

116

S
74.GS:
IP 116
C.3

Geol Survey



STATE OF ILLINOIS

INSTITUTE OF NATURAL RESOURCES

PETROLEUM INDUSTRY IN ILLINOIS, 1978

Part I. Oil and Gas Developments

Part II. Waterflood Operations

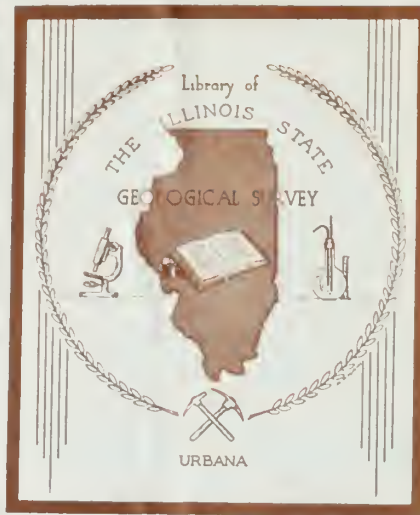
Jacob Van Den Berg

ILLINOIS STATE GEOLOGICAL SURVEY

1980

ILLINOIS PETROLEUM 116

URBANA, IL 61801



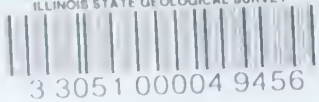
Van Den Berg, Jacob

Petroleum industry in Illinois, 1978. Part I. Oil and gas development. Part II. Waterflood operations. Urbana : Illinois State Geological Survey, 1980.

132p. : ill. ; tables ; 28cm. - (Illinois State Geological Survey. Illinois Petroleum ; 116)

1. Petroleum industry and trade--Illinois

ILLINOIS STATE GEOLOGICAL SURVEY




3 3051 00004 9456

PETROLEUM INDUSTRY IN ILLINOIS, 1978

JACOB VAN DEN BERG

Illinois State Geological Survey
Jack Simon, Chief

Urbana, Illinois 61801
Illinois Petroleum 116/1980



Digitized by the Internet Archive
in 2012 with funding from
University of Illinois Urbana-Champaign

<http://archive.org/details/petroleumindustr116vand>

CONTENTS

Abstract	iv	Productive acreage	6
		Gas production	6
Part I. Oil and Gas Developments		Underground storage of liquefied petroleum gas	6
Oil production and value	1	Underground storage of natural gas	6
1978 drilling	1	Surface storage of liquefied natural gas	6
Discoveries	2		
Exploration	2	Part II. Waterflood Operations	
Fields revived and abandoned	4	Summary of secondary recovery operations	71
Fields consolidated	4	Explanation of tables	71
Geologic column	4	Conclusions	71
Crude oil reserves	4		

TABLES

1A. Summary of oil and gas drilling activity and oil production in 1978	7
1B. Summary of underground natural gas storage drilling activity in 1978	8
2. Discovery wells of four new fields in 1978	8
3. Discovery wells of 18 extensions to fields in 1978	9
4. Discovery wells of 21 new pay zones in fields in 1978	10
5. Selected unsuccessful deep tests in 1978	11
6. Underground storage facilities for liquefied petroleum gases in Illinois, January 1, 1979	11
7. Active underground natural gas storage projects in Illinois—January 1, 1979	12
8. Illinois oil field statistics, 1978	14
9. Illinois gas field statistics, 1978	64
10. Project numbers by county and summary of waterflood projects in 1978	73
11. Waterflood operations in Illinois, 1978	74
12. Illinois waterfloods for 1978 by counties	128
13. Illinois oil fields having active waterfloods during 1978	129
14. Summary of waterflood statistics, 1949-1978	132

FIGURES

1. Major tectonic features of Illinois and their relations to significant holes drilled during 1978	3
2. Generalized geologic column of southern Illinois	5

ACKNOWLEDGMENTS

The cooperation of many individuals and companies in the oil and gas industry make this report possible. We appreciate their cooperation.

ABSTRACT

Illinois produced 23,361,919 barrels of crude oil in 1978, a decrease of 8.8 percent from 1977. The value of this crude oil is estimated to be \$325 million.

New test holes drilled for oil and gas numbered 1,035, one less than in 1977. These tests resulted in 513 oil wells, 14 gas wells, and 508 dry holes. In addition, 36 former dry holes were reworked, or deepened, and re-completed as oil producers (35 oil, 1 gas); and 27 former producers were reentered and recompleted as oil producers in new pay zones. In oil and gas exploration and development, total footage drilled in 1978 was 3,084,466. This figure, which includes service wells and structure tests, represents a decrease of less than 1 percent from 1977.

Of the 1,035 new tests for oil and gas, 193, or 18.6 percent, were half a mile or more from production (wildcats); 21 were completed as producers, a success ratio of 10.9 percent. Seventy-one of the wildcats were more than 1.5 miles from production (wildcat fars); 3 wildcat fars were completed as producers, a success ratio of 4.2 percent.

In 1978, 227 service wells (water input, salt water disposal, etc.) were reported, an increase of 35.9 percent from 1977. Of these, 71 were newly drilled wells; and 156 were old wells, mostly former producers, converted to service wells.

Three oil fields, 1 gas field, 18 extensions to fields, and 21 new pay zones in existing fields were discovered in 1978.

Five new waterflood projects were reported by their respective operators and six projects were abandoned. New projects increased the area subject to fluid injection by 1,425 pay acres.

Secondary recovery production was estimated at 13,316,300 barrels of crude oil. Waterfloods accounted for 13,163,400 barrels, or 56.3 percent of the state total; and pressure maintenance projects reported 152,900 barrels, or 0.7 percent of the state total.

Part I. Oil and Gas Developments

OIL PRODUCTION AND VALUE

Illinois oil fields produced 23,361,919 barrels of crude oil in 1978. Production decreased 8.8 percent, or 2,246,194 barrels less than in 1977.

Table 1A lists, by counties, the number of holes drilled, the footage drilled, and the oil production in 1978. Holes drilled are classified as tests for oil and gas, service wells, and structure tests. The oil production and other data for each of the oil fields in Illinois are shown in Table 8.

Crude oil production figures by fields are received from one source, the production figure for the state as a whole from another. The latter source is believed more accurate concerning the state's production as a whole. The discrepancy in figures from the two sources is accounted for by the 669,553 barrels of crude oil for which the field and county assignments are unknown (tables 1A and 8).

Nine counties had more than 750,000 barrels of oil production each in 1978. Their combined production accounted for 73 percent of the total oil production of Illinois:

County	1978 production (bbl)	Percentage of state's total
Wayne	3,365,918	14.4
White	3,062,575	13.1
Lawrence	2,540,679	10.9
Marion	2,369,039	10.2
Fayette	1,803,540	7.7
Crawford	1,267,902	5.4
Clay	976,867	4.2
Wabash	867,622	3.7
Richland	800,940	3.4
Total	17,055,082	73.0

The fields in Illinois that produced more than 200,000 barrels of oil each in 1978 accounted for 68.8 percent of the state's total production:

Field*	1978 production (bbl)	Percentage of state's total
Southeastern Illinois		
oil field†	4,191,449	17.9
Clay City C	3,129,699	13.4
Salem C	2,230,923	9.5
Louden	1,842,721	7.9
New Harmony C	1,297,902	5.6
Phillipstown C	668,650	2.9
Keenville	636,776	2.7
Sailor Springs C	559,054	2.4
Roland C	386,878	1.7
Johnsonville C	347,617	1.5
Springerton S	322,648	1.4
Dale C	238,956	1.0
Storms C	211,458	0.9
Total	16,064,731	68.8

* C = Consolidated

† Comprising Allendale and Main Consolidated fields, and Clark County and Lawrence County Divisions in table 8.

Estimated value of crude oil produced in Illinois in 1978 is \$325 million.

1978 DRILLING

In 1978, 1,331 wells were completed in connection with oil and gas exploration and development (table 1A), an increase of 2.8 percent from 1977. These wells include the following: new holes drilled as oil and gas tests; former dry holes reworked, or deepened, and recompleted as producers; former producers reworked, or deepened, and recompleted as producers in new pay zones; new holes drilled as service wells and old holes converted to service wells; and structure tests. In addition, the gas industry reported 39 wells in 1978 (table 1B), a decrease of 71.5 percent from 1977. These wells include 34 injection and

withdrawal wells, 3 service wells, and 2 structure tests.

In testing for oil and gas, 1,035 new holes were drilled in 1978, one less than in 1977. Wells in waterflood projects are included. These tests resulted in 513 oil wells, 14 gas wells, and 508 dry holes. In addition, 36 former dry holes were reworked, or deepened, and recompleted as producers (35 oil, 1 gas), and 27 former producers were reentered and recompleted as oil producers in new pay zones. A total of 227 service wells (water input, saltwater disposal, etc.) was reported in 1978, an increase of 35.9 percent from 1977; these included 71 new wells drilled and 156 old wells converted to service wells. Only 6 structure tests were drilled in connection with oil exploration and development.

Of the 102 counties in Illinois, 44 had new holes drilled as oil and gas tests in 1978. Ten counties accounted for 70.1 percent of the total of 1,035 tests: Wayne (157), White (149), Crawford (82), Clay (70), Wabash (59), Clark (45), Jefferson (45), Hamilton (44), Lawrence (38), Edwards (37).

Total footage drilled in 1978 in connection with oil and gas exploration and development, including service wells and structure tests, was 3,084,466, a decrease of less than 1 percent from 1977. For the 1,035 new holes drilled as oil and gas tests, the total footage was 2,913,483, and average of 2,815 feet per well. In 1977 the average was 2,871 feet. Total footage drilled in 1978 in connection with underground storage of natural gas was 129,633 feet, down 38.9 percent from 1977.

Discoveries

Three oil fields, 1 gas field, 18 extensions to fields, and 21 new pay zones in fields were discovered in Illinois in 1978 (fig. 1; tables 2, 3, and 4). All of the new fields produce from the Mississippian. Of the 21 new pay zones, 1 is of Pennsylvanian age, 19 are Mississippian, and 1 is Ordovician. None of the discoveries significantly changes the estimation of oil reserves in Illinois.

Exploration

There were 1,035 new tests for oil and gas in 1978, of which 193 (18.6 percent) were wildcats (.5 mile or more from production). Twenty-one of the wildcats were completed as producers, a

success ratio of 10.9 percent. Of the 122 wildcats drilled between 0.5 and 1.5 miles from production (wildcats nears), 18 were producers, a success of 14.8 percent. The 71 wildcats drilled more than 1.5 miles from production (wildcat fars) resulted in 3 producers, a success ratio of 4.2 percent.

Forty of the 44 counties in which new oil and gas tests were drilled had at least one wildcat test, including wildcat nears and fars. Jefferson County led with 24 tests, followed by White (22), Hamilton (20), Wayne (14), Clay (9), Marion (8), Sangamon (7), Clark, Crawford, and Franklin (6 each), and Washington (5). Each of the other counties had four or fewer wildcat tests.

Of the 71 wildcat fars, 29 tested rocks below the Mississippian: 11 Devonian, 15 Silurian, and 3 Ordovician; none of these deeper wells was successful.

Deeper production was discovered in 11 oil fields in 1978: McClosky production in Ellery East; Salem and Ullin production in Parkersburg Consolidated; Salem production in Phillipstown Consolidated and Sailor Springs Consolidated; Ullin production in Dale Consolidated, Ellery South, Johnsonville West, Mt. Carmel, and Trumbull Consolidated; Fort Payne production in New Harmony Consolidated; and "Trenton" production in Lawrence.

Unsuccessful tests to find deeper production were drilled in 28 fields. The pay zones at total depth and the fields are as follows: Salem in Albion Consolidated, Albion East, Hickory Hill, Kenner North, Oakdale, Toliver East, and Yale; Ullin in Barnhill, Bone Gap East, Centerville East, Coil West, Divide South, Johnsonville Consolidated, Johnsonville South, Keenville East, Locust Grove, Markham City North, Markham City West, and Sumpter East; Fort Payne in Allendale; Devonian in Lexington, Maunie North Consolidated, Phillipstown Consolidated, Raleigh, and Russellville; Silurian in Posey West; and "Trenton" in King and Panama.

Discovery of oil in the Fort Payne Formation in New Harmony Consolidated field in White County (fig. 1; table 4) was the highlight of reported activity in 1978. Twelve Fort Payne producers were reported during the year and through January 1979. Initial production figures ranged from 12 to 600 barrels of oil per day and averaged 210 barrels of oil per day. The Fort Payne, confined to southern Illinois, is early Valmeyeran in age. It is a cherty limestone underlying the Ullin

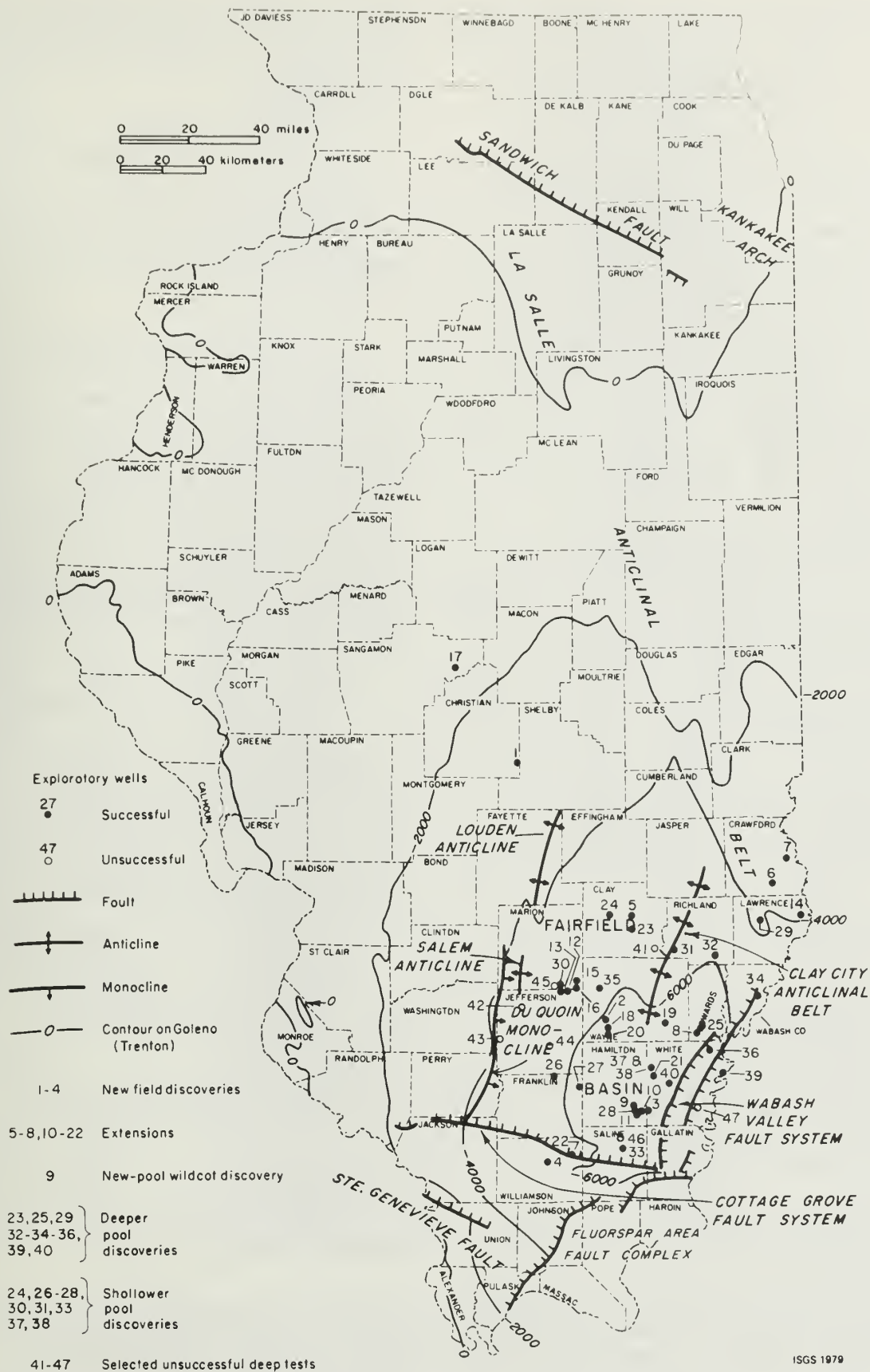


Figure 1. Major tectonic features of Illinois and their relations to significant holes drilled during 1978. Numbered holes shown are listed in tables 2, 3, 4, and 5.

Limestone; and it is fractured in the area of production in New Harmony Consolidated field. Production is from broken porosity in the depth interval between approximately 4,000 and 4,500 feet.

As in the past several years, testing of the Salem and the immediately underlying Ullin was largely responsible for maintaining activity at a fairly high level in 1978. Of the 1,093 tests, including 58 old wells drilled deeper, 308 (28 percent) bottomed in the Salem or Ullin. Of the 4 new fields, 1 produces from Salem and 1 from Ullin. Of the 21 new pay zones in fields, 6 are Salem and 6 are Ullin. A total of 84 Salem producers was completed in 24 fields; 33 Ullin producers were completed in 13 fields. Most of the Salem and Ullin activity is in the deep part of the basin in a nine-county area with Wayne County at the center.

In a four-section area in Clark County where Johnson North and Martinsville fields (both discovered in 1907) meet, 13 "Trenton" producers were reported in 1978. "Trenton" production was discovered in Martinsville field in 1923, but only 9 "Trenton" producers had been completed to the end of 1976. "Trenton" production was discovered in Johnson North field in 1977. At the end of 1978, there were 10 "Trenton" producers in Johnson North and 29 in Martinsville. Highest initial production figure was 85 barrels of oil per day. Production is from a depth of approximately 2,800 feet, the deepest production in both fields.

FIELDS REVIVED AND ABANDONED

Eight abandoned oil fields were revived by successful drilling in 1978: Black River in White County, Carlyle East in Clinton County, Ellery South in Edwards County, Hickory Hill in Marion County, Hidalgo South in Jasper County, Locust Grove South in Wayne County, Macedonia in Franklin County, and Schnell East in Richland County.

Five oil fields, which had a combined total of 31 wells and a combined cumulative production of 291,000 barrels of oil, were abandoned in 1978. The fields, with number of wells and cumulative oil production, are as follows: Bannister in Marion County, 1 well, 8,600 barrels; Holliday in Fayette County, 1 well (discovered in 1977, no production has been reported); Kenner South in Clay County,

4 wells, 20,600 barrels; Marine West in Madison County, 6 wells, 25,200 barrels; and Parkersburg West in Richland and Edwards Counties, 19 wells, 237,000 barrels.

FIELDS CONSOLIDATED

Maple Grove South and Samsville West fields in Edwards County have been consolidated. The name of the consolidated field is Maple Grove South Consolidated.

GEOLOGIC COLUMN

Figure 2 is a generalized geologic column of southern Illinois. It does not show the Pleistocene deposits that cover much of Illinois bedrock, the Tertiary and Cretaceous rocks that occur in a belt across the southern end of the state, nor the approximately 4,000 feet of Ordovician and Cambrian rocks between the base of the St. Peter Sandstone and top of the Precambrian basement. Pay zones are indicated on the geologic column by solid dots.

CRUDE OIL RESERVES

Beginning with 1978, the American Petroleum Institute's (API) estimate of proved crude oil reserves in Illinois will be included in our annual report. According to the API, the estimate of proved crude oil reserves declined 12.0 million barrels, or 8.0 percent, during 1978.

	Thousands of barrels
Estimated proved reserves 12/31/77	149,959
Additions during 1978:	
New field, new pay zones, and extensions	684
Net upward revisions	9,904
	160,547
Less 1978 production	<u>22,620[†]</u>
Estimated proved reserves, 12/31/78	137,927*

*American Petroleum Institute, June 1979, Reserves of crude oil, natural gas liquids, and natural gas in the United States and Canada—1978; v. 33, p. 22-23.

[†]This differs from 23,362,000 barrels reported by the Illinois Geological Survey's sources of production figures.

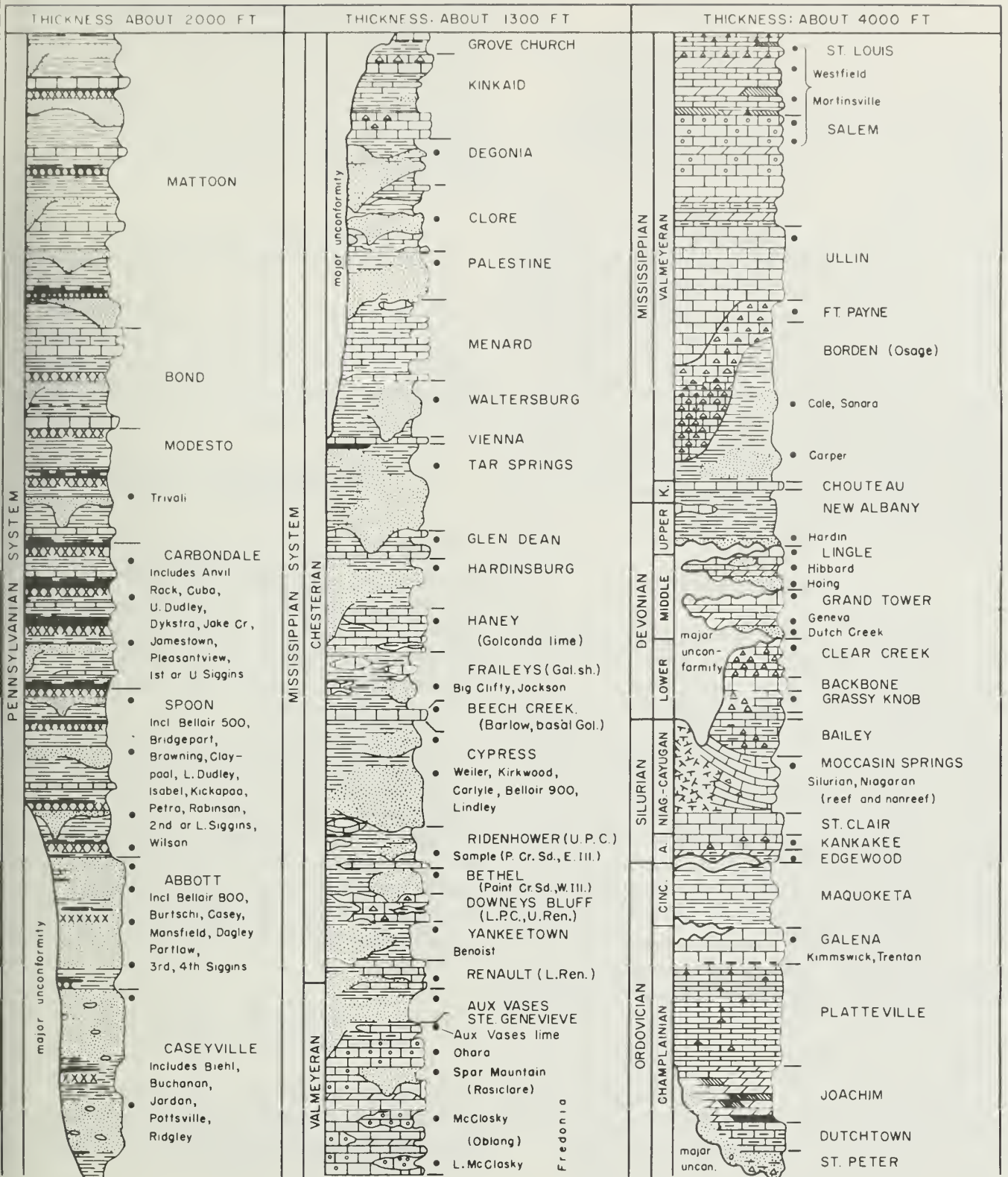


Figure 2. Generalized geologic column of southern Illinois. Solid dots indicate oil and gas pay zones. Formation names are in capitals; other pay zones are not. About 4,000 feet of lower Ordovician and upper Cambrian rocks under the St. Peter are not shown. The names of the Kinderhookian, Niagaran, Alexandrian, and Cincinnati Series are abbreviated as K., Niag., A., and Cinc., respectively. Variable vertical scale. (Originally prepared by David H. Swann.)

PRODUCTIVE ACREAGE

An estimated 4,510 acres were added to the area productive of oil, and an estimated 90 acres were added to the area productive of natural gas in 1978. The total area in Illinois that has proved productive of oil is 614,570 acres, and of gas, 36,480 acres.

In Illinois the normal spacing pattern for oil wells, which produce from depths less than 4,000 feet, is 10 acres per well for production from sandstone and 20 acres per well for production from limestone. The Oil and Gas Act makes possible (under certain circumstances) the establishment of drilling units for production from less than 4,000 feet deep. The spacing is fixed at not less than 10 acres nor more than 40 acres per well. For wells producing from depths between 4,000 and 6,000 feet, the spacing is 40 acres per well. For wells producing from depths greater than 6,000 feet it is 160 acres per well.

GAS PRODUCTION

Approximately 1,159 million cubic feet of natural gas was produced and marketed in Illinois in 1978, 15.6 percent more than in 1977.

Johnston City East field, Williamson County, sold 13.2 million cubic feet of gas to Murphysboro, Carbondale, Benton, and Du Quoin. Raleigh field, Saline County, supplied 8.3 million cubic feet of gas to cities in Gallatin County; Harco South field, Saline County, furnished 15.9 million cubic feet to Harrisburg and Eldorado. From Mattoon field, Coles County, 687.8 million cubic feet of gas was sold to the Effingham, Mattoon, and Paris areas.

The Illinois Power Company system was provided with 26.8 million cubic feet of gas from Stubblefield South field, Bond County. In addition, the Illinois Power Company purchased 98.1 million cubic feet from New Athens field, St. Clair County, and 9.6 million cubic feet from Eden field, Randolph County, for their transmission line in southwestern Illinois. Grandview and Inclose fields produced 37.2 million cubic feet of gas, which was purchased by Central Illinois Public Service Company and delivered to their transmission line. Gas from abandoned coal mines in Eldorado West and Eldorado Consolidated fields, Saline County, in the amounts of 9.3 million and 17.0 million cubic feet, respectively, was sold to

United Cities Gas Company in Eldorado. Keenville field, Wayne County, supplied 135.0 million cubic feet of gas from oil wells, which was processed and put into the Trunkline Gas Company transmission line. In Loudon field, 65.5 million cubic feet of gas from oil wells was processed and sold to Natural Gas Pipeline Company of America for their transmission line.

UNDERGROUND STORAGE OF LIQUEFIED PETROLEUM GAS

Twelve caverns, which resulted from the mining of shale or limestone, provide storage capacity for 3,174,000 barrels of liquefied petroleum gases in Illinois (table 6). Propane, butane, propylene, and ethane are the gases being stored.

UNDERGROUND STORAGE OF NATURAL GAS

In Illinois at the end of 1978, 39 underground natural gas storage projects either were operating, were being developed, or were being tested. Several reservoirs were being studied for their capabilities for storing gas. Gas is now stored in rocks of Pennsylvanian through Cambrian age at depths from 350 to 4,000 feet.

Table 7 lists information about active Illinois storage projects. These storage facilities could hold as much as 1.6 trillion cubic feet of gas. The amount of this capacity that is likely to be used depends on the availability of gas; ultimately, about 1.2 trillion cubic feet probably will be used. About one-third of stored gas is working gas, and two-thirds is cushion gas, which is not readily available for withdrawal and delivery to customers.

SURFACE STORAGE OF LIQUEFIED NATURAL GAS

A facility for the liquefaction and storage of natural gas at the Manlove Gas Storage field, Mahomet, Illinois, is being operated by the Peoples Gas Light and Coke Company.

Two above-ground tanks are each capable of containing, as liquefied natural gas, the equivalent of one billion cubic feet of pipeline natural gas measured at standard conditions of temperature and pressure.

TABLE 1A. Summary of oil and gas drilling activity and oil production in 1978

County	Production tests						Service wells						Total oil production (bbl)	
	Permits to drill	Total completions	New holes		D&A to prod.*	Prod. to prod. in new pay zones	Footage drilled	New service wells	Conversiona		Footage drilled	Structure tests		Total footage drilled
			Prod.*	D&A					Were prod.	Other†				
Adams	-	-	-	-	-	-	-	-	-	-	-	-	-	2,545
Bond	17	12	2 (1)	8	-	-	18,988	1	-	-	2,230	-	21,218	53,070
Brown	3	3	-	3	-	-	1,989	-	-	-	-	-	1,989	2,350
Champaign	1	2	-	2	-	-	1,588	-	-	-	-	-	1,050	-
Christian	17	18	4	3	-	-	11,721	1	9	1	2,430	-	14,151	273,535
Clark	59	57	34	11	2	-	63,777	5	5	-	2,973	-	66,603	344,195†
Clay	100	81	45	25	2	2	221,543	-	5	2	-	-	218,656	976,867
Clinton	20	15	4	5	-	-	17,351	-	5	1	-	-	17,351	373,485
Coles	10	8	1 (2)	4	-	-	14,330	-	1	-	-	-	14,330	133,168
Crawford	164	117	55 (5)	22	1 (1)	-	124,310	27	2	2	30,244	2	154,583	1,267,902
Cumberland	5	4	-	4	-	-	11,657	-	-	-	-	-	11,657	‡
De Witt	-	-	-	-	-	-	-	-	-	-	-	-	-	96,995
Douglas	2	2	-	2	-	-	3,473	-	-	-	-	-	3,473	7,090
Edgar	11	6	- (2)	4	-	-	2,925	-	-	-	-	-	2,925	79,848
Edwards	52	42	16	21	-	1	130,408	-	1	3	-	-	129,509	446,936
Effingham	27	25	7	11	1	2	55,979	-	4	-	-	-	55,786	368,372
Fayette	33	33	10	9	-	2	51,413	8	3	1	12,734	-	62,616	1,803,540
Franklin	22	40	16	12	2	2	109,336	2	6	-	4,456	-	111,163	415,732
Gallatin	28	26	5	12	-	-	46,213	1	8	-	3,068	-	49,281	434,454
Greene	1	1	-	1	-	-	365	-	-	-	-	-	365	-
Hamilton	68	50	15	29	1	1	171,475	-	4	-	-	-	170,395	408,493
Hancock	-	1	-	1	-	-	650	-	-	-	-	-	650	-
Jackson	1	-	-	-	-	-	-	-	-	-	-	-	-	2,178
Jasper	38	30	20	8	1	-	80,690	1	-	-	1,600	-	82,097	477,726
Jefferson	92	51	8	37	2	-	162,853	-	3	1	-	-	157,038	661,626
Lawrence	62	55	22	16	2	-	82,384	8	3	-	12,065	4	100,114	2,540,679
McDonough	3	2	-	2	-	-	1,279	-	-	-	-	-	1,279	23,177
McLean	-	1	-	1	-	-	1,069	-	-	-	-	-	1,069	-
Macon	18	10	5	5	-	-	21,628	-	-	-	-	-	21,628	59,450
Macoupin	7	9	- (1)	8	-	-	7,031	-	-	-	-	-	7,031	5,214
Madison	13	13	1	7	-	-	7,208	1	2	2	575	-	7,783	82,058
Marion	33	22	5	13	-	1	46,446	-	2	1	-	-	46,446	2,369,039
Monroe	10	9	5	3	1	-	3,852	-	-	-	-	-	3,852	11,134
Montgomery	5	3	-	2	-	-	2,554	-	1	-	-	-	2,554	1,114
Moultrie	1	1	-	1	-	-	3,308	-	-	-	-	-	3,308	1,833
Perry	3	3	-	3	-	-	9,794	-	-	-	-	-	9,794	13,227
Pike	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Randolph	10	12	6	4	-	-	19,553	-	-	2	-	-	19,553	55,311
Richland	39	28	12	11	-	2	78,004	-	1	2	-	-	76,891	800,940
St. Clair	7	5	-	5	-	-	6,435	-	-	-	-	-	6,435	28,378
Saline	11	8	- (1)	4	-	-	13,631	-	3	-	-	-	13,631	149,895
Sangamon	23	22	6	15	-	-	37,453	1	-	-	1,792	-	39,245	102,962
Shelby	3	2	1	-	-	-	1,812	-	1	-	-	-	1,812	25,305
Wabash	87	78	33 (1)	25	5	1	154,749	3	8	2	5,087	-	157,318	867,622
Washington	26	16	5	9	-	-	25,821	-	1	1	-	-	25,821	382,313
Wayne	183	183	90	67	8	6	580,815	3	5	4	9,733	-	582,663	3,365,918
White	279	220	79	70	7	7	531,755	9	32	16	32,844	-	552,972	3,062,575
Williamson	4	5	1 (1)	3	-	-	14,508	-	-	-	-	-	14,508	114,115
Production, location unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	669,553
Total	1,600	1,331	513 (14)	508	35 (1)	27	2,954,123	71	115	41	121,831	6	3,042,593	23,361,919

*Gas in parentheses; not included in totals.
 †Former D&A and other types of wells, except former producers.
 ‡Production is combined for Clark and Cumberland Counties.

TABLE 1B. Summary of underground natural gas storage drilling activity in 1978*

County	Permits issued	Total completions	Injection and withdrawal wells		Service wells		Footage drilled
			New wells	Conversions	New wells	Conversions	
Champaign	9	12	12	-	-	-	50,777
Fayette	-	2	2	-	-	-	7,484
Henderson	-	1	-	-	1	-	570
La Salle	3	3	3	-	-	-	7,941
Livingston	5	9	8	-	1	-	24,548
McDonough	-	2	2	-	-	-	5,630
McLean	7	8	7	-	1	-	30,967
Morgan	1	-	-	-	-	-	-
	25	37	34	-	3	-	127,917

*Does not include structure tests; 2 permits to drill structure tests were issued; and 2 structure tests, with total footage of 2,674, were reported drilled.

