT.....	.09	R40082	FRIO 6.....	..DO..	6.430	92
CHENANGO 8100 FRIO.....	.11	H59134	MIocene.....	MIOC..	4.414	294
CHENANGO 8500 A.....	.11	H59133	FRIO, 8100 FT.....	OLIG..	8.152	33
CHOCOLATE BAYOU ALIBEL.....	.09	H56085	FRIO, 8500 FT A.....	..DO..	8.498	29
CHOCOLATE BAYOU FRIO UPPER.....	.09	R50011	ALIBEL, FRIO.....	..DO..	9.305	428
CLAM LAKE.....	.18	R62063	FRIO A+B.....	..DO..	8.700	125
			MIocene.....	MIOC..	4.436	522

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR, WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED RAILROAD COMMISSION DISTRICT 3 - CONTINUED (0.00-0.50)						
CLAY CREEK.....	0.35	R30490	MT. SELMAN.....	Eocene	1,194	219
CLEAR LAKE.....	.24	R49006	FRIO.....	OLIG.	6,000	389
COLUMBUS.....	.09	R59151	WILCOX 7C.....	Eocene	8,338	125
CONROE TOWNSITE COCKFIELD.....	.13	R63144	COCKFIELD.....	..DO..	5,103	66
CONROE UPPER COCKFIELD.....	.15	R53018	.....	..DO..	.....	281
CONROE.....	.05	R63143	.....	..DO..	4,991	12,953
COTTON LAKE.....	.15	R37185	MARGINULINA, FRIO.....	OLIG.	6,285	9
DAMON MOUND EAST FLT A-1.....	.17	H59147	FRIO, FAULT BLOCK 1.....	..DO..	4,380	119
DAMON MOUND.....	.28	H00789	TERTIARY.....	TERT.	3,212	119
DANBURY DOME 5655.....	.09	H59150	FRIO, 5655 FT.....	OLIG.	5,050	452
DANBURY DOME.....	.15	H59142	MIOCENE, 2842 FT.....	MIOC.	2,865	90
DAYTON, NORTH.....	.50	H00779	TERTIARY.....	TERT.	1,700	8
DICKINSON.....	.09	H36064	FRIO.....	OLIG.	8,007	71
DURKEE, FAIRBANKS.....	.13	B68007	FAIRBANKS, YEGUA.....	Eocene	7,050	559
DYERSDALE.....	.18	R49031	FRIO.....	OLIG.	4,050	116
ESPERSON DOME.....	.32	R63146	MIOCENE 1.....	MIOC.	2,664	1,108
ESPERSON DOME, SOUTH.....	.11	R51074	CPOCKETT.....	Eocene	7,595	131
FANNETT.....	.15	H55055	CATAHOULA.....	OLIG.	3,720	700
FEDERAL BLOCK 288 E.....	.07	H49071	MIOCENE E.....	MIOC.	8,214	141
FEDERAL BLOCK 288 F.....	.06	R69072	MIOCENE F.....	..DO..	8,496	202
FEDERAL BLOCK 288 G.....	.05	H69073	MIOCENE G.....	..DO..	8,874	18
FIG RIDGE SEABREEZE.....	.13	R62065	SEABREEZE, FRIO.....	OLIG.	8,492	1,509
FIG RIDGE.....	.17	R44135	FRIO, 81.....	..DO..	8,561	11
FISHERS REEF FRIO 4B.....	.07	R67041	FRIO 4B.....	..DO..	8,196	183
FISHERS REEF FRIO 8.....	.09	R67039	FRIO 8.....	..DO..	8,477	55
FRANKS SCHENCK SAND.....	.12	R67040	FRIO 17.....	..DO..	9,173	622
FRANKS 8900 SD.....	.09	R59126	SCHENCK, FRIO.....	..DO..	11,018	111
FT. TRINIDAD, EAST BUDA.....	.16	R59136	BIG GAS SAND, FRIO.....	..DO..	8,933	349
FT. TRINIDAD, EAST DEXTER.....	.16	R71065	BUDA.....	CRET.	9,019	235
GILLOCK BIG GAS.....	.06	H71064	DEXTER.....	..DO..	8,619	146
GILLOCK.....	.09	R63149	FRIO 1.....	OLIG.	7,902	397
GILLOCK, EAST SEG.....	.10	R49020	FRIO.....	..DO..	8,300	76
GILLOCK, SOUTH.....	.11	R59129	..DO..	..DO..	9,192	909
GOOSE CREEK.....	.13	H50060	BIG GAS SAND, FRIO.....	..DO..	9,504	1,287
HANKAMER MIOCENE SAND.....	.22	H50056	MIOCENE + OLIGOCENE.....	MIOC.	4,432	1,092
HANKAMER.....	.25	H50072	MIOCENE.....	..DO..	4,258	1,176
HARDIN.....	.14	R30504	..DO..	..DO..	4,232	183
HASTINGS, EAST.....	.15	H46148	FRAZIER, FRIO.....	OLIG.	7,583	309
HASTINGS, WEST.....	.17	R62066	FRIO.....	..DO..	6,020	1,355
HIGH ISLAND.....	.26	R62067	..DO..	..DO..	6,060	15,791
HOCKLEY.....	.47	R55057	MIOCENE.....	MIOC.	4,487	1,684
HOUSTON, S. MIOCENE.....	.20	R33123	TERTIARY.....	TERT.	2,419	6
HOUSTON, SOUTH OLIGOCENE.....	.12	R36067	MIOCENE.....	MIOC.	4,017	116
HULL, COOK MOUNTAIN.....	.09	H55058	FRIO.....	OLIG.	4,834	302
HULL.....	.35	R30511	COOK MOUNTAIN.....	Eocene	3,887	151
HUMBLE LIGHT.....	.06	R55059	CAPROCK.....	MIOC.	1,651	1,271
HUMBLE.....	.22	R62068	YEGUA Y-5.....	Eocene	4,392	749
KATY, 1-B.....	.05	H30606	OLIGOCENE.....	OLIG.	2,185	499
LA BELLE.....	.09	R42069	COCKFIELD.....	Eocene	6,844	459
LIBERTY, SOUTH.....	.16	R38135	FRIO.....	OLIG.	8,622	412
LIVINGSTON.....	.11	R54105	YEGUA.....	Eocene	5,756	914
LOCHMIDGE.....	.13	R55061	COCKFIELD.....	..DO..	4,198	319
LOVELLS LAKE FRIO 1.....	.10	R61473	FRIO.....	OLIG.	6,300	114
LOVELLS LAKE FRIO 2.....	.09	R39252	..DO..	..DO..	7,716	55
LOVELLS LAKE MARG 2.....	.10	R40308	..DO..	..DO..	7,792	403
MAGNET WITHERS E. FRIO.....	.19	R67083	..DO..	..DO..	7,780	336
MAGNET WITHERS.....	.19	R71067	..DO..	..DO..	5,678	81
MANVEL MIOCENE BASAL.....	.21	R55062	..DO..	..DO..	5,535	2,525
MANVEL OLIGOCENE.....	.16	H50051	MIOCENE.....	MIOC.	4,039	39
MANVEL UPPER MIOCENE.....	.20	R62070	OLIGOCENE.....	OLIG.	5,115	1,740
MARKHAM N BAY CITY N CARLSON.....	.10	R55074	MIOCENE.....	MIOC.	4,075	30
MARKHAM N BAY CITY N CAYCE.....	.12	R63151	CARLSON, FRIO.....	OLIG.	7,130	451
MARKHAM N BAY CITY N CORNELIUS.....	.09	R63152	CAYCE, FRIO.....	..DO..	7,864	298
MARKHAM N BAY CITY N ROSS.....	.12	R63153	CORNELIUS, FRIO.....	..DO..	7,686	432
MARKHAM.....	.17	B71066	.....	.....	8,380	7
MERCHANT EY-1B SAND.....	.36	R24557	TERTIARY.....	TERT.	1,380	60
MERCHANT, EY-1.....	.34	R55064	YEGUA EY-1B.....	Eocene	9,080	184
MERCY.....	.09	R55063	YEGUA EY-1.....	..DO..	8,976	12
MOORE'S ORCHARD.....	.09	R44048	WILCOX.....	..DO..	8,287	86
MORGANS CREEK.....	.23	R59145	YEGUA.....	..DO..	7,222	546
MYKAWA NEW.....	.15	R50073	PERKINS, JACKSON.....	..DO..	3,117	13
NOME.....	.23	H36069	MIOCENE + OLIGOCENE.....	MIOC.	4,100	43
NOMA MILLS.....	.09	R37215	MARGINULINA, FRIO.....	OLIG.	6,010	30
OLD OCEAN ARMSTRONG.....	.14	R59139	COCKFIELD.....	Eocene	8,190	87
OLD OCEAN CHENAULT.....	.09	R55066	ARMSTRONG, FRIO.....	OLIG.	10,204	1,067
ORANGE.....	.29	R44064	CHENAULT, FRIO.....	..DO..	9,583	32
OYSTER BAYOU.....	.18	R55068	MIOCENE.....	MIOC.	3,230	309
PICKETT RIDGE F-4.....	.17	R46132	OYSTER BAYOU, FRIO.....	OLIG.	8,375	4,812
PICKETT RIDGE.....	.19	H59141	FRIO, 4700 FT.....	..DO..	4,767	13
PIERCE JUNCTION.....	.12	R37206	FRIO.....	..DO..	4,669	90
PORT NECHES.....	.25	H51075	..DO..	..DO..	4,784	468
RACCOON BEND COCKFIELD.....	.12	R33068	TERTIARY.....	TERT.	3,473	416
RACCOON BEND GRAVUNDER.....	.16	R50669	COCKFIELD.....	Eocene	4,082	870
RACCOON BEND GUTOWSKY.....	.19	H33131	JACKSON.....	..DO..	3,208	35
RACCOON BEND JACKSON.....	.13	R56089	HOCKLEY, JACKSON.....	..DO..	3,344	66
RACCOON BEND WILSON.....	.24	R33132	JACKSON.....	..DO..	3,484	254
RANKIN.....	.12	R30508	HOCKLEY, JACKSON.....	..DO..	3,293	202
RED FISH REEF, S. FRIO 15.....	.08	B68008	YEGUA.....	..DO..	8,252	275
RED FISH REEF, SW F-15D.....	.09	R62071	FRIO 15R.....	OLIG.	11,340	129
RED FISH REEF, SW F-4.....	.11	R59121	FRIO F-15D.....	..DO..	10,834	12
RED FISH REEF, SW F-A.....	.09	H59127	FRIO F4.....	..DO..	9,358	45
ROSE CITY, N.....	.11	R59122	FRIO F8.....	..DO..	9,771	8
		R59152	BEAUMONT, E. FRIO.....	..DO..	8,098	138

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WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED						
RAILROAD COMMISSION DISTRICT 3 - CONTINUED						
(0.00-0.50)						
ROSE CITY, S.....	0.11	H59152	BEAUMONT, E. FRIO.....	OLIG..	8,098	218
ROWAN.....	.09	H42034	OLIGOCENE.....	..DO..	8,500	36
SARATOGA.....	.24	H50069	YEGUA.....	EOCENE	7,200	246
SATSUMA.....	.09	H37212	COCKFIELD.....	..DO..	6,825	14
SEGNO DEEP.....	.06	H43155	WILCOX.....	..DO..	8,000	77
SEGNO.....	.14	H43154	COCKFIELD 4.....	..DO..	5,090	121
SHERIDAN WILCOX H SAND.....	.09	H42037	WILCOX.....	..DO..	8,700	59
SILSREE.....	.14	H55070	YEGUA 1ST.....	..DO..	6,849	202
SOUR LAKE.....	.14	H49028	EOCENE.....	..DO..	.....	1,059
SPINDLETOP.....	.15	H59144	MIOCENE.....	MIOC..	3,500	345
STOWELL CRAWFORD U-1.....	.21	H46131	CRAWFORD, FRIO.....	OLIG..	7,825	229
STOWELL INTERMEDIATE U-2.....	.17	H46129	FRIO.....	..DO..	7,838	117
STOWELL STEWART U-3.....	.12	H46128	STEWART, FRIO.....	..DO..	7,845	135
STOWELL SULLIVAN R SD.....	.12	H43157	FRIO.....	..DO..	7,640	18
STOWELL 6500.....	.15	H43156	MIOCENE, 6500 FT.....	MIOC..	6,447	38
STOWELL 6700.....	.14	H42134	MIOCENE, 6700 FT.....	..DO..	6,736	77
STOWELL, SULLIVAN L.....	.13	H46130	SULLIVAN, FRIO.....	OLIG..	7,845	255
SUGAR VALLEY GRAVIER.....	.11	H47034	GRAVIER, FRIO.....	..DO..	10,125	22
SUGARLAND.....	.33	H31030	FRIO.....	..DO..	3,600	1,260
THOMPSON NORTH.....	.11	H44026	VICKSBURG.....	..DO..	7,800	512
THOMPSON SOUTH 4400.....	.20	H43159	MIOCENE, 4400 FT.....	MIOC..	4,334	994
THOMPSON SOUTH.....	.20	H49032	MIOCENE.....	..DO..	5,400	510
THOMPSON 3600.....	.25	H52084	MIOCENE 2.....	..DO..	3,478	232
THOMPSON.....	.20	H33070	OLIGOCENE.....	OLIG..	5,137	9,485
THOMPSON, VICKSBURG.....	.04	H43154	VICKSBURG.....	..DO..	7,551	82
TOMRALL SCHULTZ SE.....	.09	H37204	SCHULTZ, COCKFIELD.....	EOCENE	5,535	1,576
TOMRALL.....	.09	H46065	COCKFIELD.....	..DO..	5,552	525
TOMBALL, SCHULTZ CENTRAL.....	.09	H45072	SCHULTZ, COCKFIELD.....	..DO..	5,537	466
TOMRALL, WEST TRESELER.....	.05	H42072	TRESELER A, YEGUA.....	..DO..	5,561	63
TRINITY RAY.....	.11	H59123	FRIO 12.....	OLIG..	8,106	1,478
TURTLE RAY.....	.15	H34047	FRIO.....	..DO..	6,619	93
UMBRELLA POINT F-5 SD.....	.14	H43160	FRIO 5.....	..DO..	8,265	354
VILLAGE MILLS, EAST.....	.04	H43161	COCKFIELD.....	EOCENE	7,138	286
VILLAGE MILLS, EAST.....	.04	H43161	..DO..	..DO..	7,138	467
WEBSTER.....	.23	H42085	FRIO 14, 15.....	OLIG..	5,725	16,334
WEST COLUMBIA NEW.....	.19	H43162	FRIO 14, 15.....	..DO..	5,234	677
WEST COLUMBIA.....	.27	H37162	TERTIARY.....	..DO..	.....	677
WITHERS NORTH.....	.14	H43104	FRIO.....	OLIG..	5,350	707
WITHERS, NORTH C SAND.....	.10	H55073	FRIO C.....	..DO..	5,312	197
(0.51-1.00)						
RATSON OLD.....	.73	H49128	MIOCENE.....	MIOC..	580	110
DICKINSON DEEP FRIO.....	.82	H43145	FRIO 17.....	OLIG..	9,523	165
LIVINGSTON WILCOX.....	.40	H55060	WILCOX.....	EOCENE	7,029	603
SARATOGA, WEST.....	.54	H59130	MIOCENE, BASAL.....	MIOC..	3,091	116
RAILROAD COMMISSION DISTRICT 4						
(0.00-0.50)						
AGUA DULCE.....	.03	H55018	FRIO.....	OLIG..	6,900	179
ALAZAN ALL ZONES.....	.06	H49017	..DO..	..DO..	4,196	633
ALAZAN, NORTH ALL ZONES.....	.05	H43219	FRIO, H-86.....	..DO..	7,876	3,636
ARANSAS PASS.....	.04	H37049	MARGINULINA, FRIO.....	..DO..	6,527	13
ARNOLD-DAVID CHAPMAN SAND.....	.04	H43220	CHAPMAN, FRIO.....	..DO..	6,038	700
AVIATORS.....	.17	H31176	EOCENE.....	EOCENE	1,740	103
BALDWIN.....	.21	H46083	MIOCENE.....	MIOC..	4,060	123
BENAVIDES.....	.09	H41131	GRAVIS, JACKSON.....	EOCENE	4,800	24
BIG CAESAR PFLUGER UPPER.....	.04	H49028	PFLUGER, FRIO.....	OLIG..	7,251	563
BIG CAESAR S, PFLUGER.....	.05	H49029	..DO..	..DO..	7,554	118
BORREGOS WEST ZONE SEG A F-82.....	.04	H43225	FRIO, F-82.....	..DO..	5,870	61
BORREGOS ZONE P S, EAST.....	.05	H43223	FRIO 95.....	..DO..	6,906	4,567
CAYO DEL OSO.....	.09	H55019	FRIO J.....	..DO..	6,644	9
CLARA DRISCOLL.....	.12	H43184	CATAHOULA.....	..DO..	3,807	43
COLORADO.....	.04	H48082	COLORADO.....	EOCENE	3,042	82
CONOCO DRISCOLL.....	.04	H41471	JACKSON.....	..DO..	3,250	607
FLOUR BLUFF.....	.09	H43146	MARGINULINA, FRIO.....	OLIG..	6,633	6
FLOUR BLUFF, EAST MASSIVE, HP.....	.03	H47136	FRIO.....	..DO..	6,745	201
FULTON REACH A-3.....	.03	H42007	FRIO A3.....	..DO..	7,112	6
FULTON REACH A-4-6.....	.03	H42014	FRIO A4-6.....	..DO..	7,148	19
FULTON REACH B-3-8 SD.....	.05	H42006	FRIO B3-8.....	..DO..	7,136	5
FULTON REACH C-1-2-3.....	.04	H43226	FRIO C-1,2,3.....	..DO..	7,137	11
FULTON REACH, NORTH A-2.....	.03	H43227	FRIO A2.....	..DO..	6,752	6
GARCIA MILLER A.....	.02	H49027	MILLER A, FRIO.....	..DO..	4,180	89
GARCIA.....	.00	H42040	FRIO.....	..DO..	3,748	513
GOVERNMENT WELLS, NORTH.....	.14	H33059	GOVERNMENT WELLS.....	EOCENE	2,230	435
GOVERNMENT WELLS, SOUTH.....	.14	H33059	..DO..	..DO..	2,333	307
GOVT. WELLS, NORTH DUFFEN CITY.....	.09	H55026	QUEEN CITY.....	..DO..	5,425	48
HAGIST PANCH QUEEN CITY.....	.09	H46091	..DO..	..DO..	5,194	76
HOFFMAN.....	.14	H41472	JACKSON.....	..DO..	2,650	501
JENNINGS, WEST 7000.....	.09	H59102	CROCKETT, 3000 FT.....	..DO..	3,000	75
JOHNS HOCKLEY.....	.13	H59114	CHEMNOSKEY, JACKSON.....	..DO..	3,543	77
KELSEY DEEP ZONE 17-B-N.....	.06	H49018	FRIO.....	OLIG..	5,527	49
KELSEY DEEP ZONE 18-B-N&C.....	.05	H49021	..DO..	..DO..	5,711	454
KELSEY DEEP ZONE 18-F.....	.03	H43231	FRIO 18F.....	..DO..	5,772	396
KELSEY DEEP ZONE 19-A.....	.02	H43232	FRIO 19A.....	..DO..	5,896	20
KELSEY DEEP ZONE 19-K.....	.05	H43233	FRIO 19K.....	..DO..	5,998	297
KELSEY DEEP ZONE 22-A N.....	.04	H49016	FRIO.....	..DO..	6,268	17
KELSEY M-2.....	.03	H43230	VICKSBURG.....	..DO..	4,955	409
KELSEY, K-2-3&4.....	.02	H43229	FRIO K-1,2,3.....	..DO..	4,723	19
KELSEY, SOUTH 19-S ZONE.....	.02	H49019	FRIO.....	..DO..	5,980	1,108
LA GLORIA ATLEE A.....	.09	H44062	ATLEE A, FRIO.....	..DO..	7,010	10