TABLE 2. Discovery wells of four new fields in 1978

Map no. (fig. 1)	County and location	Operator well no., and farm	Field	Initial daily prod., oil/water (bbl)	Pay zone	Prod. depth (ft)	Total depth (ft)	Completion date	Remarks
1	Christian 12-11N-1E	Rector & Stone Drlg. Co. #1 De Barr	Pana Central	7/7	Benoist	1,528	1,570	7-17	
2	Wayne 18-2S-6E	Black Hawk Resources #42-18 O'Daniel	Wayne City	35/75	Salem	3,974	4,130	2-21	
3	White 30-6S-8E	Reynolds & Vincent #1 Mary Britton Comm.	Norris City W	38	Ullin	4,204	4,460	4-18	OWDD, OTD 3,321 ft, was D&A.
4	Williamson 4-9S-3E	Joe A. Dull #1 Gahm Heirs	Unnamed	50 MCFG	Tar Springs	1,910	2,570	11-12-77	

TABLE 3. Discovery wells of 18 extensions to fields in 1978
(C, Consolidated; E, East; W, West; N, North; S, South)

Map no. (fig. 1)	County and location	Operator, well no., and farm	Field	Initial daily prod. oil/water (bbl)	Pay zone	Prod. depth (ft)	Total depth (ft)	Comple- tion date	Remarks
5	Clay 20-4N-7E	Dean Sutton #1 P. Brown	Sailor Springs C	30	Aux Vases	2,896	3,022	9-19	
6	Crawford 1-5N-12W	William E. Lampley #1 Brashear	Main C	Gas well	Pennsyl- vanian	548	570	3-14	Shut in, no gauge.
7	Crawford 34-7N-11W	Fair-Rite Products #1-A Fair-Rite Comm.	Main C	Gas well	Pennsyl- vanian	643	690	7-25	Shut in, no gauge.
8	Edwards 4-3S-10E	Modern Explorations #1 Glover	Ellery S	125/3	Ullin	3,295	4,156	12-4	New pay in field.
9	Hamilton 21-6S-7E	Ernest Sherman #1 W. E. Hunt et al. Unit	Dale C	20	Ullin	4,168	4,180	4-25	New pay in field.
10	Hamilton 26-6S-7E	Duke Resources Corp. #1 Short-Barker	Broughton	20	Ullin	4,186	4,278	11-30-77	
11	Hamilton 34-6S-7E	F. E. Frassato #2 English Heirs	Broughton	72	McClosky	3,290	3,301	7-11	
12	Jefferson 5-1S-4E	David F. Herley #1 Daniels	Divide C	39	Salem	3,270	3,600	9-12	
13	Jefferson 6-1S-4E	David F. Herley #1 Chester Donoho	Divide C	69	Salem	3,149	3,555	9-5	
14	Lawrence 20-4N-10W	Schlensker Drlg. Corp. #1 G. Mahrenholz	Russellville	3/30	McClosky	1,624	2,075	4-29	
15	Marion 23-1N-4E	Van Fossan Assoc. #1 John Carter	Hickory Hill	25	Spar Mtn.	2,826	3,500	3-7	
16	Marion 35-1N-4E	Black Hawk Resources #17-35 I. Stanford et al.	Hickory Hill	41/45	Spar Mtn.	2,801	3,450	6-6	
17	Sangamon 30-16N-2W	John Carey Oil Co. #1 Hampton	Roby E	50	Silurian	1,796	1,796	4-10	
18	Wayne 29-2S-6E	Illinois Mid-Cont. Co. et al. #1 Almo Farm	Mayberry	9/9	Ullin	4,176	4,176	11-7	
19	Wayne 24-2S-8E	Robinson Prod. #1 R. Hooper	Goldengate N C	3	Ohara	3,436	4,348	9-19	
20	Wayne 5-3S-6E	Comanche Oil Corp. #1 Simpson	Mayberry	240	McClosky	3,380	3,400	5-25	
21	White 4-5S-8E	R. K. Petroleum Corp. #1 Earl Mobley	Enfield N	4	Aux Vases	3,343	3,343	2-16	
22	Williamson 27-8S-4E	C. E. Brehm Drlg. & Prod. #A-1 Aikman	Corinth	8/6	Ohara	2,946	3,080	6-1-77	

TABLE 4. Discovery wells of 21 new pay zones in fields in 1978
(C, Consolidated; E, East; W, West; N, North; S, South)

Map no. (fig. 1)	County and location	Operator, well no., and farm	Field	Initial daily prod. oil/water (bbl)	New pay zones	Prod. depth (ft)	Total depth (ft)	Comple- tion date	Remarks
23	Clay 8-3N-7E	Hagen Oil Co. #1 E. Hamilton	Sailor Springs C	25	Salem	3,260	3,650	2-21	
24	Clay 20-4N-6E	McKinney Oil Prod. #1-A Thompson	Louisville	20/100	Renault	2,735	2,847	10-26	Also prod. from McClosky.
8	Edwards 4-3S-10E	Modern Exploration #1 Glover	Ellery S	125	Ullin	4,156	4,159	12-4	Extension to field.
25	Edwards 26-2S-10E	W. H. Kinsell #4 J. Roosevelt	Ellery E	25	McClosky	3,260	3,922	7-4	Also produces from Aux Vases.
26	Franklin 2-5S-3E	C. E. Brehm Drlg. & Prod. #1 Drennan et al.	Ewing E	50	Salem	3,546	3,968	3-15-77	
27	Franklin 24-5S-4E	Duke Resources Corp. #1 Hutchcraft Comm.	Macedonia	6	Salem	4,124	4,280	2-14	
9	Hamilton 21-6S-7E	Ernest Sherman #1 W. E. Hunt et al. Unit	Dale C	20	Ullin	4,168	4,180	4-25	Extension to field.
28	Hamilton 27-6S-7E	Duke Resources Corp. #1 English	Broughton	14	Salem	4,024	4,250	10-3-77	
29	Lawrence 29-4N-12W	Marathon Oil Co. #79 J. B. Lewis	Lawrence	11	Trenton	4,492	5,130	2-23	
30	Marion 25-1N-3E	Ego Oil Co. #1-A J. W. Blankenship	Exchange	20/60	St. Louis	2,951	3,365	3-7	Also prod. from Salem.
31	Richland 4-2N-9E	Louis H. Kapp, Jr. #1 R. D. Hawkins	Schnell E	40	Spar Mtn.	3,101	3,776	2-8	
32	Richland 17-2N-14W	Viking Oil Co. #1 Imogene Fishel	Parkersburg C	20/30	Salem Ullin	3,796 3,966	4,118	6-28	
33	Saline 24-8S-6E	Larry J. Barrett #1 Farris	Eldorado W	104 MCFG	#6 Coal	399	399	7-1	
34	Wabash 8-1S-12W	Farmers Petr. Coop. #3 Wabash-Newton	Mt. Carmel	20/30	Ullin	3,097	3,117	11-1-77	OWDD, OTD 2,332 ft. was D&A.
35	Wayne 35-1N-5E	Joe A. Dull #1 Cravens	Johnsonville W	14/12	Ullin	3,823	3,824	8-30	
36	White 31-3S-11E	Edward J. Saxe #1 L. Sturm et al.	Phillipstown C	7	Salem	3,798	3,940	12-19	
37	White 29-4S-8E	Perry Fulk #1 Foley "A"	Springerton S	100	Ohara	3,424	3,503	9-27	Also prod. from Aux Vases.
38	White 29-4S-8E	Perry Fulk #4 Hendershott et al. Unit	Springerton S	125	McClosky	3,494	3,500	8-1	Also prod. from Aux Vases.
39	White 4-5S-14W	The Superior Oil Co. #29 E. S. Greathouse	New Harmony C	39/7	Fort Payne	4,500	5,840	1-17	Also prod. from Ullin.
40	White 18-5S-9E	Absher Oil Co. #4 Burkhardt	Trumbull C	4	Ullin	4,097	4,110	11-14	

TABLE 5. Selected unsuccessful deep tests in 1978

Map no. (fig. 1)	County and location	Operator, well no., and farm	Field or wildcat	Deepest strata tested	Depth to top (ft)	Total depth (ft)	Comple- tion date
41	Clay 4-2N-8E	K. Leon Hagen #1 Mosley Comm.	Clay City Consolidated	"Trenton"	6,006	6,192	3-15
42	Jefferson 31-1S-2E	Richard W. Beeson #1 Braden-Todd Unit	Wildcat near*	"Trenton"	4,988	5,291	5-4
43	Jefferson 18-3S-1E	Crystal Oil Co. #1 F. W. Kujawa	Wildcat far†	"Trenton"	4,904	5,030	9-12
44	Jefferson 28-3S-3E	Crystal Oil Co. #1 R. Story	King	"Trenton"	5,864	6,015	3-19
45	Marion 35-1N-3E	E. Sherman #1 M. Donoho	Wildcat near*	Devonian	4,383	4,500	9-27
46	Saline 2-8S-6E	F. F. Farrar #A-1 Rhine	Raleigh	Devonian	5,160	5,511	7-17
47	White 21-6S-10E	Jim Haley Prod. Co. #1 Tuley	Concord Consolidated	Devonian	4,884	5,222	1-26-76

*Drilled $\frac{1}{2}$ to $1\frac{1}{2}$ miles from production.†Drilled more than $1\frac{1}{2}$ miles from production.

TABLE 6. Underground storage facilities for liquefied petroleum gases in Illinois, January 1, 1979

Company	Location	Type of storage	Approx. depth (ft)	Stratigraphic unit	Capacity (bbl)	Product
General Facilities, Inc.	Wood River, Madison County	Mined limestone	400	Valmeyeran (Mississippian)	80,000	Propane
Hydrocarbon Transportation, Inc.	Morris, Grundy County	Mined shale	1,450	Eau Claire	150,000	Ethane
Hydrocarbon Transportation, Inc.	Lemont, Will County	Mined shale Mined shale	304 358	Maquoketa Maquoketa	250,000	Propane Butane
Mid-America Pipeline Co.	Farmington, Peoria County	Mined shale	260	Pennsylvanian	440,000	Propane
Phillips Petroleum Co.	Kankakee, Kankakee County	Mined shale	300	Maquoketa	260,000	Propane
Shell Oil Co.	Wood River, Madison County Wood River, Madison County	Mined limestone Mined limestone	430	Valmeyeran (Mississippian)	500,000 232,000	Butane Propane
Tuloma Gas Products Co.	Wood River, Madison County Wood River, Madison County	Mined limestone Mined limestone	400	Valmeyeran (Mississippian)	190,000 50,000	Propane Propylene
U.S. Industrial Chemicals Co.	Tuscola, Douglas County Tuscola, Douglas County	Mined limestone and siltstone	350	Pennsylvanian	170,000 800,000	Propane Propane
Warren Petroleum Corp.	Crossville, White County	Mined shale	--	Pennsylvanian	52,000	LP gas
TOTAL					3,174,000	

TABLE 7. Active underground natural gas storage

Project	Company	County Township Range	Operational data (initial)			Number of wells			Geologic data			
			Devel- opment	Stor- age	With- drawal	Oper- ating	Obser- vation	Other	Stratigraphic unit	Lithol- ogy	Trap	Native fluid
Ancona	Northern Illinois Gas Co.	La Salle & Liv- ingston 29, 30N-2, 3E	1961	1963	1965	112	33	—	Mt. Simon	sand	anti- cline	water
Ashmore	Central Illinois Public Service	Coles & Clark 12N-10, 11E, 14W	1960	1963	1963	48	5	53	Spoon Salem	sand lime	dome	gas
Brocton	URS	Douglas & Edgar 14, 15N-13, 14W 10, 11E	(potential air storage)			0	5	—	Lingle Grand Tower	lime dolo- nite	dome	water
Centralia East	Illinois Power Co.	Marion 1N-1E	1960	1964	1966	17	4	—	Pennsylvanian	sand	strati- graphic	gas
Cooks Mills	Natural Gas Pipe- line Co.	Coles & Douglas 14N-7, 8E	1956	1959	1959	24	5	4	Cypress Spar Mountain ("Rosiclare")	sand	lens	gas
Corinth	Central Illinois Public Service	Williamson 8S-4E	1972	1972	1972	2	—	—	Hardinsburg	sand	—	gas
Crab Orchard	Central Illinois Public Service	Williamson 9S-4E	1972	1972	1972	2	—	—	Hardinsburg	sand	—	gas
Crescent City St. P.	Northern Illinois Gas Co.	Iroquois 26, 27N-13W	1959	1967	(operations temporarily ceased)		—	—	St. Peter	sand	anti- cline	water
Crescent City Mt. S.			(in exploration)			4	9	—	Mt. Simon	sand	dome	water
Eden South	Illinois Power Co.	Randolph 5S-5W	1970	1971	1971	12	2	—	Cypress	sand	strati- graphic	gas
Elbridge	Midwestern Gas Transmission Co.	Edgar 12, 13N-11W	1961	1965	1966	12	7	—	Grand Tower	lime	drape over reef	water
Freeburg	Illinois Power Co.	St. Clair 1, 2S-7W	1958	1959	1959	87	3	—	Cypress	sand	strati- graphic	gas
Gillespie- Bend	Illinois Power Co.	Macoupin 8N-6W	1958	1958	1959	7	0	—	Pennsylvanian	sand	strati- graphic	gas
Glasford	Central Illinois Light Co.	Peoria 7N-6E	1960	1964	1964	33	14	—	Niagaran	dolo- nite	dome	water
Herscher Gvl.	Natural Gas Pipe- line Co.	Kankakee 30N-10E	1952	1953	1953	60	124	24	Galesville	sand	anti- cline	water
Herscher Mt. S.			1957	1957	1958	55	18	—	Mt. Simon	sand	anti- cline	water
Herscher- Northwest	Natural Gas Pipe- line Co.	Kankakee 30, 31N-9E	1968	1969	1970	20	14	1	Mt. Simon	sand	anti- cline	water
Hillsboro	Illinois Power Co.	Montgomery 9, 10N-3W	1972	1974	1975	4	7	—	St. Peter	sand	dome	water
Hookdale	Illinois Power Co.	Bond 4N-2W	1962	1963	1963	10	4	—	Yankeetown ("Benoist")	sand	strati- graphic & structural	gas
Hudson	Northern Illinois Gas Co.	McLean 24, 25N-2, 3E	1970	1971	1971	32	8	1	Mt. Simon	sand	dome	water
Hume	URS	Edgar 16N-13, 14W	(potential air storage)			0	9	—	Lingle Grand Tower	lime dolomite	dome	water
Lake Bloomington	Northern Illinois Gas Co.	McLean 25, 26N-2, 3E	1971	1971	1972	35	16	1	Mt. Simon	sand	anti- cline	water
Lexington	Northern Illinois Gas Co.	McLean 25N-3, 4E	1971	1971	1972	32	12	1	Mt. Simon	sand	dome	water
Lincoln	Central Illinois Light Co.	Logan 19N-3W	1971	1974	1974	21	18	—	Silurian	dolo- nite	dome	water
Loudon	Natural Gas Pipe- line Co.	Fayette 7, 8, 9N-3E	1967	1967	1969	66	61	20	Grand Tower	lime	anti- cline	oil
Manlove	Peoples Gas Light & Coke Co.	Champaign 21N-7E	1960	1964	1966	130	12	0	Mt. Simon	sand	anti- cline	water
Media Gvl.	Mid-Continent Gas Storage Co.	Henderson 9N-4, 5W	(testing)			3	13	0	Galesville	sand	dome	water
Media Mt. S. Mills & Edwards	Egyptian Gas Stor- age Co.	Gallatin 7S-9E	1974	1975	1975				2	0	0	Mt. Simon Tar Springs
	Egyptian Gas Stor- age Co.	Gallatin 8S-8E	1974	1975	1975	1	0	0	Palestine	sand	lens	gas
Nevins	Midwestern Gas Transmission Co.	Edgar 12, 13N-11W	1961	1965	1966	14	7	—	Grand Tower	lime	drape over reef	water
Pecatonica	Northern Illinois Gas Co.	Winnnebago 27N-10E	1967	1969	1970	14	15	—	Eau Claire	sand	dome	water
Pontiac Gvl.	Northern Illinois Gas Co.	Livingston 27, 28N-6E	1975	1976	1977	10	6	1	Galesville	sand	dome	water
Pontiac Mt. S.	Northern Illinois Gas Co.	Livingston 27, 28N-6E	1966	1968	1969	43	7	—	Mt. Simon	sand	dome	water
Richwoods	Gas Utilities Co.	Crawford 6N-11W	1966	1966	1966	4	2	0	Pennsylvanian	sand	—	gas
St. Jacob	Mississippi River Transmission Corp.	Madison 3N-6W	1963	1963	1965	10	4	—	St. Peter	sand	dome	water
Sciota	Central Illinois Public Service	McDonough 6, 7N-3, 4W	1974	1975	1975	12	9	1	Mt. Simon	sand	dome	water
Shanghai	Illinois Power Co.	Warren & Mercer 12, 13N-1W	1970	1971	1971	9	10	—	Galesville	sand	dome	water
State Line	Midwestern Gas Transmission Co.	Clark, Ill., & Vigo, Ind. 12N-10W	1961	1963	1964	9	6	—	Grand Tower	lime	drape over reef	water
Tilden	Illinois Power Co.	St. Clair & Washington 3S-5, 6W	1957	1961	1961	45	14	—	Cypress	sand	strati- graphic	gas
Troy Grove	Northern Illinois Gas Co.	La Salle 34, 35N-1E	1957	1958	1959	96	31	—	Eau Claire Mt. Simon	sand	dome	water
Tuscola	Panhandle Eastern Pipeline Co.	Douglas & Champaign 16, 17N-8E	(testing)			13	11	1	Mt. Simon	sand	dome	water
Waverly St. P.	Panhandle Eastern Pipeline Co.	Morgan 13N-8W	1952	1954	1962	59	24	22	St. Peter	sand	dome	water
Waverly Gvl.	Panhandle Eastern Pipeline Co.	Morgan 13N-8W	1969	1969	1970	59	24	22	Galesville	sand	dome	water

projects in Illinois - January 1, 1979

Area in acres		Reservoir data				Capacities (MMcf)*			Withdrawals (MMcf)			Project
Storage	Closure	Depth (feet)	Thickness or closure (feet)	Average porosity (%)	Average permeability (millidarcys)	Potential working and cushion	Dec. 31, 1978		Max. vol. in storage 1978 (MMcf)	1978 Peak daily	1978 Total	
							Working	Cushion				
—	12,850	2,154	290	12.3	114	170,000	52,843 ⁺	100,313 ⁺	167,188 ⁺	696	42,670 ⁺	Ancona
—	1,600	400	4-80	15.0	up to 3,000	3,575	1,592	1,991	3,585	33	680	Ashmore
—	32,000	672	220	12.2	—	70,000	—	—	—	—	—	Brocton
463	—	812	49	18.2	200	667	250	416	667	17	259	Centralia
—	1,500	1,600	40	16.0	67	4,750	3,068	1,567	4,750	74	2,371	East Cooks Mills
20	—	2,125	28	—	—	279	195	72	268	2	37	Corinth
20	—	2,200	19	—	—	257	158	67	225	2	46	Crab Orchard
—	16,725	1,200	150	14.5	138	50,000	—	—	—	—	—	Crescent City
—	—	—	—	—	—	100,000	—	—	—	—	—	St. P. Crescent City
—	1,000	875	18	20.6	168	1,404	447	868	1,404	6	380	Mt. S. Eden South
—	1,691	1,925	145	17.5	18	7,437	1,121	6,295	7,416	15	665	Elbridge
4,222	—	350	47	21.5	216	7,089	1,897	4,636	7,012	40	2,537	Freeburg
113	—	510	28	16.0	326	152	31	116	148	5	111	Gillespie-Bend
—	3,200	800	120	12.0	426	12,586	6,078	6,293	12,541	123	3,728	Glaford
6,750	8,000	1,750	100	18.0	467	50,000	11,236	23,283	37,118	764	19,360	Herscher Gvl.
7,500	8,000	2,450	80	12.0	185	67,500	28,664	32,504	66,450	184	19,610	Herscher Mt. S.
—	3,000	2,200	58	15.0	82	17,500	6,331	10,134	17,273	42	3,672	Herscher-Northwest
4,000	—	3,150	100	16.0	250	9,112	4,624	4,250	9,112	43	2,789	Hillsboro
414	—	1,125	28	20.3	458	1,096	672	285	995	30	736	Hookdale
—	13,200	3,800	160	11.0	45	100,000 ⁺	6,463 ⁺	26,291 ⁺	35,055 ⁺	96	5,934 ⁺	Hudson
—	6,500	670	136	12.4	—	4,000	—	—	—	—	—	Hume
—	10,600	3,525	97	11.0	45	45,000 ⁺	12,090 ⁺	33,839 ⁺	48,342 ⁺	151	7,833 ⁺	Lake Bloomington
—	14,300	3,800	100	10.7	37	100,000 ⁺	7,914 ⁺	31,309 ⁺	41,746 ⁺	99	5,492 ⁺	Lexington
—	3,000	1,300	85	12.0	250	11,834	3,769	6,509	10,949	45	2,663	Lincoln
2,610	—	3,050	65	15.0	—	75,000	23,886	31,137	66,361	358	33,390	Loudon
—	13,370	3,950	116	11.0	15	200,000	33,093	88,491	130,083	464	19,904	Manlove
—	4,700	2,100	100	17.2	448	62,000	0	0	0	0	0	Media Gvl.
—	3,500	2,500	100	14.3	152	50,000	0	0	0	0	0	Media Mt. S.
—	224	2,302	18	—	—	747	35	60	95	3	93	Mills & Edwards
—	142	1,825	30	—	—	245	30	77	107	1	41	Edwards
—	1,650	1,975	105	16.5	25	7,277	941	5,685	7,166	22	1,312	Nevins
—	2,600	800	38	18.6	556	3,500 ⁺	896 ⁺	1,956 ⁺	3,180 ⁺	38	992 ⁺	Pecatonia
—	—	2,425	100	18.0	704	50,000 ⁺	0 ⁺	4,626 ⁺	5,050 ⁺	0	0	Pontiac Gvl.
3,500	—	3,000	100	10.0	25	45,000 ⁺	12,685 ⁺	25,345 ⁺	42,242 ⁺	176	13,165 ⁺	Pontiac Mt. S.
—	—	700	—	—	—	105	60	38	98	1	18	Richwoods
550	650	2,860	100	14.0	400 ⁺	5,603	1,645	3,900	5,600	76	2,207	St. Jacob
—	2,500	2,600	70	12.0	39	5,000	1,046	2,084	3,130	19	132	Sciota
—	1,850	2,000	95	15.2	246	11,122	4,942	6,007	11,122	74	3,482	Shanghai
—	496	1,860	91	17.3	47	5,064	909	3,920	4,984	13	1,273	State Line
1,287	—	800	33	20.8	183	3,090	831	1,820	3,090	52	2,158	Tilden
—	9,600	1,420	100	17.0	150	80,000 ⁺	30,412 ⁺	33,982 ⁺	75,515 ⁺	734	36,973 ⁺	Troy Grove
—	—	4,000	—	—	—	7,500	0	5,908	6,556	20	1,220	Tuscola
1,500	7,000	1,800	115	18.0	1,220	55,000	6,933	39,174	49,479	203	8,551	Waverly St. P. Waverly Gvl.
—	—	3,500	68	—	—							

* Million cubic feet.
⁺ 1977 data; 1978 data not reported.

TABLE 8. Illinois oil field statistics, 1978

Explanation of abbreviations and symbols

Field:	N, North; S, South; E, East; W, West; C, Consolidated; Cen, Central. Fields located in two or more counties have county names listed in order of oil discovery.
Age:	PC, Precambrian; CAM, Cambrian; ORD, Ordovician; SHK, Shakopee; STP, St. Peter; TRN, Trenton; SIL, Silurian; DEV, Devonian; DVS, Devonian-Silurian; MIS, Mississippian; PEN, Pennsylvanian.
Kind of rock in pay zones:	D, dolomite; DS, sandy dolomite; L, limestone; LS, sandy limestone; OL, oolitic limestone; S, sandstone.
ABD:	Field abandoned.
REV:	Field revived.
Structure:	A, anticline; C, accumulation due to change in character of rock; D, dome; F, faulting; H, strata horizontal or nearly horizontal; L, lens; M, monocline; N, nose; R, reef; T, terrace; U, unconformity. Combinations of the letters are used when more than one factor applies.
+	Field listed in Table 9 (gas production).
†	Illinois portion only.
#	Acreage is included in the immediately preceding figure.
X	Correct entry not determinable.

TABLE 8. Illinois oil field statistics, 1978

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA PRO- DU- IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF DIL		PAY ZONE	DEEPEST TEST					
				1978	TO END OF 1978	CUM- LETED TO END OF 1978	CO- MPL- ETE 1978	AB- AND- UNED 1978	PRUD- UCING END OF YEAR	SUL- FOR PERC- ENT	GR, API			KIND OF ROCK	TMI- CKN- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)
AB LAKE, GALLATIN, 8S, 10E																		
PENNSYLVANIAN	805	1947	40	3.8	124.2	10	1	0	3			M	MIS	2953				
PALESTINE, MIS	1835	1954	40			4	1	0	35	S	10	M						
WALTERSBURG, MIS	2000	1957	10			1	0	0	36	S	5	MF						
KENAUPT, MIS	2735		40			3	0	0	37	S	10	M						
AUX VASES, MIS	2770		20			2	0	0	35	L	8	MF						
			10			1	0	0	35	S	9	MF						
AB LAKE SOUTH, GALLATIN, 9S, 10E																		
AUX VASES, MIS	2790	1959	10	0.0	3.8	1	0	0	0	36	S	6	M	MIS 2942				
			ABU 1961															
AB LAKE WEST, GALLATIN, 8-9S, 9-10E																		
PENNSYLVANIAN	725	1950	450	0.9	539.3	33	0	0	15			M	MIS	2964				
WALTERSBURG, MIS	2020	1956	50			3	0	0	35	S	10	ML						
TAR SPRINGS, MIS	2075	1958	300			19	0	0	37	S	20	ML						
CYPRESS, MIS	2425	1954	50			2	0	0	38	S	10	ML						
AUX VASES, MIS	2735		10			1	0	0	36	S	9	ML						
MCCLUSKY, MIS	2830		160			17	0	0	36	S	6	ML						
			10			1	0	0	38	L	2	MC						
AUEN C, WAYNE, HAMILTON, 2-3S, 7E																		
AUX VASES, MIS	3200	1938	2410	41.1	13449.2	128	0	1	55			A	DEV	5434				
OHARA, MIS	3290	1943	1570			64	0	0	39	S	10	A						
SPAR MTN, MIS	3320	1943	2040			10	0	1	35	L	7	A						
MCCLUSKY, MIS	3350	1938	#			6	0	1	35	LS	5	AC						
SALEM, MIS	3735	1948	#			79	0	0	35	L	4	A						
ULLIN, MIS	4132	1959	60			9	0	0	36	L	16	AC						
LINGLE, DEV	5182	1968	50			4	0	0	39	L	16	AC						
OUTCM CREEK, DEV	5318	1959	10			1	0	0	40	S	10	A						
			50			3	0	0		S	10	A						
AUEN EAST, WAYNE, 2S, 7E																		
MCCLUSKY, MIS	3434	1961	10	0.0	0.0	1	0	0	0	39	DL	A	MIS	3552				
			ABU 1961															
AUEN SOUTH, HAMILTON, 3S, 7E																		
AUX VASES, MIS	3245	1946	350	4.2	852.2	29	1	0	9			A	DEV	5462				
OHARA, MIS	3310		170			9	0	0	39	S	8	AL						
SPAR MTN, MIS	3330		350			3	1	0	37	L	7	AC						
MCCLUSKY, MIS	3395	1945	#			A	0	0	37	LS	A	AC						
			#			17	0	0	38	L	9	AC						
AKIN, FRANKLIN, 6S, 4E																		
CYPRESS, MIS	2640	1942	770	9.1	2441.2	60	0	0	16			A	MIS	4106				
AUX VASES, MIS	3100		220			14	0	0	35	0.14	S	10	AL					
OHARA, MIS	3100	1956	550			41	0	0	37	0.12	S	22	AL					
MCCLUSKY, MIS	3270	1943	70			4	0	0	38	L	18	AC						
			#			1	0	0	38	L	9	AC						
AKIN WEST, FRANKLIN, 6S, 4E																		
CYPRESS, MIS	2715	1948	120	5.9	239.0	9	0	0	7			A	DEV	5185				
OHARA, MIS	3050	1948	50			2	0	0	35	S	8	AL						
SPAR MTN, MIS	3080	1948	70			2	0	0	37	L	10	AC						
MCCLUSKY, MIS	3130		#			1	0	0	37	L	12	AC						
SALEM, MIS	3665	1962	#			3	0	0	39	L	4	AC						
ULLIN, MIS	3994	1962	10			1	0	0	38	L	10							
			20			2	0	0	37	L	10							
ALBION Cen, EDWARDS, 2S, 10E																		
OHARA, MIS	3350	1955	110	0.0	136.0	7	0	0	1				MIS	3510				
MCCLUSKY, MIS	3395	1955	110			7	0	0	37	L	5							
			#			1	0	0		L	4							
ALBION C +, EDWARDS, WHITE, 1-3S, 10-11E, 14W																		
MANSFIELD, PEN	1650	1940	5700	170.9	50059.6	491	1	1	165			A	DEV	5185				
BRIDGEPORT, PEN	1900		1950			6	0	0	28	S	5	MF						
BIEHL, PEN	2000	1944	#			30	0	0	29	0.16	S	15	MF					
OEONIA, MIS	2125		10			15A	0	0	37	0.16	S	15	MF					
WALTERSBURG, MIS	2365	1949	690			2	0	0	35	S	9	MF						
TAR SPRINGS, MIS	2460	1944	140			67	0	1	36	S	16	AL						
HARDINSBURG, MIS	2635		140			10	0	0	37	S	5	AL						
CYPRESS, MIS	2860		70			6	0	0	36	S	10	A						
BETHEL, MIS	2960		510			44	0	0	37	S	15	A						
BENDIST, MIS	3000		940			58	0	0	36	S	14	AF						
			200			15	1	0	34	S	13	AF						

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

TOWNSHIP AND RANGE (SEE PART II)	PAY ZONE	YEAR	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF DIL			PAY ZONE		DEEPEST TEST
				1978	1978	COMP- LETED TO ENDOF 1978	CU- MPL AB- ONED ENDOF 1978	PROO- UCING ENDOF YEAR	SUL- FUR PERC- ENT	KIND OF RUCK	TMI- CKN- ESS	STR- UCT- UKE	ZONE	DEP- TM (FT)		
				DEP- OF TM (FT)	DISC- OVERY	1978	1978	1978	1978	1978	GR, API	PERC- ENT	OF	ZONE	TEST	
*ALBION C +, EDWARDS, WHITE, 1-33, 10-11E, 14W (CONTINUED FROM PREVIOUS PAGE)																
AUX VASES, MIS		3095 1942	1640			115	1	0		37	S	18	AF			
OMARA, MIS		3110 1943	1780			11	0	0		40	L	5	AC			
SPAR MTN, MIS		3130	#			7	0	0		38	L	10	AC			
MCCLUSKY, MIS		3200 1940	#			101	0	1		37	L	12	AC			
*ALBION EAST, EDWARDS, 2S, 14W																
CYPRESS, MIS		2600 1943	1250	91.1	2214.1	92	3	2	51		S		A	MIS	3600	
BETHLE, MIS		2920	250			19	1	0		32	S	7	A			
BENOIST, MIS		2925	170			11	1	0		38	S	6	AL			
AUX VASES, MIS		3020	120			18	0	0		36	S	10	AC			
OMARA, MIS		3100 1943	320			19	1	0		34	S	17	AL			
SPAR MTN, MIS		3125 1947	710			15	0	1		38	L	7	A			
MCCLUSKY, MIS		3155	#			19	1	1			L	7	A			
			#			14	0	0			L	7	A			
ALBION NORTHWEST, EDWARDS, 1S, 10E																
MCCLUSKY, MIS		3500 1967	30	1.2	36.6	3	0	0		2	L	6		MIS	3400	
ALBION WEST, EDWARDS, 3S, 10E																
OMARA, MIS		3230 1976	40	3.1	8.2	3	0	0		2	L			MIS	3762	
MCCLUSKY, MIS		3575 1953	40			2	0	0			L					
			#			1	0	0			L	5				
*ALLENUALE, WABASH, LAWRENCE, 1-24, 11-13W (CONTINUED FROM PREVIOUS PAGE)																
PLEASANTVIEW, PEN		660 1912	4740	235.1	23120.6	1162	26	4	352		S	30	AM	DEV	5143	
BRIDGEPOINT, PEN		1070	#			0	0	0			S	12	AM			
BULMANAN, PEN		1290	#			0	0	0			S	15	AM			
BETHLE, PEN		1450	#			725	9	6	33		S	20	AM			
JOHONAN, PEN		1490	#			24	0	0			S	10	AM			
WALTERSBURG, MIS		1540	320			29	0	0		31	S	15	AM			
TAN SPRINGS, MIS		1600	250			22	0	1		30	S	20	AM			
MANOINSBURG, MIS		1780	10			2	0	0		34	S	10	AM			
CYPRESS, MIS		1920	1830			89	6	1		34	S	10	AM			
SAMPLE, MIS		1764	1290			12	1	0		35	S	1	AM			
BETHLE, MIS		2010	#			103	2	0		35	S	10	AM			
AUX VASES, MIS		2280	180			14	9	0		37	S	12	AM			
OMARA, MIS		2500	990			20	2	0			L	10	AM			
SPAR MTN, MIS		2500	#			13	1	0			LS	5	AM			
MCCLUSKY, MIS		2300	#			28	0	0		36	L	8	AM			
ST LOUIS, MIS		2275 1967	20			3	1	0		39	L	15				
SALEM, MIS		2774 1966	50			5	0	0		39	L	10				
ULLIN, MIS		2606 1966	50			2	0	0		39	L	12				
ALMA, MAHON, 4N, 2E																
CYPRESS, MIS		1605 1941	60	0.0	82.0	6	0	0		0	S		A	DEV	3692	
BENOIST, MIS		1945 1942	50			1	0	0		35	S	7	AL			
SPAR MTN, MIS		2085 1941	40			6	0	0		36	S	8	AL			
			#			2	0	0		36	L	10	AC			
AMITY, RICHLAND, 4N, 14W																
AUX VASES, MIS		3060 1942	70	1.2	56.7	5	0	0		2	S	10		MIS	3673	
MCCLUSKY, MIS		2960 1942	70			1	0	0		36	DL	5	MC			
AMITY S, RICHLAND, 4N, 14W																
SPAR MTN, MIS		2690 1953	10	0.0	0.1	1	0	0		0	L	4		MIS	3010	
AMITY W, RICHLAND, 4N, 14W																
AUX VASES, MIS		2925 1953	10	0.0	0.0	1	0	0		0	S	12		MIS	3100	
ASHLEY, WASHINGTON, 2S, 1W																
BENOIST, MIS		1430 1953	210	7.2	478.0	15	0	0		14	S	7		DEV	3116	
ASHLEY E, WASHINGTON, 2S, 1W																
BENOIST, MIS		1636 1969	60	1.7	61.4	5	0	0		5	S	6		MIS	1904	
ASHMORE E, CULES, 13N, 14W (CONTINUED ON NEXT PAGE)																