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, SULFUR CONTENT CATEGORY, AND FIELD	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED						
RAILROAD COMMISSION DISTRICT 4 - CONTINUED						
(0.00-0.50)						
LA GLORIA LOMA BLANCA.....	0.09	848067	LOMA BLANCA, FRIO.....	OLIG..	6,490	7
LA GLORIA, SOUTH ARGUELLEZ.....	0.09	848061	ARGUELLEZ, FRIO.....	..DN..	6,412	12
LA GLORIA, SOUTH CORCORAN.....	0.09	848063	CORCORAN, FRIO.....	..DN..	6,263	16
LA GLORIA, SOUTH HAMMOND.....	0.09	848065	HAMMOND, FRIO.....	..DN..	6,874	6
LOMA NOVA.....	0.10	837178	MCLEARY, JACKSON.....	EOCFNE	2,800	175
LONDON GIN.....	0.14	851047	GRACE, CATAHOULA.....	MIOC..	4,445	427
LOPEZ.....	0.31	859104	JACKSON.....	EOCFNE	2,200	478
MIDWAY MAIN MIDWAY.....	0.18	855028	MIDWAY MAIN, FRIO.....	OLIG..	5,290	19
MIDWAY.....	0.15	837182	FRIO.....	..DN..	5,281	20
MILLS BENNETT E SAND.....	0.09	855024	FRIO E.....	..DN..	4,675	40
MIRANDO CITY.....	0.23	823094	CLAIRBORNE.....	EOCFNE	1,560	41
MUSTANG ISLAND SD 9.....	0.09	856095	MARGINULINA, FRIO 9.....	OLIG..	7,310	139
MUSTANG ISLAND SD 6.....	0.09	856093	FRIO 6.....	..DN..	7,682	72
MUSTANG ISLAND SD 7A.....	0.09	856094	MARGINULINA, FRIO 7A.....	..DN..	7,230	92
MUSTANG ISLAND SD 8.....	0.14	852088	FRIO 8.....	..DN..	7,280	60
OMEPA.....	0.07	867135	MIRANDO + PETTUS.....	EOCFNE	2,750	103
PIEDRE LUMBRE.....	0.14	859106	GOVERNMENT WELLS.....	..DN..	2,015	183
PLYMOUTH MAIN GRETA.....	0.15	859110	GRETA, FRIO.....	OLIG..	4,663	142
PLYMOUTH 6100.....	0.12	855031	FRIO, 6100 FT.....	..DN..	.....	45
PLYMOUTH.....	0.13	855032	FRIO.....	..DN..	.....	497
PLYMOUTH, GRETA STRINGER.....	0.19	859108	GRETA, FRIO.....	..DN..	4,634	119
PORTILLA 7100.....	0.09	856094	FRIO, 7100 FT.....	..DN..	7,142	250
PORTILLA 7300.....	0.09	859109	FRIO, 7300 FT.....	..DN..	7,228	390
PORTILLA 7400.....	0.09	863237	FRIO, 7400 FT.....	..DN..	7,357	1,579
PORTILLA 8100.....	0.12	859090	FRIO, 8100 FT.....	..DN..	8,100	82
PRADO COMBINED ZONES.....	0.03	862010	LOMA NOVA 3, JACKSON.....	EOCFNE	3,710	792
RED FISH RAY ZONE 15.....	0.09	856097	FRIO 15.....	OLIG..	8,274	23
RED FISH RAY ZONE 5A.....	0.09	855035	FRIO 5A.....	..DN..	7,860	29
RED FISH RAY ZONE 5B.....	0.09	855036	FRIO 5B.....	..DN..	7,949	45
RICHARD KING UPPER 5600.....	0.10	844077	FRIO, 5600 FT.....	..DN..	5,638	101
RICHARD KING.....	0.09	844081	BROWNLEE, FRIO.....	..DN..	5,574	69
RINCON VICKSBURG.....	0.09	852092	VICKSBURG 1.....	..DN..	5,322	5
RINCON VICKSBURG.....	0.03	863243	VICKSBURG.....	..DN..	5,556	248
RINCON.....	0.05	863242	FRIO J2.....	..DN..	4,228	508
SAXET CLARKWOOD.....	0.15	836148	OLIGOCENE.....	..DN..	4,200	324
SAXET DEEP.....	0.09	845045	FRIO.....	..DN..	6,914	37
SEELIGSON COMBINED ZONE.....	0.09	855039	FRIO 19C.....	..DN..	6,123	4,765
SEELIGSON ZONE 20A-07.....	0.03	863248	FRIO, 20A-07.....	..DN..	6,380	34
SEELIGSON ZONE 20E.....	0.05	863249	FRIO, 20E.....	..DN..	6,691	84
SEELIGSON ZONE 21A.....	0.09	844119	FRIO, 21-A.....	..DN..	6,573	10
SEELIGSON ZONE 21B.....	0.05	869023	FRIO.....	..DN..	6,893	463
SEELIGSON ZONE 21D-7.....	0.01	869025	..DO.....	..DN..	6,908	830
SEJITA.....	0.09	843154	HOCKLEY, JACKSON.....	EOCFNE	5,777	7
SEVEN SISTERS.....	0.13	839263	EOCFNE.....	..DN..	2,450	310
STRATTON BERTRAM & WARDNER.....	0.09	855043	FRIO.....	OLIG..	6,591	303
STRATTON BERTRAM, EAST.....	0.04	869020	..DO.....	..DN..	6,379	18
STRATTON 4-12, SOUTH.....	0.05	869026	..DO.....	..DN..	6,364	10
STRATTON 5-4.....	0.03	867036	FRIO 54.....	..DN..	6,530	118
STRATTON.....	0.09	855043	FRIO.....	..DN..	6,591	205
SUN.....	0.09	839264	FRIO, 4800 FT.....	..DN..	4,843	1,048
SUN, NORTH C-3-R.....	0.04	859107	FRIO C25.....	..DN..	4,318	47
SUN, NORTH D-1.....	0.09	859113	FRIO D-1A.....	..DN..	4,652	22
SUN, NORTH.....	0.01	869022	JEWEL, FRIO.....	..DN..	5,022	40
TAFT DEEP B-1 SINTON SD.....	0.16	862001	SINTON R1, FRIO.....	..DN..	5,743	151
TAFT DEEP D-2 SAND.....	0.10	862052	FRIO D2.....	..DN..	6,209	16
TAFT, WEST 4000.....	0.20	862002	CATAHOULA.....	..DN..	4,127	18
TIJERINA-CANALES-BLUCHEP 721-R.....	0.12	863251	FRIO 21R.....	..DN..	.....	5,506
TIJERINA-CANALES-BLUCHEP 721R4-W.....	0.14	863252	FRIO 21R-4.....	..DN..	7,169	191
TIJERINA-CANALES-BLUCHEP.....	0.07	863250	FRIO.....	..DN..	7,157	173
VIBORAS 8300.....	0.06	863253	FRIO, 8300 FT.....	..DN..	8,320	188
WHITE POINT EAST 4600 MET.....	0.10	863254	FRIO, 4600 FT.....	..DN..	4,633	81
WHITE POINT EAST 5000.....	0.13	862016	GRETA, 5000 FT, FRIO.....	..DN..	4,998	214
WHITE POINT, E.....	0.10	842036	MIOCENE + OLIGOCENE.....	MIOC..	.....	830
WHITE POINT, FAST HEEP.....	0.07	869024	HEEP, FRIO.....	OLIG..	5,796	238
WILLAMAR.....	0.40	863255	FRIO.....	..DN..	7,851	1,194
WILLAMAR, WEST.....	0.38	863256	..DO.....	..DN..	7,876	941
RAILROAD COMMISSION DISTRICT 5						
(0.00-0.50)						
BUFFALO.....	0.26	839096	WOODBINE.....	CRET..	5,500	100
CORSICANA SHALLOW.....	0.24	856112	WOLF CITY.....	..DN..	1,088	568
HONEST RIDGE.....	0.32	827695	WOODBINE.....	..DN..	2,876	6
KERENS, SOUTH WOODBINE.....	0.27	856115	..DO.....	..DN..	3,380	353
LEONA SUR-CLARKSVILLE.....	0.11	862164	SUB-CLARKSVILLE.....	..DN..	6,892	130
MALAKOFF BACON LIME.....	0.26	856116	BACON, GLEN ROSE.....	..DN..	7,604	13
MALAKOFF, SOUTH BACON LIME.....	0.26	856116	..DO.....	..DN..	7,604	21
MEXIA.....	0.18	862165	WOODBINE.....	..DN..	2,950	130
O S R WOODBINE.....	0.11	867119	..DO.....	..DN..	7,806	182
OAKWOOD DOME WOODBINE.....	0.09	862166	..DO.....	..DN..	5,790	45
OPELIKA.....	0.09	841426	TRINITY.....	..DN..	8,065	16
POWELL.....	0.24	867109	WOODBINE.....	..DN..	2,900	122
REILLY SPRINGS SHACKOVER.....	0.35	869113	SHACKOVER.....	JUR..	.....	65
SULPHUR BLUFF.....	0.44	858095	PALUXY, TRINITY.....	CRET..	4,474	319
TAWAKONI SHACKOVER.....	0.42	869094	SHACKOVER.....	JUR..	9,758	136
TRI CITIES.....	0.22	862132	RODESSA, GLEN ROSE.....	CRET..	7,600	6
WORTHAM.....	0.19	840144	WOODBINE.....	..DO.....	2,943	19
(0.51-1.00)						
BIRTHRIGHT SHACKOVER.....	0.60	869114	SHACKOVER.....	JUR..	.....	294
BRANTLEY JACKSON SHACKOVER.....	0.87	869119	..DO.....	..DN..		694

SEE FOOTNOTES AT END OF TABLE.

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WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, SULFUR CONTENT CATEGORY, AND FIELD	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED						
RAILROAD COMMISSION DISTRICT 5 - CONTINUED						
(0.51-1.00)						
HAM GOSSETT RACON LIMF.....	0.64	H58118	RACON, GLEN ROSE.....	CRET..	6,132	13
HAM GOSSETT EAST.....	.82	H58117	WOODBINE.....	..DO..	3,256	365
HAM GOSSETT LEWISVILLE.....	.71	H58114	..DO.....	..DO..	3,362	9
HAM GOSSETT SE RODESSA.....	.64	H47108	RODESSA, GLEN ROSE.....	..DO..	6,117	10
HAM GOSSETT, SE PALUXY.....	.67	H47116	PALUXY, TRINITY.....	..DO..	4,878	75
REKA 6800.....	.76	H56114	PETTIT, GLEN ROSE.....	..DO..	6,832	8
ROWE & BAKER.....	.89	H39137	WOODBINE.....	..DO..	3,137	6
VAN.....	.80	H42168	..DO.....	..DO..	2,682	12,036
(1.01-2.00)						
VAN SHALLOW.....	1.42	H33121	NACATOCH.....	CRET..	1,251	52
RAILROAD COMMISSION DISTRICT 6 & 6A						
(0.00-0.50)						
BETHANY GLEN ROSE 4300.....	.23	H62078	GLEN ROSE, 4300 FT.....	CRET..	4,401	1,323
BETHANY NORTHEAST 3720.....	.23	H62141	WOOLSWORTH, GLEN ROSE.....	..DO..	3,716	10
BETHANY, NORTHEAST JENKINS.....	.21	H42142	JENKINS, GLEN ROSE.....	..DO..	3,685	197
BETHANY, NORTHEAST 3850 LIMF.....	.21	H58076	MOORINGSPOUT, GLEN ROSE.....	..DO..	3,903	316
BOGGY CREEK.....	.29	H27332	CRETACEOUS.....	..DO..	3,842	36
CAMP HILL.....	.36	H47076	..DO.....	..DO..	570	298
CARRONDALE 9660 SMACKOVER.....	.44	H49101	SMACKOVER.....	JUR..	9,662	272
CARTHAGE SABINE.....	.09	H44102	TRAVIS PEAK, TRINITY.....	CRET..	6,230	12
CARTHAGE 6400 TRAVIS PEAK.....	.09	H47005	..DO.....	..DO..	6,384	47
CARTHAGE.....	.20	H48090	PETTIT, GLEN ROSE.....	..DO..	6,072	60
CAYUGA TRINITY.....	.09	H40033	TRINITY.....	..DO..	7,310	19
CHAPEL HILL.....	.35	H40086	PETTIT, GLEN ROSE.....	..DO..	8,600	74
DANVILLE PETTIT UPPER.....	.41	H47120	..DO.....	..DO..	7,320	146
EAST TEXAS FIELD.....	.26	H47053	WOODBINE.....	..DO..	.....	70,905
FAIRWAY JAMES LIMF.....	.24	H42087	JAMES, GLEN ROSE.....	..DO..	9,880	14,165
FAIRWAY PETTIT.....	.10	H42152	PETTIT, GLEN ROSE.....	..DO..	10,085	18
FRIENDSHIP RODESSA.....	.37	H47113	RODESSA, GLEN ROSE.....	..DO..	6,162	86
FROST SMACKOVER.....	.39	H47112	SMACKOVER.....	JUR..	9,758	534
GOOD OMEN PETTIT.....	.27	H48077	PETTIT, GLEN ROSE.....	CRET..	8,072	89
GOOD OMEN WOODBINE.....	.12	H48078	WOODBINE.....	..DO..	4,020	19
GREEN FOX PETTIT.....	.27	H47106	PETTIT, GLEN ROSE.....	..DO..	6,265	338
HALLSVILLE, NORTHEAST PETTIT.....	.12	H58082	..DO.....	..DO..	6,918	132
HAYNES MITCHELL.....	.38	H56119	MITCHELL, GLEN ROSE.....	..DO..	6,020	580
HENDERSON PETTIT-RUSK CO.....	.22	H47118	PETTIT, GLEN ROSE.....	..DO..	7,377	62
JACKSONVILLE NORTH WOODBINE.....	.13	H56122	WOODBINE.....	..DO..	4,361	65
KILDARE.....	.25	H42053	GLOYD, GLEN ROSE.....	..DO..	5,982	302
LAKE FERRELL PETTIT UP.....	.22	H42153	PETTIT, GLEN ROSE.....	..DO..	7,381	99
LONG LAKE.....	.11	H34017	WOODBINE.....	..DO..	5,247	450
LONGWOOD GOODLAND LIMF.....	.45	H56083	FREDERICKSBURG.....	..DO..	2,365	232
MAPLETON DURST SAND.....	.11	H47107	DURST, WOODBINE.....	..DO..	8,400	28
NAVARRO CROSSING.....	.08	H47105	WOODBINE.....	..DO..	5,802	165
NECHES WOODBINE.....	.13	H59158	LEWISVILLE, WOODBINE.....	..DO..	4,656	3,842
NEW DIANA WOODBINE.....	.37	H47103	WOODBINE.....	..DO..	3,697	774
NEW HOPE HILL SAND.....	.34	H46017	HILL, GLEN ROSE.....	..DO..	7,433	19
NEW HOPE.....	.49	H42158	PITTSBURG.....	..DO..	8,000	232
PANOLA.....	.50	H48084	FREDERICKSBURG.....	..DO..	2,452	49
PITTSBURG.....	.42	H40146	PETTIT, GLEN ROSE.....	..DO..	7,947	703
QUITMAN KIRKLAND.....	.09	H58093	KIRKLAND, RODESSA.....	..DO..	8,320	12
QUITMAN RODESSA.....	.46	H58090	RODESSA, GLEN ROSE.....	..DO..	8,380	27
QUITMAN, SOUTHEAST KIRKLAND.....	.50	H42077	KIRKLAND, RODESSA.....	..DO..	8,412	24
RODESSA GLOYD.....	.30	H40085	GLEN ROSE, TRINITY.....	..DO..	5,986	18
RODESSA JEFFERSON DEES.....	.28	H39138	DEES, GLEN ROSE.....	..DO..	.....	90
SALMON, SUR-CLARKSVILLE.....	.19	H47081	SUR-CLARKSVILLE.....	..DO..	6,050	93
SHILOH PETTIT UPPER.....	.26	H42162	PETTIT, GLEN ROSE.....	..DO..	6,993	382
SLOCUM DAVID-GAIL SUR-CLARKSVILLE.....	.22	H58043	SUR-CLARKSVILLE.....	..DO..	5,664	7
SLOCUM N.SUR-CLARKSVILLE.....	.15	H58044	..DO.....	..DO..	5,667	9
SLOCUM, NORTHWEST WOODBINE C.....	.09	H58050	WOODBINE D.....	..DO..	5,506	136
SLOCUM, NORTHWEST WOODBINE D.....	.23	H58050	..DO.....	..DO..	5,506	62
SLOCUM, WEST WOODBINE R.....	.09	H58045	WOODBINE R.....	..DO..	5,734	7
SLOCUM, WEST WOODBINE.....	.09	H58046	WOODBINE.....	..DO..	5,655	168
TATUM LOWER PETTIT.....	.14	H42084	PETTIT, GLEN ROSE.....	..DO..	6,782	95
VICKIE LYNNE RODESSA.....	.20	H47117	RODESSA, GLEN ROSE.....	..DO..	6,057	56
WASKOM REARDEN SAND.....	.17	H54121	BEARDEN, TRAVIS PEAK.....	..DO..	4,091	9
WASKOM HURLEY-ORR.....	.11	H54112	HURLEY, TRAVIS PEAK.....	..DO..	6,173	34
WASKOM TUCKER.....	.16	H58092	TUCKER, TRAVIS PEAK.....	..DO..	6,242	51
WASKOM.....	.22	H54119	TRAVIS PEAK, TRINITY.....	..DO..	6,193	73
WOODLAWN.....	.27	H56126	PETTIT, GLEN ROSE.....	..DO..	6,654	47
WRIGHT MOUNTAIN LOWER PETTIT.....	.25	H54116	..DO.....	..DO..	7,996	218
(0.51-1.00)						
NEW HOPE RACON LM.....	.67	H62159	PALUXY, TRINITY.....	CRET..	4,568	58
PINE MILLS PALUXY.....	.93	H58087	TRINITY.....	..DO..	7,841	41
QUITMAN.....	.92	H54109	PALUXY, TRINITY.....	..DO..	6,134	1,981
(1.01-2.00)						
CAYUGA.....	1.80	H34018	WOODBINE.....	CRET..	4,078	293
HITTS LAKE PALUXY.....	1.98	H54113	PALUXY, TRINITY.....	..DO..	7,174	544
MANZIEF.....	1.44	H43079	..DO.....	..DO..	6,243	730
MERIGALE-PAUL.....	1.91	H51044	SUR-CLARKSVILLE.....	..DO..	4,428	80
NECHES SUR-CLARKSVILLE.....	1.17	H56120	..DO.....	..DO..	4,572	21
QUITMAN EAGLE FORD.....	1.93	H41084	EAGLE FORD.....	..DO..	4,260	179
SHAMBURGER LAKE PALUXY.....	1.28	H42161	PALUXY, TRINITY.....	..DO..	7,150	1,793

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS OF SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED						
RAILROAD COMMISSION DISTRICT A & 6A-CONTINUED						
(>2.00)						
ALBA.....	3.69	H47115	SUR-CLARKSVILLE.....	CRET..	3,973	142
COKE SUB-CLARKSVILLE.....	3.90	H42144	..DO.....	..DO..	4,030	121
COKE.....	2.29	H42142	PALUXY, TRINITY.....	..DO..	6,262	727
CONCORD DOME.....	3.14	H42149	WOODRINE.....	..DO..	4,440	78
FOREST HILL HARRIS.....	3.35	H47110	HARRIS, EAGLE FORD.....	..DO..	4,840	72
HAWKINS.....	2.41	H48091	WOODRINE.....	..DO..	4,508	29,001
MIDWAY LAKE.....	3.44	H47114	EAGLE FORD.....	..DO..	4,495	210
PEWITT RANCH.....	3.34	H42159	PALUXY, TRINITY.....	..DO..	4,568	423
PINE MILLS ORR.....	2.47	H58085	ORR, EAGLE FORD.....	..DO..	4,764	8
PINE MILLS SURCLARKSVILLE.....	2.44	H46123	SUR-CLARKSVILLE.....	..DO..	4,760	121
PINE MILLS WOODRINE WAGONER.....	2.44	H58119	WOODRINE.....	..DO..	5,424	91
PINE MILLS WOODRINE.....	2.79	H56124	..DO.....	..DO..	5,398	98
QUITMAN SUB-CLARKSVILLE.....	3.64	H44107	SUR-CLARKSVILLE.....	..DO..	3,974	157
QUITMAN, SOUTHEAST RODESSA.....	2.39	H42074	RODESSA, GLEN ROSE.....	..DO..	8,432	142
SAND FLAT.....	2.31	H48091	PALUXY, TRINITY.....	..DO..	7,096	1,329
TALCO.....	3.00	H54106	..DO.....	..DO..	4,258	4,430
TRIX-LIZ WOODRINE A.....	2.46	H42080	WOODRINE A.....	..DO..	3,376	21
TRIX-LIZ WOODRINE B.....	2.79	H42083	WOODRINE B.....	..DO..	3,498	18
TRIX-LIZ WOODRINE D.....	2.47	H42081	WOODRINE D.....	..DO..	3,794	203
RAILROAD COMMISSION DISTRICT 7P						
(0.00-0.50)						
AVOCA.....	.26	H38149	PALO PINTO, CANYON.....	PENN..	3,233	85
BOX PALO PINTO.....	.12	H59074	..DO.....	..DO..	3,259	145
BOYD CONGLOMERATE.....	.30	H66004	REND.....	..DO..	6,063	875
CLAYTONVILLE CANYON LIMF.....	.10	H65048	CANYON REEF.....	..DO..	5,623	2,473
COKEP.....	.09	H42149	MORRIS.....	..DO..	3,032	14
COOK RANCH.....	.30	H43036	COOK.....	..DO..	.....	331
CORSICA BEND CONGLOMERATE.....	.33	H59045	REND.....	..DO..	5,957	4
DESEMONA.....	.14	H00700	PENNSYLVANIAN.....	..DO..	2,200	6
DORA, NORTH CAMBRIAN.....	.10	H66010	CAMBRIAN.....	CAMR..	5,937	317
DORA, NORTH ELLENBURGER.....	.11	H46009	ELLENBURGER.....	ORD..	6,124	107
DORA, NORTH ODOM.....	.17	H54094	CAMBRIAN.....	CAMR..	6,070	18
E. A. CAMBRIAN SAND.....	.09	H43035	..DO.....	..DO..	6,200	8
E. V. B. PALO PINTO.....	.11	H47139	PALO PINTO, CANYON.....	PENN..	5,682	186
ESKOTA.....	.36	H59095	NOODLE CREEK.....	..DO..	2,582	46
FLOWERS CANYON.....	.20	H66007	CANYON.....	..DO..	4,246	1,004
FLOWERS, WEST CANYON.....	.20	H55007	..DO.....	..DO..	4,284	240
FRANKIRK CANYON.....	.25	H48031	..DO.....	..DO..	4,572	58
FRANKIRK, EAST CANYON.....	.21	H48030	..DO.....	..DO..	6,042	34
FRANKIRK, NORTH CANYON REEF.....	.25	H48032	..DO.....	..DO..	4,839	221
GLEN COVE JENNINGS.....	.20	H55005	JENNINGS.....	..DO..	3,355	21
GOLDSHORO GARDNER.....	.20	H63037	GARDNER, STRAWN.....	..DO..	3,993	128
GRIFFIN.....	.24	H46160	PALO PINTO, CANYON.....	..DO..	3,208	115
GROUP 4000.....	.29	H59094	CISCO, 4000 FT.....	..DO..	4,060	88
GUEST CANYON SAND.....	.21	H43038	CANYON.....	..DO..	4,552	302
HAMLIN, EAST.....	.19	H59070	SWASTIKA.....	..DO..	3,133	435
HYLTON, NORTHWEST CAMBRIAN.....	.15	H59093	CAMBRIAN.....	CAMR..	5,837	135
HYLTON, NORTHWEST CANYON REEF.....	.31	H59071	CANYON REEF.....	PENN..	4,502	70
HYLTON, NORTHWEST GOEN.....	.13	H59068	GOEN.....	..DO..	5,396	136
HYLTON, NORTHWEST.....	.09	H59074	STRAWN.....	..DO..	5,406	82
JULIANA NORTH BURSON.....	.36	H43040	STRAWN, STRAWN.....	..DO..	4,983	183
JULIANA.....	.36	H43039	STRAWN.....	..DO..	4,965	179
KATZ 5100.....	.46	H46148	STRAWN, 5100 FT.....	..DO..	5,061	246
KATZ.....	.34	H43041	STRAWN.....	..DO..	4,934	819
LAKE TRAMMEL, SOUTH CANYON.....	.18	H45041	CANYON.....	..DO..	5,257	22
LAKE TRAMMEL, WEST CANYON.....	.32	H46042	..DO.....	..DO..	5,221	323
LEWIS-STEFFENS.....	.35	H59072	..DO.....	..DO..	.....	25
NENA LUCIA STRAWN REEF.....	.07	H45078	STRAWN.....	PENN..	6,810	1,083
NEWMAN SWASTIKA.....	.16	H48022	SWASTIKA.....	..DO..	.....	94
NOODLE NORTH LOWER CISCO.....	.19	H59083	CISCO.....	..DO..	3,835	7
OBRIEN STRAWN.....	.41	H59091	STRAWN.....	..DO..	4,805	219
OCHO JUAN CANYON REEF.....	.15	H45083	REEF.....	..DO..	6,041	226
OLD GLORY STRAWN.....	.35	H66006	STRAWN.....	..DO..	5,034	36
OLD GLORY.....	.29	H66005	REND.....	..DO..	5,793	285
PARDUE CANYON.....	.20	H55009	CANYON.....	..DO..	4,419	52
PARDUE ELLENBURGER.....	.29	H55010	ELLENBURGER.....	ORD..	5,948	35
PARDUE SWASTIKA.....	.09	H55011	SWASTIKA.....	PENN..	3,773	204
RAVEN CREEK CANYON SAND.....	.23	H59084	CANYON.....	..DO..	4,252	6
RAVEN CREEK STRAWN.....	.19	H59081	STRAWN.....	..DO..	4,881	6
REDDIN.....	.27	H43005	FLIPPEN.....	PERM..	2,249	35
ROUGH DRAW NOODLE CREEK.....	.26	H57017	NOODLE CREEK.....	PENN..	3,750	412
ROUND TOP CANYON SAND.....	.24	H59075	CANYON.....	..DO..	4,556	31
ROUND TOP PALO PINTO REEF.....	.19	H46110	CANYON REEF.....	..DO..	.....	1,525
ROUND TOP SWASTIKA.....	.26	H51049	SWASTIKA.....	..DO..	3,990	29
ROWAN & HOPE STRAWN REEF.....	.10	H45087	PEEF.....	..DO..	6,040	201
ROYSTON CANYON SAND.....	.13	H31125	PENNSYLVANIAN.....	..DO..	3,800	9
ROYSTON.....	.27	H31124	..DO.....	..DO..	3,238	50
SAYLES.....	.31	H43042	PERMIAN.....	PERM..	1,939	97
SHAMROCK CANYON REEF.....	.11	H46112	CANYON REEF.....	PENN..	5,245	112
SOJOURNER BURSEN.....	.18	H55012	HURSON, STRAWN.....	..DO..	4,753	172
SOJOURNER 4600.....	.22	H55014	PENNSYLVANIAN, 4600 FT.....	..DO..	4,600	17
SOJOURNER.....	.17	H55015	SOJOURNER, STRAWN.....	..DO..	5,285	62
SWEETWATER CANYON.....	.12	H59092	CANYON.....	..DO..	5,088	67
THREE ACES FLIPPEN.....	.09	H48034	FLIPPEN.....	PERM..	1,685	52
TOLAR SWASTIKA.....	.06	H59089	SWASTIKA.....	PENN..	3,422	154
TYE SOUTHWEST DOTHAN.....	.17	H31121	PENNSYLVANIAN.....	..DO..	2,411	36
WARNER LOWER GARDNER.....	.09	H59076	GARDNER, STRAWN.....	..DO..	3,056	12
WEINERT, WEST STRAWN.....	.39	H59087	STRAWN.....	..DO..	4,831	62
WHITE FLAT STRAWN.....	.09	H55017	..DO.....	..DO..	5,046	60
WHITE FLAT.....	.12	H55016	WHITE FLAT, CADD0.....	..DO..	5,399	450

SEE FOOTNOTES AT END OF TABLE.