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA	PRODUCTION M BBLB			NUMBER OF WELLS				CHARACTER OF OIL			DEEPEST TEST	
				PRODUCTION YEAR	TO END OF 1978	TO END OF 1978	COMPLETED TO 1978	CO-PRODUCED TO 1978	ABANDONED TO 1978	PRODUCING TO END OF YEAR	SULFUR	PAY ZONE	PERCENTAGE		TEST
(CONTINUED FROM PREVIOUS PAGE)															
ASHMURE E, COLES, 13N, 14W	PENNSYLVANIAN	415 1956	60 ARU 1957,	0.1 REV 1962	0.4	6	0	U	4	30	S	14	OEV	1228	
ASHMURE S +, COLES, CLARK, 12N, 10-11E, 14W		1958 420 1958 475 1963	320 320 20	2.3 52.2	52.2	24	1	U	17				TRN	2260	
ASSUMPTION CEN, CHRISTIAN, 13N, 1E	DEVONIAN	2433 1961	10 ARU 1961	0.0	0.0	1	0	0	0	38	L	4	SIL	2566	
*ASSUMPTION C, CHRISTIAN, 13-14N, 1E		1948 1050 1949 1170 1949 2300 1948	2460 590 220 2300	47.6 10342.2	10342.2	187	0	0	54				OKD	3070	
ASSUMPTION S, CHRISTIAN, 12N, 1E	LINGLE, DEV	2630 1951	50	0.5	23.0	3	0	U	1	39	L	15	SIL	2800	
AVA-CAMPBELL MILL +, JACKSON, 7S, 3-4W	CYPRESS, MIS	780 1916	140 ARU 1943, REV 1956, ARU 1957	0.0	25.0	16	0	U	U	36	S	18	A	TRN 3582	
BALOWIN, RANDOLPH, 4S, 6W	SILURIAN	1335 1954	30	0.2	11.6	3	0	U	1	32	L	X	R	TRN 2234	
BANNISTER, HAMILTON, 2N, 3E	AUX VASES, MIS	2570 1973	10 ARU 1978	0.0	8.6	1	0	1	0		S	5	OEV	4226	
*BARNMILL, WAYNE, WHITE, 2-3S, 8-9E		1959 3525 1943 3570 3400 3450 1959 3520 3795	2100 1120 1200 # # 10 200	62.5 6249.8	6249.8	181	1	U	67				OEV	5500	
*BARTELSO, CLINTON, 1-2N, 3W	CARLYLE(LYP), MIS SILURIAN	985 1956 2420 1959	600 420 380	26.0	4170.1	113	0	0	48				STP	4212	
*BARTELSO E, CLINTON, 1N, 3W	SILURIAN	2550 1950	210	9.1	940.5	21	0	0	18	42	L	7	R	SIL 2788	
BARTELSO S, CLINTON, 1N, 3W	DEVONIAN	2475 1942	60 ARU 1962	0.0	23.7	3	0	U	0	40	0.15	L	3	A	OEV 2652
BARTELSO W, CLINTON, 1N, 3-4W	CYPRESS, MIS SILURIAN	1945 960 1945 2439 1961	290 290 10	2.5	98.5	21	0	U	13				SIL	2600	
*BEAUCOUP, WASHINGTON, 2S, 2W	CLEAN CREEK, DEV TRENTON, OKD	1951 3050 1951 4095 1952	280 280 10	0.9	380.7	14	0	U	10				TRN	4192	
*BEAUCOUP S, WASHINGTON, 2S, 2W	BENOIST, MIS	1430 1951	260	9.0	1058.2	22	0	U	12	35	S	9	AL	OKD 4170	

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP OF TH OISC- (FT) UVERY	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL			PAY ZONE		DEEPEST TEST	
			AREA PRU- IN ACRES	TO ING 1978	COMP LETD 1978	CO- MPL- IN 1978	AB- ONED 1978	PRUD- UCING YEAR	SUL- FUR API	PERC- OF ENT	KINU UP ROCK	THI- CKNE ESS	STR- UCT- UNE	ZONE	TH UP- TH (FT)	
*BEAVER CREEK, BOND, CLINTON, 3-4N, 2-3W																
BENOIST, MIS		1130 1942	180	2,8	287,7	17	0	0	6	34	0,25	S	6	A	SIL	2558
BEAVER CREEK N, BOND, 4N, 3W																
BENOIST, MIS		1115 1949	80	0,0	0,7	6	0	0	0	24		S	8	A	DEV	2556
ABO 1954, REV 1958, ABO 1964																
*BEAVER CREEK S +, CLINTON, BOND, 3-4N, 2-3W																
CYPRESS, MIS		1005 1946	590	8,7	735,3	53	0	1	25			S	20	A	SIL	2606
BETMEL, MIS		1076 1974	10			1	0	0				S	7			
BENOIST, MIS		1140 1946	560			50	0	1	35			S	5	A		
BECKEMEYER GAS +, CLINTON, 2N, 3W																
CYPRESS, MIS		1070 1956	10	0,0	0,0	1	0	0	0			S	23		SIL	2730
ADD 1956																
*BELLAIR, CRAWFORD, JASPER, 8N, 14W																
(500 FT), PEN		540 1907	2230	X	X	543	0	1	71			S	30	AM	DEV	2732
(800 FT), PEN		815	2140			315	0	0		24		S	X	AM		
(900 FT), MIS		885	#			77	0	1		37		S	X	AM		
CYPRESS, MIS		950	#			190	0	0		37		S	X	AM		
BENOIST, MIS		1000	70			5	0	0		36		S	4	AM		
RENAULT, MIS		830	420			5	0	0		36		S	10	AM		
AUX VASES, MIS		800	30			6	0	0		37		S	6	AM		
OHARA, MIS		860	220			11	0	0		38		S	X	AM		
CAMPER, MIS		1746 1969	30			1	0	0		37		L	4	A		
			50			4	0	0				S	14			
SEE CLARK COUNTY DIV. FOR PRODUCTION																
BELLE PRAIRIE, HAMILTON, 4S, 6-7E																
MCCLOSKEY, MIS		3420 1940	300	11,6	1081,7	17	0	0	9	38	0,12	L	6	AC	DEV	5483
BELLE PRAIRIE W, HAMILTON, 4S, 5E																
ULLIN, MIS		4206 1959	10	0,0	0,5	1	0	0	0	37		L	6		MIS	4589
ARO 1960																
BELLE RIVE, JEFFERSON, 3S, 4E																
MCCLOSKEY, MIS		3085 1943	110	2,3	404,0	6	0	0	3	37	0,50	L	6	AC	MIS	4200
BELLMONT, WABASH, 1S, 13-14W																
BETMEL, MIS		2650 1951	30	0,0	73,0	4	0	0	0			S	7	ML	MIS	3006
OHARA, MIS		2840 1951	10		11,0	1	0	0		36		S	7	ML		
			20		62,0	3	0	0		40		L	7	MC		
ARO 1972																
*BEMAN, LAWRENCE, 3N, 11W																
AUX VASES, MIS		1805 1942	530	1,4	326,6	34	0	0	8			S	20	AL	DEV	3410
STE. G, MIS		1850 1942	100			8	0	0		38		S	7	AC		
			440			30	0	0		38		L	7	AC		
BEMAN E, LAWRENCE, 3N, 10W																
AUX VASES, MIS		1805 1947	110	0,0	116,0	7	0	0	0			S	20	AL	MIS	1924
STE. G, MIS		1860 1947	30			3	0	0		38		S	7	AC		
			110			6	0	0		38		L	7	AC		
ABU 1960, REV 1965, ABO 1969																
BENNINGTON S, EDWARDS, 1N, 10E																
MCCLOSKEY, MIS		3240 1944	10	0,0	10,4	1	0	0	0	37		L	8	MC	MIS	3420
ABU 1946																
*BENTON, FRANKLIN, 6S, 2-3E																
PENNSYLVANIAN		1700 1941	2360	31,1	3996,4	268	0	6	80			S	9	AL	TRN	6250
TAR SPRINGS, MIS		2100 1941	20			2	0	0		33		S	10	A		
AUX VASES, MIS		2752 1959	2360			249	0	5		38		S	15	A		
OHARA, MIS		2804 1959	300			21	0	1		38		L	8	A		
MCCLOSKEY, MIS		2906 1960	190			13	0	1		37		OL	4	AC		
ST. LOUIS, MIS		2990 1960	#			5	0	0		38		L	6	A		
ULLIN, MIS		3705 1960	10			1	0	0		38		L	5	A		
			10			1	0	0		38		L	5	A		
*BENTON N, FRANKLIN, 5-6S, 2E																
		1941	810	11,5	3923,7	80	0	5	3				A	MIS	3700	

(CONTINUED ON NEXT PAGE)

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH (FT)	OF DISC- VERY	AREA PRU- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST
					OUR- 1978	TO END OF 1978	COMP- LETED 1978	CO- MPL- 1978	AB- AND- 1978	PRUD- UCING END OF YEAR	SOL- FOR API	PERC- ENT	KIND OF ROCK	THI- CK- ESS	STR- UCT- URE	ZONE
(CONTINUED FROM PREVIOUS PAGE)																
BENTON N, FRANKLIN, 5-6S, 2E																
CYPRESS, MIS		2460	1944	100			14	0	0		38	S	17	A		
PAINT CREEK, MIS		2501	1962	390			14	0	4		38	S	8			
BETHEL, MIS		2600	1942	#			21	0	1		38	0,15	S	20	AL	
AUX VASES, MIS		2685		190			15	0	1		39	0,15	S	10	A	
OHARA, MIS		2730		460			13	0	0		38	0,70	L	8	A	
SPAR MTN, MIS		2775	1941	#			8	0	0		36	0,15	S	6	A	
MCCLOSKEY, MIS		2800		#			19	0	0		34		L	10	A	
BERRY, SANGAMON, 15N, 3W																
			1961	650	5,3	577,6	44	0	0		22					SIL 1964
DEVONIAN		1743	1962	60			2	0	0		38	S	4			
SILURIAN		1736	1961	590			42	0	0		38	L	35			
BERRYVILLE C, WABASH, EDWARDS, RICHLAND, 1-2N, 14W																
			1943	550	6,0	1629,2	31	0	1		6			M	MIS	3688
OHARA, MIS		2900	1943	540			6	0	0		39	L	6	MC		
SPAR MTN, MIS		2850	1943	#			13	0	0			L	12	MC		
MCCLOSKEY, MIS		2890	1947				12	0	0		36	L	10	MC		
SALEM, MIS		3370	1975	10			1	0	1			L	10			
ULLIN, MIS		3605	1975	10			1	0	1			L	10			
BESSIE, FRANKLIN, 6S, 3E																
OHARA, MIS		2895	1943	10	1,9	147,0	1	0	0		1	39	0,15	L	10	MC MIS 3457
BLACK BRANCH, SANGAMON, 15N, 4W																
SILURIAN		1600	1967	350	7,0	591,6	24	0	1		17	38	L	10	SIL	1744
BLACK BRANCH E +, SANGAMON, 15N, 4W																
SILURIAN		1720	1969	10	0,0	2,8	1	0	0		0		L	20	SIL	1755
				ABO	1974											
BLACKLAND, MACON, CHRISTIAN, 15N, 1E-1W																
SILURIAN		1935	1953	380	0,6	493,2	41	0	0		3	39	L	12	MU	ORO 3780
BLACKLAND N, MACON, 16N, 1E																
SILURIAN		1948	1960	260	1,0	247,2	22	0	0		4	39	L	11	M	SIL 2164
BLACK RIVER, WHITE, 4S, 13W																
CLORE, MIS		1865	1952	50	7,8	44,2	5	4	0		4	36	S	6	MIS	3071
				ABO	1974, REV 1978											
BLAIRSVILLE W, HAMILTON, 4S, 7E																
			1948	180	0,0	408,3	10	0	0		1			A	MIS	3507
AUX VASES, MIS		3250	1948	30			3	0	0							
SPAR MTN, MIS		3345		160			1	0	0			L	6	AC		
MCCLOSKEY, MIS		3405	1951	#			10	0	0		37	L	8	AC		
BLUFORD, JEFFERSON, 2S, 4E																
MCCLOSKEY, MIS		3060	1961	30	1,2	157,3	2	0	0		1	38	OL	6	MIS	3833
BOGOTA, JASPER, 6N, 9E																
			1943	190	1,0	534,8	10	0	0		1			A	MIS	3234
SPAR MTN, MIS		3090		190			1	0	0			L	4	AC		
MCCLOSKEY, MIS		3110	1943	#			9	0	0		39	L	7	A		
BOGOTA N, JASPER, 6N, 9E																
MCCLOSKEY, MIS		3080	1949	20	0,0	0,0	2	0	0		1	37	L	3	MIS	3647
				ABO	1950, REV 1973											
BOGOTA S, JASPER, 5-6N, 9E																
MCCLOSKEY, MIS		3075	1944	300	1,6	544,8	23	0	0		3	37	L	8	MC	MIS 3712
BOGOTA W, JASPER, 6N, 9E																
MCCLOSKEY, MIS		3080	1966	10	0,0	0,0	1	0	0		0	37	0	6	MIS	3655
				ABO	1967											

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA	PRODUCTION M BBLs			NUMBER OF WELLS				CHARACTER OF OIL				PAY ZONE	DEEPEST TEST
				PRO- VED	UR- IN	TO ENO OF 1978	COMP- LETED TO ENO OF 1978	CO- MPL- ETEO IN 1978	AR- AND OED 1978	PROO- GCING ENO OF YEAR	SUL- FUR IN PERC- ENT	OF	KIND OF ROCK	THI- OF		

*BONE GAP C, EDWARDS, 1S, 10-11E, 14W																
		1941	1240	27.6	2612.1	70	1	0	25							
PENNSYLVANIAN		2110 1952	10			1	0	0		32	S			A	MIS 4240	
WALTERSBURG, MIS		2310 1951	170			17	0	0		35	S		20	A		
CYPRESS, MIS		2710 1947	100			7	0	0		37	S		10	A		
BETHEL, MIS		2680 1952	60			5	0	0		39	S		14	AL		
AUX VASES, MIS		3020 1947	10			1	0	0		36	S		9	AL		
UHARA, MIS		3040 1948	950			10	1	0		34	L		5	AC		
SPAR MTN, MIS		3045 1947	#			7	0	0		35	L		5	AC		
MCCLOSKEY, MIS		3200 1941	#			24	0	0		36	0,33	L	6	AC		

*BONE GAP E, EDWARDS, 1S, 14W																
		1951	180	14.5	83.6	14	1	0	11					M	MIS 4000	
UHARA, MIS		2980 1951	60			5	1	0			L		10	MC		
MCCLOSKEY, MIS		3050	#			1	0	0		36	L		5	MC		
SALEM, MIS		3555 1974	120			9	0	0			L		4			
ABU 1956, REV 1974																

*BONE GAP W, EDWARDS, 1S, 10E																
		1954	100	0.0	31.8	5	0	0	3	36	L		5	MIS 3504		
STE, GEN, MIS		3290 1954														
ABU 1975, REV 1964																

*BUULDER +, CLINTON, 2-3N, 2W																
		1941	580	0.0	8120.0	55	0	0	0					U	7RN 3613	
BENOIST, MIS		1190 1942	500			33	0	0		37	S		20	U		
GENEVA, DEV		2630 1941	470			22	0	0		28	0,33	0	7	K		
SILURIAN		2700 1963	40			1	0	0		40	L		4			
ABU 1965																

*BUULDER E +, CLINTON, 3N, 1W																
		1955	50	4.7	228.7	5	0	0	3	39	L		5	DEV 2946		
DEVONIAN		2850 1955														

*BOURBON C, DOUGLAS, 15N, 7E																
		1956	1050	3.1	1806.5	93	0	2	26						2709	
SPAR MTN, MIS		1600 1956	1050			92	0	2		34	L8		12	NC		
MCCLOSKEY, MIS		1715 1976	#			1	0	0			L		5			

*BOURBON S, DOUGLAS, 15N, 7E																
		1960	50	0.6	7.4	3	0	0	2	34	S		12	NC	MIS 1780	
SPAR MTN, MIS		1693 1960														
ABU 1964, REV 1976																

*BUNYER, HIGHLAND, 5N, 14W																
		1958	20	0.0	11.7	2	0	0	0						MIS 2950	
SPAR MTN, MIS		2683 1958	10			1	0	0		36	S		X			
MCCLOSKEY, MIS		2876 1971	10			1	0	0			L		5			
ABU 1967, REV 1971, ABU 1972																

*BUDY, JEFFERSON, 1S, 1-2E																
		1944	1490	16.4	14896.8	127	0	0	39					A	TRN 5400	
BENOIST, MIS		2060 1944	1450			114	0	0		35	0,14	S	19	A		
AUX VASES, MIS		2130 1944	660			48	0	0		37	S		15	A		
UHARA, MIS		2230 1945	30			24	0	0		39	L		2	AC		
TRENTON, URU		5000 1967	60			5	0	0					X			

*BROUGHTON, HAMILTON, 6S, 7E																
		1951	220	62.4	108.9	15	10	0	14						MIS 4446	
MCCLOSKEY, MIS		3275 1951	50			4	2	0		37	L		5			
SALEM, MIS		4024 1978	20			3	3	0			L		35			
ULLIN, MIS		4190 1977	150			8	5	0			L		10			
ABU 1954, REV 1977																

*BROUGHTON S, SALINE, 7S, 7E																
		1951	20	0.0	0.1	2	0	0	0						MIS 3300	
TAR SPRINGS, MIS		2315 1974	10			1	0	0			S		7			
MCCLOSKEY, MIS		3215 1951	10			1	0	0		38	L		4			
ABU 1952, REV 1974, ABU 1976																

*BROWN, MARION, 1N, 1E																
		1910	120	2.0	156.4	12	0	0	10	36	S		X	N	MIS 2036	
CYPRESS, MIS		1670 1910														

*BROWNS, EDWARDS, WABASH, 1-2S, 14W																
		1943	1060	33.0	2791.7	69	0	0	32					A	DEV 5200	
BIHL, PEN		1870 1962	10			1	0	0		32	S		8			
TAR SPRINGS, MIS		2365 1947	40			1	0	0		36	S		14	AL		
CYPRESS, MIS		2640 1943	380			26	0	0		36	0,18	S	13	A		

(CONTINUED ON NEXT PAGE)

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH (FT)	AREA PRO- VED IN ACRES	PRODUCTION M BBLs			NUMBER OF WELLS					CHARACTER OF OIL			DEEPEST TEST		
				1978	TO END OF 1978	2952.0	COMP- LETED 1978	CO- MPL- 1978	AB- ANO- 1978	PROO- OCING END OF YEAR	SOL- FUM PERC- ENT	PAY ZONE	KIND OF ROCK	THI- CK- NESS	STR- UCT- URE	ZONE	DEP- TH (FT)
(CONTINUED FROM PREVIOUS PAGE)																	
•BRUNNS, EDWARDS, WABASH, 1-2S, 14W																	
BETHEL, MIS		2785 1944	80			5	0	0		39			8	12	AL		
AUX VASES, MIS		2965	10			1	0	0		36			3	7	AL		
OHARA, MIS		2965 1946	770			13	0	0		34			L	4	AC		
SPAR MTN, MIS		2975 1947	#			1	0	0					L	3	AC		
MCCLOSKEY, MIS		3000 1944	#			35	0	0		36			L	6	A		
•BRUNNS E, WABASH, 1-2S, 14W																	
		1946	900	8.9	2952.0	76	3	1		19						MIS 3729	
PENNSYLVANIAN		1844 1963	10			1	0	0		32			S	X			
CYPRESS, MIS		2570 1946	790			72	0	0		36			S	13	ML		
SPAR MTN, MIS		2950 1977	70			3	1	0					S	5			
SALEM, MIS		3420 1976	30			4	2	1					L	20			
BRUNNS S, EDWARDS, 2S, 14W																	
		1943	120	8.9	125.1	11	0	0		8					N	MIS 3670	
WALTERSBURG, MIS		2330 1976	10			1	0	0					S	10			
BETHEL, MIS		2850 1943	60			5	0	0		38			S	15	NL		
AUX VASES, MIS		2950 1947	40			5	0	0		36			S	8	NL		
OHARA, MIS		3020 1976	20			2	0	0					L	6			
ABO 1968, REV 1970																	
BRUBAKER, MARION, 3N, 3E																	
		1973	170	50.4	305.7	11	0	2		9						SIL 5200	
SPAR MTN, MIS		2341 1975	50			2	0	0					S	20			
MCCLOSKEY, MIS		2395 1975	#			1	0	0					OL	5			
ST LOUIS, MIS		2550 1976	40			3	0	0					L	46			
SALEM, MIS		2765 1974	10			1	0	1					0	7			
DEVONIAN		3020 1973	70			4	0	1		34			L	1			
BUCKMONN, BROWN, 1-2S, 4W																	
SILURIAN		082 1961	50	0.0	0.0	5	0	0		4 37			0	3		SIL 705	
ABO 1964, REV 1973																	
BUCKNER, FRANKLIN, 6S, 2E																	
AUX VASES, MIS		2601 1963	80	3.1	79.3	6	0	0		4 38			S	12		MIS 3060	
BULPITT S, CHRISTIAN, 13N, 3W																	
DEV-SIL		1911 1962	60	0.0	3.4	4	0	0		0 38			L	15		DEV 1990	
ABO 1969																	
•BUNGAY C, HAMILTON, 4S, 7E																	
		1941	3270	45.8	14325.7	255	1	0		72					A	DEV 5566	
RENAULT, MIS		3270	550			22	0	0		39			S	10	AL		
AUX VASES, MIS		3295 1941	2740			195	0	0		39 0.24			S	15	AL		
OHARA, MIS		3335	350			4	0	0					L	8	AC		
SPAR MTN, MIS		3400 1943	#			3	0	0					L	8	AC		
MCCLOSKEY, MIS		3425 1943	#			18	2	0		36 0.24			L	8	AC		
ULLIN, MIS		4190 1959	10			1	0	0		38			L	10	AC		
BUNKT PRAIRIE S, WHITE, 4S, 9E																	
		1947	30	0.2	30.9	4	0	0		1						MIS 3565	
AUX VASES, MIS		3330	10			1	0	0		37			S	24			
OHARA, MIS		3415 1947	30			1	0	0		38			L	6			
MCCLOSKEY, MIS		3460	#			2	0	0					L	4			
CALMOON CEN, RICHLAND, 2N, 10E																	
		1950	30	0.0	0.5	3	0	0		0					M	MIS 3533	
SPAR MTN, MIS		3245	30			2	0	0					L	6	MC		
MCCLOSKEY, MIS		3280 1950	#			1	0	0		37			L	3	MC		
ABO 1952, REV AND ABO 1959																	
•CALMOON C, RICHLAND, WAYNE, 2-3N, 9-10E																	
		1944	1980	15.3	4137.4	110	1	2		14					A	MIS 4039	
OHARA, MIS		3140 1944	1970			22	0	0		39			OL	9	A		
SPAR MTN, MIS		3160	#			25	0	0		37			OL	6	A		
MCCLOSKEY, MIS		3180 1944	#			64	1	1		39 0.15			OL	10	A		
ST LOUIS, MIS		3370 1967	10			1	0	0		39			L	9			
SALEM, MIS		3730 1967	20			2	0	1		39			L	8			
•CALMOON E, RICHLAND, 2N, 10-11E																	
MCCLOSKEY, MIS		3265 1950	150	0.0	330.6	9	0	0		0 39			L	5	MC	MIS 3380	
ABO 1977																	

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR O&P OF TH DISC- (FT) OVERY	AREA PRD- VEO IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST
				OUR- ING 1978	TO END OF 1978	COMP- LEVED TO END OF 1978	CO- MPL- AB- IN 1978	AB- ONEO 1978	PROO- UCING END OF YEAR	SUL- FUR GR, API	PERC- ENT	KIND OF ROCK	THI- CKN- ESS	STR- UCT- UKE	ZONE
CALMOUN N, RICHLAND, 3N, 10E															
		1944	60	1,3	83,0	4	0	1	1						
	SPAR MTN, MIS	3155 1944	60			1	0	0				L8	10	A	MIS 3280
	MCCLOSKEY, MIS	3170 1944	#			4	0	1		36		OL	11	A	
*CALMOUN S, WAYNE, RICHLAND, EDWARDS, 1-2N, 9E															
		1953	570	18,0	706,4	34	0	0	12						MIS 4152
	AUX VASES, MIS	3175 1953	20			2	0	0		38		L	5		
	UMARA, MIS	3232 1963	550			4	0	0				L	8		
	SPAR MTN, MIS	3224 1962	#			17	0	0				L	5		
	MCCLOSKEY, MIS	3209 1961	#			20	0	0		37		OL	6		
	ABO 1953, REV 1961														
CARLINVILLE +, MACOUPIN, 9N, 7W															
	UNNAMED, PEN	380 1909	40	0,0	X	8	0	0	2	28		S	X	A	MIS 1380
	ABO 1925, REV 1942														
CARLINVILLE N +, MACOUPIN, 10N, 7W															
	POTTSVILLE, PEN	440 1941	100	0,0	1,0	16	0	0	0	20	0,35	S	10		TRN 1970
	ABO 1954														
CARLINVILLE S, MACOUPIN, 9N, 7W															
	PENNSYLVANIAN	539 1958	10	0,0	0,0	1	0	0	0	26		S	X		PEN 1020
	ABO 1964														
*CARLYLE, CLINTON, 2N, 3W															
		1911	1310	21,9	4209,8	202	0	0	29						STP 4120
	GOLCUNDA, MIS	900 1952	10			7	0	0		35		L	10	AC	
	CARLYLE(CYP), MIS	1035 1911	1300			200	0	0		35	0,26	S	20	AL	
CARLYLE E, CLINTON, 2N, 2W															
	BENDIST, MIS	1197 1963	30	0,4	0,4	2	1	0	1	34		S	4		MIS 1245
	ABO 1972, REV 1978														
*CARLYLE N, CLINTON, 3N, 3W															
	BENDIST, MIS	1150 1950	530	12,6	930,6	45	0	0	31	34		S	6	AL	DEV 2558
CARLYLE S, CLINTON, 1N, 5W															
	CYPRESS, MIS	1075 1951	20	0,0	2,0	2	0	0	0	35		S	4		MIS 1194
	ABO 1953														
*CARMI, WHITE, 5S, 9E															
		1940	250	1,9	399,3	21	0	0	3						MIS 3546
	PENNSYLVANIAN	1210	10			1	0	0		32		S	10	ML	
	CYPRESS, MIS	2800	100			8	0	0		38		S	15	ML	
	AUX VASES, MIS	3145	50			5	0	0		37		S	8	ML	
	MCCLOSKEY, MIS	3150 1940	110			8	0	0		35		OL	6	MC	
	ABO 1949, REV 1952														
CARMI N, WHITE, 5S, 9E															
		1942	80	1,3	296,1	4	0	0	3						MIS 3452
	CYPRESS, MIS	2940	20			1	0	0		38		S	13	AF	
	SAMPLE, MIS	3080 1954	10			1	0	0		37		S	12	AF	
	AUX VASES, MIS	3270 1942	60			5	0	0		36	0,14	S	14	AF	
*CASEY, CLARK, 10-11N, 14W															
		1906	3030	X	X	512	1	0	224						TRN 2608
	UPPER GAS, PEN	265	2720			43	0	0		32		S	X	AM	
	LOWER GAS, PEN	300	#			86	0	0		30		S	X	AM	
	CASEY, PEN	445	#			373	1	0		35		S	10	AM	
	CARPER, MIS	1300	250			20	0	0		38		S	50	AM	
	SEE CLARK COUNTY DIV FOR PRODUCTION														
*CENTERVILLE, WHITE, 4S, 9E															
		1940	190	0,7	533,0	13	0	0	1						MIS 3919
	AUX VASES, MIS	3240 1953	10			1	0	0		37		S	6	NL	
	UMARA, MIS	3310	190			6	0	0		38		L	10	NC	
	SPAR MTN, MIS	3370	#			2	0	0				L	8	NC	
	MCCLOSKEY, MIS	3370 1940	#			6	0	0		37	0,17	OL	4	NC	
*CENTERVILLE E, WHITE, 3-4S, 9-10E															
		1941	1270	32,8	8489,1	136	0	0	60						MIS 4350
	PALESTINE, MIS	2225 1950	20			2	0	0		35		S	3	ALF	
	TAR SPRINGS, MIS	2500	820			35	0	0		38	0,20	S	24	ALF	

(CONTINUED ON NEXT PAGE)

TABLE 8 continued

WELL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR OF DISCOVERY	AREA PROD IN ACRES	PRODUCTION M BLS		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST ZONE (FT)	
				1978	TO END OF 1978	COMPLETED TO END OF 1978	CO-ETEU IN 1978	AR-ONED 1978	PRODUCING YEAR	SOL-FUR PERCENT	KIND OF ROCK	TMI-LAS	STR-URE			
														1978		1978
(CONTINUED FROM PREVIOUS PAGE)																
*CENTERVILLE E, WHITE, 3-4S, 9-10E																
MARDINSBURG, MIS	2615	1950	40			1	0	0		36	S	22	ALF			
CYPRESS, MIS	2915	1941	640			47	0	0		37	S	6	ALF			
BETHEL, MIS	2990	1942	220			20	0	0		38	S	20	ALF			
AUX VASES, MIS	3075		530			38	0	0		37	S	21	ALF			
OMARA, MIS	3175		320			4	0	0		36	OL	5	ACF			
SPAR MTN, MIS	3185		#			1	0	0			LS	6	ACF			
MCCLOSKEY, MIS	3230		#			16	0	0		37	OL	7	ACF			
CENTERVILLE N, WHITE, 3S, 10E																
BETHEL, MIS	2490	1947	10	0.0	0.0	1	0	0	0	38	S	13	ML	MIS	3332	
CENTERVILLE N E, WHITE, 3S, 10E																
BETHEL, MIS	3055	1955	10	0.0	5.6	1	0	0	0	38	S	14		MIS	3407	
*CENTRAL CITY, MARION, 1N, 1E																
PENNSYLVANIAN	826	1964	150	3.0	75.6	13	1	0	11	33	S	10		MIS	1942	
*CENTRALIA, CLINTON, MARION, 1-2N, 1E, 1W																
	1937		2980	133.5	57470.2	1021	0	0	237					A	ORO	4170
PETRO, PEN	765	1958	30			4	0	0		32	S	x	A			
CYPRESS, MIS	1200		1530			57	0	0		37	0.20	S	12	A		
BENEDICT, MIS	1355	1937	2510			577	0	0		38	0.17	S	20	A		
DEVONIAN	2870	1939	2610			319	0	0		40	0.38	L	9	A		
TRENTON, ORO	3430	1940	1100			59	0	0		40		L	22	A		
CENTRALIA W, CLINTON, 1N, 1W																
CYPRESS, MIS	1308	1960	10	0.8	420.6	10	0	0	1	35	S	4	N	DEV	3021	
BENEDICT, MIS	1440	1940	90			9	0	0		38	0.17	S	9	N		
CHESTERVILLE, DOUGLAS, 15N, 7E																
SPAR MTN, MIS	1780	1956	50	0.2	36.3	5	0	0	1	39	LS	8	ML	MIS	1629	
*CHESTERVILLE E, DOUGLAS, 14-15N, 7-8E																
SPAR MTN, MIS	1720	1957	400	0.0	1164.4	41	0	0	0	39	S	10	NC	MIS	1785	
CHRISTOPHER S, FRANKLIN, 7S, 1E																
AUX VASES, MIS	2620	1964	30	0.0	9.9	3	0	0	0					MIS	2620	
OMARA, MIS	2690	1964	10			1	0	0		37	L	10				
CLAREMONT, RICHLAND, 3N, 14W																
SPAR MTN, MIS	3200	1950	100	0.0	20.2	8	0	0	0					MIS	3340	
MCCLOSKEY, MIS	3218	1969	100			5	0	0			S	5				
CLARK COUNTY DIV, CLARK, COLES, CRAWFORD, CUMBERLAND, JASPER																
	1900		26930	277.3	86337.9	5418	34	13	1618					ORO	4519	
INCL BELLAIR CASEY JOHNSON N,S MARTINSVILLE SIGGINS WESTFLD YOMK																
CLARKSBURG, SHELBY, 10N, 4E																
AUX VASES, MIS	1770	1946	50	5.3	89.8	5	0	0	2	36	S	6	A	DEV	3206	
*CLAY CITY C, CLAY, WAYNE, RICHLAND, JASPER, 1-7N, 1-2S, 6-11E																
	1937		94770	3129.7	314996.5	6427	82	44	2270					A	PC	11614
WALTERSBURG, MIS	2175	1952	10			1	0	0		36	S	6	AL			
TAR SPRINGS, MIS	2560	1949	130			8	0	0		38	S	15	AL			
CYPRESS, MIS	2635	1937	8160			571	3	2		36	S	15	AL			
BETHEL, MIS	2800		230			20	0	0		39	S	15	AL			
AUX VASES, MIS	2940	1942	31040			2104	26	23		38	S	15	AL			
OMARA, MIS	3020		65260			248	4	1		38	OL	5	AC			
SPAR MTN, MIS	3030		#			642	6	4		38	LS	8	AC			
MCCLOSKEY, MIS	3050	1937	#			3068	28	16		39	OL	10	AC			
ST. LOUIS, MIS	3025	1949	2770			233	6	2		38	L	3	A			
SALEM, MIS	3590	1950	5290			314	30	5		39	L	10	A			
ULLIN, MIS	3600	1952	260			20	0	1		40	L	17	A			
LINGLE, DEV	4350	1949	20			1	0	0		39	L	10	A			

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP OF TH UISC- OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST			
				DUR- ING 1978	TO END OF 1978	COM- PLET- ED END OF 1978	CO- MPL- ETED 1978	A8- AND- ONED 1978	PROD- UCING END OF YEAR	SUL- FUH PERC- ENT	KINU UP RUCK			THI- CKN- ESS	STR- UCT- URE	ZONE
CLEAR LAKE E, SANGAMON, 16N, 4W																
SILURIAN		1596 1970	40	0.2	23.7	2	0	0	1	25	L	12	81L	1653		
CLIFFORD, WILLIAMSUN, 8S, 1E																
AUX VASES, MIS		2380 1957	40	0.0	15.0	2	0	0	0		S	7	MIS	2625		
SPAR MTN, MIS		2470 1957	20			1	0	0			LS	7				
MCCLOSKY, MIS		2540 1957	#			1	0	0			L	5				
ARD 1965																
*COIL, WAYNE, 19, 5E																
AUX VASES, MIS		2910 1942	480	78.5	3038.3	35	3	1	23		S	10	A	MIS	3650	
MCCLOSKY, MIS		3065 1942	310			22	0	0		39	0.12	OL	15	AC		
ST LOUIS, MIS		3021 1967	100			6	0	0			L	9				
SALEM, MIS		3510 1977	90			8	3	1			L	14				
COIL N, WAYNE, 1N-1S, 5E																
AUX VASES, MIS		2641 1958	100	1.1	225.2	9	3	0	6	39	S	X	MIS	3077		
*COIL W, JEFFERSON, 1S, 4E																
AUX VASES, MIS		2720 1942	550	20.6	1176.1	49	4	2	19		S	15	A	MIS	3666	
UMARA, MIS		2790 1942	160			15	0	0		39	L	7	AC			
SPAR MTN, MIS		2805	#			2	0	0			L	X	AC			
MCCLOSKY, MIS		2880 1942	#			13	0	0		38	L	8	AC			
ST LOUIS, MIS		3040 1967	160			15	0	0		39	L	7	AC			
SALEM, MIS		3346 1961	160			12	4	2		37	L	10	A			
COLLINSVILLE, MAUISON, 3N, 8W																
SILURIAN		1305 1949	40	0.0	1.0	6	0	0	0	37	L	20	ML	STP	2177	
ARD 1921																
*COLMAR-PLYMOUTH, HANCOCK-MCCONDOUGH, 4-5N, 4-5W																
MOING, DEV		430 1914	2520	23.2	4998.6	505	0	0	67	35	0.38	S	14	AL	SHK	1095
*CONCORD C, WHITE, 6S, 10E																
TAR SPRINGS, MIS		2270 1943	350	73.6	8294.5	161	3	0	61		S	11	AL	DEV	5313	
HANDINSBURG, MIS		2510 1954	350			30	0	0		36	S	7	A			
CYPRESS, MIS		2625 1944	270			19	0	0		37	S	10	AL			
AUX VASES, MIS		2905 1942	670			49	0	0		36	0.15	S	14	AL		
UMARA, MIS		2930 1943	1060			2	0	0			L	8	AC			
SPAR MTN, MIS		3035	#			3	0	0			L	8	AC			
MCCLOSKY, MIS		2990	#			56	0	0		37	L	10	AC			
ST LOUIS, MIS		3370 1976	140			9	1	0			L	7				
ULLIN, MIS		3900 1975	200			9	2	0			L					
CONCORD E C, WHITE, 6-7S, 10E																
WALTERSBURG, MIS		2140 1942	420	2.8	892.4	39	0	0	13		S		A	MIS	3125	
TAR SPRINGS, MIS		2175	70			4	0	0		33	S	10	A			
CYPRESS, MIS		2540	190			5	0	0		36	S	4	A			
KENAULT, MIS		2800	20			18	0	0		38	S	6	A			
AUX VASES, MIS		2825	70			2	0	0		36	L	6	A			
UMARA, MIS		2895	120			7	0	0		36	S	12	A			
SPAR MTN, MIS		2895	#			3	0	0			L	6	AC			
MCCLOSKY, MIS		2965	#			5	0	0			S	5	AC			
			#			3	0	0		37	L	2	AC			
*COOKS MILLS C, COLES, DOUGLAS, 13-14N, 7-8E																
CYPRESS, MIS		1600 1955	3100	10.1	3072.9	248	0	1	53		S	20	A	DEV	3059	
AUX VASES, MIS		1765 1941	10			1	0	0		39	S	15	A			
SPAR MTN, MIS		1800 1946	3040			2	0	0		37	S	9	A			
MCCLOSKY, MIS		1840 1955	#			240	0	1		37	S	4	A			
CARPER, MIS		2700 1963	20			1	0	0		38	S	5				
DEVONIAN		2867 1963	40			4	0	0		37	L	3				
*COURTES, WASHINGTON, 3S, 3W																
BENDIST, MIS		1260 1939	1630	46.6	10230.0	155	0	1	36	36	0.19	S	14	A	TRN	3880

TABLE 8 continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH (FT)	OF DISC- VERY	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE	DEEPEST TEST				
				AREA PRO- VED IN ACRES	TO UN- ING 1978	TO END OF 1978	COM- LETED TO END OF 1978	CO- MPL- ETED IN 1978	AB- AND- UNED 1978	PROD- UCING END OF YFAR	GR. API			SUL- FUR PERC- ENT	KIND OF ROCK	THI- CK- ESS	STR- UCT- URE
CORINTH, WILLIAMSON, 8S, 4E																	
AUX VASES, MIS		1957		310	16.2	512.6	20	1	0	18				MIS	3550		
OHARA, MIS		2885	1957	290			18	0	0	38	S	10					
SPAR MTN, MIS		2429		50			2	1	0	38	L	X					
		2985	1957	#			2	0	0	38	L	10					
CORINTH E, WILLIAMSON, 8S, 4E																	
MCCLOSKEY, MIS		3035	1957	10	0.0	10.6	1	0	0	0	38	L	10	MIS	3113		
				ABU	1960												
CORINTH N, WILLIAMSON, 8S, 4E																	
AUX VASES, MIS		2935	1957	10	0.0	3.7	1	0	0	0	36	S	16	MIS	3180		
				ABU	1960												
CORINTH S, WILLIAMSON, 9S, 4E																	
CYPRESS, MIS		2350	1972	10	0.3	7.5	1	0	0	0		S	A	MIS	2820		
				ABU	1975												
COTTAGE GROVE, SALINE, 9S, 7E																	
OHARA, MIS		2770	1955	10	0.0	12.5	1	0	0	0	38	L	X	MIS	2977		
				ABU	1963												
COULTERVILLE N, WASHINGTON, 3S, SW																	
SILURIAN		2290	1958	50	1.6	37.3	5	0	0	3	42	L		ORD	3204		
*COVINGTON S, WAYNE, 2S, 6E																	
MCCLOSKEY, MIS		1943		530	7.2	483.3	19	1	0	3				AC	DEV	5300	
ST. LOUIS, MIS		3310	1943	440			13	1	0	36	0.18	L	5	AC			
ULLIN, MIS		3361	1962	10			1	0	0	36		L	4				
		4148	1960	80			5	0	0	36		L	12	AC			
CHAIG, PERRY, 4S, 4W																	
TRENTON, ORD		3650	1948	10	0.0	2.9	2	0	0	0	35	L	20	A	ORD	3750	
				ABU	1951, REV	1965, ABD											
CRAVAT, JEFFERSON, 1S, 1E																	
BENDIST, MIS		2070	1939	120	0.7	383.6	11	0	0	6	34	0.23	S	10	A	DEV	3850
CRAVAT W, JEFFERSON, 1S, 1E																	
PENNSYLVANIAN		1956		140	0.9	136.1	15	0	0	14				MIS	2382		
BETHEL, MIS		1045	1956	130	0.9	136.1	14	0	0	32		S	10				
		2070	1960	10	0.0	0.0	1	0	0			S	10				
CROSSVILLE, WHITE, 4S, 10E																	
BETHEL, MIS		1946		110	0.0	16.0	11	0	0	0				M	MIS	3283	
AUX VASES, MIS		2880	1948	40			3	0	0	38		S	9	ML			
OHARA, MIS		3030	1956	30			3	0	0	37		S	20	ML			
MCCLOSKEY, MIS		3100		80			1	0	0			L	3	MC			
		3120	1946	#			4	0	0	38		L	5	MC			
				ABU	1952, REV	1956, ABD											
*CROSSVILLE W, WHITE, 4S, 10E																	
CYPRESS, MIS		1952		240	0.0	375.5	17	0	0	0				M	MIS	3500	
AUX VASES, MIS		2810	1973	10			1	0	0			S	1A				
OHARA, MIS		3030	1952	130			9	0	0	37		S	8	ML			
SPAR MTN, MIS		3110	1958	150			1	0	0	37		L	X	M			
MCCLOSKEY, MIS		3150	1958	#			3	0	0			L	X	M			
		3185	1956	#			7	0	0	38		L	X	MC			
				ABU	1953, REV	1956, ABD											
UAHLGREN, HAMILTON, 3S, 5E																	
MCCLOSKEY, MIS		1941		620	1.1	1215.0	45	0	0	2				A	DEV	5299	
ULLIN, MIS		3300	1941	620			44	0	0	37	0.16	L	11	A			
		4110	1956	10			1	0	0	39		L	15	A			
UAHLGREN W, JEFFERSON, 4S, 4E																	
ULLIN, MIS		4019	1960	20	0.0	30.5	2	0	0	0	38	L	6	DEV	5245		
				ABU	1966												
*DALE C, FRANKLIN, HAMILTON, SALINE, 5=7S, 4=7E																	
TAR SPRINGS, MIS		1940		18480	239.0	99743.5	1621	3	15	204				A	PC	13051	
		2430	1943	480			41	0	0	36		S	25	A			

(CONTINUED ON NEXT PAGE)

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR OP- TH (FT)	AREA PRO- VEO ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST	
				1978	1978	COMP- LETEO 1978	CO- MPL- 1978	AB- 1978	PROD- UCING YEAR	SOL- FUH PERC- ENT	KIND OF ROCK			THI- STR- ESS URE
<p>WALTON C, FRANKLIN, HAMILTON, SALINE, 5-7S, 4-7E (CONTINUED FROM PREVIOUS PAGE)</p>														
MARIONSBURG, MIS		2480	120			12	0	0		38	S	10	A	
CYPRESS, MIS		2700 1940	1570			126	0	1		39	S	15	A	
BETHEL, MIS		2975	1460			285	0	1		38	0,19	S	1A	A
AUX VASES, MIS		3150 1945	16590			1309	0	12		37	0,15	S	20	A
OHARA, MIS		3110	1790			109	0	2		38	0,22	L	10	A
SPAR MTN, MIS		3130	#			14	0	0		38	LS	7	A	
MCCLOSKEY, MIS		3150 1940	#			147	1	2		36	0,19	L	7	A
ST. LOUIS, MIS		3163 1965	60			6	0	0		39	L	x		
MULLIN, MIS		4168 1978	20			2	2	0			L	10		
<p>OWSON, SANGAMON, 16N, 3W</p>														
SILURIAN		1636 1971	10 ABU 1972	0,0	0,0	1	0	0	0		L	10	SIL	1705
<p>DECATUR, MACON, 16-17N, 2E</p>														
SILURIAN		2000 1953	110 ABO 1959	0,0	15,0	6	0	0	0	37	L	7	MU	OKO 2800
<p>DECATUR N, MACON, 17N, 3E</p>														
SILURIAN		2200 1954	10 ABO 1955	0,0	0,1	1	0	0	0	38	L	10	MU	SIL 2240
<p>DEERING CITY, FRANKLIN, 7S, 3E</p>														
AUX VASES, MIS		1957	110	1,6	322,2	8	0	0	6					MIS 3146
MCCLOSKEY, MIS		2810 1957	80			6	0	0		38	S	20		
		2913 1963	30			2	0	0		34	OL	4		
<p>DEERING CITY E, FRANKLIN, 7S, 3E</p>														
MCCLOSKEY, MIS		2965 1974	10	1,2	7,3	1	0	0	1		L	7		MIS 3117
<p>DIVIDE C, JEFFERSON, 1S, 3-4E</p>														
AUX VASES, MIS		1943	1880	110,1	11221,8	266	3	6	124					DEV 4700
OHARA, MIS		2620 1947	170			10	0	0		38	S	10	AL	
SPAR MTN, MIS		2700 1944	2570			8	0	0			L	10	AC	
MCCLOSKEY, MIS		2700 1945	#			20	0	2		36	LS	6	A	
MCCLOSKEY, MIS		2750 1943	#			157	0	1		37	0,21	L	6	AC
ST. LOUIS, MIS		2660 1955	260			27	0	1		37	L	7	AC	
SALEM, MIS		3190 1960	1300			88	3	6		37	L	10	AC	
<p>DIVIDE S, JEFFERSON, 2S, 3-4E</p>														
MCCLOSKEY, MIS		2680 1948	300	0,0	497,2	16	0	0	1	37	L	5		MIS 3580
<p>DIX S, JEFFERSON, 1S, 2E</p>														
BENOLIST, MIS		1950 1941	20 ABU 1946	0,0	13,4	2	0	0	0	35	S	8	N	MIS 2283
<p>DULLVILLE, SHELBY, 12N, 2E</p>														
BETHEL, MIS		1509 1961	100	0,1	34,8	6	0	0	3	37	S	4		MIS 1600
<p>DUBOIS CEN, WASHINGTON, 3S, 1W</p>														
BENOLIST, MIS		1954	130	6,7	246,8	12	0	0	8					DEV 3100
SPAR MTN, MIS		1535 1955	110			12	0	0		30	S	12		
		1530 1954	70			3	0	0		35	L	A		
<p>DUBOIS C, WASHINGTON, 3S, 1-2W</p>														
CYPRESS, MIS		1939	1550	49,4	2306,6	127	2	2	92					ORO 4217
BENOLIST, MIS		1230 1947	1130			88	2	2		37	S	10	AL	
		1325 1939	490			41	0	0		30	0,26	S	10	AL
<p>DUDLEY, EUGAR, 13-14N, 13W</p>														
UPPER DUDLEY, PEN		1948	800	74,2	2306,2	118	0	0	102					M STP 2997
LOWER DUDLEY, PEN		310	800			24	0	0		25	S	20	ML	
		410	#			94	0	0		24	S	50	ML	
<p>DUDLEYVILLE E, BONO, 4-5N, 2-3W</p>														
DEVONIAN		2570 1954	20 ABU 1961	0,0	2,8	2	0	0	0	37	L	5		ORO 3397

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH (FT)	OF DISC- VERY	AREA PRU- ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST ZONE	DEP- TH (FT)				
					1978	TO 1978	CUM- LETD 1978	CU- MPL- 1978	AB- ETEU 1978	PRUD- UCING 1978	GR, PERL- API	SUL- FUR ENT				KIND OF RUCK	THI- ESB	STR- UNE	
					1978	1978	1978	1978	1978	1978	1978	1978				1978	1978	1978	
DUPD, ST, CLAIN, 1N, 1S, 10W																			
TRENTON, OHO		700	1928	880	19,1	2984,1	321	0	0	26	33	0,70	L	50	A	CAM	3111		
EBERLE, EFFINGHAM, 6N, 6E																			
CYPRESS, MIS		1947		190	5,0	135,6	14	1	0	5						N	MIS	2882	
SPAR MTN, MIS		2475	1947	100			5	1	0	37			S	10		NL			
MCCLOSKEY, MIS		2880		110			2	0	0				LS	5		NC			
		2820	1947	8			4	0	0	38			L	7		N			
ABU 1987, REV 1973																			
EDINBURG, CHRISTIAN, 14N, 3W																			
LINGLE, DEV		1810	1949	10	0,0	2,3	1	0	0	0	38		L	2	A	DEV	1853		
ABU 1951																			
EDINBURG 8, CHRISTIAN, 14N, 3W																			
MIBBARD, DEV		1795	1955	20	0,0	4,4	2	0	0	0	39		LS	13		SIL	1902		
ABU 1983																			
EDINBURG W, CHRISTIAN, SANGAMON, 14N, 3-4W																			
DEVONIAN		1954		1760	31,5	3000,2	12A	0	2	68						A	OHIO	2285	
SILURIAN		1660	1954	60			7	0	0	41			S	6		A			
		1690	1954	1730			123	0	2	41			L	8		A			
ELBA, GALLATIN, 8S, 8E																			
CYPRESS, MIS		1955		210	0,0	25,0	13	0	0	0							MIS	2491	
BETHEL, MIS		2817	1958	10			1	0	0	37			S						
KENAUPT, MIS		2660	1955	80			3	0	0	38			S	10					
AUX VASES, MIS		2770		10			1	0	0	38			L	3					
UMARA, MIS		2780	1955	120			5	0	0	38			S	5					
		2820		40			3	0	0	38			L	11					
ABU 1980																			
ELKHIDGE, EDGAR, 12-13N, 11W																			
PENNSYLVANIAN		1949		440	4,9	1517,9	40	0	0	19							U	TKN	3300
FREDONIA, MIS		760	1950	10			2	0	0	30			S	3			U		
DEVONIAN		1950	1949	430			37	0	0	35			L	3			U		
		1950		20			2	0	0	37			L	20			U		
ELDORADO C +, SALINE, 8S, 8-7E																			
DEVONIAN, MIS		1941		5560	82,4	11910,4	297	0	1	94							A	MIS	3808
PALESTINE, MIS		1700	1976	20			2	0	0				S	16					
WALTERSBURG, MIS		1920	1950	430			28	0	0	36			S	20			AL		
TAK SPRINGS, MIS		2125	1954	1930			144	0	1	38			S	25			AL		
MAHOINSBURG, MIS		2200	1955	270			19	0	0	37			S	15			AL		
CYPRESS, MIS		2350	1953	300			30	0	0	38			S	8			AL		
SAMPLE, MIS		2575	1954	270			19	0	1	37			S	8			AL		
BENOIST, MIS		2830	1954	70			6	0	0	37			S	18			AL		
AUX VASES, MIS		2778	1962	#			1	0	0				S	10					
UMARA, MIS		2900	1954	910			68	0	0	37			S	12			AL		
SPAR MTN, MIS		2900		90			3	0	0				L	5			AC		
MCCLOSKEY, MIS		2400		#			2	0	0				L	5			AC		
		2975	1941	#			2	0	0	39	0,14		L	5			AC		
ELDORADO E +, SALINE, 8S, 7E																			
PALESTINE, MIS		1953		440	2,4	428,1	31	0	0	7							A	MIS	3886
TAK SPRINGS, MIS		1915	1954	30			2	0	0				S	10			AL		
CYPRESS, MIS		2190	1954	40			3	0	0	35			S	10			AL		
AUX VASES, MIS		2515	1954	90			6	0	0	37			S	20			AL		
SPAR MTN, MIS		2885	1953	340			20	0	0	38			S	6			AL		
		2975	1954	10			1	0	0	38			L	4			AC		
ELOOMAUO W +, SALINE, 8S, 6E																			
PALESTINE, MIS		1955		50	0,0	46,0	8	0	0	1								MIS	3138
KENAUPT, MIS		1940	1958	40			3	0	0	30			S	18					
AUX VASES, MIS		2410	1955	20			2	0	0	37			L	6					
		2960	1955	20			2	0	0	38			L	6					
ELK PRAIRIE, JEFFERSON, 4S, 2E																			
MCCLOSKEY, MIS		1933		20	0,0	41,1	2	0	0	0								MIS	3470
SALEM, MIS		2735	1938	20			2	0	0	37			L	7					
		3076	1960	10			1	0	0	37			L	8					
ABU 1940, MEV 1960, ABU 1970																			

ELKTON, WASHINGTON, 2S, 4W
(CONTINUED ON NEXT PAGE)

TABLE 8--continued

WELL LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART III)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF DISC- VERY	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF DIL		PAY ZONE	DEEPEST TEST					
				1978	END OF 1978	COM- LETED END OF 1978	CD- ETED 1978	AS- AND- 1978	PROD- UCING END OF YEAR	GR. API			SUL- FOX PERC- ENT				
(CONTINUED FROM PREVIOUS PAGE)																	
ELKTON, WASHINGTON, 2S, 4W	BAILEY, DEV	1955	40	0.0	2.6	2	0	0	0	40	L	30	DEV	2485			
			ABO 1960														
ELKTON N, WASHINGTON, 2S, 4W	MANOIN, DEV	1971	160	3.7	71.1	9	0	0	9		S	7	ORD	3275			
ELKVILLE, JACKSON, 7S, 1W	BENOIST, MIS	1941	10	0.0	4.0	1	0	0	1	36	0.22	S	10	SIL	3914		
ELLEBY E, EDWARDS, 2S, 10E																	
	AUX VASES, MIS	1952	370	17.3	995.2	31	1	0	4				M	MIS	3422		
	OHARA, MIS	1953	240			19	1	0		36			S	35	ML		
	SPAR MTN, MIS	1952	200			11	0	0		37			L	6	MC		
	MCCLOSKEY, MIS	1978	#			3	0	0					L	4	MC		
			#			1	1	0					L	6			
ELLEBY N, EDWARDS, WAYNE, 2S, 9-10E																	
	BETHEL, MIS	1942	120	5.5	74.1	10	0	0	4				M	DEV	5425		
	AUX VASES, MIS	1954	20			2	0	0					S	35	ML		
	OHARA, MIS	1954	20			2	0	0					S	12	ML		
	SPAR MTN, MIS	1972	90			2	0	0					L	4			
	MCCLOSKEY, MIS	1942	#			2	0	0		37	0.19		S	8	ML		
	ST LOUIS, MIS	1942	10			1	0	0					L	7	MC		
			ABO 1943, REV AND ABO 1951, REV 1954										L	6			
ELLEBY S, EDWARDS, 2-3S, 10E																	
	AUX VASES, MIS	1943	100	0.0	173.0	10	1	0	1				M	MIS	4159		
	MCCLOSKEY, MIS	1947	30		35.0	5	0	0		36			S	15	ML		
	ULLIN, MIS	1943	60		138.0	4	0	0		38			L	9	MC		
		1978	10			1	1	0					L	10			
			ABO 1952, REV 53, ABO 59, REV 8 ABO 60, REV 78														
ELLIOTTSTOWN, EFFINGHAM, 7N, 7E	SPAR MTN, MIS	1947	10	0.0	13.7	1	0	0	0	39			S	8	ML	MIS	2884
			ABO 1951														
ELLIOTTSTOWN E, EFFINGHAM, 7N, 7E																	
	CYPRESS, MIS	1954	90	2.4	127.2	7	0	0	1				M	MIS	3292		
	SPAR MTN, MIS	1954	10			1	0	0		35			S	5	ML		
	MCCLOSKEY, MIS	1962	80			3	0	0					L	10			
		1962	#			3	0	0		37			L	8			
			ABO 1956, REV 1962														
ELLIOTTSTOWN N, EFFINGHAM, 7N, 7E																	
	CYPRESS, MIS	1953	310	1.1	269.7	19	0	1	5				M	MIS	3350		
	AUX VASES, MIS	1953	20			2	0	0		36			S	4	ML		
	SPAR MTN, MIS	1966	10			1	0	0		37			S	2			
	MCCLOSKEY, MIS	1964	270			2	0	0					L	3			
		1964	#			14	0	1		37			DL	17			
			ABO 1958, REV 1964														
ENFIELD, WILLIAMSON, 9S, 2E	AUX VASES, MIS	1968	110	5.9	179.1	9	0	0	9				S	16	MIS	2694	
ENFIELD, WHITE, 5S, 8E																	
	AUX VASES, MIS	1950	510	47.2	1186.5	32	0	0	13				A	MIS	4620		
	OHARA, MIS	1950	320			21	0	0		39			S	10	AL		
	MCCLOSKEY, MIS	1950	170			4	0	0					L	4	AC		
	ULLIN, MIS	1977	#			5	0	0		37			L	8	AC		
			20			2	0	0					L	19			
			ABO 1951, REV 1952														
ENFIELD N, WHITE, 5S, 8E																	
	AUX VASES, MIS	1976	240	76.9	212.8	19	4	0	11				M	MIS	4500		
	OHARA, MIS	1976	210			15	4	0					S	12			
	ULLIN, MIS	1977	20			3	0	0					L	6			
			10			1	0	0									
ENFIELD S, WHITE, 6S, 8E																	
	AUX VASES, MIS	1961	30	0.0	0.0	2	0	0	0				M	MIS	3314		
	MCCLOSKEY, MIS	1961	10			1	0	0		39			S	2			
		1961	30			2	0	0		36			L	6			
			ABO 1963														

TABLE 8 continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (- SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST	
				OUR- ING 1978	TO END OF 1978	COMP- LETED TO END OF 1978	CO- MPL- ETED IN 1978	AB- AND- ONE 1978	PRU- UCING END OF YEAR	GR, API	SUL- FUR PERC- ENT	KIND UP ROCK	THI- CKN- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)
EVERS, EFFINGHAM, 8N, 7E																
SPAR MTN, MIS		1948	80	1,1	127,5	6	0	0	2					A	OKO	5370
MCCLOSKEY, MIS		2610	70			3	0	U	39		L		7	AL		
SALEM, MIS		2660 1948	#			2	0	0			L		4	AC		
		3126 1975	10			1	0	0			L		4			
ABU 1949, REV 1953																
EVERS S, EFFINGHAM, 7N, 7E																
SPAR MTN, MIS		2650 1948	10	0,0	2,4	1	0	0	0	38		L	8	AC	MIS	2783
ABU 1951																
EWING, FRANKLIN, 5S, 3E																
AUX VASES, MIS		1944	200	4,0	530,5	10	0	0	2					A	MIS	3951
MCCLOSKEY, MIS		2635 1947	40			3	0	0	38		S		8	AL		
		2970 1944	160			7	0	0	36		L		7	A		
ABU 1971, REV 1976																
EWING E, FRANKLIN, 5S, 3E																
OHARA, MIS		1956	200	35,1	99,8	15	8	1	13						ORD	9511
ST LOUIS, MIS		3010 1956	10	0,0	0,0	1	0	U			L		10			
SALEM, MIS		3265 1976	10			1	0	U			L		8			
ULLIN, MIS		3546 1978	20			2	2	0			L		14			
		3880 1976	170			12	8	1			L		6			
REV 1976																
EXCHANGE, MARION, 1N, 3E																
OHARA, MIS		1943	40	0,8	70,1	4	1	0	2					M	SIL	4908
MCCLOSKEY, MIS		2695	30			1	0	U	37		L		10	MC		
ST LOUIS, MIS		2730 1943	#			2	0	U	37		L		8	MC		
SALEM, MIS		2951 1978	10			1	1	U			L		5			
		3171 1975	20			2	1	U			L		15			
ABU 1967, REV 1975																
EXCHANGE E, MARION, 1N, 4E																
OHARA, MIS		1955	230	2,6	540,4	16	0	1	1						MIS	3530
SPAR MTN, MIS		2775 1955	220			1	0	0			L		14			
MCCLOSKEY, MIS		2780	#			7	0	1	37		S		11			
ST LOUIS, MIS		2840 1955	#			6	0	0			L		4			
		2940 1955	10			1	0	0	38		L		8			
EXCHANGE N C, MARION, 1N, 3=4E																
SPAR MTN, MIS		1951	230	12,8	807,1	24	0	0	15					MC	MIS	3390
MCCLOSKEY, MIS		2682 1967	200			1	0	0			L		3			
ST LOUIS, MIS		2763 1951	#			21	0	0	37		L		6	MC		
SALEM, MIS		2946 1972	20			1	0	0			L		6			
		3080 1967	30			2	0	0	37		L		11	MC		
ABU 1952, REV 1955, ABU 1959, REV 1965																
EXCHANGE W, MARION, 1N, 3E																
OHARA, MIS		1957	310	12,9	262,4	25	0	0	7						MIS	3008
SPAR MTN, MIS		2540 1966	230			1	0	0			L		7			
MCCLOSKEY, MIS		2570 1966	#			10	0	0			S		6			
ST LOUIS, MIS		2650 1957	#			11	0	U	37		L		6			
		2720 1967	130			8	0	0	38		L		11			
FAIRMAN, MARION, CLINTON, 3N, 1E, 1W																
BENOIST, MIS		1939	610	11,0	2110,5	61	1	0	18					A	ORD	4100
TRENTON, ORD		1435 1939	480			44	0	U	38	0,27	S		10	A		
		3950 1957	280			18	1	0	40		L		20	A		
FANCHER, SHELBY, 10N, 4E																
BENOIST, MIS		1749 1962	10	0,0	0,0	1	0	0	0	34		S		3	MIS	1889
ABU 1962																
FERRER LAKE, GALLATIN, 9S, 10E																
AUX VASES, MIS		2672 1963	10	0,0	4,7	1	0	0	0	36		L		8	MIS	2862
ABU 1966																
FERRIN, CLINTON, 2N, 1W																
DEVONIAN		1976	10	0,0	0,0	1	0	0	1						ORD	3956
TRENTON, ORD		2840 1976	10			1	0	0			L		7			
		3930 1976	10			1	0	0			L		18			
FICKLIN, DOUGLAS, 16N, 8E																
SPAR MTN, MIS		1470 1969	70	2,4	30,1	5	0	U,	5		S		4	CAM	5301	

TABLE 8-continued

WELL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF (FT) OVERY	AREA PRO- VEO ACR&B	PRODUCTION M BBL3		NUMBER OF WELLS				CHARACTER OF OIL				DEEPEST TEST ZONE TH (FT)	
				OUR- ING 1978	TO ENO OF 1978	COMP- LETED ENO OF 1978	CO- MPL- IN 1978	AB- ANU- 1978	PROD- UCING YEAR	SUL- FUH PERC	PAY ZONE KINU OF ROCK	THI- STR- UCT- URE			
FITZGERRELL, JEFFERSON, 4S, 1E															
BENDIST, MIS		1944	10	0,0	16,0	1	0	0	0					MIS	3012
AUX VASES, MIS		2760 1944	10			1	0	0							
		2800	10			1	0	0	37			8	5		
			ABU 1952												
*FLORA S, CLAY, 2N, 6E															
MCCLOSKEY, MIS		2985 1946	60	0,0	168,0	4	0	0	0	39		L		AC	DEV 4770
			ABO 1961												
FLORA SE, CLAY, 2N, 6E															
MCCLOSKEY, MIS		3073 1972	100	7,6	41,9	8	0	1	7			L	5	MIS	3700
FORSYTH, MACON, 17N, 2E															
SILURIAN		2116 1963	180	15,9	51,7	13	2	0	8	38		L	14	SIL	2220
FRANCIS HILLS, SALINE, 7S, 7E															
CYPRESS, MIS		2675 1952	10	0,0	97,2	1	0	0	1	36		S	5	MIS	3238
FRANCIS HILLS S, SALINE, 7S 7E															
UHARA, MIS		1955	20	0,0	5,6	2	0	0	0					MIS	3180
SPAR MTN, MIS		3010 1955	20		5,6	2	0	0				L	11		
		3042 1962	#			1	0	0	37			L	6		
			ABO 1957, REV ANO ABO 1962												
FREEBURG +, S7, CLAIR, 1-2S, 7W (NOW FREEBURG GAS STORAGE PROJECT)															
CYPRESS, MIS		380 1955	20	0,0		X	2	0	0	0	30		S	30	ORO 2008
FREEMANSPUR, WILLIAMSON, 8S, 2E															
AUX VASES, MIS		2500 1968	60	0,5	4,0	3	0	0	1			S	13	MIS	2779
			ABU 1971, REV 1975												
FRIENDSVILLE CEN, WABASH, 1N, 13W															
BETHEL, MIS		1946	170	4,1	142,6	12	0	2	3					MIS	2788
OHARA, MIS		2330 1946	50			5	0	0	35			S	15	HC	
SPAR MTN, MIS		2597 1972	120			4	0	2				L	8		
		2629 1972	#			3	0	0				S	4		
			ABO 1956, REV 1972												
*FRIENDSVILLE N, WABASH, 1N, 12-13W															
BIENL, PEN		1946	220	1,8	275,7	20	0	0	2					HC	MIS 2676
BETHEL, MIS		1620 1946	220			19	0	0	34			S	12	HC	
		2308 1959	10			1	0	0	35			S	11	H	
FROGTOWN, CLINTON, 2N, 3-4W															
CARLYLE(CYP), MIS		950 1918	90	0,0		X	14	0	0	0	32		S	HL	TRN 3290
			ABO 1933, REV 1949, ABO 1956												
*FROGTOWN N, CLINTON, 2-3N, 3-4W															
ST. LOUIS, MIS		1951	440	6,7	2116,6	37	0	0	23					U	SIL 2456
DEV-SIL		1200 1951	60			5	0	0	35			L	10	D	
		2250 1951	410			32	0	0	35			L	8	R	
*GARDU POINT C, WABASH, 1N, 14W															
OHARA, MIS		1951	680	18,6	1044,9	39	0	0	25					HC	MIS 3900
MCCLOSKEY, MIS		2670 1951	670			37	0	0	40			L	6	HC	
ULLIN, MIS		2905 1976	#			1	0	0				OL	4		
		3698 1975	10			1	0	0				L	8		
GAYS, MOULTRIE, 12N, 6E															
AUX VASES, MIS		1946	90	1,8	104,9	6	0	0	1					H	DEV 3305
CARPER, MIS		1970	80			5	0	0	36			S	5	HL	
DEVONIAN		2963 1963	10			1	0	0	37			S	16		
		3205 1955	10			1	0	0	38			L	3	HC	
			ABO 1950, REV 1955												
*GERHANTOWN E, CLINTON, 1-2N, 4W															
SILURIAN		2350 1956	380	11,6	1973,8	27	0	0	24	40		L	30	R	TRN 3310

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA PRO- DU- IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF DIL		PAY ZONE	DEEPEST TEST		
				TO 1978	END OF 1978	COMP- LETED TO 1978	CO- MPL- ETED 1978	A8- ANO- ONED 1978	PRUD- UCING END OF YEAR	BUL- FUR PERC- ENT	GR, API	KIND OF ROCK			THI- CKN- ESS	BTR- UCT- URE
*GILA, JASPER, 7-8N, 9E	MCCLOSKEY, MIS	2850 1957	490	0,5	1047,9	34	0	2	2	39	OL	3	MC	MIS	2971	
GILLESPIE-WYEN, MACOUPIN, 8N, 6W	UNNAMED, PEN	650 1915	70	0,7	x	23	0	0	2	28	S	x	T	ORO	2560	
GLENARM, SANGAMON, 14N, 5W	SILURIAN	1680 1955	130	0,5	59,3	9	0	0	1	40	L	9		SIL	1821	
			ABU 1957, REV		1960, REV											
*GOLDENGATE C, WAYNE, WHITE, EDWARDS, 2-4S, 9-10E		1939	7420	155,9	17846,3	530	14	4	197					A	DEV	5522
	CYPRESS, MIS	2942 1960	90			4	0	0	36	S	8	A				
	BETHEL, MIS	3110 1951	350			22	0	0	37	S	11	ML				
	AUX VASES, MIS	3180 1944	3710			198	4	1	40	0,14	S	15	AL			
	OMARA, MIS	3250 1943	4540			51	0	0	39	OL	6	AC				
	SPAR MTN, MIS	3275	#			79	2	1	38	LS	7	AC				
	MCCLOSKEY, MIS	3310 1939	#			167	6	2	36	0,19	OL	7	AC			
	ST. LOUIS, MIS	3430 1952	30			4	0	1	40	L	10	ML				
	SALEM, MIS	4130 1975	120			9	4	0	40	L	30					
	ULLIN, MIS	4125 1961	120			8	2	0	39	L	9	A				
	OUTCUM CREEK, DEV	5346 1961	350			16	0	0	39	S	10					
GOLDENGATE E, WAYNE, 3S, 9E		1951	20	1,1	20,8	2	0	0	2					MIS	3420	
	OMARA, MIS	3290 1951	10			1	0	U	37	L	3					
	SPAR MTN, MIS	3340 1976	10			1	0	0		S	4					
			ABU 1957, REV		1968											
*GOLDENGATE N C, WAYNE, 1-2S, 8-9E		1945	760	23,8	645,9	56	3	1	39					M	MIS	4385
	BETHEL, MIS	3095 1952	10			2	0	0	38	S	3	ML				
	AUX VASES, MIS	3235 1948	340			33	2	1	39	S	25	ML				
	OMARA, MIS	3300 1945	520			10	2	0	37	L	4	MC				
	SPAR MTN, MIS	3325 1945	#			18	0	0	37	L	5	MC				
	MCCLOSKEY, MIS	3350	#			21	0	1	39	L	6	MC				
GRANDVIEW +, EDGAR, 12-13N, 13W	PENNSYLVANIAN	560 1945	70	0,6	6,6	7	0	0	5	30	8	10	M	ORO	2694	
GRAYSON, SALINE, 8S, 7E		1957	30	0,0	22,9	3	0	0	0					MIS	3045	
	CYPRESS, MIS	2515 1957	10			1	0	0	37	S	6					
	AUX VASES, MIS	2913 1961	10			1	0	0	38	L	4					
	MCCLOSKEY, MIS	2920 1957	20			1	0	0	37	L	6					
			ABU 1972													
GREENVILLE GAS +, HONO, 5N, 3W	LINGLE, DEV	2240 1957	10	0,0	0,0	1	0	0	0	38	L	5	A	TRN	3184	
			ABU 1958													
HAULEY, MICLAND, 4N, 14W	SPAR MTN, MIS	2970 1976	120	2,5	9,9	8	2	0	7		9	10		MIS	3106	
*HALF MOON, WAYNE, 1S, 9E		1947	1260	11,0	3268,5	68	0	6	22					M	DEV	5369
	AUX VASES, MIS	3190 1951	20			1	0	0	38	S	18	ML				
	OMARA, MIS	3280	1240			39	0	2	40	L	11	MC				
	SPAR MTN, MIS	3280 1947	#			11	0	2		L	4	MC				
	MCCLOSKEY, MIS	3300 1947	#			22	0	3	37	L	10	MC				
	SALEM, MIS	3985 1977	10			1	0	0		L	6					
*MARCO +, SALINE, 8S, 5E		1954	1140	26,5	1855,7	94	0	1	38					MIS	3424	
	MARQUINSBURG, MIS	2330 1956	30			1	0	0	36	S	6					
	CYPRESS, MIS	2618 1959	50			4	0	0	38	S	8					
	SAMPLE, MIS	2675 1954	30			4	0	0	39	S	8					
	AUX VASES, MIS	2860 1955	940			75	0	4	41	S	15					
	OMARA, MIS	2965 1956	220			6	0	1		L	10					
	SPAR MTN, MIS	2970 1956	#			8	0	0	39	LS	10					