TARIF 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, SULFUR CONTENT CATEGORY, AND FIELD	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED						
RAILROAD COMMISSION DISTRICT 7A - CONTINUED						
(0.00-0.50)						
WHITLEY JENNINGS.....	0.23	R67137	JENNINGS.....	PENN..	3,651	48
WIMBERLY GUNSIGHT UNIT.....	.17	R48030	HOPE.....	..DO..	2,392	17
RAILROAD COMMISSION DISTRICT 7C						
(0.00-0.50)						
AMACKER-TIPPETT ELLENBURGER.....	.11	R5612R	ELLENBURGER.....	ORD...	.....	899
AMACKER-TIPPETT FUSSELMAN.....	.09	R59103	FUSSELMAN.....	SIL...	.....	15
AMACKER-TIPPETT SE 10,600 REED.....	.08	R69012	REED, 10,600 FT.....	PENN...	.....	197
AMACKER-TIPPETT STRAWN.....	.09	R58103	STRAWN.....	..DO..	9,870	56
AMACKER-TIPPETT WOLF CAMP.....	.23	R42133	WOLF CAMP.....	PERM...	8,507	94
BARNHART.....	.04	R43012	ELLENBURGER.....	ORD...	9,050	43
BENEDUM.....	.07	R6213H	SPRABERRY.....	PERM...	7,423	382
RIG LAKE.....	.14	H50063	PERMIAN.....	..DO..	4,200	444
BRONTE CAMBRIAN.....	.11	R58064	CAMBRIAN.....	CAMB...	.....	338
BRONTE CAPPS LIME.....	.27	R58062	CAPPS.....	PENN...	.....	55
BRONTE 4800.....	.23	H58063	GOEN.....	..DO..	.....	34
BRONTE.....	.10	R58061	PALO PINTO CANYON.....	..DO..	.....	48
CALVIN DEAN.....	.04	R47006	DEAN.....	PERM...	7,423	1,496
CANAR STRAWN-OIL.....	.78	R47140	STRAWN.....	PENN...	4,304	157
CREE-SYKES UPPER GARDNER.....	.17	R63006	GARDNER, STRAWN.....	..DO..	3,908	5A
ELKHORN ELLENBURGER.....	.25	R5406R	ELLENBURGER.....	ORD...	7,283	101
FENNFELL CISCO REEF.....	.09	R46109	CISCO REEF.....	PENN...	2,905	13
FORT CHADBOURNE GARDNER.....	.24	H52014	SPRABERRY.....	PERM...	.....	27
FORT CHADBOURNE.....	.09	R43004	ODOM, STRAWN.....	PENN...	5,350	533
H-J STRAWN LOWER.....	.16	R58106	STRAWN.....	..DO..	5,387	20
H-J STRAWN.....	.13	R43002	..DO..	..DO..	5,502	1,210
HULLDALE PENN REEF.....	.31	H52075	STRAWN REEF.....	..DO..	5,700	543
I. A. B. MENELLE PENN.....	.07	R65082	CANYON REEF.....	..DO..	5,440	878
I. A. R. NE 5150 PENN.....	.05	R43009	PENNSYLVANIAN, 5150 FT.....	..DO..	5,150	122
JAMESON STRAWN.....	.07	R65084	STRAWN.....	..DO..	5,935	611
JAMESON.....	.07	R65086	..DO..	..DO..	6,154	796
KING MOUNTAIN DEVONIAN.....	.09	R51102	DEVONIAN.....	DEV...	9,950	18
KING MOUNTAIN ELLENBURGER.....	.19	R58101	ELLENBURGER.....	ORD...	11,488	149
NEVA, WEST STRAWN.....	.20	R58096	STRAWN.....	PENN...	6,200	200
NORTON, WEST PALO PINTO.....	.09	R47086	PALO PINTO CANYON.....	..DO..	4,002	70
PEGASUS ELLENBURGER.....	.09	R42135	ELLENBURGER.....	ORD...	9,946	2,974
PEGASUS FUSSELMAN.....	.01	R62137	FUSSELMAN.....	SIL...	12,050	100
PEGASUS PENNSYLVANIAN.....	.09	R54173	PENNSYLVANIAN.....	PENN...	10,400	291
PEGASUS SPRABERRY.....	.17	R62060	SPRABERRY.....	PERM...	7,600	337
SPRABERRY TREND AREA CLEARFORK.....	.12	R65009	..DO..	..DO..	6,690	41
SPRABERRY TREND AREA.....	.16	R4500R	..DO..	..DO..	7,595	5,734
SUSAN PEAK CISCO CANYON.....	.15	H51080	CISCO CANYON.....	PENN...	4,385	18
SUSAN PEAK MAIN STRAWN.....	.41	R63007	STRAWN, MAIN.....	..DO..	4,724	341
SUSAN PEAK, EAST STRAWN.....	.30	R51081	STRAWN MAIN.....	..DO..	4,820	9
SUSAN PEAK, NORTH CANYON.....	.05	R63001	CANYON.....	..DO..	4,231	5
TIPPETT, WEST HUECO.....	.31	R69010	HUECO.....	PERM...	.....	124
TODD DEEP CRINOIDAL.....	.18	R46127	CRINOIDAL, STRAWN.....	PENN...	.....	1,587
TODD DEEP ELLENBURGER.....	.26	R43013	ELLENBURGER.....	ORD...	6,232	408
WILSHIRE ELLENBURGER.....	.07	H63010	..DO..	..DO..	11,995	1,323
WORLD, WEST STRAWN.....	.17	R54105	STRAWN.....	PENN...	8,064	113
(0.51-1.00)						
GRAYSON.....	.58	R3115R	PERMIAN.....	PERM...	3,135	7
PEGASUS SAN ANDRES.....	.56	R62061	SAN ANDRES.....	..DO..	5,600	328
TIPPETT LOWER LEONARD.....	.73	R49009	LEONARD.....	..DO..	.....	444
TIPPETT, WEST WOLF CAMP, LO.....	.73	R43017	WOLF CAMP.....	..DO..	6,190	133
WORLD.....	.73	R31164	PERMIAN.....	..DO..	2,644	568
(1.01-2.00)						
CROCKETT.....	1.68	H38153	PERMIAN.....	PERM...	1,463	84
FARMER SAN ANDRES.....	1.71	R58111	SAN ANDRES.....	..DO..	2,498	160
NOELKE.....	1.18	R40007	YATES.....	..DO..	1,036	9
SHANNON SAN ANDRES.....	1.43	R58107	SAN ANDRES.....	..DO..	2,373	238
TIPPETT.....	1.42	H69011	WOLF CAMP.....	..DO..	.....	47
(>2.00)						
MCCAMFY.....	2.26	H54176	GRAYBURG.....	PERM...	2,100	949
OLSON.....	2.61	R58112	SAN ANDRES.....	..DO..	1,924	304
PODMAN-NOEL GRAYBURG.....	2.73	R54175	GRAYBURG.....	..DO..	1,700	11
VAUGHN.....	2.74	R51078	..DO..	..DO..	1,394	95
WYATT.....	3.06	R40010	SAN ANDRES.....	..DO..	1,217	11
RAILROAD COMMISSION DISTRICT 8						
(0.00-0.50)						
ABELL DEVONIAN.....	.46	R61172	DEVONIAN.....	DEV...	5,280	351
ABELL SILURIAN MONTOYA.....	.50	R54133	FUSSELMAN + MONTOYA.....	SIL...	4,888	341
ABELL.....	.33	H46095	ELLENBURGER.....	ORD...	5,755	52
ABELL, EAST MCKEE.....	.17	R63180	MCKEE, SIMPSON.....	..DO..	5,398	74
ABELL, EAST WADDELL WEST SEGMENT.....	.14	R63181	WADDELL.....	..DO..	5,844	28
ANECTOR ELLENBURGER.....	.23	R63075	ELLENBURGER.....	..DO..	8,545	5,457
ANDREWS NORTH DEVONIAN.....	.30	R61150	DEVONIAN.....	DEV...	10,462	244
ANDREWS NORTH ELLENBURGER.....	.11	R41151	ELLENBURGER.....	ORD...	12,482	1,706
ANDREWS PENNSYLVANIAN.....	.11	R54062	PENNSYLVANIAN.....	PENN...	9,220	283
ANDREWS, NORTH STRAWN.....	.09	R41152	STRAWN.....	..DO..	9,344	124
ANDREWS, SOUTH DEVONIAN.....	.09	R59037	DEVONIAN.....	DEV...	11,075	371
ANDREWS, SOUTH WOLF CAMP.....	.10	R59064	WOLF CAMP.....	PERM...	9,183	446

SEE FOOTNOTES AT END OF TARLF.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS RAILROAD COMMISSION DISTRICT A - CONTINUED (0.00-0.50)						
APCO WARNER.....	0.27	H40015	ELLENBURGER.....	ORD...	4,554	258
ARENOSO STRAWN DETRITUS.....	.34	H67015	STRAWN DETRITUS.....	PENN...	8,620	1,303
BAKKE DEVONIAN.....	.16	H59060	DEVONIAN.....	DEV...	10,500	576
BAKKE ELLENBURGER.....	.21	H58150	ELLENBURGER.....	ORD...	12,400	960
BAKKE WOLFCAMP.....	.41	H59026	WOLFCAMP.....	PERM...	8,500	834
BEDFORD ELLENBURGER.....	.09	H46084	ELLENBURGER.....	ORD...	11,416	116
BIG SPRING FUSSELMAN.....	.08	H43128	FUSSELMAN.....	SIL...	.....	245
BLOCK 12 EAST ELLENBURGER.....	.23	H59009	ELLENBURGER.....	ORD...	10,117	176
BLOCK 12 ELLENBURGER.....	.18	H59065	..DO.....	..DO...	12,800	18
BLOCK 31 DEVONIAN.....	.18	H64100	DEVONIAN.....	DEV...	7,850	5,266
BLOCK 31 ELLENBURGER.....	.14	H46099	ELLENBURGER.....	ORD...	10,250	41
BLOCK 9 ELLENBURGER.....	.07	H43076	..DO.....	..DO...	12,505	25
BREEDLOVE SPRABERRY.....	.16	H43080	SPRABERRY.....	PERM...	7,937	32
BREEDLOVE.....	.32	H61026	DEVONIAN.....	DEV...	12,110	1,213
C-BAR SILURIAN.....	.26	H59019	SILURIAN.....	SIL...	8,300	7
CHANCELLOR DELAWARE.....	.22	H43065	DELAWARE.....	PFRM...	5,072	7
CORDOVA LAKE, NORTH DEVONIAN.....	.23	H49037	DEVONIAN.....	DEV...	5,655	41
CROSSETT DEVONIAN.....	.09	H46102	..DO.....	..DO...	5,374	566
CROSSETT, N. 3450 CLEARFORK.....	.28	H63187	CLEAR FORK.....	PERM...	3,530	20
DEEP ROCK ELLENBURGER.....	.21	H56042	ELLENBURGER.....	ORD...	12,252	539
DOLLARHIDE CLEARFORK.....	.40	H63089	CLEAR FORK.....	PERM...	6,180	1,125
DOLLARHIDE DEVONIAN.....	.45	H43090	DEVONIAN.....	DEV...	7,728	3,898
DOLLARHIDE ELLENBURGER.....	.23	H52051	ELLENBURGER.....	ORD...	10,115	986
DOLLARHIDE SILURIAN.....	.36	H52050	SILURIAN.....	SIL...	8,576	1,205
DOLLARHIDE, EAST DEVONIAN.....	.22	H49036	DEVONIAN.....	DEV...	10,232	201
DOLLARHIDE, EAST ELLENBURGER.....	.10	H42018	ELLENBURGER.....	ORD...	12,448	123
DORA ROBERTS ELLENBURGER.....	.09	H56037	..DO.....	..DO...	12,835	3,046
DUNE WOLFCAMP.....	.34	H63095	WOLFCAMP.....	PERM...	7,662	155
EL MAR DELAWARE.....	.13	H61153	DELAWARE.....	..DO...	4,490	612
EMBAR DEVONIAN.....	.12	H59004	DEVONIAN.....	DEV...	9,346	19
EMBAR ELLENBURGER.....	.18	H43064	ELLENBURGER.....	ORD...	7,805	173
EMBAR PERMIAN.....	.41	H41154	PERMIAN.....	PERM...	6,203	104
EMBAR 5600.....	.49	H59044	CLEAR FORK.....	..DO...	5,606	111
EMMA DEVONIAN.....	.06	H61155	DEVONIAN.....	DEV...	10,503	124
EMMA ELLENBURGER.....	.03	H61156	ELLENBURGER.....	ORD...	12,340	1,082
EMMA FUSSELMAN.....	.04	H41157	FUSSELMAN.....	SIL...	11,549	71
EMMA STRAWN.....	.10	H63096	STRAWN.....	PENN...	9,184	10
EMMA.....	.09	H66043	GRAYBURG + SAN ANDRES.....	PERM...	4,200	436
FASKEN ELLENBURGER.....	.02	H61161	ELLENBURGER.....	ORD...	12,604	39
FASKEN WOLFCAMP.....	.09	H41162	WOLFCAMP.....	PERM...	8,378	215
FASKEN, SOUTH WOLFCAMP.....	.10	H41163	..DO.....	..DO...	8,475	12
FT STOCKTON.....	.42	H54022	YATES.....	..DO...	2,830	602
FULLERTON SOUTH, ELLENBURGER.....	.14	H62020	ELLENBURGER.....	ORD...	10,354	60
FULLERTON 8500.....	.26	H43065	DEVONIAN.....	DEV...	8,580	1,179
FULLERTON.....	.47	H62019	CLEAR FORK.....	PERM...	6,970	4,599
FULLERTON, SOUTH WOLFCAMP.....	.17	H62021	WOLFCAMP.....	..DO...	8,062	104
GERALDINE FORD.....	.10	H41164	DELAWARE.....	..DO...	2,584	570
GLASS SPRABERRY.....	.06	H65090	SPRABERRY.....	..DO...	7,465	34
GOLDSMITH CLEARFORK.....	.48	H63100	CLEAR FORK.....	..DO...	6,272	1,633
GOLDSMITH DEVONIAN.....	.16	H62022	DEVONIAN.....	DEV...	7,985	614
GOLDSMITH EAST MOLT.....	.15	H58144	HOLT.....	PERM...	5,000	122
GOLDSMITH ELLENBURGER.....	.12	H42023	ELLENBURGER.....	ORD...	9,488	18
GOLDSMITH 5600.....	.46	H63099	CLEAR FORK, 5600 FT.....	PERM...	5,580	6,638
GOLDSMITH, WEST ELLENBURGER.....	.32	H59052	ELLENBURGER.....	ORD...	9,450	175
GRICE DELAWARE.....	.11	H63192	DELAWARE.....	PERM...	4,525	228
HARPER DEVONIAN.....	.09	H66064	DEVONIAN.....	DEV...	9,738	552
HARPER ELLENBURGER.....	.10	H66066	ELLENBURGER.....	ORD...	12,222	1,705
HARPER FUSSELMAN.....	.10	H66068	FUSSELMAN.....	SIL...	10,904	11
HARPER STRAWN.....	.16	H66071	STRAWN.....	PENN...	9,087	14
HARPER, SOUTHEAST ELLENBURGER.....	.10	H49033	ELLENBURGER.....	ORD...	12,505	82
HEADLEE ELLENBURGER.....	.09	H59010	..DO.....	..DO...	13,106	1,330
HEADLEE, NORTH DEVONIAN.....	.03	H63044	DEVONIAN.....	DEV...	12,260	173
HSA PENN.....	.13	H43103	PENNSYLVANIAN.....	PENN...	7,822	117
HUTCH DEVONIAN.....	.19	H59014	DEVONIAN.....	DEV...	12,509	1,835
INEZ ELLENBURGER.....	.01	H43105	ELLENBURGER.....	ORD...	12,505	825
INEZ FUSSELMAN.....	.03	H69030	FUSSELMAN.....	SIL...	11,743	92
JAMESON, NORTH STRAWN.....	.06	H45085	STRAWN.....	PENN...	5,984	20
JORDAN CONNELL.....	.15	H63170	CONNELL, OIL CREEK.....	ORD...	8,830	63
JORDAN ELLENBURGER.....	.28	H52058	ELLENBURGER.....	..DO...	8,898	1,168
KERMITE ELLENBURGER.....	.19	H46091	..DO.....	..DO...	10,460	49
KEYSTONE ELLENBURGER.....	.13	H59177	..DO.....	..DO...	9,879	4,583
LEA CONNELL.....	.24	H54144	CONNELL, OIL CREEK.....	..DO...	8,180	89
LEA ELLENBURGER.....	.29	H54143	ELLENBURGER.....	..DO...	8,275	1,407
LEA MCKEE.....	.20	H66075	MCKEE, SIMPSON.....	..DO...	7,490	29
LEA SAN ANDRES.....	.49	H69039	SAN ANDRES.....	PERM...	3,075	181
LOWE SILURIAN.....	.02	H67004	SILURIAN.....	SIL...	12,780	835
LUTHER, SE SILURIAN-DEVONIAN.....	.14	H56064	DEVONIAN + SILURIAN.....	DEV...	9,855	594
MAGUTEX DEVONIAN.....	.30	H54146	DEVONIAN.....	..DO...	.....	1,792
MAGUTEX ELLENBURGER.....	.12	H54147	ELLENBURGER.....	ORD...	.....	1,090
MARTIN ELLENBURGER.....	.28	H46111	..DO.....	..DO...	8,840	916
MARTIN MCKEE.....	.16	H46109	MCKEE, SIMPSON.....	..DO...	8,836	58
MASON.....	.12	H43142	DELAWARE.....	PERM...	3,901	19
MASON, NORTH DELAWARE.....	.14	H59045	..DO.....	..DO...	4,055	90
MCFARLAND ELLENBURGER.....	.10	H63112	ELLENBURGER.....	ORD...	13,898	357
MCFARLAND PENNSYLVANIAN.....	.10	H61143	PENNSYLVANIAN.....	PENN...	10,402	221
MCFARLAND WOLFCAMP.....	.11	H61135	WOLFCAMP.....	PERM...	9,032	214
MCKEE LOWER CLEARFORK.....	.22	H46097	MCKEE, SIMPSON.....	ORD...	6,078	17
MEANS, EAST STRAWN.....	.10	H61142	STRAWN.....	PENN...	10,608	107
METZ, EAST ELLENBURGER.....	.22	H63072	ELLENBURGER.....	ORD...	9,128	165
MIDLAND FARMS ELLENBURGER.....	.03	H65048	..DO.....	..DO...	12,514	2,024
MIDLAND FARMS FUSSELMAN.....	.05	H61174	FUSSELMAN.....	SIL...	.....	261
MIDLAND FARMS NORTHEAST.....	.09	H59063	ELLENBURGER.....	ORD...	12,540	54
MIDLAND FARMS WOLFCAMP.....	.13	H56033	WOLFCAMP.....	PERM...	8,540	373

SEE FOOTNOTES AT END OF TABLE.