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF DISC- VERY	AREA PRO- YEO IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL		PAY ZONE	DEEPEST TEST				
				1978	TO 1978	COMP- LETO 1978	CO- MPL- 1978	AB- AND- 1978	PRON- UCING END OF YEAR	SUL- FUH PERC- API		KIND OF RUCK	THI- CKN- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)
*MARCO E +, SALINE, 8S, 5E																
CYPRESS, MIS		1955	330	6.4	350.5	30	0	0	8				MIS	3421		
AUX VASES, MIS		2575 1955	120			12	0	0	38	S	20					
UMARA, MIS		2865 1956	220			13	0	0	38	S	8					
		2880 1955	40			4	0	0	39	L	14					
*MARNISBURG +, SALINE, 8S, 6E																
		1952	100	0.0	252.3	10	0	0	0				MIS	2930		
WALTERSBURG, MIS		2020 1955	90			9	0	0	38	S	14					
TAR SPRINGS, MIS		2115 1952	10			1	0	0	37	S	6					
			ABU 1971													
HARRISBURG S, SALINE, 9S, 6E																
CYPRESS, MIS		2300 1955	10	0.0	0.0	1	0	0	0	37	S		MIS	2352		
			ARO 1956													
HARRISBURG W, SALINE, 9S, 6E																
TAR SPRINGS, MIS		1944 1974	30	0.0	7.3	3	0	0	1		S	1A	MIS	2903		
HARRISTOWN, MACON, 16N, 1E																
SILURIAN		2050 1954	220	3.4	190.0	14	1	1	4	39	L	3	MU	SIL	2117	
HARRISTOWN S, MACON, 16N, 1E																
SILURIAN		2140 1975	70	38.5	52.5	6	2	0	5		L	20	SIL	2203		
HAYES, DOUGLAS, CHAMPAIGN, 16N, 8E																
TRENTON		693 1963	480	0.0	154.7	43	0	0	5	31	L	90	CAM	3430		
HELENA, LAWRENCE, 2N, 13W																
ST. LOUIS, MIS		2978 1969	10	0.0	0.0	1	0	0	0		L	5	MIS	3600		
			ABU 1973													
*MERALU C +, WHITE, GALLATIN, 6-6S, 4-10E																
		1940	6370	161.8	17053.2	558	2	4	210				A	DEV	5285	
PENNSYLVANIAN		1060	340			1	0	0	29	S	10	AL				
PENNSYLVANIAN		1500 1940	#			23	0	0	36	S	15	AL				
PENNSYLVANIAN		1750	#			5	0	0	29	S	18	AL				
UEGONIA, MIS		1920 1947	80			3	0	0	36	S	12	AL				
CLORE, MIS		1965	60			2	0	0	36	S	10	AL				
PALESTINE, MIS		1940	10			2	0	0	34	S	20	AL				
WALTERSBURG, MIS		2240 1947	530			46	1	0	33	S	10	A				
TAR SPRINGS, MIS		2260 1944	740			60	1	1	36	0.24	S	13	A			
CYPRESS, MIS		2660 1947	1900			160	0	0	35	0.22	S	14	A			
BETHEL, MIS		2790	190			20	0	0	37	S	11	AL				
AUX VASES, MIS		2920 1943	5050			229	0	1	38	S	6	AL				
UMARA, MIS		2965	530			8	0	0	37	L	6	AC				
SPAR MTN, MIS		3005	#			7	0	0		L	4	AC				
MCCLOSKEY, MIS		3010 1945	#			25	0	0	35	L	10	AC				
SALEM, MIS		3670 1976	10			1	0	0		L	5					
ULLIN, MIS		3960 1977	10			1	0	0		L	12					
MERRIN, WILLIAMSON, 6S, 2E																
CYPRESS, MIS		2221 1965	10	0.0	2.0	1	0	0	0	38	S	9	MIS	2682		
			ABU 1972													
*MICAOKY HILL, MARION, 1N, 4E																
		1964	80	1.6	24.5	6	2	0	2				MIS	3500		
CYPRESS, MIS		2478 1964	10			1	0	0	36	S	10					
BENDIST, MIS		2645 1964	20			2	0	0	37	S	7					
SPAR MTN, MIS		2833 1964	30			3	2	0	37	S	6					
			ARO 1972, REV 1978													
MIDALGO, JASPER, 8N, 10E																
MCCLOSKEY, MIS		2575 1940	50	0.7	26.0	5	0	0	1	37	0.20	L	4	MC	DEV	4246
			ABU 1952, REV 1965													
MIDALGO E, JASPER, 8N, 10E																
MCCLOSKEY, MIS		2467 1966	10	1.2	14.1	1	0	0	1	37	0	6	MIS	2747		
MIDALGO N, CUMBERLAND, 9N, 9E																
SPAR MTN, MIS		1946	220	0.8	85.2	16	0	0	10				MIS	2807		
(CONTINUED ON NEXT PAGE)		2655 1946	220			11	0	0	37	S	12					

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH (FT)	OF DISC- VERY	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST
				AREA PRU VEU IN ACRES	DDR- ING 1978	TO END OF 1978	COMP- LETED TO END OF 1978	CU- MPL- ETED ANU- 1978	AB- ONEO 1978	PROO- UCING END OF YEAR	SUL- FUR API	PERC- ENT		
(CONTINUED FROM PREVIOUS PAGE)														
HIDALGO N, COMBERLAND, 9N, 9E	MCCLOSKEY, MIS	2676	1959	#			8	0	0	37	OL	9		
HIDALGO S, JASPER, 8N, 10E	MCCLOSKEY, MIS	2628	1964	80	0,0	2,6	5	1	0	1	37	0	4	MIS 3040
				ABU 1973, REV 1978										
HIGHLAND, MAUBON, 4N, 5W	HARDIN, DEV	1941	1960	10	0,0	0,0	1	0	0	0	37	8	7	DEV 1983
				ABU 1962										
HILL, EFFINGHAM, 6N, 6E	AUX VASES, MIS	2530	1943	70	2,7	47,8	6	1	0	2				MIS 2963
				ABU 1950, REV 1970, ARD 1972, REV 1977										
		1978		10			1	1	0			S	8	
		1977		70			1	0	0			S	4	
		1943		#			4	0	0	39		L	5	N
*HILL E, EFFINGHAM, 6N, 6E	CYPRESS, MIS	2460	1954	490	2,7	1298,9	38	0	0	3				MIS 3251
				ABU 1967										
		1955		290			26	0	0	37		S	8	
		1957		10			1	0	0	37		S	10	
		1954		250			2	0	0			L	5	
		1954		#			9	0	0	40		L	7	
		1966		10			1	0	0			U	14	
HILLSBORO, MONTGUMERY, 9N, 3W	LINGLE, DEV	2012	1962	30	0,0	0,2	3	0	0	0	36	8	4	DEV 2153
				ABU 1967										
HOFFMAN, CLINTON, 1N, 2W	CYPRESS, MIS	1190	1939	360	9,7	834,6	54	1	0	31			A	DEV 2914
		1939		190			16	0	0	36		S	11	A
		1939		240			39	1	0	33	0,21	S	7	A
HOLLIDAY, FAYETTE, 9N, 3E	DEVONIAN	3150	1977	10	0,0	0,0	1	0	1	0		S	6	DEV 3237
				ABU 1978										
MOOREVILLE E, HAMILTON, 5S, 7E	MCCLOSKEY, MIS	3365	1944	10	0,0	0,6	1	0	0	0	37	L	3	N MIS 3411
				ABU 1944										
*MORU, CLAY, 5N, 6E	AUX VASES, MIS	2702	1950	270	1,6	589,9	19	0	0	2			M	MIS 2954
		1959		70			6	0	0	38		S	10	M
		1950		270			13	0	0	37		L	5	M
MORO N, EFFINGHAM, 6N, 6E	CYPRESS, MIS	2430	1958	60	3,8	182,8	6	0	0	4				MIS 2860
		1958		40			3	0	0	33		S		
		1959		30			3	0	0	38		S	10	
*MORU S C, CLAY, 5N, 6E	AUX VASES, MIS	2735	1942	380	1,0	1799,7	28	0	0	9			N	MIS 3104
		1955		20			2	0	0	37		S	8	N
		1942		380			26	0	0	36		L	7	NC
				ABU 1945, REV 1951										
HORNBY S, MACOUPIN, 8N, 6W	PENNSYLVANIAN	640	1956	50	0,0	0,0	4	0	0	0	28	S	1	PEN 715
				ABU 1957, REV 1959, ABU 1960										
HOYLETON W, WASHINGTON, 18, 2W	CLEAR CREEK, DEV	2895	1955	10	0,0	3,7	1	0	0	0	39	L	12	SIL 2965
				ABU 1964										
HUEY, CLINTON, 2N, 2W	BENOIST, MIS	1260	1945	80	0,0	5,4	7	0	0	0	34	S	6	AL DEV 2770
				ABU 1974										

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART 11)	PAY ZONE		YEAR OF DISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST TH (FT)		
	NAME	AGE			TH	DISC- VERY	QUAN- TITY 1978	TO END OF 1976	CUMP- LETO 1978	CO- MPL- ETED 1976	AR- AND ONEO 1978	PROD- UCING END OF YEAR	GR, API	SUL- PHUR PERC- ENT	KIND OF RUCK		THI- KN- ESS	STR- UCT- URE
MUEY S, LLINTON, 1-2N, 2-3W																		
			1953	310	3.7	275.3	23	0	U	15						SIL	2675	
	CYPRESS, MIS		1080 1953	190			17	0	U	34		S	5					
	SILURIAN		2585 1956	110			6	0	U	40		L	10					
HUNT CITY, JASPER, TN, 10E																		
	SPAR MTN, MIS		2540 1945	10	0.0	0.8	1	0	U	0	37	S	10	ML	MIS	3020		
				ABO 1950														
HUNT CITY E, JASPER, TN, 14W																		
	FREONIA, MIS		2000 1952	90	0.0	20.9	8	0	U	1						SIL	3660	
	ST. LOUIS, MIS		2187 1966	90			8	0	U	40		L	6					
				10			1	0	U	39		O	20					
				ABO 1954, REV 1965														
HUNT CITY S, JASPER, TN, 14W																		
	MCCLOSKEY, MIS		2341 1966	30	0.4	14.7	3	0	U	2	38	L	4		MIS	2766		
HUTTON, COLES, 11N, 10E																		
	PENNSYLVANIAN		530 1939	20	0.0	15.0	2	0	U	0	30	S	15		MIS	969		
				ABO 1946														
ILLIQUOLIS, SANGAMON, 16N, 2W																		
	SILURIAN		1765 1977	30	1.7	3.4	1	0	U	1		L	3		SIL	1603		
INA, JEFFERSON, 4S, 2-3E																		
	KENAUQT, MIS		2725 1954	450	0.0	747.7	28	0	U	0						MIS	3521	
	AUX VASES, MIS		2682 1958	150			7	0	U	36		S	14	AL				
	SPAR MTN, MIS		2775 1957	30			3	0	U	36		S	26	A				
	MCCLOSKEY, MIS		2775	110			3	0	U			S	10	A				
	ST. LOUIS, MIS		3000 1938	#			4	0	U	35		L	10	A				
	SALEM, MIS		3210 1957	90			8	0	U	37	0.20	L	4	AC				
				40			4	0	U	37		L	9	A				
				ABO 1946, REV 1954, ABO 1977														
INA N, JEFFERSON, 4S, 3E																		
	MCCLOSKEY, MIS		2940 1949	10	0.0	0.7	1	0	U	0	35	L	4		MIS	3689		
				ABO 1950														
INCLUSE +, FUGAR, CLARK, 12N, 13-14W																		
	ISABEL, PEN		345 1941	110	0.2	X	15	0	U	4	30	S		AL	MIS	1600		
INGHAM, CLAY, 4N, 8E																		
	TAM SPRINGS, MIS		2332 1969	680	5.4	1000.9	47	0	U	5					MIS	3702		
	AUX VASES, MIS		2415	10			1	0	U			S		A				
	SPAR MTN, MIS		3000	80			6	0	U	38		S	15	ML				
	MCCLOSKEY, MIS		3075 1942	620			34	0	U	37	0.21	L	7	MC				
				#			8	0	U	37	0.21	L	8	MC				
				ABO 1942, REV 1943, ABO 1944, REV 1950, ABO 1968, REV 1969														
INMAN E C, GALLATIN, 7-8S, 10E																		
	PENNSYLVANIAN		1940	4620	123.1	22146.6	436	3	U	142						DEV	5100	
	PENNSYLVANIAN		780	80			4	0	U	38		S	10	AF				
	PENNSYLVANIAN		1450	#			2	0	U			S	4	AF				
	UEGONIA, MIS		1690	90			4	0	U	37		S	10	AF				
	CLURE, MIS		1725 1942	50			6	0	U	36		S	8	AF				
	PALESTINE, MIS		1840 1942	90			4	0	U	35		S	13	AF				
	WALTERSBURG, MIS		1980 1942	1220			83	0	U	37		S	12	AF				
	TAM SPRINGS, MIS		2080 1940	1840			157	0	U	37	0.24	S	13	AF				
	HARDINSBURG, MIS		2135 1943	280			17	0	U	34		S	10	AF				
	CYPRESS, MIS		2390	2410			164	0	U	37	0.23	S	14	AF				
	KENAUQT, MIS		2675 1967	10			1	0	U	36		S	5	AF				
	AUX VASES, MIS		2715	630			41	3	U	37		S	8	AF				
	UMARA, MIS		2795 1947	150			2	0	U			L	5	AF				
	SPAR MTN, MIS		2790	#			1	0	U			L	7	AF				
	MCCLOSKEY, MIS		2800	#			7	0	U	39		L	8	AF				
	ST. LOUIS, MIS		2960 1957	40			6	0	U	38		L	10	AF				
INMAN W C, GALLATIN, 7-8S, 9-10E																		
	PENNSYLVANIAN		1940	3890	98.6	9091.3	350	1	3	179						MIS	3357	
	PENNSYLVANIAN		925	190			5	0	U			S	8	NL				
	PENNSYLVANIAN		1630	#			4	0	U			S	5	NL				
	BIEM, PEN		1750	#			7	0	U	35		S	12	NL				
	PALESTINE, MIS		1765 1947	40			4	0	U	35		S	13	NL				
	WALTERSBURG, MIS		2080	130			8	0	U	37		S	10	NL				
	TAM SPRINGS, MIS		2140 1943	1340			93	0	1	36		S	8	NL				

(CONTINUE ON NEXT PAGE)

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE	DEEPEST TEST	
				1978	TO END OF 1978	COM- LETEO 1978	CO- MPL- 1978	AB- AND- 1978	PROO- UCING YEAR	SUL- FUR PERC- ENT	GR, API			
(CONTINUED FROM PREVIOUS PAGE)														
*INMAN W C, GALLATIN, 7-03, 9-10E														
HARDINSBURG, MIS		2300 1947	300			22	0	0		32		8	10	TL
CYPRESS, MIS		2475 1942	2210			170	0	2		37		3	10	T
SAMPLE, MIS		2610	50			1	0	0		36		3	30	T
HENAULT, MIS		2775 1949	30			3	0	0		37		L	7	T
AUX VASES, MIS		2790 1949	910			73	0	0		37		3	15	TL
OHARA, MIS		2815	260			6	0	0		37		L	12	TC
SPAR MTN, MIS		2815 1940	#			4	0	0		38		L	8	TC
MCCLOSKEY, MIS		2940 1941	#			16	1	0		36	0.19	L	6	TC
ST LOUIS, MIS		3180 1967	10			1	0	0		39		L	6	
*IOLA GEN, CLAY, 5N, 5E														
		1954	180	4.1	66.6	17	0	4		8				MIS 2800
CYPRESS, MIS		2477 1972	110			10	0	1				3	15	
BENOIST, MIS		2420 1954	60			6	0	3		36		3	5	
*IOLA C, CLAY, EFFINGHAM, 5-0N, 5-0E														
		1939	3450	178.9	16122.8	307	0	6		210			A	DEV 4227
TAR SPRINGS, MIS		1890	20			1	0	0		35		3	9	AL
CYPRESS, MIS		2125 1943	780			52	0	1		35		3	15	A
BETHEL, MIS		2255 1942	60			5	0	1		36		3	10	AL
BENOIST, MIS		2290	1260			87	0	1		36	0.14	3	12	A
HENAULT, MIS		2320	10			1	0	0		37		L	12	AC
AUX VASES, MIS		2325 1939	2420			195	0	6		36	0.25	3	10	A
OHARA, MIS		2410 1963	1470			1	0	0		37		L	6	A
SPAR MTN, MIS		2430	#			68	1	4		37		L8	7	A
MCCLOSKEY, MIS		2425 1940	#			55	2	1		38		DL	10	A
*IOLA S, CLAY, 4N, 5E														
		1947	350	8.4	531.1	27	0	1		10			A	SIL 5075
BENOIST, MIS		2490 1948	170			11	0	0		36		3	10	AL
SPAR MTN, MIS		2590	240			8	0	0		37		L	6	AC
MCCLOSKEY, MIS		2630 1947	#			8	0	1		37		L	3	AC
CARPER, MIS		3900 1967	10			1	0	0		38		8	7	
*IOLA W, CLAY, 5N, 5E														
		1945	10	0.0	0.5	1	0	0		0	37	L	11	MC MIS 2613
*IRVINGTON, WASHINGTON, 1S, 1W														
		1940	1410	94.7	9429.2	139	0	0		90			A	ORO 4440
BEECH CREEK, MIS		1525 1951	10			1	0	0		38		L	3	AC
CYPRESS, MIS		1380 1943	410			35	0	0		36		3	12	A
BENOIST, MIS		1535 1940	1040			85	0	0		37	0.16	3	12	A
CLEAH CREEK, DEV		3090	280			17	0	0		39	0.27	L	12	A
TRENTON, ORO		4275 1956	110			6	0	0		39		L	90	A
*IRVINGTON E, JEFFERSON, 1S, 1E														
		1951	340	21.9	1096.8	27	0	0		25			A	MIS 2222
PENNSYLVANIAN		1030 1951	40			5	0	0		32		3	15	
CYPRESS, MIS		1750 1955	120			7	0	0		37		3	15	
BENOIST, MIS		1950 1955	200			18	0	0		37		3		
*IRVINGTON N, WASHINGTON, 1N, 1S, 1W														
		1953	310	15.6	1404.9	28	0	0		26			A	ORO 4334
CYPRESS, MIS		1340	60			5	0	0		37		3	16	AL
BENOIST, MIS		1470 1953	250			22	0	0		39		8	6	AL
*IRVINGTON W, WASHINGTON, 1S, 1W														
		1963	50	0.2	10.9	3	0	0		2	36	3	20	MIS 1909
CYPRESS, MIS		1460 1963	50			3	0	0		2	36	3	20	MIS 1909
*IUKA, MARION, 2N, 4E														
		1947	710	9.7	1087.0	46	0	0		18			M	DEV 4375
AUX VASES, MIS		2528 1960	40			3	0	0		37		3	11	M
OHARA, MIS		2650	580			7	0	0		37		L	5	MC
SPAR MTN, MIS		2660	#			6	0	0		37		L	15	MC
MCCLOSKEY, MIS		2750 1947	#			27	0	0		39		L	10	MC
ST. LOUIS, MIS		2775 1952	200			8	0	0		37		L	5	MC
*IUKA S, MARION, 2N, 4E														
		1971	220	22.1	370.6	12	0	0		9		L	5	MIS 2885
MCCLOSKEY, MIS		2680 1971	220			12	0	0		9		L	5	MIS 2885

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	DEP- TH (FT)	YEAR OF DISC- VERY	AREA PRO- DU- CING ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE			DEEPEST TEST TH (FT)
					DUR- ING 1978	TO END OF 1978	COMP- LETTED 1978	CO- METED 1978	AB- AND 1978	PRDUC- ING YEAR	SUL- FUR PERC- ENT	KIND OF ROCK	THI- CK- NES	STR- UCT- URE		
					GR, API	PERC- ENT	OF OIL	OF OIL	OF OIL	OF OIL	OF OIL	OF OIL	OF OIL			
IUKA W, MARTIN, 2N, 3-4E																
MCCLUSKY, MIS		2700	1955	60	2.5	64.2	5	0	1	2	37	L	5	MIS	3309	
JACKSONVILLE GAS +, MORGAN, 15N, 9W																
GAS, PEN, MIS		330	1910	90	0.0	2.0	11	0	0	1	37	LS	5	ML	OKO	1390
MCCLUSKY, MIS		272	1972	10			1	0	0			L	29			
SALEM, MIS		294	1972	20			2	0	0			L	19			
*JOHNSON N, CLARK, 9-10N, 14W																
KICKAPOO, PEN		315	1907	2460	X	X	641	1	2	276		S	X	AM	OKO	4519
CLAYPOOL, PEN		415		2360			34	0	0			S	X	AM		
CASEY, PEN		465		#			305	0	0			S	X	AM		
UPPER PARTLOW, PEN		535		#			197	1	0	32		S	X	AM		
MCCLUSKY, MIS		556		60			51	0	0			S	X	AM		
CARPER, MIS		1325		290			X	0	0	35		OL	6	AM		
DEVONIAN		1720	1973	10			11	0	1	37		S	X	AM		
TRENTON, ORD		2900	1977	180			1	0	1			L	45			
SEE CLARK COUNTY DIVISION FOR PRODUCTION																
*JOHNSON S, CLARK, 9N, 14W																
CLAYPOOL, PEN		390	1907	2070	X	X	662	0	0	164		S	X	AM	DEV	2030
CASEY, PEN		450		2050			39	0	0			S	X	AM		
UPPER PARTLOW, PEN		490		#			60	0	0	30		S	X	AM		
LOWER PARTLOW, PEN		600		#			433	0	0	31		S	X	AM		
AUX VASES, MIS		717	1961	40			162	0	0	29		S	X	AM		
CARPER, MIS		1740	1971	20			1	0	0	35		S	21	A		
DEVONIAN		1920	1975	20			1	0	0			L	Y			
SEE CLARK COUNTY DIVISION FOR PRODUCTION																
*JOHNSONVILLE L, WAYNE, 1N, 1S, 6-7E																
BETHEL, MIS		2950	1940	9120	347.6	53230.9	480	5	6	182		S	12	AL	TAN	6460
AUX VASES, MIS		3020		30			3	0	0			S	20	AL		
UHARA, MIS		3120	1943	2960			164	3	1	38	0.14	OL	10	AC		
SPAR MTN, MIS		3150		8220			30	0	1	38		OL	8	AC		
MCCLUSKY, MIS		3170	1940	#			9	0	0	36		OL	8	AC		
ST. LOUIS, MIS		3256	1961	110			444	1	3	38	0.17	OL	15	AC		
SALEM, MIS		3652	1960	100			10	0	0	38		L	14	A		
*JOHNSONVILLE N, WAYNE, 1N, 6E																
UHARA, MIS		3190	1943	150	0.0	91.8	8	0	0	0		OL	3	A	MIS	3335
SPAR MTN, MIS		3220		150			1	0	0			L	8	AC		
MCCLUSKY, MIS		3250	1943	#			7	0	0	38	0.17	OL	5	AC		
*JOHNSONVILLE S, WAYNE, 1S, 6E																
AUX VASES, MIS		3060	1942	1120	186.5	1444.6	68	5	2	52		S	15	A	MIS	4160
UHARA, MIS		3160	1977	370			29	1	0	38		L	5			
SPAR MTN, MIS		3160		440			3	0	0			L	5			
MCCLUSKY, MIS		3200	1942	#			5	0	1			L	4	AC		
ST LOUIS, MIS		3290	1977	20			19	0	1	38		L	4	AC		
SALEM, MIS		3772	1975	570			2	0	0			L	6			
*JOHNSONVILLE W, WAYNE, 1N, 1S, 5-6E																
BETHEL, MIS		2925	1942	880	19.0	2296.6	71	2	0	23		S	7	ML	MIS	3900
AUX VASES, MIS		2900	1943	40			1	0	0			S	6	ML		
UHARA, MIS		2930		440			37	0	0	37		L	6	MC		
SPAR MTN, MIS		3015		390			5	0	0			L	4	MC		
MCCLUSKY, MIS		3100	1942	#			10	0	0			L	7	MC		
ULLIN, MIS		3623	1978	10			19	1	0	40		L	19			
*JOHNSTON CITY E, WILLIAMSON, 6S, 3E																
CYPRESS, MIS		2290	1959	290	69.2	1066.4	20	0	0	13		S	20		MIS	2997
BETHEL, MIS		2500	1975	130			9	0	0			S	5			
AUX VASES, MIS		2620	1962	10			1	0	0			S	10			
UHARA, MIS		2660	1975	260			12	0	0	36		L	5			
SPAR MTN, MIS		2660	1963	20			1	0	0			L	7			
MCCLUSKY, MIS		2680	1963	#			2	0	0			L	7			
				#			1	0	0	38		OL	12			

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (+ SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR O&P- TH OF DISC- OVERY	AREA PRD- IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		DEEPEST TEST DEPTH (FT)	
				YFD	DUN- ING 1978	COM- PLET- ED 1978	CO- MPL- IN 1978	AB- AND 1978	PROD- UCING END OF YEAR	SUL- FUR PERC- ENT	KIND OF RUCK	THI- LKN- UCT-	STR- UCT-			
														END OF 1978		END OF 1978
JOHNSTON CITY N E, WILLIAMSDON, 88, 3E																
AUX VASES, MIS		2818 1969	50	5.2	223.2	4	0	0	4		S	16	MIS	3014		
JUNCTION, GALLATIN, 95, 9E																
PENNSYLVANIAN		1150 1947	380	1.5	694.8	32	0	0	8		S	7	MIS	3600		
WALTERSBURG, MIS		1750 1939	300			4	0	0	35		S	14	ML			
HARDINSBURG, MIS		2120 1949	30			26	0	0	37		S	5	ML			
CYPRESS, MIS		2275 1954	20			1	0	0	34		S	12	ML			
MCCLUSKY, MIS		2730 1955	10			2	0	0	37		S	9	ML			
						1	0	0	37		L		MC			
JUNCTION E, GALLATIN, 8-9S, 9E																
WALTERSBURG, MIS		2000 1953	150	4.8	127.2	9	0	2	6		S	14	MIS	2970		
TAR SPRINGS, MIS		2119 1973	140			8	0	2	37		S	45				
			10			1	0	0			S					
JUNCTION N, GALLATIN, 8-9S, 9E																
PENNSYLVANIAN		1565 1947	270	1.7	252.4	24	0	0	10		S	16	MIS	2983		
WALTERSBURG, MIS		1990 1973	100			10	0	0	36		S	20	ML			
CYPRESS, MIS		2450 1954	80			5	0	0	37		S	10	ML			
AUX VASES, MIS		2725 1946	30			3	0	0	37		S	4	ML			
SPAR MTN, MIS		2860 1955	40			3	0	0	37		L	4	MC			
			40			3	0	0			S					
JUNCTION CITY C, MARION, 2N, 1E																
JYKSTRA (CUBA), PEN		510 1910	170	0.7	32.6	17	0	1	11		S	X	NL	DEV	3346	
WILSON, PEN		680 1952	170			11	0	1	32		S	A	NL			
			#			6	0	0			S	A	NL			
KEENSBURG E, WABASH, 2S, 13W																
OHARA, MIS		2705 1945	40	0.0	9.0	3	0	0	0		L	10	MIS	2802		
MCCLUSKY, MIS		2710 1939	40			1	0	0			L	6	MC			
			#			2	0	0	38	0.26	L		MC			
KEENSBURG S, WABASH, 2-3S, 13W																
PENNSYLVANIAN		1145 1944	330	21.6	1067.1	31	0	0	17		S	15	MIS	3475		
CYPRESS, MIS		2385 1951	150			16	0	0	33		S	9	AL			
OHARA, MIS		2715 1944	130			11	0	0	36		S	10	AL			
SALEM, MIS		3200 1973	30			2	0	0	38		L	8	AC			
			20			2	0	0			L					
KEENVILLE, WAYNE, 1S, 5E																
AUX VASES, MIS		2960 1945	1290	636.8	3639.5	106	6	0	54		S	20	MIS	4050		
OHARA, MIS		3030 1946	360			27	1	0	37		L	8	AL			
SPAR MTN, MIS		3060	440			5	0	0			L	10	AC			
MCCLUSKY, MIS		3100	#			1	0	0			L	7	AC			
SALEM, MIS		3620 1977	810			29	0	0	37		L	8				
						47	5	0	37		L					
KEENVILLE E, WAYNE, 1S, 5E																
SPAR MTN, MIS		3075 1951	140	5.6	102.8	10	4	0	7		L	4	MIS	3982		
MCCLUSKY, MIS		3120 1951	90			1	0	0			L	10				
ST LOUIS, MIS		3190 1967	#			6	1	1	37		L	10				
SALEM, MIS		3709 1977	10			2	0	0	39		L	10				
			60			6	5	0			L	10				
KELL, JEFFERSON, 1S, 3E																
MCCLUSKY, MIS		2625 1942	50	0.0	14.0	5	0	0	0	37	0.26	L	A	MIS	2921	
KELL N, MARION, 1N, 3E																
ST LOUIS, MIS		2695 1976	30	0.2	0.4	3	0	0	3		L	4	MIS	3118		
SALEM, MIS		2770 1976	20			2	0	0			L	4				
			30			3	0	0			L					
KELL W, MARION, 1N, 2E																
MCCLUSKY, MIS		2354 1962	10	0.0	0.8	1	0	0	0	38	0L	6	MIS	2475		
KELLERVILLE, ADAMS, BRUNN, 1-2S, 5W																

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH (FT)	OF DISC- OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL		PAY ZONE	DEEPEST TEST				
					1978	TO END OF 1978	COMP- LETED TO 1978	CO- MPL- ETED 1978	AB- AND- ONED 1978	PROD- UCING YEAR	SUL- FUR PERC- ENT			KIND OF ROCK	THI- CK- NESS	STR- UCT- URE	DEP- TH (FT)
(CONTINUED FROM PREVIOUS PAGE)																	
KELLERVILLE, ADAMS, BRUNN, 1-2S, 5W																	
SILURIAN																	
		037	1959	630	2.5	222.6	57	0	0	15	37	0	7 AC	STP	1075		
KENNEDY, CLAY, 3N, 5-6E																	
SILURIAN																	
TAK SPRINGS, MIS		2200	1945	10	19.3	2467.1	109	0	0	25				A	SIL	4970	
BENOIST, MIS		2690	1942	710			57	0	0		37	0.22	S	7	AL		
RENAULT, MIS		2761	1958	240			17	0	0		37		S	10	A		
AUX VASES, MIS		2635	1943	850			49	0	0		38		S	9	AL		
SPAR MTN, MIS		2875	1947	160			6	0	0				LS	5	AC		
MCCLOSKEY, MIS		2930	1945	#			6	0	0		37		L	7	AC		
ST. LOUIS, MIS		2978	1964	10			1	0	0		37		L	4			
CARPER, MIS		4221	1959	10			1	0	0		39		S	10	A		
DEVONIAN		4424	1959	40			2	0	0		36		L	55	A		
KENNEDY N, CLAY, 3N, 6E																	
SILURIAN																	
BENOIST, MIS		2755	1947	390	0.0	888.6	31	0	0	1	37		S	8	A	DEV	6032
MCCLOSKEY, MIS		2970	1947	80			5	0	0		37		L	6	AC		
KENNEDY S, CLAY, 2N, 5E																	
SILURIAN																	
BENOIST, MIS		2730	1967	20	0.0	20.6	2	0	1	0	37		S	5	A	MIS	3000
AUX VASES, MIS		2768	1971	10			1	0	1				S	6			
MCCLOSKEY, MIS		2870	1950	30			4	0	1		37		L	10	AC		
ABU 1952, REV 1967, ABU 1978																	
KENNEDY W, CLAY, 3N, 5E																	
SILURIAN																	
CYPRESS, MIS		2600	1947	410	3.4	2110.1	35	0	0	6			S	26	A	DEV	4600
BENOIST, MIS		2705	1947	350			27	0	0		38		S	9	A		
RENAULT, MIS		2602	1960	10			1	0	0		37		S	10	A		
AUX VASES, MIS		2837	1960	110			8	0	0		36		S	24	A		
MCCLOSKEY, MIS		2670	1947	20			2	0	0		38		L	4	A		
KEYESPORT, CLINTON, 3N, 2W																	
SILURIAN																	
BENOIST, MIS		1180	1949	160	0.8	175.8	20	0	2	13	35		S	8	AL	MIS	1356
KINCAID C, CHRISTIAN, 13-14N, 3W																	
SILURIAN																	
GEAR VALLEY, DEV		1800	1955	2620	100.0	5288.6	148	0	9	200			DS	19	MJ	SIL	1971
SILURIAN		1874	1959	10			1	0	0		36		D	7			
KING, JEFFERSON, 3-4S, 3E																	
SILURIAN																	
RENAULT, MIS		2718	1959	10	6.8	3723.2	112	0	0	32			S		A	DEV	6015
AUX VASES, MIS		2725	1942	1360			104	0	0		39	0.17	S	15	AL		
UMARA, MIS		2765	1942	320			11	0	0				L	10	AC		
SPAR MTN, MIS		2815		#			7	0	0				LS	10	AC		
MCCLOSKEY, MIS		2640	1942	#			4	0	0		40	0.16	L	5	AC		
KINMONDY, MARION, 4N, 2-3E																	
SILURIAN																	
BENOIST, MIS		1915	1950	20	1.4	92.1	7	0	0	3			S		A	DEV	3650
SALEM, MIS		2430		10			2	0	0		34		S	3	A		
CARPER, MIS		3584	1962	50			1	0	0		36		L	7	A		
				50			4	0	0		37		S	17			
ABU 1960, REV 1962																	
KINMONDY N, MARION, 4N, 3E																	
SILURIAN																	
BENOIST, MIS		2050	1953	10	0.0	2.9	2	0	0	0	34		S	6		MIS	2501
ABU 1954, REV 1951, ABU 1974																	
LACLEDE, FAYETTE, 5N, 4E																	
SILURIAN																	
BENOIST, MIS		2335	1943	50	0.6	32.7	6	0	0	1	36	0.16	S	15	A	MIS	2806
LAKEWOOD, SHELBY, 10N, 2-3E																	
SILURIAN																	
BENOIST, MIS		1890	1941	120	0.9	276.8	12	0	0	3			S	7	AL	SIL	3127
AUX VASES, MIS		1720	1941	50			7	0	0		30		S	8	AL		
				50			5	0	0		32	0.23	S				

TABLE 8 continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR OF DISCOVERY	AREA PRODUCE IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL		PAY ZONE	DEEPEST TEST ZONE	DEPT. TH (FT)
				1978	TO END OF 1978	COMPLETION TO END OF 1978	CO-PRODUCED IN 1978	ABANDONED IN 1978	PRODUCING YEAR	SULFUR GR. API	PERCENT	KIND OF ROCK			
*LANCASTER, WABASH, LAWRENCE, 1-2N, 13W															
TAR SPRINGS, MIS	2050	1940	1970	34.7	5238.9	148	0	0	0	54	31	S	A	DEV	4555
BETHEL, MIS	2540	1959	10			0	0	0			36	S	3 AL		
OHARA, MIS	2670	1944	1000			0	0	0				L	10 AC		
SPAR MTN, MIS	2649	1964	#			9	0	0				L	6		
MCCLOSKEY, MIS	2690	1940	#			51	0	0			40	0.28	L	7 AC	
LANCASTER CEN, WABASH, 1N, 13W															
OHARA, MIS	2750	1947	240	0.0	376.5	16	0	0	0	0			L	7 MC	MIS 3607
SPAR MTN, MIS	2810	1946	#			10	0	0			37		L	7 MC	
MCCLOSKEY, MIS	2815	1947	#			3	0	0					L	8 MC	
ABU 1961, REV 1972, ABU 1976															
LANCASTER E, WABASH, 2N, 13W															
BRIDGEPORT, PEN	1310	1944	70	0.0	76.3	6	0	0	0	1			S	13	MIS 2750
BUCHANAN, PEN	1410	1976	60			1	0	0					S	5	
BIEMLE, PEN	1745	1944	#			1	0	0					S	10 ML	
SPAR MTN, MIS	2660	1947	10			1	0	0			39		L	6 MC	
ABU 1975, REV 1976															
*LANCASTER S, WABASH, 1N, 13W															
BETHEL, MIS	2520	1946	310	13.5	474.4	22	0	0	0	17			S	6 ML	MIS 3489
OHARA, MIS	2670	1949	270			18	0	0			36		L	6 MC	
MCCLOSKEY, MIS	2720	1946	#			3	0	0			39		L	12 MC	
LANGENSCHMUEKSTER, MARION, 1N, 1E															
UNNAMED, PEN	795	1910	120	1.2	36.2	16	1	0	0	1			S	X N	DEV 3509
CYPRESS, MIS	1600	1910	110			2	0	0			35		S	X N	
*LAWRENCE, LAWRENCE, CRAWFORD, 2-5N, 11-13W															
TRIVOLI, PEN	290	1906	36160	X	X	6995	16	25	2666	28			S	X A	CAM 9261
CUBA, PEN	450		11000			19	0	0					S	X A	
BRIDGEPORT, PEN	800		#			5	0	0					S	40 A	
PENNSYLVANIAN	950		#			1366	2	3		36			S	15 A	
BUCHANAN, PEN	1250		#			23	0	0					S	15 A	
HIOGLEY	1300		#			571	2	2		33			S	X	
TAR SPRINGS, MIS	1410		70			X	0	1					S	10 A	
HAWKINSBURG, MIS	1570		110			8	0	0		34			S	10 A	
JACKSON, MIS	1370		1500			12	0	0		33			S	15 A	
CYP(KIKKWOOD), M	1400		22210			324	0	1		40			S	30 A	
SAMPLE, MIS	1600		9810			4519	3	9		35			S	8 A	
BETH(TRACEY), MIS	1650		#			180	1	0		38			S	20 A	
BENOIST, MIS	1695		#			1014	0	4		37			S	7 A	
AUX VASES, MIS	1775		760			96	0	3		36			S	8 A	
OHARA, MIS	1750		12420			57	0	0		36			S	8 A	
SPAR MTN, MIS	1860		#			15	0	0					L	8 A	
MCCLOSKEY, MIS	1860		#			76	3	1		33			LS	4 A	
ST. LOUIS, MIS	1660		300			1152	3	3		40			L	10 A	
SALEM, MIS	1955		130			13	1	0		35			L	10 A	
DEVONIAN	2934	1975	60			7	0	0		36			L	2 A	
TRENTON, ORO	4492	1978	80			14	0	1		39			L	12	
SEE LAWRENCE COUNTY DIVISION FOR PRODUCTION															
LAWRENCE COUNTY DIVISION, LAWRENCE, CRAWFORD															
		1900	37110	2411.2	379272.1	7084	16	25	2698					CAM	9261
TOTALS FOR LAWRENCE AND ST. FRANCISVILLE POOLS															
*LAWRENCE W, LAWRENCE, 3N, 13W															
PAINT CREEK, MIS	1978	1952	950	23.9	513.1	77	6	4	53				S	13	MIS 3059
BETHEL, MIS	2050	1952	700			9	0	0		35			S	15	
AUX VASES, MIS	2110	1953	70			42	0	2		33			S	8	
OHARA, MIS	2214	1968	250			7	0	1		36			L	16	
SPAR MTN, MIS	2193	1963	#			1	0	1					L	2	
MCCLOSKEY, MIS	2225	1953	#			5	0	1					L	11	
*LEXINGTON, WABASH, 1S, 14W															
CYPRESS, MIS	2585	1947	160	1.3	477.9	15	0	0	3				S	10 AL	DEV 5020
BENOIST, MIS	2733	1972	10			1	0	0		32			S	4	
OHARA, MIS	2912	1968	20			2	0	0					S	3	
MCCLOSKEY, MIS	2970	1947	130			1	0	0					L	8 AC	
			#			12	0	0		38			L		

TABLE 8--continued

WELL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- OVERY	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST	
				OUR- ING 1978	TO END OF 1978	COMP- LETO TO 1978	CO- ETED AND 1978	AB- UNO 1978	PRUD- UCING YEAR	SUL- FUM PERC ENT	KINU UP ROCK	IMI- LKN- ESS	STR- UCT- UNE	ZONE	DEP- TH (FT)	
LEXINGTON N, WABASH, 1S, 14W																
STE, GEN, MIS		2915 1951	20	0,0	6,4	2	0	0	0	38	L	4	MC	MIS	3045	
ARD 1958																
*LILLYVILLE, CUMBERLAND, EFFINGHAM, 6-9N, 6-7E																
SPAR MTN, MIS		1946 2433 1968	190	10,2	627,0	15	0	0	9		S	6		DEV	4000	
MCCLUSKY, MIS		2425 1946	#			13	0	0	36	L	10	A				
LILLYVILLE N, CUMBERLAND, 9N, 7E																
SPAR MTN, MIS		1974 2405 1974	80	36,5	447,5	5	0	0	5		S	7		OKO	6500	
MCCLUSKY, MIS		2440 1974	#			5	0	0		L	20					
SALEM, MIS		2840 1974	60			4	0	0		L	5					
GENEVA, DEV		3825 1974	30			3	0	0		U	10					
LIS, JASPER, 7N, 9E																
SPAR MTN, MIS		3022 1964	10	0,0	0,5	1	0	0	0	37	S	5		MIS	3050	
ARD 1967																
LITCHFIELD, MONTGOMERY, 6-9N, 5W																
UNNAMED, PEN		660 1886	150	0,0	24,0	18	0	0	0	23	0,24	S		U	STP	3000
ARD 1904, REV 1942, ARD																
LITCHFIELD S, MONTGOMERY, 6N, 5W																
PENNSYLVANIAN		610 1967	80	0,0	0,0	7	0	0	5	23	8	3		DEV	1920	
*LIVINGSTON, MADISON, 6N, 6W																
PENNSYLVANIAN		535 1948	490	2,9	717,0	66	0	0	25	35	S	15	ML	OKO	2378	
*LIVINGSTON S +, MADISON, 5-6N, 6W																
PENNSYLVANIAN		530 1950	660	12,4	565,1	76	1	0	55	35	S	7	ML	SIL	1735	
*LUCUST GROVE, WAYNE, 1N, 9E																
AUX VASES, MIS		1951 3215 1951	150	0,4	252,0	13	0	0	1		S	10		MIS	4190	
UMARA, MIS		3240 1951	110			8	0	0	36	L	0					
MCCLUSKY, MIS		3280 1951	#			1	0	0	37	L	4					
LULUST GROVE S, WAYNE, 1S, 9E																
UMARA, MIS		1953 3246 1958	160	2,3	114,7	11	1	0	1		S	6		MIS	3413	
SPAR MTN, MIS		3300 1953	#			2	0	0	39	L	6					
MCCLUSKY, MIS		3286 1958	#			6	1	0	37	L	10					
ARD 1971, REV 72, ARD 74, REV 78																
LUGAN, FRANKLIN, 7S, 3E																
AUX VASES, MIS		1966 2920 1968	30	2,2	84,6	3	0	0	2		S	8		MIS	3176	
SPAR MTN, MIS		3028 1966	10			1	0	0		L	4					
MCCLUSKY, MIS		3082 1966	#			1	0	0	34	L	8					
LONG BRANCH, SALINE, HAMILTON, 7S, 6E																
PALESTINE, MIS		1950 2070 1950	70	1,3	332,0	12	0	0	3		S	8	A	MIS	3389	
CYPRESS, MIS		2745 1951	20			2	0	0		S	13	AL				
AUX VASES, MIS		3095	40			6	0	0	37	S	9	AL				
MCCLUSKY, MIS		3220 1950	20			2	0	0	37	L	5	AC				
LONG BRANCH S, SALINE, 8S, 6E																
CYPRESS, MIS		2660 1955	10	0,0	8,9	1	0	0	0		S	8		MIS	3210	
ARD 1971																
*LOUQUEN +, FAYETTE, EFFINGHAM, 6-9N, 2-4E																
CYPRESS, MIS		1957 1500	25190	1842,7	367290,2	2422	16	9	1258		S	30	A	PC	8616	
BETHEL, MIS		1540	21440			1599	0	6		36	0,25	S	15	A		
BENOIST, MIS		1550 1937	9150			381	3	3		38	0,24	S	10	A		
AUX VASES, MIS		1600	7120			734	3	0		38	0,20	S	6	AL		
MCCLUSKY, MIS		1785 1955	590			13	1	0		37	0,17	S	4	AC		
CARPER, MIS		2630 1952	30			2	0	0		37	L	4	AC			
			30			4	0	0		36	S	9	AL			

(CONTINUED ON NEXT PAGE)

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- OVERY	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL SUL- FUR PERC- ENT	PAY ZONE	DEEPEST TEST ZONE TH (FT)
				1978	TO END OF 1978	COM- PLET- ED TO 1978	CO- MPL- AB- NO- UCING	PROD- UCING END OF YEAR			
*LOUDEM +, PAYETTE, EFFINGHAM, 6=9N, 2=4E (CONTINUED FROM PREVIOUS PAGE)											
GENEVA, DEV TRENTON, OH	3000 3905	1937 1955	3240 20			128 2	12 0	0 0	28 0.48	L 15	A 12 A
*LOUISVILLE, CLAY, 4N, 6E											
AUX VASES, MIS RENAULT, MIS SPAR MTN, MIS MCCLOSKEY, MIS SALEM, MIS ULLIN, MIS	2600 2735 2860 2872 3386 3530	1974 1974 1978 1974 1974 1974	370 40 10 370 # 10 10	28.5 162.6		32 4 1 6 23 1 1	7 0 1 1 6 0 0	0 0 0 0 0 0 0	27 S S S OL L L	6 6 10 6 4 4	DEV 4865
*LOUISVILLE N, CLAY, 4N, 6E											
AUX VASES, MIS SPAR MTN, MIS	2755 2812	1953 1961	110 40 70	0.0 56.3		8 2 6	0 0 0	0 0 0	1 37 37	S L	M 10 ML 9 ML
ARD 1956, REV 1962, ABO 1973, REV 1974											
*LOUISVILLE S, CLAY, 3N, 6E											
AUX VASES, MIS OHARA, MIS	2823 2893	1960 1960	20 10 10	0.4 1.4		2 1 1	0 0 0	0 0 0	1 38 35	S L	6 2
ABO 1967, REV 1976											
*LYNCHBURG, JEFFERSON, 3S, 4E											
MCCLOSKEY, MIS	3045	1951	60	1.8 324.8		3	0	0	1 38	L	8 AC
*MCKINLEY, WASHINGTON, 3S, 4W											
BENOIST, MIS SILURIAN	1050 2240	1940 1940	250 180 190	0.0 767.2		30 17 12	0 0 0	0 0 0	6 41 40	0.16 S L	U 5 U 40 K
*MALEDONIA, FRANKLIN, 5S, 4E											
SALEM, MIS ULLIN, MIS	4124 4097	1961 1978 1961	30 20 10	0.0 6.0 6.0		2 1 1	1 1 0	0 0 0	1 37	L L	10 12
ABO 1965, REV 1978											
*MAIN C +, CHAMFORD, LAWRENCE, JASPER, 5=8N, 10=14W											
CUBA, PEN UNNAMED, PEN ROBINSON, PEN PENNSYLVANIAN BARLOW, MIS CYPRESS, MIS PAINT CREEK, MIS BETHEL, MIS AUX VASES, MIS SPAR MTN, MIS MCCLO(DO)LONG, MIS SALEM, MIS DEVONIAN TRENTON, OH	510 750 950 1250 1201 1480 1280 1400 1430 1515 1400 1815 2795 3900	1906 1943 1945 1943 1968 1954 1943 1943 1943 1941 1941 1947 1941 1976	62080 60050 # # 10 660 5040 # # 3010 690 # 290 460 400	1267.9 229670.5		11797 75 4 10240 46 1 43 X 170 138 2 150 14 15 23	54 0 0 44 46 0 0 2 1 2 0 0 1 1 0 4	44 0 0 46 0 0 0 0 1 2 0 0 1 0 0 0	3288 32 35 35 34 36 36 35 35 35 40	S S S S OL S S S S S L L L	X 5 ML 25 ML A ML 10 15 ML 30 ML 18 ML 15 ML 6 MC X MC 5 MC 11 MC 75
*MAPLE GROVE C, EDWARDS, WAYNE, 1=2N, 9=10E											
AUX VASES, MIS OHARA, MIS SPAR MTN, MIS MCCLOSKEY, MIS ST LOUIS, MIS SALEM, MIS ULLIN, MIS	3145 3230 3250 3260 3500 3660 4057	1943 1943 1945 1943 1977 1967 1976	2340 710 1750 # 10 100 20	17.8 4615.3		136 47 6 4 86 1 7 2	6 2 0 0 3 0 0 0	0 0 0 0 0 0 0 0	40 38 27 41 39	S L L L L L	A 15 A 3 AC 1 AC 6 A 6 4 7
*MAPLE GROVE S C, EDWARDS, IN, 10E											
OHARA, MIS SPAR MTN, MIS MCCLOSKEY, MIS SALEM, MIS ULLIN, MIS	3260 3275 3275 3850 4170	1945 1951 # 1976 1977	240 190 # 40 10	17.7 226.6		17 3 2 9 3 1	0 0 0 0 0 0	2 0 0 2 0 0	9 40 38	L L L L L	6 6 6 85 28

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (± SECONDARY RECOVERY SEE PAMT II)	PAY ZONE	YEAR	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		DEEPEST TEST		
				OUR- ING 1978	TO ENO UF 1978	COMPL- ETEO TO ENO UF 1978	CO- PTEO ANO- ONED 1978	AB- ANO- 1978	PRUO- UCING ENO UF YEAR	SUL- FUR PERC- ENT	KIND OF ROCK	THI- LKN- ESS	STR- UCT- UKE	ZONE	DEP- TH (FT)		
MARQUE, JEFFERSON, 3S, 2E																	
SPAR MTN, MIS		1938	20	0,6	15,5	2	0	0	2							MIS	3520
MCCLOSKEY, MIS		2700 1976	10			1	0	0				S	1R				
		2745 1938	20			2	0	0		25	0,54	L	1R	MC			
*MARINE, MADISON, 4N, 6W																	
UEV-SIL		1700 1943	2470	40,2	11976,0	148	0	2	114	35	0,28	L	20	K	ORO	2619	
MARINE W, MADISON, 5N, 7W																	
UEVONIAN		1653 1965	100	0,1	25,2	6	0	1	0	35		L	3		ORO	2353	
MARION, WILLIAMSON, 9S, 3E																	
AUX VASES, MIS		1950	20	0,0	0,3	2	0	0	1						MIS	2560	
UHARA, MIS		2385 1950	10			1	0	0		40		S	5				
		2470 1975	10			1	0	0				L	8				
MARION E, WILLIAMSON, 9S, 3E																	
BETHEL, MIS		2295 1959	10	0,0	1,1	2	0	0	0	37		S	8		MIS	2642	
MARISSA W +, ST. CLAIR, RANDOLPH, 3-4S, 7W																	
CYPRESS, MIS		215 1960	70	0,0	0,0	3	0	0	0	25		S	3		DND	2413	
*MARKHAM CITY, JEFFERSON, 2-3S, 4E																	
STE, GEN, MIS		3070 1942	340	2,2	1605,3	19	0	0	4	38	0,06	L	10	A	MIS	4050	
*MARKHAM CITY N, JEFFERSON, WAYNE, 2S, 4-5E																	
AUX VASES, MIS		1943	310	6,9	1451,0	23	0	1	8					A	MIS	3950	
MCCLOSKEY, MIS		2950 1944	120			9	0	1	38			S	6	AL			
		3075 1943	310			16	0	1	37	0,24		L	8	AC			
*MARKHAM CITY W, JEFFERSON, 2-3S, 4E																	
AUX VASES, MIS		1945	500	1,2	2346,2	40	0	0	3					A	MIS	3406	
MCCLOSKEY, MIS		2905 1945	310			19	0	0	39			S	15	AL			
SALEM, MIS		3035 1946	310			23	0	0	37			L	7	AC			
		3774 1969	10			1	0	0				L	4				
*MARTINSVILLE, CLARK, 9-10N, 13-14W																	
SHALLOW, PEN		1907	2590	X	X	388	14	6	161					U	STP	3411	
CASEY, PEN		500	2290			10	0	0				S	X	U			
MARTINSVILLE, MIS		480	#			99	1	1				S	X	U			
CARPER, MIS		1340	520			28	0	1				L	X	U			
UEVONIAN		1550	1040			84	0	3	37			S	40	U			
TRENTON, DND		2700	700			45	0	0	38			L	X	U			
			510			35	13	1	40			L	X	U			
SEE CLARK COUNTY DIVISION FOR PRODUCTION																	
*MASON N, EFFINGHAM, 6N, 5E																	
BENOIST, MIS		1951	240	6,0	410,0	16	0	0	9					A	MIS	2553	
AUX VASES, MIS		2290 1951	180			11	0	0	38			S	13	AL			
SPAR MTN, MIS		2355 1951	10			1	0	0	36			S	5	AL			
MCCLOSKEY, MIS		2390 1951	90			4	0	0				L	1R	AC			
		2475	#			3	0	0	37			L	5	AC			
MASSILON, WAYNE, EDWARDS, 1S, 9-10E																	
UHARA, MIS		3255 1946	70	0,0	91,2	3	0	0	0	37		L	6	MC	MIS	3472	
MASSILON S, EDWARDS, 1S, 10E																	
UHARA, MIS		3515 1947	10	0,0	0,3	1	0	0	0	37		L	9	MC	MIS	3441	
*MATTOON, COLES, 11-12N, 7-8E																	
CYPRESS, MIS		1939	8160	119,9	20215,8	567	0	6	241					A	STP	4915	
AUX VASES, MIS		1750 1939	3360			261	0	4	39	0,16		S	13	A			
SPAR MTN, MIS		1900	580			29	0	2	32			S	15	AL			
MCCLOSKEY, MIS		1950 1944	4840			394	0	5	36	0,21		S	12	A			
SALEM, MIS		2010	#			8	0	1	37			L	5	AC			
CARPER, MIS		2236 1977	60			4	0	0				L	6				
		2950 1955	420			23	0	0	39			S	10	A			

(CONTINUED ON NEXT PAGE)

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- OF TH UISC- (FT) UVERY	PRODUCTION M BBLs				NUMBER OF WELLS				CHARACTEN OF OIL				DEEPEST TEST ZONE TH (FT)
			AREA PRU- VEO IN ACRES	QU- ING 1978	TO ENO OF 1978	COMP- LETED TO ENO OF 1978	CO- MPL- ETED AND O ENO OF 1978	AB- PROD- UCING ENO OF 1978	PROD- UCING ENO OF 1978	SUL- FUR PERC- ENT	KINO UP OF RUCK	THI- CKN- ESS	STR- UCT- URE		
														1978	
(CONTINUED FROM PREVIOUS PAGE)															
MATTOON, COLES, 11-12N, 7-8E															
DEVONIAN		3162 1970	30			4	0	0		34		9			
MATTOON N, COLES, 13N, 7E															
SPAR MTN, MIS		1902 1960	160	1.6	367.4	12	0	1		3 40		8	12 A	MIS 1967	
MATTOON S, CUMBERLAND, 11N, 7E															
CARPER, MIS		3035 1962	50	0.0	4.7	3	0	0		0 38		8	10	MIS 3337	
MAUNIE E, WHITE, 6S, 11E															
IAM SPRINGS, MIS		1951	80	0.8	64.0	6	0	0		1				AF MIS 3088	
AUX VASES, MIS		2280 1962	10			1	0	0		35		8			
		2870 1951	70			5	0	0		35		8	20	AF	
ABU 1966															
ABU 1952, REV 1955															
MAUNIE N C, WHITE, 5-6S, 10-11E, 14W															
PENNSYLVANIAN		1941	2130	22.2	5003.7	177	0	0		45			A	MIS 4687	
WALTERSBURG, MIS		1320	10			1	0	0		34		8	20	AL	
TAR SPRINGS, MIS		2305 1952	130			10	0	0		37		8	12	AL	
HARJOINSBURG, MIS		2350	160			10	0	0		35		8	10	AL	
SAMPLE, MIS		2565	10			1	0	0		36		8	10	A	
BETHMEL, MIS		2820 1941	480			2	0	0		35		8	13	AL	
RENAULT, MIS		2930 1943	10			30	0	0		35		8	13	AL	
AUX VASES, MIS		2935	10			1	0	0		36		8	2	AC	
OHARA, MIS		2930 1943	870			93	0	0		35		8	13	AL	
SPAR MTN, MIS		2995 1944	890			8	0	0		37		8	4	AC	
MCCLOSKEY, MIS		3025 1947	8			24	0	0		36		8	6	AC	
		3035 1945	8			24	0	0		33		8	10	AC	
MAUNIE SOUTH C, WHITE, 6S, 10-11E															
BRIOWEPORT, PEN		1941	1750	50.2	7379.7	174	0	2		53			A	DEV 4908	
BIEHL, PEN		1400	180			11	0	0		24		8	7	AL	
DEGONIA, MIS		1649 1959	8			3	0	0		31		8	x	AL	
PALESTINE, MIS		1900 1942	120			13	0	2		35		8	10	AL	
WALTERSBURG, MIS		2010 1941	640			54	0	0		35		8	17	AL	
IAM SPRINGS, MIS		2210	20			2	0	0		37		8	19	AL	
CYPRESS, MIS		2270 1942	830			53	0	0		35		8	16	AF	
BETHMEL, MIS		2590	390			30	0	0		36		8	10	AL	
AUX VASES, MIS		2735	10			1	0	0		37		8	x	AL	
SPAR MTN, MIS		2845 1941	180			13	0	0		37		8	12	AL	
MCCLOSKEY, MIS		2900	40			1	0	0		35		8	6	AC	
ST LOUIS, MIS		2920	10			4	0	0		35		8	6	AC	
SALEM, MIS		3293 1975	10			1	0	0		35		8	9		
ULLIN, MIS		3874 1973	10			1	0	0		35		8			
		3964 1975	10			1	0	0		35		8	6		
MAYBERRY, WAYNE, 2-3S, 6E															
MCCLOSKEY, MIS		1941	180	16.2	422.8	16	2	0		11				DEV 5377	
SALEM, MIS		3350 1941	140			9	1	0		39 0.16		8	8	AC	
ULLIN, MIS		3840 1977	20			2	0	0		35		8			
		4300 1977	70			7	1	0		35		8	25		
MAYBERRY N, WAYNE, 2S, 6E															
MCCLOSKEY, MIS		3330 1948	10	0.0	1.4	1	0	0		0 39		8	2	MIS 3463	
MECHANICSBURG, SANGAMON, 16N, 3W															
SILURIAN		1734 1972	140	14.6	184.7	10	0	0		8		8	16	SIL 1776	
MELHOSE, CLARK, 9N, 13W															
ISABEL, PEN		840 1953	180	4.1	X	16	0	0		5 35		8	10	PEN 914	
MELROSE S, CLARK, 9N 13W															
ISABEL, PEN		865 1953	20	0.0	0.0	2	0	0		0 35		8	7	PEN 888	
ABU 1959, REV 1964, ABU 1969															
MILETUS, MARION, 4N, 4E															
BENOIST, MIS		1947	220	1.5	367.3	16	0	0		4			A	DEV 3950	
AUX VASES, MIS		2140 1947	130			8	0	0		35		8	7	A	
MCCLOSKEY, MIS		2200 1947	140			8	0	0		36		8	7	A	
		2350 1947	50			3	0	0		36		8	5	A	

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA PRO- DU- TION IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL SUL- FUR- PERL- API	PAY ZONE			DEEPEST TEST TH (FT)		
				PRO- DU- TION IN 1978	TO END OF 1978	COM- PLET- ED 1978	CO- MPL- ETED 1978	AS- AND- ONED 1978		PROD- UCING END OF YEAR	GR.	KIND OF ROCK		THI- CK- NESS	STR- UCT- URE
				DEP- TH (FT)	JISC- VERY	ACRES	TO END OF 1978	TO END OF 1978		TO END OF 1978	TO END OF 1978	TO END OF 1978		TO END OF 1978	TO END OF 1978
MILLERSBURG, BUND, 4N, 4W															
	DEVONIAN	2130 1967	20	0.0	10.3	2	0	0	0	38	S	2	DEV	2160	
ABU 1971															
*MILL SMUALS, WHITE, HAMILTON, WAYNE, 2=4S, 7=8E															
		1939	3230	45.9	1188S,2	249	0	2	70						
AUX VASES, MIS		3245	2700			198	0	2		36	0.14	S	11	A	
UHARA, MIS		3320	1030			9	0	0				OL	11	AC	
SPAR MTN, MIS		3345	#			14	0	0				L8	5	AC	
MCCLUSKY, MIS		3375 1939	#			40	0	0		36		OL	5	AC	
ST. LOUIS, MIS		3546 1960	10			1	0	0		39		L	10	AC	
SALEM, MIS		3970 1961	10			2	0	0		38		L	8	A	
ULLIN, MIS		4110 1959	10			1	0	0		38		L	10	A	
MILLS PRAIRIE, EDWARDS, 1N, 14W															
	UHARA, MIS	2925 1948	10	0.0	1.9	1	0	0	0	37		L	5	MC	
ABU 1952															
MILLS PRAIRIE N, EDWARDS, 1N, 14W															
	UHARA, MIS	2925 1953	30	0.0	4.9	2	0	0	0	37		L	5	MC	
ABU 1956															
MITCHELLSVILLE, SALINE, 10S, 6E															
		1955	30	0.4	24.9	3	0	0	1					MIS	
DEWONIA, MIS		1330 1955	10			1	0	0		35		S	4		
WALTERSBURG, MIS		1505 1955	10			1	0	0		38		S	9		
CYPRESS, MIS		2107 1973	10			1	0	0				S	20		
*MUDE, SHELBY, 1UN, 4E															
		1961	360	0.5	335.3	19	1	0	14					DEV	
BETHEL, MIS		1682 1961	140			9	1	0		35		S	17		
BENDIST, MIS		1742 1961	360			13	0	0		34		S	8		
AUX VASES, MIS		1772 1961	10			2	0	0		37		S	8		
MONTROSE, EFFINGHAM, 8N, 7E															
	MCCLUSKY, MIS	2523 1968	80	2.3	130.7	4	0	0	3			L	7	MIS	
3005															
*MUNTRUSE N, CUMBERLAND, 9N, 7E															
	MCCLUSKY, MIS	2500 1969	20	0.1	19.8	2	0	0	2			OL	10	DEV	
3980															
*MT. AUBURN C, CHRISTIAN, 15N, 1=2W															
	SILURIAN	1920 1943	7240	35.9	6672.3	433	0	1	120	37	0.28	L	15	MU	
TRN 2577															
*MT. CARMEL ++, WABASH, 1N, 1S, 12W															
		1939	4670	166.0	18482.1	544	4	3	192					A	
BRIDGEPORT, PEN		1370 1946	1160			5	0	0		34		S	20	AL	
BIEM, PEN		1470	#			67	0	0		36	0.26	S	20	AL	
JOKOAN, PEN		1520	#			6	0	0				S	15	AL	
PALESTINE, MIS		1580	60			5	0	0		35		S	10	AL	
WALTERSBURG, MIS		1690	30			3	0	0		36		S	10	AL	
TAR SPRINGS, MIS		1790 1939	430			35	0	0		36		S	13	AL	
JACKSON, MIS		2020 1945	10			1	0	0				S	25	AL	
CYPRESS, MIS		2025 1940	3660			336	0	1		38	0.17	S	15	AL	
SAMPLE, MIS		2095	180			4	0	0		37		S	7	AL	
BETHEL, MIS		2110	#			13	0	0		35		S	16	AL	
UHARA, MIS		2320	1350			23	2	0		35		OL	5	AC	
SPAR MTN, MIS		2350	#			14	0	0		39	0.26	S	5	AL	
MCCLUSKY, MIS		2360	#			66	0	1		37	0.42	OL	4	AC	
SALEM, MIS		2696 1966	90			6	1	1				L	14		
ULLIN, MIS		3097 1978	10			1	1	0				L	10		
MT. ERIE N, WAYNE, 1N, 9E															
		1944	200	0.0	390.7	14	0	0	1					M	
AUX VASES, MIS		3110 1944	110			5	0	0		40		S	8	ML	
UHARA, MIS		3170 1949	130			2	0	0				L	6	MC	
MCCLUSKY, MIS		3240 1944	#			5	0	0		37		L	5	MC	
ARD 1966, REV 1967															
MT. OLIVE +, MONTGOMERY, 8N, 5W															
	POTTSVILLE, PEN	605 1942	30	0.3	X	6	0	1	4	33	0.16	S	6	A	
SIL 1878															

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR DEP- TH DISC- (FT) OVERY	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE	DEEPEST TEST			
				197A	197B	COMP- LETO	CO- MPL-	AS- AND- UCING	PROD- UCING END OF YEAR	SUL- FOR KIND OF ROCK	PERC- ENT			THI- CKN- ESS	STR- UCT- URE	DEP- TH (FT)
MT. VERNON, JEFFERSON, 3S, 3E																
AUX VASES, MIS		1943	250	5.3	388.6	18	1	0		7		A	A	MIS	3262	
OHARA, MIS		2665 1943	70			5	0	0		36	S	A	A			
MCCLOSKEY, MIS		2750 1943	100			2	0	0			L	A	AC			
		2800 1943	#			13	1	0		39	0.18	L	7	AC		
MT. VERNON N, JEFFERSON, 2S, 3E																
MCCLOSKEY, MIS		2675 1956	20	0.5	65.2	2	0	0		2	38	L	6	MIS	2751	
MORROCK, DOUGLAS, 16N, 10E																
PENNSYLVANIAN		370 1955	10	0.0	0.0	3	0	0		0	36	S	16	PEN	424	
			ARD 1957, REV 1961, ARD 1968													
NASHVILLE, WASHINGTON, 2S, 3W																
DEVONIAN		1973	390	83.4	776.6	32	1	1		25				ORO	3776	
SILURIAN		2625 1973	40			4	0	0				0	20			
		2650 1973	370			30	1	1		41		L	40	K		
NASON, JEFFERSON, 3-4S, 2E																
OHARA, MIS		1943	30	0.4	53.7	3	0	0		1				ML	MIS	3925
SPAR MTN, MIS		2758 1962	30			1	0	0		37		L	4			
		2790 1943	#			2	0	0		37		S	12	ML		
NEW BAUEN E, CLINTON, 1N, 5W																
SILURIAN		1935 1953	290	7.0	259.8	23	0	2		12	39	L	15	M	SIL	2200
NEW BELLAIN, CHAMFORD, 8N, 1SW																
ISABEL, PEN		1942	130	0.0	10.0	9	1	0		2				M	DEV	2832
CYPRESS		650 1952	20			2	0	0		32		S	3	ML		
AUX VASES, MIS		1165 1942	60		10.0	4	1	0		29	0.30	S	10	ML		
		1250 1956	60			3	0	0				S	20	M		
			ARD 1948, REV 1952, ARD 1954, REV 1956													
NEW CITY, SANGAMON, 14N, 4W																
SILURIAN		1730 1954	440	2.2	217.8	39	0	0		10	39	L	11	MU	SIL	1655
NEW CITY S, CHRISTIAN, 14N, 4W																
SILURIAN		2008 1963	20	0.0	63.4	2	0	0		0	39	L	17	SIL	1918	
			ARD 1974													
NEW DOUGLAS S, BUNO, 6N, 5W																
PENNSYLVANIAN		640 1957	20	0.0	3.4	2	0	0		0	32	S	7	PEN	705	
			ARD 1960													
NEW HARMONY C ++, WHITE, WABASH, EDWARDS, 1N, 1-5S, 13-14W																
JAMESTOWN, PEN		1939	25980	1297.9	160455.0	2671	27	32		1014				A	S-WK	7682
BRIDGEPORT, PEN		720	1870			4	0	0		32		S	13	AL		
MANSFIELD, PEN		1340	#			9	0	0				S	7	AL		
BIEMEL, PEN		0	#			0	0	0				S	1	AL		
JORDAN, PEN		1850	#			132	0	0		33		S	20	AL		
UEGONIA, MIS		1760	#			0	0	0				S	1	AL		
CLORE, MIS		1925	130			10	0	0		34		S	10	AL		
PALESTINE, MIS		1930	100			11	0	0		36		S	10	AL		
WALTERSBURG, MIS		2000	270			23	0	0		25		S	10	AL		
TAR SPRINGS, MIS		2155	1320			132	3	4		36	0.40	S	20	ALF		
HARDINSBURG, MIS		2215	2570			218	1	9		35	0.19	S	26	ALF		
CYPRESS, MIS		2290 1958	20			1	0	0		35		L	10	ALF		
SAMPLE, MIS		2570	11050			1078	4	12		35		S	20	ALF		
BETHEL, MIS		2660	11100			60	0	0		36		S	20	ALF		
RENAULT, MIS		2700	#			887	2	7		37	0.24	S	27	ALF		
AUX VASES, MIS		2761	10			1	0	0		34			8			
OHARA, MIS		2800	8440			627	1	7		37	0.19	S	15	ALF		
SPAR MTN, MIS		2900	5330			56	0	1		39		OL	6	AC		
MCCLOSKEY, MIS		2910	#			50	0	0		38		LS	10	AC		
ST. LOUIS, MIS		2925	#			290	13	6		37	0.33	OL	8	AC		
SALEM, MIS		3153 1953	540			36	13	1		36		L	x			
ULLIN, MIS		3364 1959	330			24	3	1		37		L	16	AC		
FORT PAVNE, MIS		3755	130			9	4	0		36		L	6	AC		
		4500 1978	90			5	5	0				L				
NEW HARMONY S (ILL), WHITE, 5S, 14W																
WALTERSBURG, MIS		1941	90	0.0	113.3	8	0	0		1				A	MIS	3207
TAR SPRINGS, MIS		2250 1941	30			3	0	0		35		S	18	AF		
		2350	10			1	0	0		36		S	16	AF		