TARIF 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE ^{3/}	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED						
RAILROAD COMMISSION DISTRICT A - CONTINUED						
(0.00-0.50)						
MIDLAND FARMS, WEST DEVONIAN.....	0.06	865046	DEVONIAN.....	DEV...	10,980	15
MIDLAND, SOUTHWEST FUSSELMAN.....	.01	866078	FUSSELMAN.....	SIL...	12,504	23
MILLER BLOCK A-29 PENN.....	.10	867150	PENNSYLVANIAN.....	PENN...	7,554	17
MONAHANS ELLENBURGER.....	.16	866079	ELLENBURGER.....	ORD...	10,081	13
MONAHANS, NORTH ELLENBURGER.....	.08	861013	..DO.....	..DO...	12,046	164
MONROF.....	.14	832208	DELAWARE.....	PERM...	.....	208
NELSON ELLENBURGER.....	.15	866089	ELLENBURGER.....	ORD...	10,606	60
NOLLEY WOLFCAMP.....	.38	858145	WOLFCAMP.....	PERM...	9,227	889
OCEANIC PENNSYLVANIAN.....	.15	854149	REEF.....	PENN...	8,165	1,023
OLDS DELAWARE.....	.15	866051	RELL CANYON.....	PERM...	3,013	26
PARKS PENNSYLVANIAN.....	.06	863116	PENNSYLVANIAN.....	PENN...	10,485	414
PARKS SPRABERRY.....	.28	865022	SPRABERRY.....	PERM...	7,807	15
PENWELL ELLENBURGER.....	.24	866098	ELLENBURGER.....	ORD...	8,888	733
QUITO DELAWARE SAND.....	.15	866003	DELAWARE.....	PERM...	4,825	30
SAND HILLS ELLENBURGER.....	.22	837039	ELLENBURGER.....	ORD...	5,939	19
SCOTT.....	.18	866050	RELL CANYON.....	PERM...	4,922	33
SHAFTER LAKE ELLENBURGER.....	.27	851055	ELLENBURGER.....	ORD...	11,713	37
SHAFTER LAKE SAN ANDRES.....	.25	856034	SAN ANDRES.....	PERM...	4,482	1,572
SHAFTER LAKE WOLFCAMP.....	.37	854154	WOLFCAMP.....	..DO...	8,371	674
SHEFFIELD ELLENBURGER.....	.12	863176	ELLENBURGER.....	ORD...	9,705	23
SHIPLEY SILURIAN.....	.20	841266	SILURIAN.....	SIL...	7,010	6
SPRABERRY TREND.....	.12	865009	SPRABERRY.....	PERM...	6,690	12,332
SULLIVAN DELAWARE.....	.11	866052	RELL CANYON.....	..DO...	2,688	31
T X L DEVONIAN.....	.50	866080	DEVONIAN.....	DEV...	8,050	275
T X L ELLENBURGER.....	.23	863046	ELLENBURGER.....	ORD...	9,359	1,858
T X L MCKEE.....	.10	866081	MCKEE, SIMPSON.....	..DO...	9,086	17
TRIPLE N DEVONIAN.....	.08	861168	DEVONIAN.....	DEV...	10,648	14
TRIPLE N PENN UPPER.....	.16	869032	PENNSYLVANIAN.....	PENN...	8,912	606
TUNSTALL.....	.15	851064	DELAWARE MOUNTAIN.....	PERM...	3,306	88
TUNSTALL, EAST DELAWARE.....	.12	866001	RELL CANYON.....	..DO...	3,660	100
TWOFEDS DELAWARE.....	.22	859058	DELAWARE.....	..DO...	4,895	240
UNION.....	.49	859012	WICHITA.....	..DO...	7,934	247
UNIVERSITY BLOCK 13 DEVONIAN.....	.23	863126	DEVONIAN.....	DEV...	.....	17
UNIVERSITY BLOCK 13 ELLENBURGER.....	.29	863127	ELLENBURGER.....	ORD...	.....	959
UNIVERSITY BLOCK 9 DEVONIAN.....	.04	856054	DEVONIAN.....	DEV...	10,450	471
UNIVERSITY BLOCK 9 PENN.....	.12	856060	PENNSYLVANIAN.....	PENN...	8,956	378
UNIVERSITY WADDELL DEVONIAN.....	.13	863163	DEVONIAN.....	DEV...	8,499	2,235
UNIVERSITY WADDELL ELLENBURGER.....	.13	851061	ELLENBURGER.....	ORD...	10,790	63
VEALMOOR.....	.09	850031	CANYON REEF.....	PENN...	7,934	1,228
VEALMOORE, EAST.....	.24	852066	..DO.....	..DO...	7,450	2,020
VIREY ELLENBURGER.....	.09	856048	ELLENBURGER.....	ORD...	13,276	1,227
VIREY FUSSELMAN.....	.09	856046	FUSSELMAN.....	SIL...	16,250	20
VIREY STRAWN.....	.09	856047	STRAWN.....	PENN...	8,720	8
WAMA DELAWARE.....	.25	866057	DELAWARE.....	PERM...	4,948	45
WAR SAN ELLENBURGER.....	.09	856055	ELLENBURGER.....	ORD...	13,070	379
WEMAC ELLENBURGER.....	.09	859042	..DO.....	..DO...	13,306	31
WHEAT.....	.21	826180	PERMIAN.....	PERM...	4,221	226
WHEELER DEVONIAN.....	.19	866104	DEVONIAN.....	DEV...	8,347	7
WHEELER ELLENBURGER.....	.31	866103	ELLENBURGER.....	ORD...	10,559	40
YARRBROUGH & ALLEN CONNELL.....	.18	866086	CONNELL, OIL CREEK.....	..DO...	10,317	59
YARRBROUGH & ALLEN ELLENBURGER.....	.19	851054	ELLENBURGER.....	..DO...	10,627	1,827
YARRBROUGH & ALLEN WADDELL.....	.14	866087	WADDELL.....	..DO...	10,061	22
(0.51-1.00)						
ARELL, SOUTHEAST CLEARFORK.....	.87	865007	CLEAR FORK.....	PERM...	3,865	8
ANDECTOR, WEST DEVONIAN.....	.58	861149	DEVONIAN.....	DEV...	7,948	22
ANDREAS WOLFCAMP.....	.78	856035	WOLFCAMP.....	PERM...	8,590	613
REDFORD DEVONIAN.....	.57	866085	DEVONIAN.....	DEV...	8,757	749
BLOCK 11 DEVONIAN.....	.81	865104	THREE BAR.....	..DO...	8,200	343
BLOCK 11 SW DEVONIAN.....	.70	859066	DEVONIAN.....	..DO...	8,160	9
BLOCK 12.....	1.00	859016	CLEAR FORK.....	PERM...	7,170	21
BROWN & THORP CLEARFORK.....	.94	863168	..DO.....	..DO...	3,028	106
C-BAR TURB.....	.87	859032	TURB, CLEAR FORK.....	..DO...	5,300	112
CORDONA LAKE.....	.58	859023	DEVONIAN.....	DEV...	5,470	1,006
COWDEN, NORTH DEEP.....	.96	852060	SAN ANDRES.....	PERM...	5,168	1,368
COWDEN, NORTH SAN ANDRES.....	.80	856041	..DO.....	..DO...	5,170	25
EMMA GLORIFETA.....	.74	861158	GLORIFETA.....	..DO...	5,355	110
EMPEROR HOLT.....	.61	861159	SAN ANGELO.....	..DO...	4,822	166
GLASCO DEVONIAN.....	.53	859053	DEVONIAN.....	DEV...	12,543	1,051
GOLDSMITH FUSSELMAN.....	.70	863101	FUSSELMAN.....	SIL...	8,370	180
GOLDSMITH, EAST GLORIFETA.....	.73	859056	GLORIFETA.....	PERM...	5,136	19
GOLDSMITH, NORTH ELLENBURGER.....	.58	858143	ORDOVICIAN.....	ORD...	8,900	194
GOLDSMITH, WEST FUSSELMAN.....	.96	858142	SILURIAN.....	SIL...	8,310	91
HALLEY MONTTOYA.....	.65	862026	MONTTOYA.....	ORD...	10,370	77
HERRELL.....	.78	865091	CLEAR FORK.....	PERM...	2,535	19
KERMIT, SOUTH DEVONIAN.....	.79	862028	DEVONIAN.....	DEV...	8,658	657
KEYSTONE CLEARFORK.....	.58	862029	CLEAR FORK.....	PERM...	5,121	120
KEYSTONE COLBY.....	.78	863195	COLBY, QUEEN.....	..DO...	.....	1,479
KEYSTONE DEVONIAN.....	.69	866108	DEVONIAN.....	DEV...	8,040	122
KEYSTONE HOLT.....	.63	852080	SAN ANGELO.....	PERM...	4,777	885
KEYSTONE SILURIAN.....	.94	866105	SILURIAN.....	SIL...	8,230	997
MONAHANS PERMIAN TURB N.....	.59	863063	TURB, CLEAR FORK.....	PERM...	5,633	11
MONAHANS, NORTH DEVONIAN.....	.63	861014	DEVONIAN.....	DEV...	9,440	150
NELSON WICHITA.....	.75	863115	WICHITA-ALRANY.....	PERM...	7,160	36
NETTERVILLE.....	.89	859034	YATES.....	..DO...	2,400	47
OATES.....	.67	863171	RUSTLER.....	..DO...	790	29
PECOS VALLEY DEVONIAN 5400.....	.68	861146	DEVONIAN, 5400 FT.....	DEV...	5,440	169
PECOS VALLEY HIGH GRAVITY.....	.97	861136	YATES.....	PERM...	1,516	246
PECOS VALLEY, PERMIAN.....	.51	861137	DETRITAL.....	..DO...	5,292	109
RUNNING W WADDELL.....	.55	859036	WADDELL.....	ORD...	5,790	544
SAND HILLS ORDOVICIAN.....	.73	856044	SIMPSON, ELLENBURGER.....	..DO...	5,700	175
SAND HILLS TURB.....	.92	848035	CLEAR FORK.....	PERM...	4,137	1,554

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

1/ GEOGRAPHICAL AREA, SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT-PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED RAILROAD COMMISSION DISTRICT A - CONTINUED (0.51-1.00)						
SCARBOROUGH, NORTH.....	0.94	B62032	GRAYBURG.....	PERM..	3,161	25
SHAFTER LAKE DEVONIAN.....	.77	B51056	DEVONIAN.....	DEV..	9,382	352
T X L TUBB.....	.54	B59047	TUBB, CLEAR FORK.....	PERM..	6,158	1,162
THREE BAR DEVONIAN.....	.61	B61110	DEVONIAN.....	DEV..	8,300	1,298
TXL, SILURIAN.....	.68	B59048	SILURIAN.....	SIL..	8,465	454
UNIVERSITY BLOCK 9 WOLFCAMP.....	.57	B56054	WOLFCAMP.....	PERM..	8,430	783
WHEELER SILURIAN.....	.64	B63214	SILURIAN.....	SIL..	.....	67
WHEELER WOLFCAMP.....	.60	B63215	WOLFCAMP.....	PERM..	.....	79
YARBROUGH & ALLEN DEVONIAN.....	.96	B63049	DEVONIAN.....	DEV..	8,146	47
(1.01-2.00)						
BLOCK 31 GRAYBURG.....	1.52	B69040	GRAYBURG.....	PERM..	3,200	175
RYRD.....	1.06	B42052	PERMIAN.....	..DO..	2,634	16
CONCHO BLUFF QUEEN.....	1.36	B69034	QUEEN.....	..DO..	4,131	545
COWDEN NORTH GRAYBURG.....	1.89	B52061	GRAYBURG.....	..DO..	4,406	8,429
COWDEN, SOUTH.....	1.38	B34004	PERMIAN.....	..DO..	3,857	4,190
DEEP ROCK 5950 GLORIETA.....	1.35	B63050	GLORIETA, 5950 FT.....	..DO..	5,940	377
DONNELLY SAN ANDRES.....	1.02	B63093	SAN ANDRES.....	..DO..	4,177	209
DOUBLE H GRAYBURG.....	1.32	B63094	GRAYBURG.....	..DO..	4,481	68
EDWARDS.....	1.70	B59031	SAN ANDRES.....	..DO..	3,400	188
EMPEROR DEEP.....	1.11	B61160	SEVEN RIVERS + QUEEN.....	..DO..	2,858	361
FOSTER.....	1.53	B64135	GRAYBURG.....	..DO..	4,300	6,183
GOLDSMITH.....	1.16	B58029	SAN ANDRES.....	..DO..	4,234	8,857
GOLDSMITH-N. SAN ANDRES CON.....	1.38	B59006	..DO..	..DO..	4,280	941
HALLEY GLORIETA.....	1.32	B62025	GLORIETA.....	..DO..	4,894	93
HALLEY.....	1.12	B62027	YATES + SEVEN RIVERS.....	..DO..	2,726	906
HARPER.....	1.15	B39258	PERMIAN.....	..DO..	4,100	590
HENDRICK.....	1.53	B27859	..DO..	..DO..	2,700	771
HOWARD GLASSCOCK.....	1.92	B63068	YATES.....	..DO..	1,255	5,438
IATAN, EAST HOWARD.....	1.47	B54140	CLEAR FORK.....	..DO..	2,550	3,664
JOHNSON.....	1.04	B59013	GRAYBURG.....	..DO..	4,180	327
KERMIT.....	1.45	B35249	PERMIAN.....	..DO..	2,900	1,266
LAWSON SAN ANDRES.....	1.11	B63108	SAN ANDRES.....	..DO..	4,320	876
MAGUTEX QUEEN.....	1.45	B63109	QUEEN.....	..DO..	4,860	262
MASTERSON.....	1.44	B38154	PERMIAN.....	..DO..	1,235	21
MCFARLAND QUEEN.....	1.38	B56061	QUEEN.....	..DO..	4,680	1,461
MEANS QUEEN.....	1.11	B61141	..DO..	..DO..	3,987	1,121
MONAHANS CLEARFORK.....	1.74	B62030	CLEAR FORK.....	..DO..	4,720	154
MONAHANS QUEEN SAND.....	1.39	B62031	QUEEN.....	..DO..	3,126	358
PAYTON.....	1.10	B38156	PERMIAN.....	..DO..	2,040	47
PECOS VALLEY LOW GRAVITY.....	1.67	B38155	PECOS VALLEY, YATES.....	..DO..	1,628	42
PENWELL GLORIETA.....	1.44	B61167	GLORIETA.....	..DO..	4,650	114
SCARBOROUGH.....	1.02	B29312	PERMIAN.....	..DO..	3,030	207
SHIPLEY QUEEN.....	1.01	B31161	..DO..	..DO..	2,480	268
SNYDER.....	1.68	B39261	..DO..	..DO..	2,710	1,032
T X L SAN ANDRES.....	1.93	B59005	SAN ANDRES.....	..DO..	4,380	489
TAYLOR LINK.....	1.32	B31165	PERMIAN.....	..DO..	1,613	106
TOBORG.....	1.93	B39259	TOBORG, TRINITY.....	CRET..	430	431
WADDELL.....	1.69	B54155	GRAYBURG.....	PERM..	3,500	4,423
WALKER.....	1.59	B63064	QUEEN + GRAYBURG.....	..DO..	2,148	150
WARD-ESTES, NORTH.....	1.19	B68171	YATES.....	..DO..	2,696	9,955
WARD, SOUTH.....	1.12	B54157	..DO..	..DO..	2,400	745
WHITE AND BAKER.....	1.43	B38080	PERMIAN.....	..DO..	1,592	99
YATES SMITH SAND.....	1.23	B62036	SMITH, YATES.....	..DO..	813	20
YATES.....	1.50	B68071	.....	.....	.....	13,194
(>2.00)						
BAKKE CLEARFORK.....	2.07	B59040	CLEAR FORK.....	PERM..	7,564	7
C-BAR SAN ANDRES.....	3.46	B59059	SAN ANDRES.....	..DO..	3,520	410
DUNE GRAYBURG SAN ANDRES.....	3.11	B59051	GRAYBURG.....	..DO..	3,270	11,707
FUHRMAN GLORIETA.....	2.60	B65011	GLORIETA.....	..DO..	5,582	204
FUHRMAN MASCHO.....	2.06	B54136	GRAYBURG.....	..DO..	4,542	1,933
FULLERTON CLEARFORK UP.....	2.04	B65006	CLEAR FORK.....	..DO..	6,208	130
FULLERTON SAN ANDRES.....	2.09	B63098	SAN ANDRES.....	..DO..	4,519	417
HOWARD GLASSCOCK GLORIETA.....	2.32	B69035	GLORIETA.....	..DO..	3,000	922
JORDAN.....	2.13	B38144	PERMIAN.....	..DO..	3,407	1,878
MABEE.....	2.19	B48034	..DO..	..DO..	4,654	1,802
MCELROY.....	2.37	B58030	GRAYBURG.....	..DO..	2,750	9,043
MEANS.....	2.36	B35168	SAN ANDRES.....	..DO..	4,500	6,403
MIDLAND FARMS NORTH GRAYBURG.....	2.37	B59020	GRAYBURG.....	..DO..	4,943	510
MIDLAND FARMS.....	2.05	B65043	..DO..	..DO..	4,620	2,942
MOORE.....	2.45	B59062	..DO..	..DO..	3,200	128
PENWELL.....	2.59	B30408	PERMIAN.....	..DO..	3,678	1,093
PRIEST & BEAVERS QUEEN.....	2.27	B63174	QUEEN.....	..DO..	2,179	60
SAND HILLS JUDKINS.....	2.24	B61171	SAN ANDRES.....	..DO..	3,252	467
SAND HILLS MCKNIGHT.....	3.33	B56059	..DO..	..DO..	3,390	3,858
SHAFTER LAKE CLEARFORK.....	2.65	B63047	CLEAR FORK.....	..DO..	6,660	299
TRIPLE N GRAYBURG.....	2.47	B69031	GRAYBURG.....	..DO..	4,338	493
VAREL SAN ANDRES.....	2.35	B59011	SAN ANDRES.....	..DO..	3,100	78
WESTBROOK UPPER CLEARFORK.....	3.01	B24736	PERMIAN.....	..DO..	3,100	10
WESTBROOK.....	2.52	B24733	..DO..	..DO..	3,005	3,131
RAILROAD COMMISSION DISTRICT AA (0.00-0.50)						
ACKERLY DEAN.....	.10	B67011	DEAN.....	PERM..	8,622	1,166
ADAIR WOLFCAMP.....	.38	B54134	WOLFCAMP.....	..DO..	8,434	2,110
BATEMAN RANCH C-ZONE.....	.50	B66061	STRAWN, 5300 FT.....	PENN..	5,182	77
BRAHNEY WOLFCAMP.....	.19	B59038	WOLFCAMP.....	PERM..	9,028	26
BRONCO SILURO DEVONIAN.....	.26	B56051	DEVONIAN + SILURIAN.....	DEV..	11,692	243

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WTGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED						
RAILROAD COMMISSION DISTRICT AA - CONTINUED						
(0.00-0.50)						
BROWNFIELD, SOUTH CANYON.....	0.29	B63185	CANYON.....	PENN..	.....	42
CLAIREMONT LOWER PENN.....	.45	B65076	PENNSYLVANIAN.....	..DO..	6,605	633
CLAIREMONT, EAST STRAWN.....	.45	B65077	STRAWN.....	..DO..	6,467	40
COGDELL AREA.....	.39	B63083	CANYON REEF.....	..DO..	.....	13,776
COGDELL FULLER SAND.....	.24	H51063	FULLER.....	PERM..	4,991	14
COGDELL, EAST CANYON.....	.37	B66119	CANYON REEF.....	PENN..	6,795	367
CORAZON SAN ANDRES.....	.36	B63061	SAN ANDRES.....	PERM..	2,139	98
DIAMOND M CANYON LIME AREA.....	.23	B63087	CANYON.....	PENN..	6,550	7,198
DIAMOND M SAN ANDRES.....	.18	B63085	SAN ANDRES.....	PERM..	2,380	61
DORWARD SAN ANDRES.....	.32	B59003	..DO..	..DO..	2,456	49
DORWARD.....	.20	B65123	GLORIETA.....	..DO..	.....	258
ELAM STRAWN.....	.42	B65002	STRAWN.....	PENN..	6,910	12
FLUVANNA STRAWN.....	.48	B61140	..DO..	..DO..	7,950	251
FLUVANNA.....	.46	B56057	MISSISSIPPIAN.....	..DO..	8,173	129
FULLER, EAST FULLER R.....	.36	B63114	FULLER R.....	PERM..	4,935	39
GARZA SAN ANDRES R.....	.30	B63190	SAN ANDRES.....	..DO..	2,900	94
GOOD SOUTHEAST FUSSELMAN.....	.31	B61139	FUSSELMAN.....	SIL..	9,752	367
GOOD.....	.21	B50030	CANYON REEF.....	PENN..	7,940	1,498
GOOD, SOUTHEAST CANYON.....	.23	B61144	..DO..	..DO..	8,038	31
HORO PENNSYLVANIAN.....	.16	B54138	REEF.....	..DO..	7,110	522
HUNTLEY GLORIETA.....	.38	B59007	GLORIETA.....	PERM..	3,900	232
HUNTLEY, EAST SAN ANDRES.....	.46	B59008	SAN ANDRES.....	..DO..	3,400	131
JO-MILL SPARBERRY.....	.11	B56056	SPARBERRY.....	..DO..	7,300	1,405
JONES RANCH.....	.19	B46086	DEVONIAN.....	DEV..	11,181	74
JUSTICEBURG GLORIETA.....	.18	B63107	GLORIETA.....	PERM..	2,540	62
KELLY SNYDER CISCO.....	.23	B67010	CISCO.....	PENN..	6,289	233
KELLY SNYDER.....	.29	B63045	CANYON REEF.....	..DO..	6,997	52,062
POST GLORIETA.....	.17	B63117	GLORIETA.....	PERM..	2,700	219
REINECKE.....	.15	H51065	CISCO REEF.....	PENN..	6,886	1,896
REVILLO GLORIETA.....	.26	B59055	GLORIETA.....	PERM..	2,624	262
ROPE.....	.30	B64106	CANYON REEF.....	PENN..	9,305	1,415
ROPE, WEST CISCO.....	.23	B64108	CISCO + CANYON REEF.....	..DO..	9,679	288
RUSSELL, NORTH DEVONIAN.....	.31	B54038	DEVONIAN.....	DEV..	11,090	2,857
SEMINOLE, WEST DEV. FB-2.....	.35	B63122	..DO..	..DO..	10,578	8
SMYER, NORTH CANYON.....	.32	B63204	CANYON.....	PENN..	9,630	126
SMYER, NORTH STRAWN.....	.18	B63205	STRAWN.....	..DO..	.....	114
SNOWDEN SPARBERRY.....	.15	B52020	SPARBERRY.....	PERM..	7,276	54
SNYDER, N. STRAWN ZONE C.....	.19	B50037	STRAWN.....	PENN..	7,487	8
SNYDER, NORTH STRAWN ZONE R.....	.34	B63055	STRAWN R.....	..DO..	7,306	96
SPARBERRY DEEP SPBRY, LO.....	.17	B52022	SPARBERRY DEEP.....	PERM..	6,770	270
SPARBERRY DEEP.....	.30	B52056	SPARBERRY.....	..DO..	6,400	245
SPARBERRY WEST, DEEP.....	.22	B59018	..DO..	..DO..	6,420	138
SPARBERRY WEST, DP SPBRY, LO.....	.16	B59057	..DO..	..DO..	7,018	143
TEX-HANON FUSSELMAN.....	.30	B63206	FUSSELMAN.....	SIL..	11,570	1,245
TEX-HANON MISSISSIPPIAN LO.....	.49	B63178	MISSISSIPPIAN.....	WISS..	11,092	25
TEX-HANON MONTOKA.....	.32	B63207	MONTOKA.....	ORD..	11,672	316
TEX-SIN DEVONIAN.....	.17	B67099	DEVONIAN.....	DEV..	12,286	409
TONTO CANYON SAND.....	.21	B66118	CANYON.....	PENN..	6,690	58
TRI-RUE REEF.....	.05	B66117	TRI RUE.....	..DO..	6,817	95
U-LAZY S PENN.....	.41	B63208	PENNSYLVANIAN.....	..DO..	.....	137
VON ROEDER WOLFCAMP.....	.34	B67031	WOLFCAMP.....	PERM..	6,063	31
VON ROEDER.....	.15	B67030	CANYON.....	PENN..	6,847	589
VON ROEDER, NORTH.....	.11	B67032	..DO..	..DO..	6,776	327
WASSON WICHITA-ALBANY.....	.31	B63210	WICHITA-ALBANY.....	PERM..	8,204	528
WASSON WOLFCAMP.....	.24	B62035	WOLFCAMP.....	..DO..	8,390	235
WESCOTT STRAWN.....	.11	B67077	STRAWN.....	PENN..	10,952	109
WEST, DEVONIAN.....	.29	B63213	DEVONIAN.....	DEV..	.....	876
(0.51-1.00)						
AMROW DEVONIAN.....	.79	B56050	DEVONIAN.....	DEV..	12,628	388
BATEMAN RANCH A-ZONE.....	.56	B58149	CISCO.....	PENN..	3,700	77
BATEMAN RANCH B-ZONE.....	.51	B66060	STRAWN, 5100 FT.....	..DO..	5,017	263
BROWN WICHITA-ALBANY.....	.51	B63081	WICHITA-ALBANY.....	PERM..	8,018	176
COROCO, SE SILURIAN-DEVONIAN.....	.58	B63169	DEVONIAN + SILURIAN.....	DEV..	12,742	19
FLANAGAN DEVONIAN.....	.89	B59027	DEVONIAN.....	..DO..	10,345	28
FLANAGAN ELLENBURGER.....	.67	B63097	ELLENBURGER.....	ORD..	12,174	24
FLUVANNA ELLENBURGER.....	.60	B61147	..DO..	..DO..	8,380	27
GARZA.....	.51	B48032	SAN ANDRES.....	PERM..	2,935	1,121
HUAT CANYON.....	.95	B63063	CANYON.....	PENN..	10,512	353
ROBERTSON, NORTH CLEARFORK 7100.....	.79	B59061	CLEAR FORK, 7100 FT.....	PERM..	7,114	1,307
ROSS RANCH.....	.54	B66062	STRAWN.....	PENN..	5,314	108
S M S CANYON SAND.....	.61	B56063	CANYON.....	..DO..	6,100	208
SALT CREEK.....	.57	B63120	CANYON REEF.....	..DO..	6,200	9,172
U-LAZY S ELLENBURGER.....	.60	B63179	ELLENBURGER.....	ORD..	8,633	161
WELLMAN.....	.71	B52078	WOLFCAMP REEF.....	PERM..	9,100	2,022
WELLS DEVONIAN.....	.57	B67096	DEVONIAN.....	DEV..	12,070	308
WESCOTT DEVONIAN.....	.76	B67076	..DO..	..DO..	12,383	161
(1.01-2.00)						
DIAMOND M CLEARFORK.....	1.82	B63086	CLEAR FORK.....	PERM..	3,170	73
FLANAGAN CLEARFORK UPPER.....	1.87	B59021	..DO..	..DO..	6,420	435
G-M-K SAN ANDRES.....	1.98	B63043	SAN ANDRES.....	..DO..	5,648	587
HARRIS QUEEN.....	1.60	B63102	QUEEN.....	..DO..	4,148	78
HUAT WOLFCAMP.....	1.90	B63060	WOLFCAMP.....	..DO..	9,806	22
OWNBY CLEARFORK UPPER.....	1.70	B65004	CLEAR FORK.....	..DO..	6,644	612
REEVES SAN ANDRES.....	1.77	B63201	SAN ANDRES.....	..DO..	4,968	1,141
RUSSELL 6100 GLORIETA.....	1.20	B54039	GLORIETA.....	..DO..	6,030	139
RUSSELL 7000 CLEARFORK.....	1.23	B54040	CLEAR FORK.....	..DO..	7,350	949
SEMINOLE SAN ANDRES.....	1.86	B54153	SAN ANDRES.....	..DO..	5,240	6,964
SEMINOLE, WEST LEONARD.....	1.80	B45010	YESO.....	..DO..	8,815	54
SHARON RIDGE CLEARFORK.....	1.97	B63269	CLEAR FORK.....	..DO..	2,800	372