(CONTINUE ON NEXT PAGE)

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF TH UI&C UVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL				PAY ZONE	DEEPEST TEST ZONE TH (FT)
				PRO- DUCED IN 1978	TO END OF 1978	COM- PLET- ED TO END OF 1978	CO- EYE AND 1978	AB- AND 1978	PROO- UCING END OF YEAR	SUL- FUR API	KIN- DP ROCK	THI- LKN ESS	STR- UCT- URE		
(CONTINUED FROM PREVIOUS PAGE)															
NEW HARMONY S (ILL), WHITE, 5S, 14W															
CYPRESS, MIS		2670	1951	10			1	0	0		35	S	A	AF	
oETHEL, MIS		2615		20			2	0	0		36	S	10	AF	
AUX VASES, MIS		3005	1949	10			1	0	0		37	S	7	AF	
MCCLOSKEY, MIS		3010		20			1	0	0		37	L	5	AF	
*NEW HARMONY S (INU) **, WHITE, 5S, 14W															
			1946	50	0.0	446.4	6	0	0		1			T	MIS 3066
DEGONIA, MIS		1850		20			2	0	0		35	S	8	TF	
PALESTINE, MIS		1955		50			1	0	0		24	S	10	TF	
WALTERSBURG, MIS		2120		50			3	0	0		37	S	30	TF	
*NEW HAVEN C **, WHITE, 7S, 10-11E															
			1941	760	68.9	2634.6	64	5	0		37			A	MIS 3400
DEGONIA, MIS		1789	1975	10			1	0	0			S	6		
TAM SPRINGS, MIS		2105	1941	350			25	3	0		38	0.27	S	12	AF
MARIONSBURG, MIS		2245		10			1	0	0		36		S	8	AF
CYPRESS, MIS		2445	1949	460			21	2	0		39		S	12	AF
AUX VASES, MIS		2720		150			11	0	1		37		S	15	AF
UMARA, MIS		2799	1959	150			2	0	0				L	12	A
SPAR MTN, MIS		2626	1960	#			2	1	0				L	15	A
MCCLOSKEY, MIS		2820		#			5	0	0		35		OL	6	AC
NEW MEBRUN E **, CRAWFORD, 6N, 12W															
AUX VASES, MIS		1555	1954	50	0.0	0.3	4	0	0		0 35		S	4	MIS 1571
*NEW MEMPHIS CLINTON, 1N, 1S, 5W															
SILURIAN		1980	1952	780	37.3	2599.2	44	1	0		42 41		L	8	TRN 2900
NEW MEMPHIS N, CLINTON, 1N, 5W															
DEV-SIL		2050	1954	90	19.9	99.5	7	0	0		7 40		L	15	ORD 2915
NEW MEMPHIS S, CLINTON, WASHINGTON, 1S, 5W															
SILURIAN		2000	1952	20	0.0	0.7	2	0	0		0 41		L	25	ORD 2914
*NEWTON, JASPER, 6N, 9E															
STE. GEN, MIS		2950	1944	50	1.0	110.1	6	0	0		1 37		L	6	MC MIS 3040
NEWTON N, JASPER, 7N, 10E															
MCCLOSKEY, MIS		2055	1945	100	0.9	8.3	7	0	0		1 37		L	5	MC MIS 2468
NEWTON W, JASPER, 6-7N, 9E															
SPAR MTN, MIS			1947	550	4.0	311.6	35	0	0		10				MIS 3425
MCCLOSKEY, MIS		3000	1947	550			12	0	0				L	5	
				#			29	0	0		36		L	7	MC
NUBLE W, CLAY, 3N, 8E															
MCCLOSKEY, MIS		3035	1951	10	0.0	9.3	1	0	0		0 36		L	8	MIS 3622
NORMIS CITY W, WHITE, 6S, 8E															
JLLIN, MIS		4204	1978	10	1.2	1.2	1	1	0		1		L	14	MIS 4460
*OAKUALE, JEFFERSON, 2S, 4E															
AUX VASES, MIS			1956	450	3.7	672.8	34	0	6		4				MIS 3783
MCCLOSKEY, MIS		2860	1956	370			26	0	6		36		S	35	
		2985	1956	90			9	0	0		37		L	5	
*OAKUALE N, JEFFERSON, 2S, 4E															
MCCLOSKEY, MIS		2932	1960	170	5.1	680.3	13	0	2		6 37		OL	5	MIS 3630
OAKLEY, MACON, 16N, 3E															
CEDAR VALLEY, UEV		2285	1954	170	0.0	22.9	10	0	0		1 37		L	5	DEV 2335

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL	PAY ZONE	DEEPEST TEST				
				1978	1978	COMP- LETED	CO- MPL	AB- ANO				PROO- UCING			
	NAME AND AGE	DEP- OF TM DISC- (FT) OVERY	PRO- VEI IN ACRES	DUH- ING 1978	TO ENO OF 1978	ENO OF 1978	ENO OF 1978	ENO OF 1978	GR, PERC- API ENT	BUL- FUR KIND OF ROCK	THI- CKN- LBS	STR- UCT- URE	DEP- TH (FT)		
OAK POINT, CLARK, JASPER, 8-9N, 14W															
	ISABEL, PEN	560 1952	780	3,9	568,7	63	0	0	29			M	DEV	2691	
	AUX VASES, MIS	1185 1955	10			1	0	0		5	10	ML			
	CARPER, MIS	2220 1952	680			55	0	0	37	8	17				
			90			7	0	0		5	X	ML			
OAK POINT W, CLARK, CUMBERLAND, 9N, 11E, 14W															
	AUX VASES, MIS	1190 1955	120	0,2	18,0	10	0	0	6	35	8	8	MIS	1560	
OCDONEE, SHELBY, 10N, 1E															
	LINGLEE, DEV	2850 1975	70	2,1	21,7	4	0	1	3		5	6	DEV	3139	
OQUIN, MARION, 2N, 1-2E															
	CYPRESS, MIS	1750 1945	350	2,9	1870,8	34	0	0	25			A	DEV	3597	
	BENDIST, MIS	1912 1963	1528			30	0	0		37	13	AL			
	MCCLOSKEY, MIS	2085 1957	10			1	0	0		37	3				
			30			4	0	0		37	12	A			
ORAWVILLE, WASHINGTON, 1S, 4W															
	SILURIAN	2325 1951	50	0,0	63,3	4	0	0	0	40	L	3	R	SIL	2603
			ABU 1969												
ORAWVILLE NC, WASHINGTON, 1S, 4W															
	DEV-SIL	2200 1955	220	5,4	173,3	17	0	0	11	40	L		ORD	3070	
OLD RIPLEY, BOND, 5N, 4W															
	PENNSYLVANIAN	600 1954	890	9,6	543,3	86	1	0	64			A	DEV	2221	
	AUX VASES, MIS	941 1964	880			85	1	0		34	17	A			
			10			1	0	0		36	19				
OLD RIPLEY N, BOND, 5N, 4W															
	HARDIN, DEV	1991 1962	20	38,1	8368,4	1	0	0	0	35	S	1	DEV	2040	
			ABU 1966	0,0	3,0										
OLNEY C, RICHLAND, JASPER, 4-5N, 10															
	AUX VASES, MIS	2918 1960	3940	38,1	8368,4	230	1	0	32			A	MIS	3850	
	OHARA, MIS	3005 1943	90			6	0	0		37	S	X	A		
	SPAR MTN, MIS	3050 1946	3870			15	0	0		37	0,19	L	6	A	
	MCCLOSKEY, MIS	3100 1938	#			77	1	0		37	0,19	L	5	A	
			#			140	0	0		37	0,19	L	6	A	
OLNEY S, RICHLAND, 3N, 10E															
	OHARA, MIS	3142 1937	1010	4,3	1080,9	60	0	2	16			M	DEV	4910	
	SPAR MTN, MIS	3100 1962	1010			1	0	1			L	4			
	MCCLOSKEY, MIS	3115	#			38	0	2		36	L	4	MC		
			#			35	0	0		37	L	3	MC		
OMAHA +, GALLATIN, 7-8S, 8E															
	JAKE CREEK, PEN	585 1940	1760	93,2	6169,3	160	0	4	86			U	DEV	5320	
	PENNSYLVANIAN	580	340			15	0	0		26	S	20	U		
	BIEMEL, PEN	1335 1948	#			5	0	0		19	S	10	U		
	PALESTINE, MIS	1700 1940	410			5	0	0		22	S	10	U		
	TAK SPRINGS, MIS	1900	170			27	0	0		26	0,24	S	15	U	
	HARDINSBURG, MIS	2179 1961	170			9	0	0		27	S	15	U		
	CYPRESS, MIS	2402 1959	80			6	0	1		29	S	18	U		
	PAINT CREEK, MIS	2450 1961	150			12	0	0		35	S	12	U		
	BETHMEL, MIS	2570 1955	40			1	0	0		37	S	10			
	AUX VASES, MIS	2730 1955	#			3	0	0			S	14	U		
	OHARA, MIS	2734 1958	890			67	0	3		40	S	20	U		
	SPAR MTN, MIS	2722 1958	350			18	0	1		39	L	14	U		
	MCCLOSKEY, MIS	2800 1961	#			5	0	0			S	8	U		
			#			6	0	0			L	X	U		
OMAHA E, GALLATIN, 8S, 8E															
	CYPRESS, MIS	2530 1946	130	0,0	61,2	11	0	0	1	41	S	6	M	MIS	3007
	AUX VASES, MIS	2790 1957	30			3	0	0		38	S	X	M		
	OHARA, MIS	2855 1946	10			1	0	0		37	L	8	MCF		
	SPAR MTN, MIS	2942 1960	90			3	0	0			L	9	MCF		
	MCCLOSKEY, MIS	2884 1958	#			1	0	0			L	10	MCF		
			#			3	0	0		38	L	10	MCF		

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE [* SECONDARY RECOVERY SEE PART II]	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST ZONE TM (FT)		
			AREA PRO- VED IN ACRES	GUR- ING 1978	TO END OF 1978	COMP- LETED NO OF 1978	CO- MPL- ETED NO OF 1978	AB- AND ONEO 1978	PROO- UCING END OF YEAR	GR, PERC- API ENT	SUL- FUR ROCK			KING OF ESS	THI- STR- UCT- URE
*OMAMA S, GALLATIN, SALINE, 8S, 7-8E															
CYPRESS, MIS		1951	140	0,0	94,3	9	0	0	2			N	MIS	3035	
AUX VASES, MIS		2535 1953	90			5	0	0	36	S	15	NL			
SPAR MTN, MIS		2670 1955	40			3	0	0	38	S	8	11	N		
		2865 1951	10			1	0	0	37	L	1	NC			
ABU 1965, REV 1969															
*OMAMA W, SALINE, GALLATIN, 7-8S, 7-8E															
CYPRESS, MIS		1950	160	9,7	424,7	14	0	0	12			A	MIS	3025	
SAMPLE, MIS		2600 1950	70			6	0	0	38	S	12	AL			
AUX VASES, MIS		2600 1967	80			6	0	0	36	S	14	AL			
MCCLOSKEY, MIS		2800 1950	20			2	0	0	37	S	30	AL			
		2910	10			1	0	0	36	L	8	AC			
*OMEGA, MARION, 3N, 4E															
BENOIST, MIS		1946	60	0,0	25,4	6	0	0	1				MIS	3150	
MCCLOSKEY, MIS		2280 1963	10			1	0	0	36	S	3				
		2490 1946	70			5	0	0	38	L	10	U			
ABU 1949, REV 1963, ABU 1968, REV 1977															
*OPDYKE, JEFFERSON, 3S, 4E															
OMARA, MIS		1961	40	0,0	7,2	2	0	0	0				MIS	3175	
MCCLOSKEY, MIS		3016 1962	40			1	0	0		L	8				
		3074 1961	#			2	0	0	37	DL	20				
ABU 1967															
*ORCHARDVILLE, WAYNE, 1N, 5E															
SAMPLE, MIS		1950	240	5,2	389,1	17	0	0	9			A	MIS	4000	
AUX VASES, MIS		2655 1958	10			1	0	0	36	S		A			
OMARA, MIS		2600 1951	190			13	0	0	36	S	16	AL			
MCCLOSKEY, MIS		2680	60			2	0	0	37	L	3	AC			
		2905 1950	#			4	0	0		L	5	AC			
*ORCHARDVILLE N, WAYNE, 1N, 5E															
PAINT CREEK, MIS		1956	20	0,3	24,6	2	0	0	1				DEV	4684	
AUX VASES, MIS		2655 1956	10			1	0	0		S	6				
		2780 1971	10			1	0	0		S	4				
ABU 1964, REV 1971															
*ORIENT, FRANKLIN, 7S, 2E															
AUX VASES, MIS		2660 1965	40	4,9	193,1	4	0	0	4	38	S	24	MIS	2850	
*ORIENT N, FRANKLIN, 7S, 2E															
AUX VASES		2680 1967	10	0,0	0,3	1	0	0	0	38	S	4	MIS	3049	
ABU 1972															
*OSKALODSA, CLAY, 3-4N, 5E															
BENOIST, MIS		1950	490	4,4	2620,1	44	0	0	9			A	DEV	4510	
AUX VASES, MIS		2595 1950	450			40	0	0	37	S	15	A			
MCCLOSKEY, MIS		2643 1958	150			11	0	0	37	S	1	A			
		2755 1957	280			14	0	0	36	L	5	A			
*OSKALODS E, CLAY, 3N, 5-6E															
AUX VASES, MIS		1947	30	0,0	35,2	2	0	0	0			A	MIS	3397	
MCCLOSKEY, MIS		2620 1947	20		7,0	1	0	0	37	S	5	AL			
		2695 1951	10		28,0	1	0	0	33	L	4	AC			
ABU 1954															
*OSKALODSA S, CLAY, 3N, 5E															
STE GENEVIEVE, MIS		2770 1951	130	1,8	89,5	11	0	0	5	35	L	4	AC	ORD	5848
*PANA, CHRISTIAN, 11-12N, 1E															
BENOIST, MIS		1470 1951	60	4,1	132,5	5	0	0	3	37	S	8	DEV	2647	
*PANA DEN, CHRISTIAN, 11N, 1E															
BENOIST, MIS		1526 1978	50	0,9	0,9	3	3	0	3		S	5	MIS	1661	
*PANA S, CHRISTIAN, 11N, 1E															
DEVONIAN		2881 1974	130	0,0	0,1	6	0	3	3		L	5	DEV	2929	

TABLE 8 continued

PODL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH (FT)	AREA PRU- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST DEP- TH (FT)			
				1978	TO END OF 1978	COM- LETED TO 1978	CO- MPL- ETED IN 1978	AN- NO- ONEO 1978	PROO- UCING END OF YEAR	GR, API	SUL- FUR- PERC- ENT			KINU RUCK	TMI- E88	STR- UCT- URE
PANAMA *, BOND, MONTGOMERY, 7N, 3-4W																
		1940	60	0.2	22.9	6	0	0	1			A	ORD	2950		
	GOLCUNDA, MIS	705	40			4	0	0	31		L	12	A			
	BENDIST, MIS	865	50			3	0	0	28		8	12	A			
PANKEYVILLE, SALINE, 9S, 6E																
		1956	50	0.0	6.1	2	0	0	0					MIS	2742	
	CYPRESS, MIS	2250	20		6.1	2	0	0	37		S	X				
	AUX VASES, MIS	2511	10			1	0	0	36		S	22				
						ABD 1957, REV 1961, ABD 1961										
PANKEYVILLE E, SALINE, 9S, 7E																
		1956	10	0.0	0.0	1	0	0	0					MIS	2604	
	CYPRESS, MIS	2250	10			1	0	0	37		S	X				
	PAINT CREEK, MIS	2360	10			1	0	0	36		8	13				
						ABD 1957										
PARKERSBURG C, RICHLAND, EDWARDS, 1-3N, 10-11E, 14W																
		1941	5350	18.6	11139.5	327	7	1	68			A	OEV	5128		
	PENNSYLVANIAN	2100	1000			1	0	0	36		S	18				
	WALTERSBURG, MIS	2430	150			12	0	0	39		S	10	A			
	TAK SPRINGS, MIS	2440	10			1	0	0	36		S	2	A			
	CYPRESS, MIS	2630	190			11	1	0	36		S	12	A			
	BETHEL, MIS	2930	310			20	0	1	35		S	12	A			
	AUX VASES, MIS	3070	20			2	0	0	37		S	20	A			
	UHARA, MIS	3100	4760			7	2	0			L	10	A			
	SPAR MTN, MIS	3150	#			57	0	0	36	0.34	L	10	A			
	MCCLUSKY, MIS	3175	#			205	4	0	36	0.31	OL	10	A			
	SALEM, MIS	3796	10			1	1	0			L	4				
	ULLIN, MIS	3966	10			1	1	0			L	4				
PARKERSBURG S, EDWARDS, 1N, 14W																
		1948	100	3.9	101.6	9	0	0	3					MIS	3187	
	PENNSYLVANIAN	1400	70			6	0	0	35		S	10				
	CYPRESS	2750	10			1	0	0	36		S	X				
	BETHEL, MIS	2815	20			3	0	0	35		S	5				
PARKERSBURG W, RICHLAND, EDWARDS, 2N, 10E																
		1943	320	0.0	237.0	19	0	1	0			A	MIS	3780		
	UHARA, MIS	3220	320			2	0	1			L	5	AC			
	MCCLUSKY, MIS	3260	#			17	0	0	36		L	6	AC			
						ABD 1962, REV 64, ABD 65, REV 76, ABD 78										
PARNELL, DEWITT, 2IN, 4E																
		1963	610	9.2	202.9	39	0	0	38					TRN	1971	
	SONOMA, MIS	671	590			36	0	0	32		S	12				
	DEVONIAN	1100	20			3	0	0	37		S	12				
PASSPORT, CLAY, 4-5N, 8E																
		1945	990	12.5	3400.1	65	0	1	16			A	MIS	3831		
	AUX VASES, MIS	2924	20			5	0	0	36		S	6	A			
	SPAR MTN, MIS	3005	970			2	0	0	38		L	5	AC			
	MCCLUSKY, MIS	3020	#			59	0	1	37		L	10	A			
PASSPORT N, RICHLAND, 5N, 9E																
	AUX VASES, MIS	2940	60	1.3	72.2	5	0	0	2	36	S	10		MIS	3564	
PASSPORT S, RICHLAND, CLAY, 4N, 8-9E																
		1948	130	0.0	171.9	11	0	0	1			A	MIS	3692		
	TAK SPRINGS, MIS	2368	10			1	0	0	37		S	9				
	CYPRESS, MIS	2665	80			7	0	0	38		S	15	AL			
	AUX VASES, MIS	2957	10			1	0	0	36		S	8	A			
	SPAR MTN, MIS	3025	40			1	0	0			L	6	AC			
	MCCLUSKY, MIS	3030	#			2	0	0	38		L	8	AC			
PASSPORT W, CLAY, 4N, 8E																
	STE. GEN, MIS	3030	150	0.0	69.4	11	0	0	0	37	L	5	AC	MIS	3570	
						ABD 1967, REV 1971, ABD 1974										
PATOKA, MARION, CLINTON, 3-4N, 1E, 1W																
		1937	1560	21.6	14698.8	242	0	0	105					ORD	4056	
	CYPRESS, MIS	1280	60			8	0	0	39		S	10	0			
	BENDIST, MIS	1410	1000			180	0	0	37	0.16	S	27	0			
	AUX VASES, MIS	1459	40			3	0	0			S	13				

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF TH OILC- OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL		PAY ZONE			DEEPEST TEST			
				DUK- ING 1978	TO END OF 1978	COMP- LETED TO 1978	CO- ETEO 1978	AR- AND- 1978	PROD- UCING END OF YEAR	SUL- FOR PERC- ENT	KINU OF ROCK	THI- ESS	STR- UNE	UCT- UNE	ZONE	DEP- TH (FT)			
																	1978	1978	1978
*PATOKA, MARION, CLINTON, 3-4N, 1E, 1W															(CONTINUED FROM PREVIOUS PAGE)				
	SPAR MTN, MIS	1950	510			15	0	0			39	0.31	S	9	U				
	GENEVA, DEV	2835 1943	30			3	0	0			40	0.26	O	10	O				
	TRENTON, ORD	3950 1956	630			34	0	0			42		L	25	O				
*PATOKA E, MARION, 4N, 1E																			
		1941	570	51.1	5729.9	65	0	1			36					ORD	4178		
	CYPRESS, MIS	1340 1941	570			55	0	1			36	0.18	S	16	O				
	BENOIST, MIS	1465	50			5	0	0			36	0.23	S	10	O				
	MCCLOSKY, MIS	1635 1953	40			3	0	0			34		L	8	U				
	GENEVA, DEV	2950 1952	20			2	0	0			35		O	30	H				
*PATOKA S, MARION, 3N, 1E																			
		1953	1020	41.3	2463.3	86	0	0			66					A	ORD	4041	
	CYPRESS, MIS	1350 1953	830			63	0	0			36		S	10	A				
	BENOIST, MIS	1461 1959	230			20	0	0			37		S	15	A				
	SPAR MTN, MIS	1624 1959	50			2	0	0					S	5	A				
	TRENTON, ORD	3990 1973	120			4	0	0			43		L	18					
PATOKA W, FAYETTE, 4N, 1W																			
	BENOIST, MIS	1380 1950	200 ARD 1965	0.0	303.6	20	0	0			0	32		S	6	A	MIS	1735	
*PHILLIPSTOWN C, WHITE, EDWARDS, 3-5S, 1U-11E, 14W																			
		1939	7130	668.7	30319.7	662	14	7			326						A	DEV	5350
	ANVIL ROCK, PEN	795 1943	1800			1	0	0			36		S	10	AF				
	CLARK-BRUGPT, PEN	1350	#			14	0	1			36		S	10	AF				
	PENNSYLVANIAN	1450	#			14	0	0			36		S	10	AF				
	BUCHANAN, PEN	1550	#			26	1	2			30		S	15	AF				
	BIEML, PEN	1875	#			86	3	0			33	0.22	S	15	AF				
	KINKAID, MIS	1954 1961	10			1	0	0					S	17	AF				
	UEGONIA, MIS	1975 1943	800			65	0	1			38		S	15	AF				
	CLORE, MIS	2010 1942	170			16	0	0			34		S	12	AF				
	PALESTINE, MIS	2050 1942	140			14	0	0			32		S	11	AF				
	WALTERSBURG, MIS	2280 1943	260			25	0	0			34		S	11	AF				
	TAR SPRINGS, MIS	2295 1943	1390			112	5	3			35		S	15	AF				
	CYPRESS, MIS	2720 1943	560			49	2	0			36		S	12	AF				
	PAINT CREEK, MIS	2780 1944	1560			7	0	0			37		S	9	AF				
	BETHEL, MIS	2810 1943	#			113	0	1			36		S	15	AF				
	AUX VASES, MIS	2680 1939	1130			87	4	1			37		S	15	AF				
	UHARA, MIS	3010 1943	2060			29	0	0			36		L	10	ACF				
	SPAR MTN, MIS	2960	#			37	0	0			38	0.21	LS	10	ACF				
	MCCLOSKEY, MIS	3000 1939	#			75	2	1			34	0.21	L	6	ACF				
	ST LOUIS, MIS	3120 1974	10			1	0	0					L	20					
	SALEM, MIS	3790 1978	10			1	1	0					L	8					
PINKSTAFF, LAWRENCE, 4N, 11W																			
	MCCLOSKY, MIS	1735 1951	10 ABU 1951	0.0	0.1	1	0	0			0	37		L	4		MIS	2290	
PINKSTAFF E, LAWRENCE, 4N, 11W																			
	STE GEN, MIS	1640 1955	130 ABU 1961, REV 1975	2.5	X	9	0	0			7	35		L	4		MIS	2250	
PITTSBURG N +, WILLIAMSON, 8S, 3E																			
		1964	40	4.2	70.8	4	0	0			3						MIS	3070	
	BETHEL, MIS	2459 1972	10			1	0	0					S	P					
	AUX VASES, MIS	2578 1964	30			3	0	0					S	8					
PIXLEY, CLAY, 4N, 6E																			
	LYPRESS, MIS	2680 1959	20 ABU 1960	0.0	0.0	2	0	0			0	35		S	9		MIS	3121	
PLAINVIEW +, MACOUPIN, 9N, 8W																			
	PENNSYLVANIAN	410 1942	10	0.0	2.0	1	0	0			0	34		S	5		PEN	563	
PLAINVIEW S, MACOUPIN, 8N, 8W																			
	PENNSYLVANIAN	444 1959	10 ABU 1962	0.0	X	1	0	0			0	34		S	8		PEN	642	
POSEN, WASHINGTON, 3S, 2W																			
	TRENTON, ORD	3900 1952	50	2.1	115.6	4	0	0			1	37		L	25	A	ORD	3954	

TABLE 8 - continued

WELL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (+ SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR	AREA	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST			
				PRU-VEW IN ACRES	QUAN-ING 1978	TO END OF 1978	CUM-LETED TO 1978	CU-MPL-ETE-ANO-ONE-1978	PROO-UCING ENO OF YEAR	SOL-FUR PER-ENT	KIND UP OF			THI-KN-ESS	STR-UCT-UME	DEP-TH (FT)
POSEN N, WASHINGTON, 3S, 2W	TRENTON, OND	4015 1953	10	0,0	3,9	1	0	0	0	37	L	15	AC	OND	4112	
			ABU 1959													
POSEN S, WASHINGTON, 3S, 2W	BENDIST, MIS	1255 1955	50	0,0	x	4	0	0	0	34	S	7		MIS	1500	
			ABU 1959													
POSEY, CLINTON, 1N, 2W																
	CYPRESS, MIS	1105 1941	330	11,6	513,5	30	0	0	26					M	SIL	2798
	DEVONIAN	2675 1959	320			29	0	0		36	0,16	S	5	M		
			10			1	0	0		38		L	5	M		
POSEY E, CLINTON, 1N, 2W	DEV=31L	2740 1952	470	14,0	655,2	27	0	0	23	38		L	8		DEV	2805
POSEY W, CLINTON, 1N, 3W	DEVONIAN	2585 1954	20	0,7	1,7	2	0	0	1	37		L	15		SIL	2670
			ABU 1954, REV 1977													
PRENTICE +, MORGAN, 16N, 8W	PENNSYLVANIAN	270 1953	30	0,0	0,0	3	0	0	0	30		S	10		OND	1513
PYRAMID, WASHINGTON, 2S, 1W	DEVONIAN	3109 1962	100	0,0	44,1	6	0	0	1	36		S	6		DEV	3255
SHACCOON LAKE, MARION, 1N, 1E																
	CYPRESS, MIS	1625 1949	380	8,9	3425,4	47	0	0	13					U	SIL	3530
	BENDIST, MIS	1715 1957	240			18	0	0		34		S	10	U		
	UMARA, MIS	1885 1949	20			2	0	0		37		S	15	UL		
	SPAR MTN, MIS	1930 1949	190			1	0	0				L	5	UC		
	MCCLOSKEY, MIS	1950 1949	#			11	0	0		36		S	12	UC		
	DEV-31L	3330 1951	#			13	0	0		36		L	10	UC		
			270			15	0	0		40		U	10	M		
SHALEIGH, SALINE, 7-8S, 6E																
	TAM SPRINGS, MIS	2235 1954	630	3,8	2251,7	55	0	1	11					A	DEV	5511
	CYPRESS, MIS	2550 1953	20			2	0	0		35		S	20	A		
	PAINT CREEK, MIS	2738 1958	450			39	0	1		34		S	12	A		
	AUX VASES, MIS	2905 1953	10			1	0	0		34		S	5	A		
	UMARA, MIS	3054 1959	100			11	0	0		38		S	5	A		
	SPAR MTN, MIS	3025 1957	50			1	0	0				L	3	A		
	MCCLOSKEY, MIS	3045 1974	#			2	0	0		38		L	10	A		
			#			1	0	0				OL	4			
SHALEIGH S +, SALINE, 8S, 5+6E																
	WALTERSBURG, MIS	2046 1959	390	16,3	1213,5	34	0	0	11						MIS	3455
	BETHEL, MIS	2739 1958	60			4	0	0		39		S	10			
	AUX VASES, MIS	2860 1955	10			1	0	0		37		S	8			
	MCCLOSKEY, MIS	2960 1974	310			31	0	0		40		S	16			
			10			1	0	0				OL	13			
RAYMOND, MONTGOMERY, 10N, 4-5W	POTTSVILLE, PEN	590 1940	60	0,4	31,1	10	0	0	3	35	0,22	S	10	HL	DEV	2049
RAYMOND E, MONTGOMERY, 10N, 4W	PENNSYLVANIAN	595 1951	60	0,3	31,8	5	0	0	2	34		S	10		MIS	1008
RAYMOND S, MONTGOMERY, 10N, 4W	UNNAMEU, PEN	603 1959	10	0,0	0,0	1	0	0	0	34		S	6		PEN	680
			ABU 1959													
RESERVOIR, JEFFERSON, 1S, 3E																
	SPAR MTN, MIS	2445 1959	330	6,2	595,7	20	0	2	8					MC	MIS	3211
	MCCLOSKEY, MIS	2700 1950	320			2	0	0				S	7	M		
	SALEM, MIS	3034 1961	#			18	0	2		37		L	6	MC		
			10			1	0	0		39		L	12	M		

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA PRU- VEU IN ACRES	PRODUCTION M BLS			NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST ZONE	DEPT- TH (FT)		
				1978	TO 1978	END OF 1978	COMP- LETD 1978	CO- MPL- 1978	AB- AND- 1978	PRGO- UCING YEAR	SUL- PERC- ENT	SUL- FUR- RUCK	KINU OF				THI- LSS	STR- UCT- URE
RICHVIEW, WASHINGTON, 2S, 1W																		
CYPRESS, MIS		1500 1944	760	42,9	2953,8	84	2	0	65	39		3	12	AL	MIS	3291		
HIGWAY, GALLATIN, 8S, 8E																		
PALESTINE, MIS		1730 1946	20	0,0	0,1	2	0	0		0					MC	MIS	2938	
MCCLUSKY, MIS		2840 1946	10			1	0	0		30		3	18	ML				
			10		0,1	1	0	0		38		L	6	MC				
			ABU 1946, REV 1955, ABU 1956															
RIFPLE, CLAY, 4N, 6E																		
SPAR MTN, MIS		2735 1948	80	0,0	80,9	5	0	0		0	36		L	7	MC	MIS	2848	
			ABU 1961															
KINARD, WAYNE, 2N, 7E																		
MCCLUSKY, MIS		3145 1937	10	0,0	7,0	1	0	0		0	39		L	5	AC	MIS	3280	
			ABU 1942															
KINARD N, WAYNE, 2N, 7E																		
UMARA, MIS		1952	300	2,4	367,6	22	0	0		7					M	MIS	3950	
SPAR MTN, MIS		3132 1977				1	0	0					L	6				
MCCLUSKY, MIS		3135	290			1	0	0					L	6	MC			
SALEM, MIS		3140 1952	#			20	0	0		39			L	5	MC			
		3561 1976	10			1	0	0					L	25				
KINARD S, WAYNE, 1N, 6E																		
SPAR MTN, MIS		3268 1965	10	0,0	0,8	1	0	0		0	39		L	4		MIS	3347	
			ABU 1966															
KITLER, MILPLAND, 3N, 10-11E																		
STE. GEN, MIS		3215 1950	110	0,5	263,9	6	0	0		1	38		L	5		MIS	3425	
			ABU 1960, REV 1961															
KITLER N, RICHLAND, 3N, 11E																		
UMARA, MIS		1951	180	0,0	161,3	11	0	0		0						MIS	3288	
SPAR MTN, MIS		3203 1960	180			1	0	0		39			L	6				
MCCLUSKY, MIS		3215 1952	#			8	0	0					L	6				
		3205 1951	#			3	0	0					L	5				
			ABU 1967															
RIVERTON S, SANGAMON, 15N, 4W																		
SILURIAN		1590 1965	40	0,9	91,4	3	0	0		3	38		0	8		SIL	1670	
RUACHES, JEFFERSON, 2S, 1E																		
BENDIST, MIS		1938	180	0,0	620,2	13	0	0		1					A	DEV	3640	
UMARA, MIS		2000	10			3	0	0		36		S	7	AL				
SPAR MTN, MIS		2170 1942	170			3	0	0		37	0,22	L	5	AC				
MCCLUSKY, MIS		2190 1938	#			8	0	0		37	0,22	L	12	AC				
		2250 1938	#			6	0	0		37	0,22	L	4	AC				
WADSWORTH, JEFFERSON, 2S, 1E																		
BENDIST, MIS		1944	420	4,1	1126,0	35	0	0		2					A	TRN	4996	
SPAR MTN, MIS		1925 1944	420			32	0	0		37		S	7	A				
TRANTON		2115 1944	60			4	0	0		34		L	8	AC				
		4652 1962	10			1	0	0		42		L	44					
ROBY, SANGAMON, 15N, 3W																		
SILURIAN		1775 1949	370	10,3	388,7	25	0	0		14	38		L	5	MU	SIL	1405	
			ABU 1951, REV 1954															
ROBY E, CHRISTIAN, SANGAMON, 15N, 2-3W																		
DEVONIAN		1970	1380	110,6	1186,6	90	6	4		57						SIL	1923	
SILURIAN		1757 1971	20			2	1	0				S	2					
		1840 1970	1290			89	5	4				L	20					
ROBY N, SANGAMON, 16N, 3W																		
SILURIAN		1699 1962	50	0,0	19,0	4	0	0		0	38		L	4		TRN	2300	
			ABU 1964, REV 1971, ABU 1973															
ROBY W, SANGAMON, 15N, 3W																		
HIBBARD, DEV		1655 1957	40	0,3	6,2	4	0	0		3	37		S	5	MU	TRN	2259	
			ABU 1963, REV 1967															