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED						
RAILROAD COMMISSION DISTRICT 9A - CONTINUED						
(1.01-2.00)						
SHARON RIDGE 2400.....	1.71	841134	SAN ANGELO, 2400 FT.....	PERM..	2,253	341
SLAUGHTER.....	1.90	843203	SAN ANDRES.....	..DN..	.....	35,842
WASSON GLORIETA.....	1.71	845115	GLORIETA.....	..DN..	5,649	30
WASSON 66.....	1.41	843145	CLEAR FORK.....	..DN..	6,210	1,942
WASSON 72.....	1.01	842034	..DO.....	..DN..	7,006	1,056
WASSON.....	1.76	858004	SAN ANDRES.....	..DN..	4,900	45,800
WASSON, NORTHEAST CLEARFORK.....	1.60	869067	CLEAR FORK.....	..DN..	6,402	905
(>2.00)						
ADAIR.....	2.04	843183	SAN ANDRES.....	PERM..	4,800	1,831
ANTON IRISH.....	2.29	843184	CLEAR FORK.....	..DN..	.....	4,681
ANTON, WEST.....	2.81	845116	..DO.....	..DN..	.....	32
BRAHANEY.....	2.45	858144	SAN ANDRES.....	..DN..	5,301	1,020
BROADVIEW, WEST CLEARFORK.....	2.91	844107	CLEAR FORK.....	..DN..	5,547	92
BUCKSHOT 4950.....	2.79	859001	SAN ANDRES.....	..DN..	4,950	229
CEDAR LAKE.....	2.04	843186	..DO.....	..DN..	4,600	2,782
DIAMOND M 4600 WOLFCAMP.....	2.56	843088	WOLFCAMP.....	..DN..	4,605	20
HARRIS.....	2.48	858146	CLEAR FORK.....	..DN..	6,637	1,114
LANDON.....	2.11	852054	SAN ANDRES.....	..DN..	4,900	160
LEE HARRISON.....	3.23	859054	CLEAR FORK.....	..DN..	4,979	223
LEVELLAND.....	2.12	859159	SAN ANDRES.....	..DN..	4,707	9,460
OWNBY CLEARFORK LOWER.....	2.02	843199	CLEAR FORK.....	..DN..	.....	8
OWNBY.....	2.24	843200	SAN ANDRES.....	..DN..	.....	108
OWNBY, WEST SAN ANDRES.....	2.38	849065	..DO.....	..DN..	5,254	72
PRENTICE 6700.....	2.08	845120	CLEAR FORK.....	..DN..	6,580	4,296
PRENTICE.....	2.64	845119	GLORIETA.....	..DN..	5,966	1,552
RILEY, NORTH.....	2.12	859035	CLEAR FORK.....	..DN..	6,930	459
ROBERTSON.....	2.58	842236	PERMIAN.....	..DN..	5,910	1,439
ROPER, EAST CLEARFORK.....	2.85	849064	CLEAR FORK.....	..DN..	6,032	129
SEMINOLE SAN ANGELO.....	2.97	865005	SAN ANGELO.....	..DN..	6,462	244
SEMINOLE, WEST.....	2.11	843121	SAN ANDRES.....	..DN..	5,009	952
SHARON RIDGE 1700.....	2.04	845053	..DO.....	..DN..	1,759	833
SMYER.....	3.04	843177	CLEAR FORK.....	..DN..	5,850	1,138
WASSON NORTHEAST WICHITA-ALBANY.....	2.05	849066	WICHITA-ALBANY.....	..DN..	8,030	329
WELCH.....	2.13	843211	SAN ANDRES.....	..DN..	4,901	5,551
YELLOWHOUSE.....	2.15	859046	..DO.....	..DN..	.....	240
RAILROAD COMMISSION DISTRICT 9						
(0.00-0.50)						
ALVORD ATOKA CONGLOMERATE.....	0.09	842049	ATOKA.....	PENN..	5,707	55
ALVORD CADDO CONGLOMERATE.....	0.12	847159	CADDO, STRAWN.....	..DN..	5,705	418
ALVORD CADDO CONGLOMERATE.....	0.10	842051	..DO.....	..DN..	5,344	110
ANTELOPE.....	0.23	847160	STRAWN M-1.....	..DN..	3,143	175
BIG MINERAL CREEK U.....	0.45	856066	DES MOINES.....	..DN..	6,290	12
BIG MINERAL CREEK V.....	0.37	856068	..DO.....	..DN..	6,442	58
BOONSVILLE BASAL ATOKA.....	0.05	848002	ATOKA.....	..DN..	6,142	20
BOREN STRAWN.....	0.22	858075	STRAWN.....	..DN..	2,993	12
BOWERS.....	0.21	839245	..DO.....	..DN..	2,887	33
BRYSON, EAST.....	0.17	858068	..DO.....	..DN..	2,934	96
BURNS BEACON MISS.....	0.10	848042	CHAPPEL.....	MISS..	.....	94
BURNS MIDWAY.....	0.08	842111	..DO.....	..DN..	6,005	6
CAUGHLIN STRAWN.....	0.20	858073	STRAWN.....	PENN..	4,073	197
CHICO WEST CADDO CONGLOMERATE UPPER.....	0.13	858074	PENNSYLVANIAN.....	..DN..	5,668	73
CONLEY ELLENBURGER.....	0.04	843019	ELLENBURGER.....	ORD..	8,072	58
CONLEY MISSISSIPPI.....	0.06	843020	CHAPPEL.....	MISS..	7,805	146
CONLEY OSAGE.....	0.05	843021	OSAGE.....	..DN..	8,065	20
DILLARD WEST CADDO.....	0.12	849006	CADDO, STRAWN.....	PENN..	5,745	8
DILLARD, SOUTHEAST ELLENBURGER.....	0.10	849007	ELLENBURGER.....	ORD..	6,324	472
EANES ATOKA.....	0.10	847033	ATOKA.....	PENN..	5,901	42
EANES CADDO.....	0.08	847034	CADDO, STRAWN.....	..DN..	5,783	351
EANES, NORTHWEST MISS.....	0.18	847071	MISSISSIPPIAN.....	MISS..	6,526	15
FARGO CANYON 3900.....	0.09	841374	CANYON.....	PENN..	3,982	209
FARGO CANYON 4200.....	0.16	856070	..DO.....	..DN..	4,140	440
FARGO CANYON 4400.....	0.12	841373	STRAWN.....	..DN..	4,460	19
FARGO CISCO 3200.....	0.09	841375	CISCO.....	..DN..	3,246	111
HALSELL, W VOGTSBERGER.....	0.44	848004	VOGTSBERGER, STRAWN.....	..DN..	4,821	107
HILDRETH.....	0.20	843031	BEND, 2ND.....	..DN..	6,112	506
HOLLIDAY EAST.....	0.23	858065	PARKEY, STRAWN.....	..DN..	4,084	127
HOLLIDAY.....	0.21	838072	KMA, STRAWN.....	..DN..	3,821	8
MULL SILK SIKES CADDO.....	0.21	843114	STRAWN.....	..DN..	4,598	8
JAY 2300 STRAWN.....	0.22	842050	PAO PINTO, CANYON.....	..DN..	2,603	9
JOY STRAWN.....	0.15	853010	STRAWN.....	..DN..	4,000	207
K-M-A SHALLOW.....	0.31	854129	..DO.....	..DN..	3,794	2,900
KIMBELL-SIMS SHARELENE.....	0.13	843022	SHARELENE, STRAWN.....	..DN..	3,614	86
KNOX CITY, NORTH CANYON.....	0.44	858070	PAO PINTO, CANYON.....	..DN..	4,264	332
LANGSTON-KLEINER, STRAWN.....	0.25	856075	STRAWN.....	..DN..	3,488	95
MCKINLAY STRAWN.....	0.24	856073	..DO.....	..DN..	4,356	79
RASBERRY 6100 CADDO.....	0.13	858067	CADDO, STRAWN, 6100 FT.....	..DN..	6,136	209
RICHARDSON MUELLER CADDO.....	0.19	853007	..DO.....	..DN..	6,061	22
RINGGOLD.....	0.12	858072	STRAWN.....	PENN..	4,882	30
ROCK CROSSING CANYON LIME.....	0.45	840133	..DO.....	..DN..	3,050	11
ROGERS AND ROGERS.....	0.18	839246	STRAWN.....	PENN..	4,445	31
RUSHAG.....	0.13	843023	CADDO, STRAWN.....	..DN..	4,466	350
SANDUSKEY OIL CREEK.....	0.31	843024	OIL CREEK, SIMPSON.....	ORD..	7,130	1,087
SANDUSKY, WEST STRAWN.....	0.03	843032	STRAWN.....	PENN..	6,378	34
SHERMAN CARRAWAY.....	0.33	851045	CARRAWAY, STRAWN.....	..DN..	3,963	40
SHERMAN EAST.....	0.42	843026	STRAWN.....	..DN..	3,090	350
SHERMAN RIFENBURG.....	0.30	843025	RIFENBURG, STRAWN.....	..DN..	4,263	88
SHERMAN 7500 SAND.....	0.35	856071	RAKER.....	..DN..	7,247	479
SHERMAN 8900 PENN.....	0.35	856069	COPPELL.....	..DN..	9,238	202

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TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, 1/ SULFUR CONTENT CATEGORY, AND FIELD 2/	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
TEXAS - CONTINUED RAILROAD COMMISSION DISTRICT 9 - CONTINUED						
(0.00-0.50)						
SIVELLS BEND.....	0.27	R63027	BEASLEY, STRAWN.....	PENN..	6,514	640
THRASH PALO PINTO.....	0.08	R67028	PALO PINTO, CANYON.....	..DO..	5,871	59
TIDWELL 4600 STRAWN.....	0.14	R68003	STRAWN, 4600 FT.....	..DO..	4,467	67
VOGTSBERGER SOUTH.....	0.37	R53008	.....	.....	4,695	80
WALNUT RD HUDSPETH.....	0.23	R54128	HUDSPETH, STRAWN.....	PENN..	3,956	470
WALNUT BEND BRUHLMEYER.....	0.13	R63028	BRUHLMEYER, STRAWN.....	..DO..	3,466	145
WALNUT BEND COX.....	0.21	R54132	COX, STRAWN.....	..DO..	.....	94
WALNUT BEND.....	0.17	R54125	STRAWN.....	..DO..	3,692	1,397
WORSHAM STEED.....	0.16	R53011	PENNSYLVANIAN.....	..DO..	4,698	94
(0.51-1.00)						
BIG MINERAL CREEK BARNES.....	0.59	R56067	BARNES, STRAWN.....	PENN..	4,925	1,182
BIG MINERAL CREEK O.....	0.52	R63018	PENNSYLVANIAN, O.....	..DO..	4,854	12
BIG MINERAL CREEK S.....	0.55	R56074	DES MOINES.....	..DO..	5,469	535
BIG MINERAL CREEK STRAWN.....	0.51	R56065	STRAWN.....	..DO..	3,427	59
GATEWOOD.....	0.51	R63029	.....	..DO..	.....	233
GOREE.....	0.86	R58069	TANNEHILL, PUEBLO.....	..DO..	1,730	61
HULL SILK SIKES.....	0.61	R54130	STRAWN, 4300 FT.....	..DO..	4,338	781
SADLER PENNSYLVANIAN.....	0.54	R54026	SADLER.....	..DO..	6,896	564
VOSS TANNEHILL.....	0.93	R58071	WOLFCAMP.....	PERM..	1,956	437
WALNUT BEND ATKINS.....	0.65	R54131	ATKINS, STRAWN.....	PENN..	.....	140
WALNUT BEND WINGER.....	0.84	R54127	WINGER, STRAWN.....	..DO..	5,405	1,579
WILSON.....	0.85	R58064	STRAWN.....	..DO..	2,171	99
RAILROAD COMMISSION DISTRICT 10						
(0.00-0.50)						
BECHTOLD TONKAWA.....	0.02	R67129	TONKAWA.....	PENN..	6,158	62
BRADFORD TONKAWA.....	0.05	R67132	..DO..	..DO..	6,573	121
CREST DES MOINES.....	0.04	R67127	DES MOINES.....	..DO..	6,584	197
FARNSWORTH CONNER DES MOINES.....	0.09	R62056	..DO..	..DO..	6,793	405
FARNSWORTH N. MARMATON.....	0.09	R67125	MARMATON.....	..DO..	6,381	1,091
FARNSWORTH OSWEGO.....	0.07	R62055	OSWEGO.....	..DO..	6,774	21
FARNSWORTH UPPER MORROW.....	0.09	R58055	MORROW.....	..DO..	7,926	2,507
FOLLETT, WEST CHEROKEE.....	0.05	R67124	CHEROKEE.....	..DO..	7,972	82
FRASS TONKAWA.....	0.05	R67126	TONKAWA.....	..DO..	6,235	120
HORIZON CLEVELAND.....	0.15	R59184	CLEVELAND.....	..DO..	6,208	156
KELLN TONKAWA-OIL.....	0.01	R67130	TONKAWA.....	..DO..	7,421	67
KIOWA CREEK MORROW-OIL.....	0.02	R67128	MORROW.....	..DO..	8,975	90
MOBEETIE MISSOURI.....	0.01	R67085	MISSOURI.....	..DO..	7,203	75
MOBEETIE UPPER MISSOURI.....	0.01	.....	.....	.....	.....	37
PANHANDLE CARSON COUNTY.....	0.43	R69002	WOLFCAMP.....	PERM..	3,056	2,224
PANHANDLE GRAY COUNTY.....	0.23	R69004	GRANITE WASH.....	ORD..	2,650	6,797
PANHANDLE HUTCHINSON COUNTY.....	0.47	R69005	WOLFCAMP.....	PERM..	2,648	3,743
PANHANDLE WHEELER COUNTY.....	0.25	R69003	GRANITE WASH.....	ORD..	2,328	1,078
PERRYTON WEST MARMATON.....	0.06	R67024	MARMATON.....	PENN..	6,940	47
PERRYTON, NORTH GEORGE MORROW.....	0.06	R67022	GEORGE.....	..DO..	7,515	110
PERRYTON, WEST MORROW LOWER.....	0.06	R67025	MORROW.....	..DO..	7,921	5
QUINDONO ALRANY DOLOMITE LOWER.....	0.34	R53025	WICHITA-ALRANY.....	PERM..	4,008	363
QUINDONO-LECOMPTON.....	0.09	R58057	LECOMPTON.....	PENN..	6,064	304
R. H. F. MORROW SAND.....	0.05	R62054	MORROW.....	..DO..	8,045	1,588
SPICER MARMATON.....	0.09	R67123	MARMATON.....	..DO..	6,538	97
TWIN DES MOINES.....	0.11	R58059	DES MOINES.....	..DO..	6,437	125
UTAH						
(0.00-0.50)						
AKAH.....	0.16	L60198	PARADOX.....	PENN..	4,688	10
ALTAMONT.....	0.17	R72034	GREEN RIVER-WASATCH.....	EOCFNE	12,910	1,131
BLUERELL.....	0.04	L68225	GREEN RIVER, LOWER.....	..DO..	10,359	1,396
BLUFF.....	0.05	L60197	PARADOX.....	PENN..	5,623	48
BOUNDARY BUTTE.....	0.11	L49071	COCONINO.....	PERM..	1,498	451
BRENNAN BOTTOM.....	0.11	L62042	GREEN RIVER.....	EOCFNE	5,520	18
BRIDGER LAKE.....	0.05	L67134	DAKOTA.....	CRET..	15,764	841
COYOTE BASIN.....	0.08	L68221	GREEN RIVER.....	EOCFNE	4,419	59
DESERT CREEK.....	0.11	L57040	PARADOX.....	PENN..	5,244	14
DUCHESNE.....	0.01	L55277	WASATCH.....	EOCFNE	7,518	30
GOTHIC MESA.....	0.05	L60193	DESERT CREEK.....	PENN..	5,768	43
GREATER ANETH.....	0.11	L57011	PARADOX, LOWER, (HERMOSA).....	..DO..	5,828	7,860
ISMAY.....	0.05	L57012	PARADOX, UP, (HERMOSA).....	..DO..	5,585	213
LISRON.....	0.03	L60195	MCCracken.....	DEV..	8,905	2,604
LONG CANYON.....	0.07	L65009	PARADOX, LOWER.....	PENN..	7,050	16
MCELMO MESA.....	0.10	L57139	ANETH, (HERMOSA).....	..DO..	5,546	48
MONUMENT BUTTE.....	0.04	L68223	GREEN RIVER.....	EOCFNE	4,916	36
PARIETTE RENCH.....	0.22	L68139	..DO..	..DO..	4,851	33
RECAPTURE CREEK.....	0.10	L57038	HERMOSA, UPPER.....	PENN..	5,354	70
RED WASH AREA.....	0.15	L62043	GREEN RIVER.....	EOCFNE	5,550	5,775
ROOSEVELT.....	0.07	L50337	GREEN RIVER, BASAL.....	..DO..	9,350	52
SALT WASH.....	0.23	L67101	LEADVILLE.....	MISC..	8,914	83
TOMONADLA.....	0.09	L60199	PARADOX.....	PENN..	5,050	54
(0.51-1.00)						
AGATE.....	0.61	L62037	BRUSHY BASIN, (MORRISON).....	JUR..	1,562	7
ASHLEY VALLEY.....	0.83	L50341	WEBER.....	PENN..	4,181	265
(1.01-2.00)						
UPPER VALLEY.....	1.99	L62179	KAIBAB.....	PERM..	6,060	1,948

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
WYOMING						
(0.00-0.50)						
ANT HILLS.....	0.14	L37004	FALL RIVER (DAKOTA).....	CRET..	3,951	29
ARCH UNIT (PATRICK DRAW).....	0.06	L47146	ALMOND.....	..DO..	5,290	548
ASH CREEK SOUTH.....	0.10	L56354	ASH CREEK (SHANNON).....	..DO..	4,836	227
ASH CREEK.....	0.15	L52405	SHANNON.....	..DO..	4,375	111
BADGER BASIN.....	0.05	L31003	WALL CREEK (FRONTIER).....	..DO..	4,590	30
BARBER CREEK.....	0.19	L57072	PARKMAN (MESAVERT).....	..DO..	6,838	43
BIG MEDICINE ROW & SOUTH.....	0.05	R35185	SUNDANCE.....	JUR..	5,290	36
BIG MUDDY & BIG MUDDY EAST.....	0.17	L50356	CRETACEOUS.....	CRET..	2,645	757
BISON BASIN.....	0.45	L46004	FRONTIER, 4TH.....	..DO..	1,221	70
BORIE.....	0.24	L50176	MUDDY.....	..DO..	4,494	40
BROOKS RANCH.....	0.11	L58062	FRONTIER, 2ND.....	..DO..	4,410	37
BURKE RANCH.....	0.18	L58039	DAKOTA.....	..DO..	6,631	140
CLARETON.....	0.09	L53249	NEWCASTLE.....	..DO..	6,242	189
COLE CREEK SOUTH.....	0.11	L50353	DAKOTA.....	..DO..	8,309	707
COLE CREEK.....	0.16	L50354	..DO..	..DO..	7,947	583
COLLUMS.....	0.40	L68213	MUDDY.....	..DO..	7,530	759
COOPER COVE.....	0.30	L50060	DAKOTA + LAKOTA.....	..DO..	4,830	56
COYOTE CREEK.....	0.04	L60111	MINNELUSA.....	PENN..	6,368	518
CROOKS GAP.....	0.20	L50084	MUDDY.....	CRET..	4,820	100
DEAD HORSE CREEK.....	0.08	L57120	PARKMAN (MESAVERT).....	..DO..	6,968	219
DESERT SPRINGS (PATRICK DRAW).....	0.06	L67146	ALMOND.....	..DO..	5,290	104
DESERT SPRINGS WEST (PATRICK DRAW).....	0.06	L67146	..DO..	..DO..	5,290	74
DIAMOND RANCH.....	0.23	L57133	LAKOTA.....	..DO..	5,466	22
DONKEY CREEK.....	0.12	L57147	DAKOTA.....	..DO..	6,259	258
ELK MOUNTAIN.....	0.04	L47134	SUNDANCE.....	JUR..	6,475	26
ESPY.....	0.26	L35025	..DO..	..DO..	.....	23
FIDDLER CREEK.....	0.15	L54044	NEWCASTLE (MUDDY).....	CRET..	4,577	542
FLAT TOP.....	0.02	L46031	TEAPOT.....	..DO..	6,941	105
GAS DRAW.....	0.40	L68213	MUDDY.....	..DO..	7,530	1,541
GLENROCK SOUTH.....	0.16	L58065	DAKOTA.....	..DO..	6,090	1,688
GLENROCK.....	0.05	L50110	MUDDY.....	..DO..	7,202	46
GOLDEN GOOSE.....	0.20	L50084	..DO..	..DO..	4,420	49
GOLDEN PRAIRIE.....	0.16	L70291	..DO..	..DO..	.....	91
GOVERNMENT BRIDGE.....	0.08	L58061	STEELE.....	CRET..	2,385	7
GREEN RIVER BEND (BIG PINEY).....	0.02	L67136	WASATCH.....	EOCENE	2,612	282
GREYBULL.....	0.08	R20298	GREYBULL, DAKOTA.....	CRET..	.....	34
GRIEVE.....	0.08	L58066	MUDDY.....	..DO..	6,723	308
HAPPY SPRINGS.....	0.25	L53186	FRONTIER, 4TH.....	..DO..	3,904	108
HAY CREEK OIL.....	0.04	L53298	NEWCASTLE (MUDDY).....	..DO..	6,245	20
HILIGHT.....	0.07	L68210	MUDDY.....	..DO..	9,201	11,172
HOGSBACK (BIG PINEY).....	0.07	L55357	ALMY.....	PALEO..	1,031	664
HORNE BROS.....	0.17	L53218	SUNDANCE.....	JUR..	6,180	5
HORSE CREEK.....	0.36	L50177	MUDDY.....	CRET..	5,265	142
HUNTER RANCH.....	0.05	L68211	..DO..	..DO..	9,089	142
LA BARGE NORTH.....	0.08	L55352	HILLIARD.....	..DO..	2,000	53
LA BARGE.....	0.07	L55357	ALMY.....	PALEO..	1,031	313
LANCE CREEK EAST.....	0.01	L42006	DAKOTA.....	CRET..	3,965	17
LANCE CREEK.....	0.13	L53212	LEO (MINNELUSA).....	PENN..	5,050	316
LIGHTNING CREEK.....	0.22	L53245	MUDDY.....	CRET..	1,474	40
LOMETREE CREEK.....	0.13	L53300	NEWCASTLE (MUDDY).....	..DO..	7,280	45
LONG ISLAND (BIG PINEY).....	0.02	L47143	WASATCH.....	EOCENE	3,570	243
LOST CABIN.....	0.13	L59156	WIND RIVER.....	..DO..	3,171	12
MCDONALD DRAW (BIG PINEY).....	0.07	L55357	ALMY.....	PALEO..	1,031	542
MEADOW CREEK NORTH.....	0.12	L50276	SUSSEX.....	CRET..	3,839	92
MILLER CREEK.....	0.08	L60108	DAKOTA.....	..DO..	5,934	174
MOORCROFT WEST.....	0.17	L57151	NEWCASTLE.....	..DO..	4,140	176
MUSH CREEK WEST.....	0.10	L53301	NEWCASTLE (MUDDY).....	..DO..	5,747	139
MUSH CREEK.....	0.08	L54051	..DO..	..DO..	4,585	164
OBRIN SPRINGS.....	0.24	L60110	TENSLEEP.....	PENN..	6,891	5
ODEKOVEN.....	0.07	L68210	MUDDY.....	CRET..	9,201	185
OSAGE.....	0.07	L54048	NEWCASTLE (MUDDY).....	..DO..	2,131	1,471
PATRICK DRAW.....	0.02	L63077	ALMOND.....	..DO..	4,740	2,037
PINE BLUFFS.....	0.13	L56092	J.....	..DO..	7,362	36
POISON SPIDER WEST.....	0.09	L50352	MESAVERT.....	..DO..	9,230	656
RECLUSE.....	0.40	L68213	MUDDY.....	..DO..	7,530	2,066
REX LAKE.....	0.28	L50058	DAKOTA.....	..DO..	3,838	12
ROCK RIVER.....	0.13	L37013	..DO..	..DO..	3,447	225
ROZET EAST.....	0.11	L66046	MUDDY.....	..DO..	6,477	73
ROZET.....	0.13	L60109	..DO..	..DO..	6,935	259
SAGE SPRING CREEK.....	0.22	L52413	DAKOTA.....	..DO..	7,264	180
SALT CREEK L & H.....	0.13	L53098	WALL CREEK, 2ND.....	..DO..	2,605	12,217
SALT CREEK WEST.....	0.13	L53107	STEELE.....	..DO..	1,800	32
SANDBAR EAST.....	0.08	L69252	.....	.....	.....	391
SANDBAR WEST.....	0.08	L69252	.....	.....	.....	23
SCHRAEDER FLATS.....	0.11	L66035	SUNDANCE.....	JUR..	3,227	93
SEVEN MILE.....	0.33	L50129	MUDDY.....	CRET..	5,818	25
SHERWOOD.....	0.01	L58043	..DO..	..DO..	10,730	7
SHOSHONE NORTH.....	0.01	L56349	FRONTIER, 3RD.....	..DO..	2,413	12
SKULL CREEK & SKULL CREEK NORTH.....	0.08	L54051	NEWCASTLE (MUDDY).....	..DO..	4,585	356
SLATTERY.....	0.14	L57149	NEWCASTLE.....	..DO..	6,476	261
SMOKEY GAP.....	0.17	L58050	NIORARA.....	..DO..	815	17
SUSSEX WEST-DUGOUT.....	0.19	L53302	SHANNON.....	..DO..	2,747	677
SUSSEX.....	0.43	L52429	FRONTIER.....	..DO..	7,073	1,538
TEAPOT EAST.....	0.14	L52408	NIORARA + SHANNON.....	..DO..	2,660	58
TIP TOP UNIT (BIG PINEY).....	0.03	L68219	ALMY TRANSITION.....	PALEO..	1,150	502
TIPPS.....	0.13	L66037	LAKOTA.....	CRET..	5,516	18
TWENTY MILE HILL.....	0.08	L57161	PARKMAN (MESAVERT).....	..DO..	6,410	31
UTE.....	0.13	L69239	.....	.....	.....	883
WALLACE CREEK.....	0.01	L66041	MUDDY.....	CRET..	10,345	15
WIND CREEK.....	0.14	L66047	LAKOTA.....	..DO..	744	23
WOOD.....	0.16	L66049	..DO..	..DO..	5,022	464

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
WYOMING - CONTINUED						
(0.51-1.00)						
REAVER CREEK.....	0.54	L67073	MADISON.....	MISS..	10,666	1,191
BISHOP RANCH SOUTH.....	.74	L69271	.....	.....	.....	132
DILLINGER RANCH.....	.76	L70289	.....	.....	.....	843
GOLDEN EAGLE.....	.85	L50740	TENSLEEP.....	PENN..	9,350	219
KITTY.....	.70	L68210	MUDDY.....	CRET..	9,201	1,794
LITTLE RUCK CREEK.....	.77	L53183	CONVERSE.....	PENN..	5,216	14
PINE MOUNTAIN.....	.51	800555	.....	.....	.....	6
RENO EAST.....	.77	L66030	MINNELUSA.....	PENN..	14,931	239
RENO.....	.77	L66030	.....	..DO..	14,931	442
RIVERTON DOME.....	.83	L49116	TENSLEEP.....	..DO..	11,665	28
(1.01-2.00)						
ADON ROAD.....	1.20	L48031	MINNELUSA.....	PENN..	8,990	29
BAILEY DOME.....	1.39	L50085	TENSLEEP.....	..DO..	6,959	14
BIG SAND DRAW.....	1.35	L48033	..DO.....	..DO..	7,281	1,144
BONANZA.....	1.87	L51140	..DO.....	..DO..	2,490	232
CAMP CREEK.....	1.96	L68208	MINNELUSA.....	..DO..	7,396	204
ELK BASIN SOUTH.....	1.73	L50637	TENSLEEP.....	..DO..	6,898	465
ELK BASIN.....	1.92	L50551	MADISON.....	MISS..	5,156	12,360
ENOS CREEK.....	1.01	L50732	TENSLEEP.....	PENN..	6,417	8
GEBO.....	1.83	L50702	PHOSPHORIA.....	PERM..	4,558	435
LITTLE POLECAT.....	1.91	L56338	TENSLEEP.....	PENN..	7,254	183
LITTLE SAND DRAW.....	1.17	L50734	PHOSPHORIA.....	PERM..	5,922	103
LOST SOLDIER.....	1.22	L48025	MADISON.....	MISS..	4,794	4,848
MAHONEY.....	1.33	830427	TENSLEEP.....	PENN..	4,600	43
MANDERSON.....	1.74	L56330	PHOSPHORIA.....	PERM..	6,910	74
MEADOW CREEK.....	1.91	L53149	TENSLEEP.....	PENN..	9,060	811
MEETEETSEE.....	1.34	L56343	PHOSPHORIA.....	PERM..	11,234	13
MURPHY DOME.....	1.70	L50719	TENSLEEP.....	PENN..	4,390	711
NEIBER DOME.....	1.88	L48039	EMBAR.....	PERM..	10,025	42
NOTCHES.....	1.80	L52411	TENSLEEP.....	PENN..	2,865	173
RAINBOW RANCH.....	1.28	L60114	MINNELUSA.....	..DO..	9,971	8
RAVEN CREEK.....	1.19	L69269	.....	.....	.....	1,548
REEL.....	1.50	L69243	.....	.....	.....	197
SALT CREEK EAST.....	1.50	L58044	TENSLEEP.....	PENN..	7,472	291
SHELDON DOME.....	1.16	L49117	..DO.....	..DO..	6,764	301
SILVERTIP L & H.....	1.13	L50642	EMBAR + TENSLEEP.....	PERM..	8,737	65
SLICK CREEK.....	2.00	L50742	PHOSPHORIA.....	..DO..	10,460	172
SOUTH FORK.....	1.91	L48037	EMBAR.....	..DO..	10,055	12
TORCHLIGHT L & H.....	1.83	L50725	TENSLEEP.....	PENN..	3,176	827
WALKER DOME.....	1.77	L56145	PHOSPHORIA.....	PERM..	6,646	70
WALLACE.....	1.36	L68216	MINNELUSA.....	PENN..	8,031	207
WERTZ.....	1.32	L50080	TENSLEEP.....	..DO..	5,999	1,663
WHISTLE CREEK.....	1.84	L52215	..DO.....	..DO..	5,795	121
WORLAND DOME.....	1.55	L50712	PHOSPHORIA.....	PERM..	10,000	90
(>2.00)						
ALLEN LAKE EAST.....	2.71	L50053	TENSLEEP.....	PENN..	3,923	14
BIG POLECAT.....	2.56	L56339	..DO.....	..DO..	5,525	228
BLACK MOUNTAIN.....	2.84	850700	.....	.....	.....	485
BOOTON.....	2.55	L68207	MINNELUSA.....	PENN..	7,447	16
BYRON.....	2.50	L50630	TENSLEEP.....	..DO..	5,163	1,905
C-H.....	2.90	L68209	MINNELUSA.....	..DO..	7,574	337
CASPER CREEK NORTH.....	3.00	830446	TENSLEEP.....	..DO..	3,300	17
CASPER CREEK SOUTH.....	4.35	L50365	..DO.....	..DO..	2,630	192
CELLARS RANCH.....	3.41	L61291	..DO.....	..DO..	6,530	123
CIRCLE RIDGE.....	2.73	L43008	..DO.....	..DO..	680	471
CLARK RANCH.....	1.74	L58052	..DO.....	..DO..	4,678	38
COTTONWOOD CREEK.....	2.57	L56148	PHOSPHORIA.....	PERM..	7,270	1,014
COWLEY.....	3.25	L67075	TENSLEEP.....	PENN..	4,740	40
DALLAS.....	3.06	L49079	..DO.....	..DO..	1,272	249
DEAVER NORTH.....	3.03	L56341	..DO.....	..DO..	5,230	46
DERRY.....	2.73	824329	EMBAR.....	PERM..	1,200	43
DUBOIS.....	2.45	L49121	PHOSPHORIA.....	..DO..	2,062	19
DUVALL RANCH.....	2.12	L70304	.....	.....	.....	312
FOURBEAR.....	3.52	L56332	TENSLEEP.....	PENN..	2,965	382
FRANNIE.....	2.78	L51143	EMBAR + TENSLEEP.....	PERM..	3,817	1,962
GARLAND.....	2.77	L48040	TENSLEEP.....	PENN..	4,267	3,634
GOOSEBERRY.....	2.03	L50721	EMBAR.....	PERM..	5,880	177
GRASS CREEK LIGHT & HEAVY.....	2.68	L50727	TENSLEEP.....	PENN..	4,236	3,733
GUTHREY.....	3.74	L69266	.....	.....	.....	213
HALF MOON.....	4.11	L50560	EMBAR.....	PERM..	3,426	212
HALVERSON RANCH.....	2.12	L70304	.....	.....	.....	613
HAMILTON DOME.....	2.98	L50716	TENSLEEP.....	PENN..	2,602	4,463
HAMM.....	3.39	L69245	.....	.....	.....	199
HERRICK DOME.....	3.26	L50055	TENSLEEP.....	PENN..	3,637	14
HIDDEN DOME LIGHT & HEAVY.....	3.45	L50714	..DO.....	..DO..	4,624	159
KIRBY CREEK.....	3.28	L50706	EMBAR.....	PERM..	3,334	22
KUEHNE RANCH.....	2.05	L68212	MINNELUSA.....	PENN..	7,906	171
LAKE CREEK.....	2.02	L56140	TENSLEEP.....	..DO..	3,484	186
LAMB.....	3.08	L50739	MADISON.....	MISS..	3,884	23
LANDER HUDSON.....	2.85	L37016	TENSLEEP.....	PENN..	1,715	683
LITTLE BUFFALO BASIN.....	3.14	L50639	..DO.....	..DO..	4,594	3,718
LITTLE LARAMIE.....	3.40	L50054	..DO.....	..DO..	3,735	16
LITTLE MITCHELL CREEK.....	2.63	L70303	.....	.....	.....	458
M-D.....	2.63	L70303	.....	.....	.....	427
MAVERICK SPRINGS.....	2.66	L63100	PHOSPHORIA.....	PERM..	991	305
MELLOTT RANCH.....	3.70	L66050	MINNELUSA.....	PENN..	6,795	333
MEYER GULCH.....	3.28	L56149	PHOSPHORIA.....	PERM..	8,800	6
MIDDLE DOME.....	2.58	L47076	..DO.....	..DO..	2,076	17
MULE CREEK.....	2.38	831026	MINNELUSA.....	PENN..	3,161	33
NO WATER CREEK.....	2.60	L70287	.....	.....	.....	154

SEE FOOTNOTES AT END OF TABLE.

TABLE 1. - U.S. CRUDE OIL PRODUCTION DURING 1971 BY FIELDS AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

GEOGRAPHICAL AREA, ^{1/} SULFUR CONTENT CATEGORY, AND FIELD ^{2/}	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, THOUSAND BARRELS
WYOMING - CONTINUED (>2.00)						
NORTH FORK.....	3.51	L52410	TENSLFEP.....	PENN..	6,484	538
NOWOOD.....	2.45	L50698	..DO.....	..DO..	1,611	17
OREGON BASIN WEST.....	3.93	L56340	PHOSPHORIA.....	PERM..	4,311	23
OREGON BASIN.....	3.20	L50565	TENSLEEP.....	PENN..	3,380	12,120
PILOT BUTTE L & M.....	2.30	L49095	PHOSPHORIA.....	PERM..	5,819	182
PITCHFORK.....	1.96	L50555	TENSLEEP.....	PENN..	3,908	786
POISON SPIDER.....	1.21	R23287	SUNDANCE.....	JUR..	1,460	56
PRONG CREEK.....	1.82	L69261	.....	.....	.....	157
QUEALY.....	3.11	L46011	TENSLEEP.....	PENN..	5,480	200
RATTLESNAKE.....	2.18	L70288	.....	.....	.....	173
ROBINSON RANCH EAST.....	2.29	L60112	MINNELUSA.....	PENN..	6,066	87
ROBINSON RANCH SOUTH.....	2.29	L60112	..DO.....	..DO..	6,066	46
ROBINSON RANCH.....	2.29	L60112	..DO.....	..DO..	6,066	154
ROCKY POINT.....	3.32	L70311	.....	.....	.....	965
ROLFF LAKE.....	2.03	L63102	CROW MOUNTAIN.....	TRIA..	3,460	24
SAGE CREEK.....	2.85	L56342	TENSLEEP.....	PENN..	3,421	268
SAND DRAW SE.....	3.49	L53268	..DO.....	..DO..	8,600	23
SEMLEK.....	2.09	L70295	.....	.....	.....	355
SHOSHONE.....	3.20	B30442	EMBAR.....	PERM..	4,309	35
SODA WELL.....	2.57	L68214	MINNELUSA.....	PENN..	7,331	24
SPINDLETOP.....	3.25	H30450	SUNDANCE.....	JUR..	1,057	5
SPRING CREEK.....	3.96	L50555	TENSLEEP.....	PENN..	3,908	497
STEAMBOAT BUTTE.....	2.18	L49120	..DO.....	..DO..	6,830	1,674
STEWART.....	2.03	L68215	MINNELUSA.....	..DO..	8,024	575
SUNSHINE NORTH.....	3.84	R30438	TENSLEEP.....	..DO..	3,780	25
SUNSHINE SOUTH.....	3.08	R30439	EMBAR.....	PERM..	2,514	6
TIMBER CREEK.....	2.26	L60113	MINNELUSA.....	PENN..	9,360	504
TISDALE NORTH.....	2.82	L54272	CURTIS (CROW MOUNTAIN) ..	TRIA..	774	127
WARM SPRINGS.....	2.61	H00565	PERMIAN.....	PERM..	.....	5
WHISLER.....	2.41	L68217	MINNELUSA.....	PENN..	8,304	11
WINKLEMAN.....	3.17	L44023	TENSLEEP.....	..DO..	2,915	3,319

^{1/} GEOGRAPHICAL AREA IS A STATE, STATE SUBDIVISION, OR COMBINATION OF STATE SUBDIVISIONS.

^{2/} INFORMATION IS PRESENTED BY FIELD FOR MOST STATES, EXCEPT FOR ARKANSAS, CALIFORNIA, COLORADO, MISSISSIPPI, NEW MEXICO, AND NORTH DAKOTA. ONLY FIELDS HAVING AN ASSIGNED SULFUR CONTENT AND PRODUCTION OF AT LEAST 5,000 BARRELS OF OIL DURING 1971 ARE INCLUDED.

SULFUR CONTENT OF U.S. CRUDE OILS

For comparison purposes, the results of this study as well as those of the study of 1969 production (11) were summarized according to six selected regions shown on figure 1. The selected regions were generally the same as those in common use and were based primarily on the grouping of major geologic provinces.

Table 1 presents data pertaining to the sulfur content of crude oil production by fields for 26 States; data for California, Louisiana, New Mexico, and Texas are presented by State geographical subdivisions. Of interest was the fact that the sulfur content of crude oils from a particular formation varied widely. For example, the sulfur content of the oil from the Smackover Formation of Jurassic age in Alabama, Arkansas, north Louisiana, Mississippi, and Texas Railroad Commission (RRC) Districts 5 and 6 and 6A (East Texas field, arbitrarily assigned District 6A) ranged from 0.01 to 4.59 percent. The

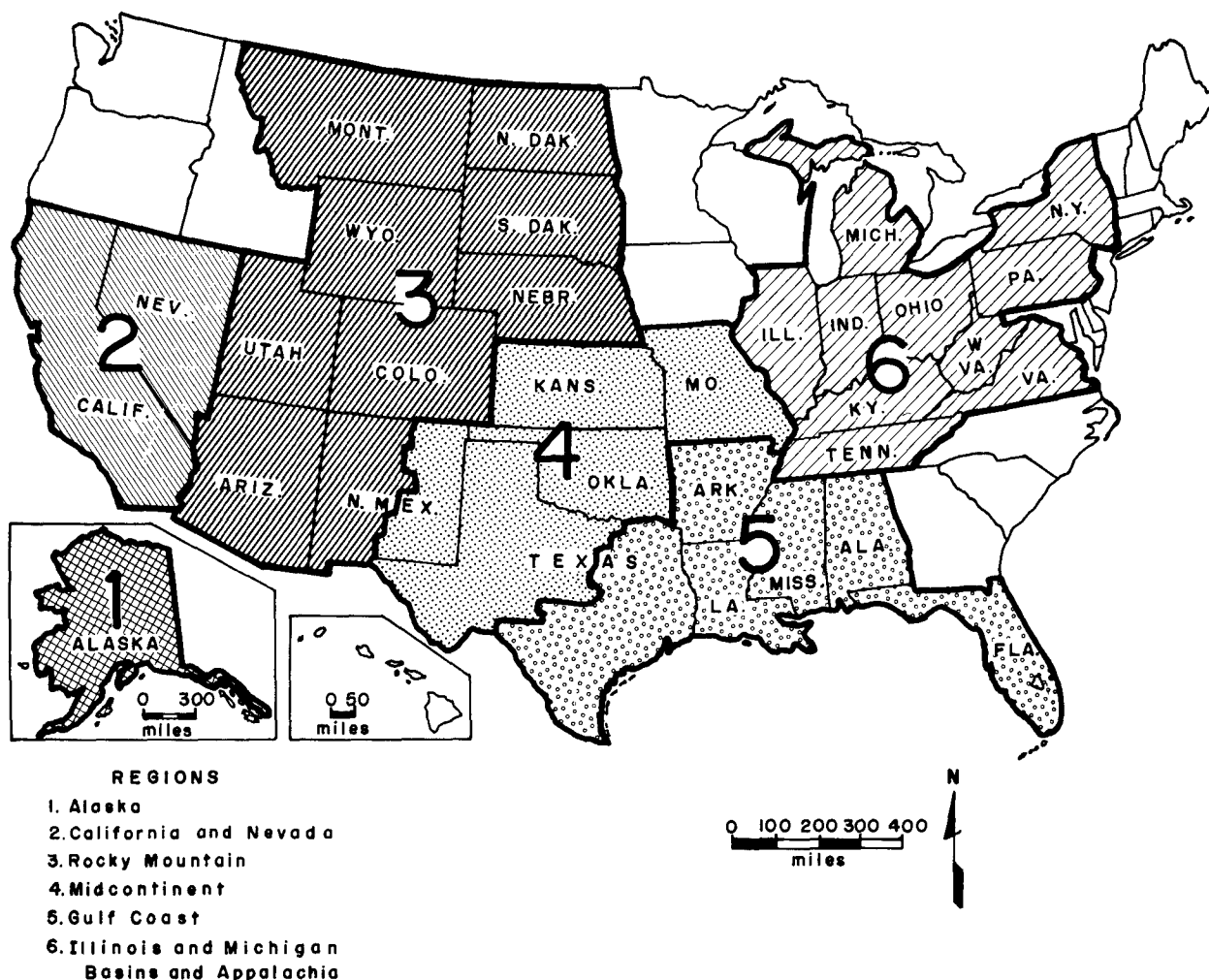


FIGURE 1. - Oil-producing States of the United States, by selected regions.

average sulfur content of all oils (table 1) from the Smackover Formation was 0.85 percent. In other formations, the sulfur content did not vary as much. For example, the sulfur content of the crude oils produced from the Frio Formation of Oligocene age in south Louisiana and Texas RRC Districts 2, 3, and 4 ranged from 0.01 to 0.82 percent and averaged 0.16 percent.

Nationwide, total oil production increased from 3.19 billion barrels during 1969 to 3.30 billion barrels in 1971 according to the American Petroleum Institute (API). This increased production is also reflected in the gain in oil production classified by sulfur content between 1969 and 1971. A total of 2.51 billion barrels of oil (table 2), 76 percent of the total oil produced during 1971, was classified by sulfur content for the States included in this study. It compares with about 75 percent of the 1969 production classified by sulfur content for the same States (11). A comparison of the 1969 and 1971 oil production classification by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1969.....	1,586,175	282,025	299,396	212,646	2,380,242
1971.....	1,706,223	256,871	320,193	228,570	2,511,857

The pattern of oil classified by sulfur content between 1969 and 1971 changed very little. Actually, only the first two sulfur content categories had appreciable changes. In 1969, about 67 percent of the oil classified was in the lowest sulfur content category, compared with 68 percent in 1971. The next category (0.51-1.00 percent) had 12 percent of the oil classified for 1969, compared with about 10 percent for 1971. For the third and fourth categories, the percentages of the total oil classified were about 13 and 9 percent, respectively, during both 1969 and 1971.

Of the 1971 oil production classified, 1.71 billion barrels was classified as low-sulfur oil, or about twice that classified as high-sulfur oil. Low-sulfur oil production during 1971 was 120 million barrels more than in 1969. The significant gain can be attributed mainly to the 169-million-barrel increase in production for the Gulf Coast region between 1969 and 1971. This region led all other regions in low-sulfur oil output with 988 million barrels. The Midcontinent region, which was second in low-sulfur oil production during 1971 with 450 million barrels, produced 7 million barrels less of low-sulfur oil in 1971 than in 1969. The California and Nevada region also had a 7-million-barrel drop in low-sulfur oil production. The Illinois and Michigan Basins and Appalachia, which comprise region 6 (fig. 1), had a 14-million-barrel drop in low-sulfur oil output between 1969 and 1971. The Rocky Mountain region had the largest drop in low-sulfur oil production, with 25 million barrels less in 1971 than in 1969. Alaska had a relatively small gain of 4 million barrels of low-sulfur oil between 1969 and 1971.

TABLE 2. - CLASSIFICATION OF 1971 CRUDE OIL PRODUCTION IN THE UNITED STATES, BY SULFUR CONTENT

(THOUSANDS OF BARRELS)

GEOGRAPHICAL AREA ^{1/}	SULFUR CONTENT, PERCENT BY WEIGHT				TOTAL ^{2/}
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
ALABAMA.....	6,736	160	282	245	7,423
ALASKA.....	77,628	1,157	.....	.....	78,785
ARIZONA.....	1,125	.....	.....	.....	1,125
ARKANSAS.....	3,092	1,670	4,414	4,306	13,482
CALIFORNIA					
SAN JOAQUIN VALLEY.....	30,488	56,789	28,954	.....	116,231
COASTAL.....	565	6,364	3,398	27,191	37,518
LOS ANGELES.....	1,401	10,353	36,188	8,226	56,168
COLORADO.....	4,801	10,536	.....	.....	15,337
FLORIDA.....	.....	.....	.....	671	671
ILLINOIS.....	34,403	59	.....	.....	34,462
INDIANA.....	2,774	35	.....	.....	2,809
KANSAS.....	22,421	10,793	221	.....	33,835
KENTUCKY.....	1,808	.....	.....	.....	1,808
LOUISIANA					
NORTH.....	24,653	3,637	694	.....	28,984
SOUTH.....	621,367	23,512	.....	.....	644,879
MICHIGAN.....	5,776	1,159	66	.....	7,001
MISSISSIPPI.....	6,377	2,892	5,719	8,536	23,524
MONTANA.....	14,409	8,096	7,740	606	30,851
NEBRASKA.....	2,741	3,498	.....	.....	6,239
NEVADA.....	.....	.....	113	.....	113
NEW MEXICO					
SOUTHEAST.....	37,907	18,776	21,163	37	77,883
NORTHWEST.....	3,944	.....	.....	.....	3,944
NEW YORK.....	1,014	.....	.....	.....	1,014
NORTH DAKOTA.....	12,503	4,559	632	2,190	19,884
OKLAHOMA.....	109,864	22,686	183	.....	132,733
PENNSYLVANIA.....	2,200	.....	.....	.....	2,200
SOUTH DAKOTA.....	.....	143	.....	.....	143
TEXAS					
RAILROAD COMMISSION DISTRICT 1.....	2,875	6,938	368	87	10,268
RAILROAD COMMISSION DISTRICT 2.....	58,120	324	.....	.....	58,444
RAILROAD COMMISSION DISTRICT 3.....	122,525	994	.....	.....	123,519
RAILROAD COMMISSION DISTRICT 4.....	41,845	.....	.....	.....	41,845
RAILROAD COMMISSION DISTRICT 5.....	2,231	13,510	52	.....	15,793
RAILROAD COMMISSION DISTRICTS 6 & 6A.....	98,266	2,080	3,640	37,392	141,378
RAILROAD COMMISSION DISTRICT 7B.....	15,883	.....	.....	.....	15,883
RAILROAD COMMISSION DISTRICT 7C.....	23,012	1,480	538	1,370	26,400
RAILROAD COMMISSION DISTRICT 8.....	108,648	17,886	79,165	47,925	253,624
RAILROAD COMMISSION DISTRICT 8A.....	96,419	15,923	97,342	38,944	248,628
RAILROAD COMMISSION DISTRICT 9.....	13,693	5,682	.....	.....	19,375
RAILROAD COMMISSION DISTRICT 10.....	21,512	.....	.....	.....	21,512
UTAH.....	20,885	272	1,948	.....	23,105
WYOMING.....	49,912	4,908	27,373	50,844	133,037
TOTAL ^{2/}	1,706,223	256,871	320,193	228,570	2,511,857

^{1/} GEOGRAPHICAL AREA IS A STATE, STATE SUBDIVISION, OR COMBINATION OF STATE SUBDIVISIONS.^{2/} TOTAL INCLUDES ONLY PRODUCTION FROM THOSE FIELDS WITH AN ASSIGNED SULFUR CONTENT AND PRODUCTION OF AT LEAST 5,000 BARRELS DURING 1971.

The high-sulfur oil production was about 806 million barrels, about 12 million barrels more than in 1969. Some notable changes occurred among the selected regions in the production of high-sulfur oil and contributed to this net increase. The Midcontinent region produced about 47 percent of the high-sulfur oil during 1971 and had a significant increase of 18 million barrels from that of 1969. The California and Nevada region, second in high-sulfur oil production during 1971 with 22 percent, had a loss of 7 million barrels. The Gulf Coast region, which produced 15 percent of the high-sulfur oil during 1971, increased its output of high-sulfur oil by 14 million barrels over 1969 production. The Rocky Mountain region produced another 15 percent of the high-sulfur oil but had a 14-million-barrel loss from 1969 production. The other two regions produced less than 1 percent of the high-sulfur oil during 1971 and gained about 1 million barrels of high-sulfur oil between 1969 and 1971. The Illinois and Michigan Basins and Appalachia, which comprise region 6, maintained the 1969 level of production of 1.3 million barrels of oil during 1971. Alaska had a fourfold increase in its output of high-sulfur oil production between 1969 and 1971, which was significant within the State.

Overall, the ratio of low-sulfur oil to high-sulfur oil increased slightly, from 2.0 to 1 in 1969 to 2.1 to 1 in 1971. This indicates a

relative increase in the production of low-sulfur oil between 1969 and 1971. This ratio could be affected significantly after 1971 as a result of (1) an increasing market demand factor in Louisiana and Texas, (2) increased production from the North Slope in Alaska, and (3) increased production from Florida.

Each region is discussed individually in order of its rank in low-sulfur oil production during 1971. A comparison of the 1969 and 1971 results is included. It should be noted that the total oil production data for each region were obtained for the States and State subdivisions from API. For States for which oil production data are not reported individually by API, the data were obtained from the International Oil Scouts publications.

Gulf Coast

The Gulf Coast region comprises Alabama, Arkansas, Florida, Mississippi, north Louisiana, south Louisiana, and Texas RRC Districts 1 through 6A. It produced 1.41 billion barrels of crude oil during 1971, compared with 1.26 billion barrels in 1969. Of the 1971 total, 1.11 billion barrels was classified by sulfur content. A comparison between the 1969 and 1971 oil production classification by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1969.....	818,780	55,842	10,809	42,008	927,439
1971.....	988,087	55,717	15,169	51,237	1,110,210

The distribution of the 1971 oil as classified by sulfur content remained essentially the same as that of 1969. The percentages of the oil classified for 1971 in each of the four sulfur content groups compared with those of 1969 follow: First, 88.3 percent versus 89.0 percent; second, 6.0 percent versus 5.0 percent; third, 1.2 percent versus 1.4 percent; and fourth, 4.5 percent versus 4.6 percent.

Of the 1971 oil production classified by sulfur content, about 988 million barrels of oil was classified as low-sulfur oil. South Louisiana and Texas RRC Districts 2, 3, 4, and 6 and 6A accounted for about 95 percent of this oil. Production of low-sulfur oil during 1971 was 169 million barrels greater than in 1969. Main contributors to this increase were south Louisiana and Texas RRC Districts 2, 3, and 6 and 6A.

About 122 million barrels of oil produced during 1971 was classified as high-sulfur oil. Significant contributors to the high-sulfur oil were Arkansas, Mississippi, south Louisiana, and Texas RRC Districts 5 and 6 and 6A. However, of these, only Arkansas, Mississippi, and Texas RRC District 5 had more high-sulfur oil than low-sulfur oil during 1971.

In summary, this region produced about 8.1 barrels of low-sulfur oil to 1 barrel of high-sulfur oil during 1971, compared with a 7.5-to-1 ratio during 1969. There were net increases in production of both low-sulfur and high-sulfur oil between 1969 and 1971. One reason for such gains was that the

average market demand factor increased from 44 percent in 1969 to 73 percent in 1971 for Louisiana, and from 52 percent to 73 percent for Texas during the same interim. Also, in south Louisiana there was a considerable gain in the oil classified during 1971 from that of 1969 because of the addition of those fields for which crude oil analyses were run after 1969. Short-term increases in low- and high-sulfur oil production are expected in this region as the market demand factor increases.

Midcontinent

The Midcontinent region includes Kansas, Missouri, Oklahoma, southeast New Mexico, and Texas RRC Districts 7B, 7C, 8, 8A, 9, and 10. There were no data pertaining to the sulfur content of crude oil from Missouri. Therefore, Missouri's production was omitted in this study.

This region produced 1.10 billion barrels of oil during 1971, compared with 1.08 billion barrels in 1969. Of the 1971 total, 830 million barrels was classified by sulfur content. A comparison between the 1969 and 1971 oil production classification by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1969....	457,026	110,039	175,410	77,093	819,568
1971....	449,759	93,226	198,612	88,276	829,873

The percentage of the oil classified in the lowest sulfur content group decreased from 56 percent in 1969 to 54 percent in 1971; for the next group there was a decrease from 13 percent to 11 percent. Conversely, the percentages for the third and fourth groups increased from 21 percent to 24 percent and from 9 percent to 11 percent, respectively.

About 450 million barrels of oil produced during 1971 was classified as low-sulfur oil. Oklahoma, southeast New Mexico, and Texas RRC Districts 8 and 8A accounted for 78 percent of this low-sulfur oil. Although southeast New Mexico and Texas RRC District 8A had substantial gains of 5 and 19 million barrels of low-sulfur oil production, respectively, between 1969 and 1971, these gains did not offset the drop in production from the other States and State subdivisions. As a result, low-sulfur oil production in this region was about 7 million barrels less than in 1969.

In the other sulfur-content categories, the 1.01 to 2.00 percent group had the most oil: 199 million barrels out of the 380 million barrels of oil classified as high-sulfur oil for 1971. About 78 percent of the 1971 high-sulfur oil production was from Texas RRC Districts 8 and 8A. Southeast New Mexico and Oklahoma accounted for most of the remaining high-sulfur oil. There was a net increase of 18 million barrels of high-sulfur oil between 1969 and 1971 because of the gains in high-sulfur oil production from southeast New Mexico and Texas RRC District 8A.

Overall, the ratio of low-sulfur oil to high-sulfur oil changed slightly, from 1.3 barrels of oil to 1 in 1969, to 1.2 barrels of oil to 1 in 1971.

Southeast New Mexico and Texas RRC District 8A had significant gains in both low- and high-sulfur oil production; however, the gains in low-sulfur oil output did not offset the losses in other areas. Low-sulfur oil output was 7 million barrels less in 1971 than in 1969, whereas high-sulfur oil output was 18 million barrels more in 1971 than in 1969.

Rocky Mountain

The Rocky Mountain region includes Arizona, Colorado, Montana, Nebraska, North Dakota, South Dakota, Utah, Wyoming, and northwest New Mexico. It should be noted that Nebraska's oil production was totally included in this region, although some of its oil accumulations are more closely associated with those of the Midcontinent region. However, no attempt was made to subdivide this State according to the association of its oil accumulations. Virtually all of the crude oil analyses included for this region were from the Laramie (Wyo.) Energy Research Center of the Bureau of Mines.⁵

This region produced 269.7 million barrels of oil during 1971, compared with 292.3 million barrels during 1969. A total of 233.7 million barrels of the 1971 oil production was classified by sulfur content. A comparison between the 1969 and 1971 oil production classification by sulfur content follows, in thousand barrels:

Years	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1969....	134,826	38,024	41,638	57,220	271,708
1971....	110,320	32,012	37,693	53,640	233,665

The notable changes between 1969 and 1971 were in the lowest and highest sulfur content group. The percentage of the oil classified in the lowest group decreased from 50 percent in 1969 to 47 percent in 1971. Oil in the highest group increased from 21 percent in 1969 to 23 percent in 1971. For the 0.51- to 1.00-percent sulfur content group, the percentage remained at 14 percent during the interim. The percentage in the third sulfur content group had a slight change, from 15 percent in 1969 to 16 percent in 1971. It should be noted that during 1969-71 some important new fields from this region were not sampled, and that in some old fields new-oil discoveries may have been made in different formations. In a particular field, this new oil could be contributing significantly to overall production, and yet the sulfur content of the oil could be quite different from the one assigned to the field.

Of the total oil production classified by sulfur content, 110.3 million barrels of oil was classified as low-sulfur oil. The leading States in low-sulfur-oil production and their 1971 output follow: Wyoming, 49.9 million barrels; Utah, 20.9 million barrels; Montana, 14.4 million barrels; and North Dakota, 12.5 million barrels. Low-sulfur-oil production during 1971 was less than 1969 production for all States except Utah. The net result was a decline in low-sulfur-oil output from 134.8 million barrels of oil in 1969 to 110.3 million barrels in 1971.

⁵Now transferred to the Energy Research and Development Administration.

About 123.3 million barrels of oil was classified as high-sulfur oil for 1971. This was about 13.5 million barrels less than in 1969. Wyoming accounted for slightly more than two-thirds of the 1971 high-sulfur oil, but its 1971 high-sulfur-oil production was 9.5 million barrels less than in 1969. Of the remaining States, Utah had a very slight increase in high-sulfur-oil production between 1969 and 1971.

Of the total oil classified for 1971, there was more high-sulfur oil than low-sulfur oil as indicated by the ratio of 0.89 barrel of low-sulfur oil to 1 barrel of high-sulfur oil. However, this was slightly lower than the 0.98-to-1 ratio of 1969. Even with fields such as Bell Creek in Montana, Hilight in Wyoming, and Altamont and Bluebell in Utah, which are significant producers of low-sulfur oil, this region's 1971 output of low-sulfur oil declined from that of 1969.

Alaska

According to API, Alaska's total net oil production (gross minus that returned to the formation) increased from 74.1 million barrels in 1969 to 78.0 million barrels in 1971. About 78.8 million barrels of gross oil production for 1971 was classified by sulfur content. The following comparison shows the 1969 and 1971 oil production classification by sulfur content, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1969.....	74,036	277	-	-	74,313
1971.....	77,628	1,157	-	-	78,785

For the lowest sulfur content group, the percentage of the oil classified decreased from 99.6 percent in 1969 to 98.5 percent in 1971; for the other group classified it increased from 0.4 percent to 1.5 percent.

Alaska ranked fourth among the regions in the production of low-sulfur oil during 1971. Output of low-sulfur oil was about 4 million barrels higher in 1971 than in 1969. All this oil was from fields commonly referred to as the Cook Inlet fields.

The production classified as high-sulfur oil was produced from the North Slope. During 1971, this production amounted to about 1.2 million barrels, a fourfold increase over that of 1969. The sulfur content assigned to the oil from the North Slope was 0.82 percent. Therefore, the pattern of crude oil production by sulfur content could change significantly when production from the North Slope reaches full pipeline capacity.

Illinois and Michigan Basins and Appalachia

Of the 10 oil-producing States that comprise this region, only Illinois, Indiana, Kentucky, Michigan, New York, and Pennsylvania were included in this study. These six States produced 89.4 million barrels of oil during 1969, but by 1971 production dropped to 73.3 million barrels of oil. Of the 1971 total

production, about 49.3 million barrels of oil was classified by sulfur content. A comparison of the 1969 and 1971 oil production classification by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1969.....	62,447	1,236	69	-	63,752
1971.....	47,975	1,253	66	-	49,294

There was little change in the distribution of the oil classified by sulfur content for 1971 from that of 1969. The lowest sulfur content group had most of the classified oil, and during the interim its percentage of the classified oil decreased from 98 to 97 percent. For the next group the percentage increased slightly, from 1.9 percent to 2.5 percent. The next highest group, which had the remaining classified oil, maintained a level of about 0.1 percent during 1971 as in 1969. No new crude oils were analyzed from this region during 1969-71.

About 48.0 million barrels of oil was classified as low-sulfur oil for 1971. Illinois was the main contributor with 34.4 million barrels. There was a significant drop of 14.5 million barrels between the 1969 and 1971 production classified as low-sulfur oil. All six States showed a drop in low-sulfur oil production between 1969 and 1971.

As for the oil classified as high sulfur, this region produced about 1.3 million barrels, about the same in 1969. Michigan was the leading producer of high-sulfur oil during 1971 in this region, with 1.2 million barrels, or about 92.9 percent of the total high-sulfur oil. Illinois and Indiana accounted for the remainder.

Overall, the ratio of low-sulfur oil to high-sulfur oil dropped from 47.9 barrels of oil to 1 barrel in 1969 to 36.4 barrels of oil to 1 barrel in 1971. The reduction in the ratio between 1969 and 1971 emphasizes the drop in low-sulfur oil output which parallels the 16-million-barrel drop in total oil production during the same period.

California and Nevada

California and Nevada produced 358.5 million barrels of oil during 1971, compared with 375.0 million barrels during 1969. Of the 1971 total, 210.0 million barrels was classified by sulfur content. Nevada accounted for 113,000 barrels of that production, which was all the oil produced in that State during 1971. It should be noted that the 1969 data for California from the 1970-71 study (11) were revised for comparison with the results of this study. Therefore, these data will not necessarily agree with that published previously. A comparison between the 1969 and 1971 oil production classification by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1969....	39,060	76,607	71,470	36,325	223,462
1971....	32,454	73,506	68,653	35,417	210,030

The distribution of the oil classified by sulfur content for 1971 remained essentially the same as in 1969. During the interim, the percentages of the classified oil for the four sulfur content groups changed as follows: First, 17 percent to 15 percent; second, 34 percent to 35 percent; third, 32 percent to 33 percent; and fourth, 16 percent to 17 percent.

California and Nevada had 32.5 million barrels of 1971 oil production classified as low-sulfur oil. About 30.5 million barrels of this oil was produced from the San Joaquin Valley State subdivision (table 2). Low-sulfur-oil production in California and Nevada dropped 6.6 million barrels from the 39.0 million barrels of 1969.

About 177.6 million barrels was classified as high-sulfur oil for 1971. This was about 5.5 times as much as the low-sulfur oil output. However, the 1971 high-sulfur-oil production was 6.8 million barrels less than in 1969. As in the low-sulfur-content category, the San Joaquin Valley State subdivision had the most high-sulfur oil, about 48.3 percent of the total high-sulfur oil produced during 1971. All of this oil had a sulfur content that ranged from 0.51 to 2.00 percent. The other State subdivisions, Coastal and Los Angeles, had 20.8 and 30.8 percent of the high-sulfur oil, respectively. Nevada had the remaining 0.1 percent.

In summary, this region is primarily a producer of high-sulfur oil, as indicated by the ratio of 0.18 barrel of low-sulfur oil to 1 barrel of high-sulfur oil during 1971. During 1971 the drop in the production of high-sulfur oil from that of 1969 was greater than the drop of low-sulfur-oil production during the same interval. High-sulfur-oil production during 1971 dropped 6.8 million barrels from that of 1969, whereas low-sulfur oil during 1971 dropped 6.6 million barrels from that of 1969.

SULFUR CONTENT OF FOREIGN CRUDE OILS

Table 3 presents data pertaining to the sulfur content of crude oil production by fields for 24 foreign countries. For fields with an assigned sulfur content from a Bureau of Mines crude oil analysis, the geologic data and depth of formation were taken from the analysis where available. For fields with an assigned sulfur content from sources other than the Bureau of Mines, the geologic data or depth of formation were not printed. Individual field production was estimated from the average daily production for the first 6 months of 1971 as published by the Oil and Gas Journal (6).

The field production data shown in table 3 were summarized in table 4, which is a classification of the foreign crude oil production during 1971 by sulfur content and by country. For purposes of discussion, the results were grouped alphabetically as follows:

Africa (Algeria, Egypt, Gabon, Libya, and Nigeria).

Canada.

Europe (France, Netherlands, and West Germany).

Far East (Australia, Burma, Indonesia, and Japan).

Latin America (Colombia, Mexico, Peru, Trinidad-Tobago, and Venezuela).

Middle East (Abu Dhabi, Iran, Iraq, Israel, Qatar, and Saudi Arabia).

TABLE 3. - FOREIGN CRUDE OIL PRODUCTION DURING 1971 BY FIELDS^{1/} AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES

FOREIGN COUNTRY, SULFUR CONTENT CATEGORY, AND FIELD	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION, 2/ THOUSAND BARRELS
ABU DHABI						
(0.51-1.00)						
MURBAN, BAB & BU HASA.....	0.62	870007	.....	.....	.....	205,896
ALGERIA						
(0.00-0.50)						
EDJELEH.....	.09	871041	DEVONIAN.....	DEV...	.....	6,898
GASSI TOUIL.....	.02	864076	TRIASSIC 2ND.....	TRIA..	6,450	21,125
HASSI MESSAOUD ^{3/}	.15	867056	.....	.....	.....	141,318
RMOURDE EL BAGUEL.....	.31	864097	CAMBRIAN.....	CAMB..	8,560	24,064
TIN FOUE ^{3/}	.14	871043	.....	.....	.....	6,692
ZARZAITINE ^{3/}	.06	871045	DEVONIAN.....	DEV...	.....	16,131
AUSTRALIA						
(0.00-0.50)						
ALTON.....	.02	865072	EVERGREEN.....	.....	6,060	146
BARROW ISLAND.....	.02	865073	.....	.....	6,740	16,107
HALIBUT.....	.16	871050	LA TROUBE.....	.....	7,650	63,875
KINGFISH.....	.12	871049	..DO.....	.....	7,500	20,075
MOONIE.....	.02	865071	PRECIPICE.....	.....	5,641	903
BURMA						
(0.00-0.50)						
YENANGYUANG.....	.13	823225	MIOCENE.....	MIOC..	300	1,825
CANADA						
(0.00-0.50)						
ACHESON.....	.23	.....	.....	.....	.....	3,431
BONNIE GLENN.....	.25	.....	.....	.....	.....	13,432
GILBY.....	.12	.....	.....	.....	.....	1,916
GOLDEN SPIKE.....	.23	852038	D-3.....	DEV...	6,300	13,651
HARMATTAN EAST.....	.37	.....	.....	.....	.....	2,190
HARMATTAN, ELKTON.....	.44	.....	.....	.....	.....	1,635
JOARCAM.....	.13	.....	.....	.....	.....	2,154
JOFFRE.....	.17	.....	.....	.....	.....	2,409
KAYBOB.....	.04	.....	.....	.....	.....	3,978
LEDUC-WOODBEND.....	.30	849047	D-2.....	DEV...	5,050	6,096
PEMUNA.....	.24	.....	.....	.....	.....	51,100
SWAN HILLS, SOUTH.....	.11	871078	BEAVER HILL LAKE.....	DEV...	8,441	12,556
TURNER VALLEY.....	.30	.....	.....	.....	.....	1,060
WEST DRUMHELLER.....	.28	.....	.....	.....	.....	706
WESTEROSE.....	.25	.....	.....	.....	.....	3,431
WIZARD LAKE.....	.24	851085	D-3.....	DEV...	6,047	10,074
(0.51-1.00)						
EXCELSIOR.....	.64	851067	D-2.....	DEV...	3,820	589
INWISFAIL.....	.58	.....	.....	.....	.....	2,008
REDWATER.....	.55	849046	D-3.....	DEV...	3,100	21,170
SWAN HILLS.....	.80	.....	.....	.....	.....	28,068
(1.01-2.00)						
FENN-BIG VALLEY.....	1.05	852037	D-2.....	DEV...	5,325	7,154
N. VIRDEN-SCALLION.....	1.47	.....	.....	.....	.....	2,726
STETTLER.....	1.46	851028	DEVONIAN.....	DEV...	.....	1,164
VIRDEN-ROSELEA.....	1.43	.....	.....	.....	.....	1,367
(>2.00)						
WEYBURN.....	2.12	.....	.....	.....	.....	12,154
COLOMBIA						
(0.00-0.50)						
COLORADO.....	.25	848004	LA PAZ, C.....	EOCENE	3,395	315
(0.51-1.00)						
INFANTAS.....	.88	848002	LA PAZ, C.....	EOCENE	4,150	1,638
LA CIRA.....	.96	848003	..DO.....	..DO..	3,038	6,264
PAYOA.....	.83	870012	.....	..DO..	7,000	2,986
TIBU.....	.99	847042	.....	.....	.....	4,696
(1.01-2.00)						
CASABE.....	1.06	848008	ARGILLACEOUS, MUGROSA...	OLIG..	4,386	2,731
GALAN.....	1.11	848001	COLORADO, A.....	..DO..	3,480	466

SEE FOOTNOTES AT END OF TABLE.

TABLE 3. - FOREIGN CRUDE OIL PRODUCTION DURING 1971 BY FIELDS^{1/} AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

FOREIGN COUNTRY, SULFUR CONTENT CATEGORY, AND FIELD	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION ^{2/} THOUSAND BARRELS
EGYPT						
(0.51-1.00)						
EL ALAMEIN.....	0.84	870011	.....	.....	.....	8,965
(1.01-2.00)						
EL MORGAN.....	1.67	869069	MIOCENE.....	MIOC..	.....	95,217
FRANCE						
(>2.00)						
LACQ SUPERIEUR.....	4.34	853062	.....	.....	.....	395
GABON						
(0.00-0.50)						
BATANGA.....	.44	868052	SENONIAN.....	CRET..	5,986	226
CAP LOPEZ.....	.50	868049	..DO.....	..DO..	5,396	259
GAMBA.....	.18	868046	GAMBA.....	..DO..	2,020	13,177
(0.51-1.00)						
CAP LOPEZ, NORTH.....	.86	868050	SENONIAN.....	CRET..	5,632	1,701
POINTE CLAIRETTE.....	.55	868047	..DO.....	..DO..	3,608	1,102
TCHENGUE.....	.80	868048	MIOCENE.....	MIOC..	3,280	1,332
GERMANY, WEST						
(0.51-1.00)						
GEORGSDORF.....	.94	852008	.....	.....	.....	3,474
NIENHAGEN-HANIGSEN.....	.87	852006	.....	.....	.....	401
SUDERBRUCH.....	.71	852005	.....	.....	.....	526
INDONESIA						
(0.00-0.50)						
BEKASAP.....	.17	870013	.....	.....	.....	38,748
DURI.....	.18	869074	TERTIARY.....	TERT..	.....	13,830
LEDOK.....	.16	801240	MIOCENE.....	MIOC..	1,033	87
MINAS.....	.13	870004	.....	.....	.....	149,183
PEMATANG.....	.10	870014	.....	.....	.....	24,378
SANGA-SANGA.....	.10	801247	MIOCENE.....	MIOC..	1,148	563
SEMANGI.....	.10	801243	..DO.....	..DO..	1,758	44
TARAKAN.....	.14	830397	PLIOCENE.....	PLIO..	1,115	569
IRAN						
(1.01-2.00)						
AGHA JARI.....	1.39	849014	ASMARI.....	MIOC..	4,500	309,520
GACH SARAN.....	1.57	870113	..DO.....	..DO..	4,268	321,930
HAFT KEL.....	1.12	830319	..DO.....	..DO..	3,300	16,425
(>2.00)						
CYRUS.....	3.68	869086	.....	.....	.....	8,849
DARIUS.....	2.44	869085	.....	.....	.....	36,583
SASSAN.....	2.06	869080	ARAB.....	JUR..	.....	50,162
IRAQ						
(1.01-2.00)						
KIRKUK.....	1.93	848019	.....	.....	.....	400,442
ISRAEL						
(1.01-2.00)						
MELETZ-BRUR.....	1.66	866028	CRETACEOUS.....	CRET..	4,869	347
KOCHAV.....	1.85	866033	JURASSIC.....	JUR..	5,338	128
JAPAN						
(0.00-0.50)						
KUBIKI.....	.10	800976	MIOCENE.....	MIOC..	.....	822
(0.51-1.00)						
NIITSU.....	.52	800972	MIOCENE.....	MIOC..	1,200	74

SEE FOOTNOTES AT END OF TABLE.

TABLE 3. - FOREIGN CRUDE OIL PRODUCTION DURING 1971 BY FIELDS^{1/} AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

FOREIGN COUNTRY, SULFUR CONTENT CATEGORY, AND FIELD	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION ^{2/} THOUSAND BARRELS
LIBYA						
(0.00-0.50)						
AMAL.....	0.14	865064	AMAL.....	TERT..	9,715	59,279
BEDA.....	.45	864080	HOFRA.....	..DO..	3,900	2,875
BEL MEDAN.....	.25	864025	SAHAB.....	ORD..	7,100	2,397
DAHRA.....	.42	864024	PLS.....	PALEO.	3,100	12,152
DEFA.....	.26	864128	PALEOCENE.....	..DO..	5,478	60,504
FARUD.....	.39	868038	MABRUK A.....	..DO..	3,245	1,642
HOFRA.....	.33	860013	PALEOCENE.....	..DO..	3,078	1,899
ORA.....	.22	865060	MS9.....	QUART.	4,900	4,122
RAKB.....	.23	865058	RAKB.....	MIOC..	9,337	4,210
SAHAB.....	.25	864127	CRET. + ORD. + CAMB.....	CRET..	6,300	20,829
SARIR.....	.16	868054	.....	.....	8,030	160,698
UMM FARUD.....	.13	868024	BUCHARMA B + DAHRA B.....	PALEO.	2,700	1,533
WAHA.....	.24	864129	CRETACEOUS.....	CRET..	6,500	47,212
ZAGGUT.....	.30	864131	PALEOCENE.....	PALEO.	6,400	1,003
ZELTEN.....	.23	860008	..DO.....	..DO..	5,770	130,635
(0.51-1.00)						
GIALO.....	.52	864125	GIALO.....	EOCENE	2,735	131,184
KOTLA.....	.84	864077	GHERIAT.....	CRET..	5,315	4,350
(1.01-2.00)						
ED DIR.....	1.31	868037	GIR.....	EOCENE	2,666	812
MEXICO						
(0.00-0.50)						
FCO. CANO.....	.13	854230	.....	.....	.....	151
MONTERREY.....	.10	854241	.....	.....	.....	1,522
(1.01-2.00)						
LOS SOLDADOS.....	1.75	854217	CONCEPCION.....	TERT..	7,062	1,196
POZA RICA.....	1.77	854211	TAMABRA.....	CRET..	7,218	19,261
TONALA.....	1.60	854235	ENCANTO.....	MIOC..	2,472	564
(>2.00)						
ALAMO SAN ISIDRO.....	2.95	800990	.....	.....	.....	185
ANGOSTURA.....	5.18	854243	MENDEZ + ESCAMELA.....	CRET..	3,780	186
ARROYO BLANCO.....	2.16	854216	ENCANTO.....	MIOC..	2,543	57
AVILA CAMACHO.....	2.93	854210	CHICONTEPEC.....	TERT..	5,200	318
E. ORDOÑEZ.....	3.23	854205	.....	.....	4,807	1,660
EBANO-PANUCO.....	5.38	854207	CALIZA VERDE.....	CRET..	1,804	3,245
EL BURRO.....	2.06	854226	ENCANTO.....	MIOC..	3,409	321
EL PLAN.....	3.50	854238	LIGNITIC CEDRAL.....	TERT..	2,142	2,092
HORCON.....	3.50	854218	EL ABRA.....	CRET..	2,805	64
MOLOACAN.....	4.20	854208	ENCANTO.....	MIOC..	1,491	607
MOZUTLA.....	3.93	854206	EL ABRA.....	CRET..	4,150	80
NARANJOS-C. AZUL.....	3.80	854227	..DO.....	..DO..	1,597	3,031
OCOTEPEC.....	3.45	854214	..DO.....	..DO..	3,412	325
SANTA AGUEDA.....	3.98	854242	..DO.....	..DO..	4,659	1,998
NETHERLANDS						
(0.51-1.00)						
IJESSELMONDA.....	.53	858037	BARREMIAN.....	CRET..	3,100	3,188
SCHOONEBEEK.....	.96	858036	VALANGINIAN.....	..DO..	2,500	5,957
NIGERIA						
(0.00-0.50)						
DELTA.....	.18	868062	MIOCENE.....	MIOC..	5,642	7,043
MEJI.....	.15	868068	..DO.....	..DO..	9,049	7,074
MEREN.....	.09	868065	..DO.....	..DO..	.....	30,177
OBAGI.....	.21	868061	..DO.....	..DO..	6,850	15,747
PHL-AFAM.....	.09	864139	..DO.....	..DO..	9,000	3,078
PHL-APARA.....	.11	864138	..DO.....	..DO..	9,500	355
PHL-BOMU.....	.20	864134	..DO.....	..DO..	7,050	16,801
PHL-EBUBU.....	.20	864137	..DO.....	..DO..	7,650	937
PHL-IMO RIVER.....	.20	864135	..DO.....	..DO..	5,800	37,999
PHL-UMUECHEM.....	.14	864132	..DO.....	..DO..	7,900	11,977
PHS-OLUBIRI.....	.26	864133	..DO.....	..DO..	8,000	1,534
PERU						
(0.00-0.50)						
LA BREA-PARINAS.....	.12	847054	.....	.....	.....	4,380

SEE FOOTNOTES AT END OF TABLE.

TABLE 3. - FOREIGN CRUDE OIL PRODUCTION DURING 1971 BY FIELDS^{1/} AND SULFUR CONTENT
WITH RELATED FIELD DATA FROM BUREAU OF MINES OIL ANALYSES - CONTINUED

FOREIGN COUNTRY, SULFUR CONTENT CATEGORY, AND FIELD	SULFUR WEIGHT- PERCENT	ANALYSIS NUMBER	FORMATION	AGE	DEPTH, FEET	1971 OIL PRODUCTION ^{2/} THOUSAND BARRELS
QATAR						
(1.01-2.00)						
IDD EL SHARGI.....	1.99	870003	.....	.....	.....	16,853
MAYDAN-MAHZAN.....	1.48	870002	.....	.....	.....	64,928
SAUDI ARABIA						
(1.01-2.00)						
ABQAIQ.....	1.30	870063	.....	.....	.....	325,774
ABU HADRIYA.....	1.69	848005	CRETACEOUS.....	CRET..	10,000	37,851
DAHMAM.....	1.54	847053	.....	.....	.....	7,881
FADHILI.....	1.25	870064	.....	.....	.....	17,474
GHAWAR.....	1.85	857009	ARAB D: CLASTIC.....	JUR..	.....	751,129
KHURAIIS.....	1.73	870068	.....	.....	.....	8,131
(>2.00)						
ABU SA FAH.....	2.61	870067	.....	.....	.....	30,289
BERRI.....	2.24	870070	.....	.....	.....	56,900
KHURSANIYA.....	2.54	857006	ARAB D: CLASTIC.....	JUR..	.....	27,102
MANIFA.....	2.75	870069	.....	.....	.....	1,854
QATIF.....	2.55	857018	ARAB C: CLASTIC.....	JUR..	.....	34,706
SAFANIYA.....	2.97	867066	.....	.....	.....	288,853
TRINIDAD-TOBAGO						
(0.51-1.00)						
BARRACKPORE.....	.54	800950	.....	.....	.....	776
FYZABAD.....	.95	800951	.....	.....	.....	2,104
(>2.00)						
BRIGHTON.....	2.63	800954	.....	.....	.....	1,899
VENEZUELA						
(0.00-0.50)						
GUAPIO.....	.13	847044	.....	.....	.....	403
LA CEIBITA.....	.41	869106	.....	.....	.....	5,235
SAN JOAQUIN.....	.14	852030	.....	.....	.....	850
SANTA ROSA.....	.09	870026	.....	.....	.....	12,661
ZAPATOS.....	.48	870030	.....	.....	.....	7,036
(0.51-1.00)						
LA CONCEPCION.....	.88	826273	.....	.....	.....	2,267
MATA.....	.60	870066	OFICINA+MERCURE.....	PLIO..	.....	20,370
OFICINA.....	.59	847045	.....	.....	.....	17,549
(1.01-2.00)						
CABIMAS.....	1.71	867069	.....	.....	.....	29,944
CHIMIRE.....	1.07	870023	.....	.....	.....	6,238
DACION.....	1.29	870001	.....	.....	.....	3,985
GUARA.....	1.85	869105	.....	.....	.....	9,831
LAMA.....	1.47	870029	.....	.....	.....	116,890
QUITRIQUIRE.....	1.33	870022	.....	.....	.....	8,035
SILVESTRE.....	1.17	869103	.....	.....	.....	4,451
SINCO.....	1.38	869102	.....	.....	.....	10,354
TIA JUANA.....	1.54	870024	.....	.....	.....	136,154
TUCUPITA.....	1.05	847046	.....	.....	.....	1,351
(>2.00)						
BACHAQUERO.....	2.68	870025	.....	.....	.....	269,681
BOSCAN.....	5.54	871024	.....	.....	.....	24,942
LAGUNILLAS.....	2.18	847043	.....	.....	.....	343,126
MENE GRANDE.....	2.65	823539	.....	.....	.....	4,467
MEREY.....	2.52	870015	.....	.....	.....	10,033
PILON.....	2.11	870016	.....	.....	.....	8,732

^{1/} INCLUDES ONLY THOSE FIELDS WITH ASSIGNED SULFUR CONTENT.

^{2/} SOURCE: THE OIL AND GAS JOURNAL. WORLDWIDE PRODUCTION. V. 69, NO. 52, DEC. 27, 1971, PP. 86-106. PRODUCTION FIGURES ARE ESTIMATES BASED ON THE AVERAGE DAILY PRODUCTION RATE FOR FIRST 6 MONTHS OF 1971.

^{3/} INCLUDES HASSI MESSAOUD, NORTH AND SOUTH, COMBINED.

^{4/} INCLUDES TIN FOUYE, NORTH.

^{5/} INCLUDES ZARZAITINE, NORTH.

TABLE 4. - CLASSIFICATION OF 1971 CRUDE OIL PRODUCTION FROM FOREIGN COUNTRIES, BY SULFUR CONTENT

(THOUSANDS OF BARRELS)

FOREIGN COUNTRY	SULFUR CONTENT, PERCENT BY WEIGHT				TOTAL ^{1/}
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
ABU DHABI.....	.....	205,896	.....	.....	205,896
ALGERIA.....	216,228	.....	.....	.....	216,228
AUSTRALIA.....	101,106	.....	.....	.....	101,106
BURMA.....	1,825	.....	.....	.....	1,825
CANADA.....	129,919	51,835	12,411	12,194	206,219
COLOMBIA.....	315	15,504	3,197	.....	19,096
EGYPT.....	.....	8,965	95,217	.....	104,182
FRANCE.....	.....	.....	.....	395	395
GABON.....	13,662	4,135	.....	.....	17,797
GERMANY, WEST.....	.....	4,401	.....	.....	4,401
INDONESIA.....	227,402	.....	.....	.....	227,402
IRAN.....	.....	.....	647,875	95,594	743,469
IRAQ.....	.....	.....	400,442	.....	400,442
ISRAEL.....	.....	.....	475	.....	475
JAPAN.....	822	74	.....	.....	896
LIBYA.....	510,994	135,534	812	.....	647,340
MEXICO.....	1,673	.....	21,021	14,169	36,863
NETHERLANDS.....	.....	9,145	.....	.....	9,145
NIGERIA.....	132,722	.....	.....	.....	132,722
PERU.....	4,380	.....	.....	.....	4,380
QATAR.....	.....	.....	81,781	.....	81,781
SAUDI ARABIA.....	.....	.....	1,148,240	439,704	1,587,944
TRINIDAD-TOBAGO.....	.....	2,880	.....	1,899	4,779
VENEZUELA.....	26,185	40,186	327,233	660,981	1,054,585
TOTAL ^{1/}	1,367,133	478,635	2,738,704	1,224,896	5,809,368

^{1/}TOTAL INCLUDES ONLY PRODUCTION FROM THOSE FIELDS WITH ASSIGNED SULFUR CONTENT AND MAY NOT BE ALL OF THE PRODUCTION FROM EACH COUNTRY.

NOTE.--PRODUCTION FIGURES ARE ESTIMATES BASED ON THE AVERAGE DAILY PRODUCTION RATE FOR FIRST 6 MONTHS OF 1971.

Overall, about 5.81 billion barrels of oil, or 64 percent of the 1971 oil production from the countries listed in table 4, was classified according to sulfur content. Of the total oil classified, low-sulfur oil accounted for 24 percent. Africa was the main producer with 64 percent of the oil. The Far East had 24 percent of this oil, while Canada and Latin America had 10 percent and 2 percent, respectively.

As indicated in table 4, about 4.44 billion barrels of oil produced during 1971 was classified as high-sulfur oil, about three times as much as that classified as low-sulfur oil. The Middle East and Latin America accounted for about 92 percent of this oil, with 3.02 billion barrels and 1.09 billion barrels, respectively. It is interesting that the Middle East and Latin America (Venezuela) have such concentrations of high-sulfur oil and also supply large quantities of oil to other parts of the world.

An individual writeup for each group of countries considered for this study is included. However, it does not include a comparison of results with previous work.

Africa

About 54 percent of the total oil produced during 1971 from the countries considered in this study as comprising Africa was classified according to sulfur content. The classification of 1971 oil production by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1971.....	873,606	148,634	96,029	-	1,118,269

Overall, the production classified as low-sulfur oil far outweighed the production classified as high-sulfur oil for 1971. Main producers of low-sulfur oil during 1971 were Libya (511 million barrels), Algeria (216 million barrels), and Nigeria (133 million barrels). Libya and Egypt accounted for over 98 percent of the high-sulfur oil. Of the oil classified, Gabon had the lowest volume with 18 million barrels, but 14 million barrels of that was of low sulfur content.

Canada

About 43 percent of the oil produced during 1971 in Canada was classified according to sulfur content. The classification of its 1971 oil production by sulfur content is shown in table 4. Of significance in Canada was that, of the oil classified, the low-sulfur exceeded the high-sulfur oil. This is emphasized by its ratio of 1.7 barrels of low-sulfur oil to 1 barrel of high-sulfur oil.

Europe

About 18 percent of the 1971 oil production from the countries considered in this study as comprising Europe was classified according to sulfur content. The classification of 1971 oil production by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1971.....	-	13,546	-	395	13,941

All of the oil classified was high-sulfur oil. Almost two-thirds of this oil was from the Netherlands. The relatively low volume of oil classified tends to lessen the significance of the classification.

Far East

About 78 percent of the total oil produced during 1971 from the countries considered in this study as comprising the Far East was classified according to sulfur content. The classification of 1971 oil production by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1971.....	331,155	74	-	-	331,229

Virtually all of the production from the Far East during 1971 was classified as low sulfur. Indonesia and Australia were the leaders in low-sulfur oil output during 1971, with 227 million barrels and 101 million barrels, respectively. Japan accounted for the only high-sulfur oil.

Latin America

Approximately two-thirds of the oil produced during 1971 from the countries considered in this study as comprising Latin America was classified by sulfur content. The classification of 1971 oil production by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1971.....	32,553	58,650	351,451	677,049	1,119,703

Overall, Venezuela accounted for about 94 percent of the total oil classified for Latin America. Venezuela accounted for 80 percent of the low-sulfur oil of Latin America and for about 95 percent of the high-sulfur oil. Therefore, Venezuela dominated to a great extent the pattern of oil supply by sulfur content from Latin America. Mexico and Colombia had most of the remaining production, which was primarily of high sulfur content.

Middle East

About 69 percent of the oil produced during 1971 from the countries considered in this study as comprising the Middle East was classified by sulfur content. The classification of 1971 oil production by sulfur content follows, in thousand barrels:

Year	Sulfur content, weight-percent				Total
	0.00-0.50	0.51-1.00	1.01-2.00	>2.00	
1971.....	-	205,896	2,278,813	535,298	3,020,077

All of the classified oil from the Middle East was high-sulfur oil. Saudi Arabia had 52.6 percent of this oil, and Iran had about 24.6 percent. The remainder was divided among Iraq with about 13.3 percent, Abu Dhabi with about 6.8 percent, Qatar with about 2.7 percent, and Israel with less than 1 percent.

CONCLUSIONS

This study includes data pertaining to the sulfur content of crude oils from both the United States and foreign countries. About 76 percent of the 1971 oil production of the United States and 64 percent of the 1971 oil production from the foreign countries considered in this study was classified according to sulfur content.

Of the oil classified, low-sulfur-oil production during 1971 in the United States was about 1.71 billion barrels, slightly more than twice that of high-sulfur oil. Between 1969 and 1971, production of low-sulfur oil increased by about 8 percent. During the interim, high-sulfur-oil production increased by about 1.5 percent. The relative increase in low-sulfur oil is important because the demand for fuels of low-sulfur content is increasing owing to air quality standards.

Foreign crude oil production for 1971 was estimated from the average daily production for the first 6 months of 1971. A total of 5.81 billion barrels of oil was classified according to sulfur content. Of this total, 1.37 billion barrels was low sulfur, and 4.44 billion barrels was high sulfur. About 88 percent of the low-sulfur oil was from countries of Africa and the Far East. The Middle East and Latin America accounted for 92 percent of the high-sulfur oil. This is significant in that large quantities of this oil are exported to other countries, principally the United States.

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