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEPT- OF TM UISC- (FT) UVERY	AREA PRO- VEU IN ACRES	PRODUCTION M BBL		NUMBER OF WELLS					CHARACTER OF OIL				PAY ZONE	DEEPEST TEST
				1978	TO 1978	COMP- LETED 1978	CD= MPL	AB= ETED 1978	PRD= ONED 1978	UCING ENDOF YEAR	SUL- FUR PERC- ENT	KINU UP ROCK	IMI- (LN- ESS	STR- UCT- UKE		
*ROCHESTER ++, WABASH, 2S, 1SW																
PENNSYLVANIAN		1948	390	4.1	2554.0	53	1	U		21						
WATERSBURG, MIS		1948	230			23	0	U			32	8	16	MCF	MIS	3450
SALEM, MIS		1948	220			29	0	U				8	20	ML		
		1977	20			2	1	U				L	30			
*ROLAND C +, WHITE, GALLATIN, 5+7S, 8+9E																
PENNSYLVANIAN		1939	11160	386.9	58058.8	980	4	2		337				A	DEV	5266
VEGONIA, MIS		1954	30			6	0	U			36	S	10	A		
CLURE, MIS		2065	40			4	0	U			35	S	7	A		
PALESTINE, MIS		1993	40			6	0	U			36	S	4			
WALTERSBURG, MIS		2085	40			4	0	U			34	S	2	A		
TAK SPRINGS, MIS		2200	1870			121	0	U			31	0.25	S	15	AL	
MARONSBURG, MIS		2300	720			49	0	U			35	S	15	AL		
GOLCUNDA, MIS		2550	1910			153	0	U			37	0.30	S	20	AL	
CYPRESS, MIS		2505	10			1	0	U			35	S	5	A		
PAINT CREEK, MIS		2700	2480			159	1	1			36	0.12	S	15	AL	
BETHEL, MIS		2800	2300			39	1	1			37	S	12	AL		
AUX VASES, MIS		2800	#			87	0	U			37	0.20	S	12	AL	
OMARA, MIS		2880	4360			271	1	2			39	0.12	S	13	AL	
SPAR MTN, MIS		3020	2510			29	1	0			36		OL	6	AC	
MCCLOSKEY, MIS		3050	#			31	0	U			38	L	6	AC		
ST. LOUIS, MIS		3070	#			108	1	U			38	0.20	L	6	AC	
ULLIN, MIS		4050	100			4	2	U			38	L	4	AC		
*ROLAND W, SALINE, 7S, 7E																
AUX VASES, MIS		2935	10	0.0	22.3	1	0	U		40		S	15	ML	MIS	3161
*ROSE HILL, JASPER, 8N, 9E																
MCCLOSKEY, MIS		2695	10	0.0	7.3	1	0	U		39		L	10		MIS	3052
*RUARK, LAWRENCE, 2N, 12+13W																
PENNSYLVANIAN		1941	480	7.2	2645.3	54	0	U		19				A	MIS	2442
BETHEL, MIS		1600	380			42	0	U			33	S	10	AL		
AUX VASES, MIS		2075	90			8	0	U			36	S	11	AL		
UMARA, MIS		2145	30			3	0	U			37	S	7	AL		
		2275	10			1	0	U			37	L	5	AC		
*RUARK W C, LAWRENCE, 2N, 13W																
WALTERSBURG, MIS		1947	730	9.9	1505.8	65	0	U		29				M	MIS	3112
CYPRESS, MIS		1780	50			7	0	U			38	S	10	ML		
BETHEL, MIS		2165	10			1	0	U			35	S	9	ML		
UMARA, MIS		2220	580			45	0	U			36	S	20	ML		
SPAR MTN, MIS		2350	290			4	0	U			L	5	MC			
MCCLOSKEY, MIS		2390	#			2	0	U			L	5	MC			
		2400	#			18	0	U			38	L	3	MC		
*RURAL MILL N, HAMILTON, 5S, 5E																
CYPRESS, MIS		1949	140	7.3	233.6	11	0	U		3				M	MIS	4454
UMARA, MIS		2930	110			8	0	U			35	S	10	ML		
SPAR MTN, MIS		3330	20			1	0	U			L	6	AC			
ST LOUIS, MIS		3325	#			1	0	U			37	L	8	MC		
SALEM, MIS		3640	10			1	0	U			L	7				
ULLIN, MIS		3860	20			1	0	U			L	35				
		4220	20			2	0	U			L	7				
*RUSMVILLE, SCHUYLER, 2N, 1W																
UEV-SIL		743	10	0.0	0.0	1	0	U		0	37	L	22	TRN		975
*RUSMVILLE NW, SCHUYLER, 2N, 2W																
SILURIAN		664	30	0.0	0.5	3	0	U		0	36	L	3	AC	TRN	1038
*RUSSELLVILLE GAS +, LAWRENCE, 4+5N, 10+11W																
MCCLOSKEY, MIS		1560	40	0.2	12.6	4	1	U		2	35	L	7	AC	DEV	3133
*RUSSELLVILLE W, LAWRENCE, 4N, 11W																
SPAR MTN, MIS		1565	10	0.0	2.0	1	0	U		0	37	L	22	MIS		1646

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEPT. OF TH UISC- (FT) UVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST ZONE	DEPT. TH (FT)	
				1978	1978	COMP- LETED TO 1978	CO- MPL- ETED AND 1976	AB- ONED 197A	PROD- UCING ENDOF YEAR	SUL- FUR PERC- ENT	KING OF RUCK	THI- CKN- ESS				STR- UCT- UKE
•ST. FRANCISVILLE, LAWRENCE, 2N, 11W																
BETHEL, MIS		1645 1900	950	X	X	89	0	U	32	32		8	6	ML	MIS	2465
SEE LAWRENCE COUNTY DIVISION FOR PRODUCTION																
•ST. FRANCISVILLE E, LAWRENCE, 2N, 11W																
PENNSYLVANIAN		1941	450	0,7	725,7	39	0	U	17						MIS	1960
WALTERSBURG, MIS		1260 1934	60			6	0	0		30	S	8	AL			
HAROLDSBURG, MIS		1300	10			1	0	U		37	S	6	AL			
CYPRESS, MIS		1460 1950	40			3	0	U		35	S	6	AL			
CYPRESS, MIS		1605	60			3	0	U		36	S	15	AL			
BETHEL, MIS		1750 1941	320			25	0	U		40	0,21	S	20	A		
SPAR MTN, MIS		1622 1963	10			1	0	U		36	L	5				
•ST. JACOB, MADISON, 3N, 6W																
TRENTON, OHIO		2260 1942	1050	26,1	4150,6	55	0	U	26	40	0,23	L	17	A	PC	5019
•ST. JACOB E, MADISON, 3N, 6W																
HARDIN, DEW		1640 1955	10	0,4	1,5	1	0	0	0	23		S	X	U	OHIO	2600
•ST. JAMES, FAYETTE, 5-6N, 2-3E																
GOLCONUA, MIS		1555 1938	2260	127,6	20661,5	263	0	1	139					A	DEV	3470
CYPRESS, MIS		1580 1938	10			1	0	0		34	L	15	A			
BENDIST, MIS		1746 1959	1900			200	0	1		37	0,31	S	16	A		
SPAR MTN, MIS		1660 1954	10			1	0	U		36	S	8	A			
CAMPER, MIS		3070 1961	100			10	0	U		38	L	16	A			
			670			52	0	U		37	S	35	A			
•ST. PAUL, FAYETTE, 5N, 3E																
BENDIST, MIS		1900 1941	360	6,9	1037,2	36	0	U	19					A	DEV	3575
SPAR MTN, MIS		2080	240			18	0	0		34	0,23	S	9	A		
CAMPER, MIS		3286 1963	10			1	0	U		38	L	6	A			
			290			19	0	U		36	S	28				
•STE. MAKIE, JASPER, 5N, 10-11E, 14W																
STE. GEN, MIS		2900 1941	1210	10,9	2079,9	72	0	U	11	37	0,14	L	8	AC	MIS	3470
•STE. MARIE E, JASPER, 6N, 14W																
ST. GEN, MIS		2685 1949	70	1,8	34,1	8	0	0	1	36		L	10	MC	MIS	3191
•STE. MARIE W, JASPER, 5-6N, 10E																
AUX VASES, MIS		1949	410	6,8	462,2	21	0	2	12					M	MIS	3225
STE GEN, MIS		2720 1949	10			1	0	0		37	S	25	ML			
		2615 1949	410			21	0	2		40	L	6	MC			
•SAILOR SPRINGS C, CLAY, EFFINGHAM, JASPER, 3-6N, 6-6E																
TAR SPRINGS, MIS		1938	19560	559,1	58495,0	1495	24	17	629					A	DEV	4486
GLEN DEAN, MIS		2340 1941	810			58	0	1		37	0,17	S	12	A		
JACKSON, MIS		2390 1943	10			1	0	U		36	L	10	A			
CYPRESS, MIS		2550 1976	10			1	0	U		S		10	A			
BETHEL, MIS		2550 1942	10120			746	16	11		38	0,26	S	12	A		
AUX VASES, MIS		2740 1946	710			42	0	0		37	S	20	A			
OHARA, MIS		2625 1942	2680			192	6	1		37	S	13	A			
SPAR MTN, MIS		2900 1947	8060			17	0	1		37	DL	6	A			
MCCLOSKEY, MIS		2900 1945	#			194	1	3		33	LS	8	A			
ST LOUIS, MIS		2925 1938	#			340	1	5		40	DL	8	A			
SALEM, MIS		3310 1967	70			8	0	1		39	L	11	A			
		3260 1978	20			2	2	0		L		12				
•SAILOR SPRINGS E, CLAY, 4N, 6E																
CYPRESS, MIS		1944	180	0,2	83,1	15	0	U	1					U	MIS	3614
MCCLOSKEY, MIS		2695 1948	110			10	0	U		36	S	8	U			
SALEM, MIS		3020 1955	50			5	0	U		37	L	7	U			
		3550 1967	20			1	0	0		36	L	6				
•SAILOR SPRINGS N, CLAY, 4N, 6E																
SPAR MTN, MIS		1948	80	0,0	4,6	5	0	1	0					M	MIS	3126
MCCLOSKEY, MIS		2485 1948	80			3	0	1				L	2	MC		
		3030	#			4	0	0		37	L	2	MC			
ABO 49,REV 50,ABO 51,REV 55,ABO 56,REV 57,ABO 60																

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISCOVERY (PT)	AREA PRODUCTION		NUMBER OF WELLS				CHARACTER OF OIL				DEEPEST TEST	
			ACRES	M BBL	COMPLETES TO END OF 1978	COWPLATES TO END OF 1978	ABANDONED TO END OF 1978	PRODUCING TO END OF YEAR	GR. API	SULFUR FUM. PERCENT	PAY ZONE			
											THICKNESS (FT)	UISC.		IN
*SALEM C, MARION, JEFFERSON, 1-2N, 15, 1-2E														
		1938	13640	2230.9	36#220,4	2867	0	0	1284					
BENDIST, MIS		1780 1938	10830			623	0	0		37	S	40	A	PC 9210
AUX VASES, MIS		1425	7590			822	0	0		37	0,21	S	40	A
OHARA, MIS		2075	9550			2	0	0		37	L	3	A	
SPAR MTN, MIS		2100	#			151	0	0		37	L	15	A	
MCCLOSKEY, MIS		2050	#			892	0	0		35	L	17	A	
ST. LOUIS, MIS		2100	210			19	0	0		37	L	X	A	
SALEM, MIS		2160 1939	1400			279	0	0		37	L	17	A	
DEVONIAN		3440 1939	6000			661	0	0		42	0,26	L	40	A
TRENTON, ORD		4500 1941	1920			151	0	0		37	L	50	A	
SAMSVILLE, EDWARDS, 1N, 11E														
WALTERSBURG, MIS		2420 1942	70	0,0	1,0	5	0	0	0	38	S	7	A	MIS 3303
ABO 1952, REV 1974, ABO 1977														
*SAMSVILLE N, EDWARDS, 1N, 14W														
BETHEL, MIS		2900 1945	200	0,0	259,2	16	0	0	0	38	S	6	A	MIS 4040
ABO 1976														
SAMSVILLE NW, EDWARDS, 1N, 10E														
OHARA, MIS		3190 1955	20	0,0	4,2	2	0	0	0					MIS 3349
SPAR MTN, MISS		3301 1970	10			1	0	0	38	L	4			
			10			1	0	0			L	10		
ABO 1956, REV 1970, ABO 1972														
SANDOVAL, MARION, 2N, 1E														
CYPRESS, MIS		1400 1909	500	31,7	6254,0	154	0	0	10	37	8	10	U	STP 5023
BENDIST, MIS		1540 1909	20			1	0	0		37	S	20	U	
GENEVA, DEV		2920	480			124	0	0		35	S	20	U	
			240			28	0	0		36	0,38	0	9	W
REV 1975														
SANDOVAL W, CLINTON, 2N, 1W														
CYPRESS, MIS		1420 1946	10	0,0	26,3	1	0	0	0	37	S	4	A	MIS 1604
ABO 1960														
SANTA FE, CLINTON, 1N, 3W														
CYPRESS, MIS		955 1944	10	0,0	1,5	1	0	0	0	34	S	10	A	DEV 2542
ABO 1947														
*SCHNELL, RICHLAND, 2N, 9E														
AUX VASES, MIS		295b 1938	190	12,6	366,3	15	1	0	9					MIS 3690
SPAR MTN, MIS		3090 1969	130			8	1	0			S	10		
MCCLOSKEY, MIS		3000 1974	10			1	0	0			S	15		
			80			7	0	0		39	0,19	OL	5	AC
SCHNELL E, RICHLAND, 2N, 9E														
SPAR MTN, MIS		3101 1954	20	0,3	0,6	2	1	0	1					MIS 3176
MCCLOSKEY, MIS		3115 1978	20			1	1	0			S	5		
			#			1	0	0		36	L	4	AC	
ABO 1954, REV 1978														
SCIOIA, MCDONOUGH, 7N, 3W														
DEVONIAN		519 1960	10	0,0	0,0	1	0	0	0	28	L	16		SIL 760
ABO 1960														
*BEMINARY, RICHLAND, 2N, 10E														
MCCLOSKEY, MIS		3195 1945	120	0,0	228,4	8	0	0	0	38	L		MC	MIS 3475
ABO 1966														
*SESSER C, FRANKLIN, 5-6S, 1-2E														
CYPRESS, MIS		2455 1942	1680	68,3	3569,2	110	3	0	69					DEV 4688
RENAULT, MIS		2690 1953	50			3	0	0		38	S	5	AL	
AUX VASES, MIS		2700 1942	340			26	0	0		37	0,17	S	10	AC
OHARA, MIS		2675 1951	1260			74	2	0		38	0,17	S	10	AL
SPAR MTN, MIS		2810 1944	#			2	0	0			L	8	A	
MCCLOSKEY, MIS		2840	#			5	0	0			L	10	AC	
ST. LOUIS, MIS		3002 1957	#			5	0	0		39	L	5	AC	
CLEAR CREEK, DEV		4360 1949	10			1	0	0		37	L	20	AC	
			140			9	1	0		40	L	X	AC	
SHARPSBURG, CHRISTIAN, 14N, 2W														
DEVONIAN		1972 1974	40	0,9	5,5	3	1	0	3					SIL 2062
SILURIAN		1972 1975	30			2	1	0			L	3		
		1990 1974	10			1	0	0			L	3		

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- OF TM (FT)	AREA PRO- VED IN ACRES	PRODUCTION M BBL			NUMBER OF WELLS				CHARACTER OF OIL				DEEPEST TEST ZONE TH (FT)	
				1978	TO 1978	END OF 1978	COM- LETED TO 1978	CO- MPL- ETEU 1978	AB- AND 1978	PROD- UCING END OF YEAR	PRO- GR, PERL- API	SUL- FUR ENT	KIN- OF ROCK	MI- ESS		STR- UCT- URE
*SHATTUC, CLINTON, 2N, 1W																
CYPRESS, MIS		1945	200	8.7	800.8	36	0	0	16						ORD	4078
BENDIST, MIS		1947	150			15	0	0		36	S	7	AL			
TRENTON, ORD		1948	80			7	0	0		35	S	13	AL			
		1948	180			15	0	0		40	L	13	A			
SHATTUC N, CLINTON, 2N, 1W																
BENDIST, MIS		1961	10	0.0	2.4	1	0	0	0	36	S	7		TRN	4134	
SHAWNEETOWN, GALLATIN, 9S, 9E																
PALESTINE, MIS		1945	80	0.0	16.9	6	0	0	0					M	MIS	2837
WALTERSBURG, MIS		1953	40			2	0	0		35	S	28	M			
TAK SPRINGS, MIS		1955	10			1	0	0		37	S	12	M			
CYPRESS, MIS		1955	60			3	0	0		37	S	X	M			
BETHEL, MIS		1956	10			1	0	0		38	S	14	M			
AUX VASES, MIS		1968	10			1	0	0			S	X				
		1945	10			1	0	0		38	S	10	MF			
ABU 1950, MEV 1955, ABD 1960, MEV 196A, ABD 1969																
SHAWNEETOWN E, GALLATIN, 9S, 10E																
WALTERSBURG, MIS		1952	30	0.0	18.3	4	0	0	2						MIS	2830
BETHEL, MIS		1955	10			2	0	0		37	S	10				
AUX VASES, MIS		1955	10			1	0	0		37	S	X				
		1952	10			1	0	0		38	S	9				
*SHAWNEETOWN N, GALLATIN, 9S, 10E																
AUX VASES, MIS		1948	50	0.0	104.9	4	0	0	0					MF	MIS	3131
MCCLUSKY, MIS		1955	40			3	0	0		38	S	20	MF			
		1948	10			1	0	0		36	L	6	MF			
ABU 1953, MEV 1955, ABD 1966																
*SHELBYVILLE C, SHELBY, 11N, 4E																
AUX VASES, MIS		1946	110	1.0	45.7	9	0	0	1	34	S	15	A	MIS	3301	
SHUMWAY, EFFINGHAM, 9N, 5E																
MCCLUSKY, MIS		1965	10	0.0	3.4	1	0	0	0	37	L	3		MIS	2273	
ABU 1969																
SICILY, CHRISTIAN, 13N, 4W																
SILURIAN		1956	70	0.0	69.4	6	0	0	0	39	L	16		SIL	1888	
ABU 1967																
*SIGGINS, CUMBERLAND, CLARK, 10-11N, 10-11E, 14W																
1ST(UP)SIGGINS, PEN		1906	4430	X	X	1125	0	3	443					0	TRN	3341
2ND(D)SIGGINS, PEN		400	4430			896	0	0		36	S	25	U			
3RD, 47MSIGGINS, PEN		400	#			95	0	3		36	S	X	U			
TRENTON, ORD		1972	580			209	0	0		37	S	40	U			
		1972	10			1	0	0		40	L	67				
SEE CLARK COUNTY DIVISION FOR PRODUCTION																
SILHAM, BROWN, 2S, 4W																
SILURIAN		1959	280	2.4	241.4	26	0	1	11	37	0	4	AC	STP	1115	
*SOPENTON C, BOND, 6N, 4W																
PENNSYLVANIAN		1938	700	1.8	1931.4	58	0	0	5					A	TRN	2684
LINGLE, DEV		1956	80			6	0	0		31	S	20	A			
		1958	640			52	0	0		35	S	8	A			
SOPENTON W, BOND, 6N, 4W																
DEVONIAN		1956	10	0.0	0.0	1	0	0	0	37	L	X		ORD	2706	
ABU 1956																
SPARTA S, HANCOCK, 4-5S, 5-6W																
CYPRESS, MIS		1888	20	0.0	X	2	0	0	0	35	S	7	U	TRN	3130	
ABU 1900																
SPARTA S, HANCOCK, 5S, 5W																
CYPRESS, MIS		1949	10	0.0	0.0	1	0	0	0	35	S	8	A	MIS	909	
ABU 1950																
SPRINGERTON S, WHITE, 4S, 8E																
		1976	750	322.6	457.2	56	25	3	53					MIS	4500	

(CONTINUED ON NEXT PAGE)

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISCOVERY	AREA PRODUCED IN ACRES	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE			DEEPEST TEST ZONE TH (FT)
				1978	1978	1978	COMPLETED TO END OF 1978	CO-PRODUCING IN 1978	AB-PRODUCING IN 1978	SULFUR PERCENTAGE	KINUS OF ROCK	TM1-UCT	STR-UCT			
														1978	1978	
(CONTINUED FROM PREVIOUS PAGE)																
SPRINGERTON S, WHITE, 4S, 8E																
AUX VASES, MIS		3325	1977	680			49	22	3				S	8		
OHARA, MIS		3424	1975	90			1	1	0				L	4		
SPAR MTN, MIS		3440	1976	#			4	2	0				S	9		
MCCLOSKEY, MIS		3494	1978	#			2	2	0				L	6		
SALEM, MIS		4290	1977	10			1	0	0				L	5		
ULLIN, MIS		4355	1977	20			2	1	0				L	6		
SPRINGFIELD E, SANGAMON, 15N, 4W																
HIBBARO, DEV SILURIAN		1625	1960	230	1,6	330,1	22	0	0	5			S	4	W	
		1600	1960	10			1	0	0	37			S	4	U	
		1600	1960	220			22	0	0	39			U	12	W	
SPRING GARDEN, JEFFERSON, 4S, 3E																
MCCLOSKEY, MIS		3090	1977	30	120,9	123,4	3	2	0	3			OL	10	MIS	
•STANTON +, MACDOUPIN, 7N, 7W																
PENNSYLVANIAN		515	1952	30	0,0	4,1	2	0	0	1	35		S	11	A	
•STANTON W, MACDOUPIN, 7N, 7W																
PENNSYLVANIAN		505	1954	260	4,5	123,0	27	0	0	16	35		S	10	SIL	
•STEWARUSON, SHELBY, 10N, 5E																
AUX VASES, MIS		1945	1939	330	14,6	931,1	29	0	0	23					DEV	
SPAR MTN, MIS		2021	1958	330			27	0	0	38	0,18		S	9	A	
				70			5	0	0	37			S	4	A	
STEWARUSON E, SHELBY, 9-10N, 6E																
AUX VASES, MIS		2177	1963	30	0,7	19,5	3	0	0	2					MIS	
SPAR MTN, MIS		2197	1963	10			1	0	0	38			S	6		
				30			3	0	0	37			S	6		
STEWARUSON W, SHELBY, 10N-5E																
BENOIST, MIS		1920	1970	10	0,0	0,0	1	0	0	0			S	5	MIS	
				ABO 1971												
STIRITZ, WILLIAMSON, 8S, 2E																
BETHEL, MIS		2470	1976	110	10,4	171,3	7	0	0	5					MIS	
AUX VASES, MIS		2525	1971	40			2	0	0				S	4		
				70			5	0	0				S	6		
•STORMS C +, WHITE, 5-6S, 9-10E																
PENNSYLVANIAN		1320	1954	4680	211,5	20895,2	436	0	5	170					AM	
BIEM, PEN		1640	1951	340			10	0	0	29			S	10	A	
DEGONIA, MIS		2090	1954	#			16	0	0	35			S	4	AF	
CLORE, MIS		2100	1954	180			13	0	0	35			S	7	AL	
PALESTINE, MIS		2150	1941	250			30	0	2	35			S	10	AL	
WALTERSBURG, MIS		2430	1939	70			6	0	0	35			S	12	AL	
TAK SPRINGS, MIS		2340	1946	2690			246	0	1	32	0,28		S	15	AL	
HARDINSBURG, MIS		2476	1959	300			28	0	0	37			S	10	MF	
CYPRESS, MIS		2700	1946	20			2	0	0	37			S	9	MF	
BETHEL, MIS		2610		330			22	0	0	34			S	10	MF	
HENAU, MIS		2990		40			4	0	0	37			S	1	MF	
AUX VASES, MIS		3000	1946	20			2	0	0	39			L	5	A	
OHARA, MIS		3095		1020			76	0	1	35			S	13	AF	
SPAR MTN, MIS		3115	1950	290			9	0	1	35			L	10	AC	
MCCLOSKEY, MIS		3055		#			9	0	0	34			L	2	AC	
SALEM, MIS		3738	1966	10			1	0	1				L	5	MC	
													L	6		
•STRINGTOWN, RICHLAND, 4-5N, 11E, 14W																
STE, GEN, MIS		3025	1941	550	0,0	1608,6	37	0	0	0	40	0,24	OL	8	AC	
				ABO 1975											MIS	
STRINGTOWN E, RICHLAND, 4N, 14W																
MCCLOSKEY, MIS		3010	1948	10	0,0	2,0	1	0	0	0	37		L	4	MIS	
				ABO 1950												
STRINGTOWN S, RICHLAND, 4N-14W																
SPAR MTN, MIS		3117	1970	30	0,0	0,2	3	0	0	0			S	8	MIS	
				ABO 1976												

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP OF TM DISC (FT) OVERY	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE			DEEPEST TEST ZONE TH (FT)	
			AREA PRO VED IN ACRES	OUR ING 1978	TO ENO OF 1978	COMPL ETED ENO OF 1978	CO- ANU 1978	AB- ONED 1978	PRUD- UCING YEAR	GR, API	SUL- PERG- ENT	FUK UP	KIND RUCK	TMI ESB		STR- URE
STUBBLEFIELD S +, 80ND, 4N, 3W																
		1955	100	16.7	29.5	8	1	0	6						DEV	2455
PENNSYLVANIAN		540 1974	40			3	0	0			S	15				
CYPRESS, MIS		985 1955	10			1	0	0	35		S	4				
DEVONTAN		2185 1963	50			4	1	0	37		L	8				
ABU 1956, REV 1963, ABU 1965, REV 1974																
SUMNER, LAWRENCE, 4N, 13W																
MCCLOSKEY, MIS		2260 1944	20	0.0	15.7	2	0	0	0	39	L	4	MC	MIS	2365	
ABU 1953																
SUMNER CEN, LAWRENCE, 4N, 13W																
SPAR MTN, MIS		2544 1966	10	0.0	0.0	1	0	U	0	37	L	5		MIS	3100	
ABU 1968																
SUMNER S +, LAWRENCE, 3N, 13W																
AUX VASES, MIS		2620 1964	60	0.0	0.0	4	0	U	0	36	S	A		MIS	2990	
ABU 1969																
SUMPTER, WHITE, 4S, 9E																
		1945	360	12.6	411.5	25	0	U	13				A	ORD	7852	
DEGONIA, MIS		2140 1975	10			1	0	U			S	5				
CLURE, MIS		2195 1975	10			1	0	U			S	5				
TAR SPRINGS, MIS		2575 1945	260			19	0	0	37		S	18	AF			
MANDINSBURG, MIS		2655 1951	10			1	0	0	36		S	14	AF			
CYPRESS, MIS		2860 1948	70			5	0	0	37		S	15	AF			
UMARA, MIS		3222 1960	10			1	0	U	36		L	6	A			
*SUMPTER E, WHITE, 4-SS, 1UE																
		1951	1610	41.5	2752.9	98	0	U	37				A	MIS	4204	
CYPRESS, MIS		2795	220			16	0	U	37		S	16	AL			
BETMEL, MIS		2922 1960	20			2	0	U	35		S	12	A			
AUX VASES, MIS		3020 1952	420			27	0	U	39		S	15	AL			
UMARA, MIS		3115 1951	110			44	0	U	36		L	12	AC			
SPAR MTN, MIS		3140 1952	#			18	0	U	36		L	4	AC			
MCCLOSKEY, MIS		3150	#			3	0	U	33		L	5	AC			
*SUMPTER N, WHITE, 4S, 9E																
		1952	280	11.2	677.1	20	0	U	9				NL	DEV	5500	
AUX VASES, MIS		3185 1952	240			16	0	U	37		S	3	NL			
MCCLOSKEY, MIS		3312 1974	10			1	0	U			DL	4				
ULLIN, MIS		4230 1975	30			3	0	U			L	30				
*SUMPTER S, WHITE, 4-SS, 9E																
		1948	250	19.4	906.0	29	0	U	8				AF	MIS	3430	
TAR SPRINGS, MIS		2580 1948	120			13	0	U	34		S	8	AF			
BETMEL, MIS		3025	10			1	0	U	35		S	15	AF			
AUX VASES, MIS		3260	210			16	0	U	37		S	10	AF			
SUMPTER W, WHITE, 4S, 9E																
AUX VASES, MIS		3165 1952	20	0.3	24.6	2	0	U	1	37	S	5	NL	MIS	3336	
ABU 1964, REV 1969																
TAMAROA, PERRY, 4S, 1W																
		1942	340	5.0	444.8	22	0	U	9					TRN	4287	
CYPRESS, MIS		1120 1942	230			17	0	U	30	0.12	S	13	AL			
TRENTON, ORD		4135 1964	110			6	0	U	38		L	40				
*TAMAROA S, PERRY, 4S, 1W																
CYPRESS, MIS		1155 1957	250	6.9	321.0	20	0	U	12	28	S	7		MIS	1385	
TAMAROA W, PERRY, 4S, 2W																
CYPRESS, MIS		1100 1956	20	0.0	2.5	3	0	U	1	34	S	5		DEV	2902	
TAYLOR MILL, FRANKLIN, 5S, 4E																
		1949	100	21.9	113.8	10	3	U	5					MIS	4093	
UMARA, MIS		3055 1949	40			3	0	U	37		L	4				
ULLIN, MIS		3940 1961	110			7	3	U	38		L	15				
ABU 1968, REV 1977																
TEUTOPULIS, EFFINGHAM, 8N, 6E																
		1966	170	3.2	134.2	11	0	U	10					MIS	2845	

(CONTINUED ON NEXT PAGE)

TABLE 8 continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY (FT)	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL			PAY ZONE	DEEPEST TEST ZONE TH (FT)		
				1978	TO END OF 1978	COM- PLETED TO 1978	CO- MPL- ETED 1978	AB- ANU- ONED 1978	PRUD- UCING END OF YEAR	GR, API	PERC- ENT	SUL- FUR UP	KINU RUCK			THI- ESS	STR- URE
				1978	1978	1978	1978	1978	1978	1978	1978	1978	1978			1978	1978
(CONTINUEU FROM PREVIOUS PAGE)																	
TEUTOPOLIS, EFFINGHAM, 8N, 6E																	
SPAR MTN, MIS		2402	1966	160			11	0	0					L	5		
MCCLOSKEY, MIS		2530	1967	#			1	0	0					OL	4		
ST LOUIS, MIS		2570	1967	40			3	0	0					L	4		
TEUTOPOLIS 3, EFFINGHAM, 8N, 6E																	
SPAR MTN, MIS		2477	1968	50	0.4	19.6	3	0	0						MIS 2950		
MCCLOSKEY, MIS		2535	1968	#			2	0	0					OL	5		
THACKERAY, HAMILTON, 5S, 7E																	
CYPRESS, MIS		3030	1944	830	20.1	4375.9	75	1	0					S	24 A		
AUX VASES, MIS		3360	1944	760			68	1	0					S	15 AL		
OMARA, MIS		3435	1946	120			1	0	0					L	5 AC		
MCCLOSKEY, MIS		3500	1946	#			6	0	0					L	10 AC		
THOMPSONVILLE, FRANKLIN, 7S, 4E																	
OMARA, MIS		3110	1940	380	3.5	391.1	37	0	0						DEV 5400		
SPAR MTN, MIS		3190	1967	310			7	0	0					L	4		
MCCLOSKEY, MIS		3200	1940	#			1	0	0					LS	4		
ST LOUIS, MIS		3450	1967	80			19	0	0					L	10 A		
							10	0	0					L	10		
					ABU 1947, MEV 1967												
THOMPSONVILLE E, FRANKLIN, 7S, 4E																	
AUX VASES, MIS		3150	1949	180	6.4	618.9	14	0	1					S	A ML MIS 3371		
THOMPSONVILLE N, FRANKLIN, 7S, 4E																	
CYPRESS, MIS		2750	1944	870	23.6	3781.3	87	0	1					S	10 A MIS 3498		
AUX VASES, MIS		3100	1944	20			1	0	0					S	20 AL		
				860			86	0	1					S			
TILDEN, HANCOCK, 4S, 5W																	
SILURIAN		2160	1952	610	39.1	4464.9	35	0	0					L	60 H ORO 3093		
TILDEN N, ST CLAIR, WASHINGTON, HANCOCK, 3-4S, 5-6W																	
SILURIAN		2014	1968	500	36.5	817.9	31	6	0					L	70 H ORO 2810		
TOLIVER E, CLAY, 5N, 6-7E																	
CYPRESS, MIS		2510	1943	160	15.5	257.6	11	0	0						M MIS 3519		
AUX VASES, MIS		2740	1955	10			1	0	0					S	14 H		
SPAR MTN, MIS		2815	1967	20			2	0	0					S	4		
MCCLOSKEY, MIS		2840	1943	110			4	0	0					L	6 MC		
				#			4	0	0					OL	8 MC		
TOLIVER S, CLAY, 4N, 6E																	
AUX VASES, MIS		2765	1953	70	0.0	57.6	4	0	0						M MIS 2915		
MCCLOSKEY, MIS		2875	1953	10		21.0	1	0	0					S	MC		
				60		37.0	3	0	0					L	5 MC		
					ABU 1964												
TUNN, MARION, 2-3N, 2E																	
8ENDIST, MIS		1930	1939	570	96.8	14076.8	107	0	0						U ORO 4900		
AUX VASES, MIS		2005	1939	140			18	0	0					S	20 U		
SPAR MTN, MIS		2125	1939	180			26	0	0					S	30 U		
MCCLOSKEY, MIS		2130	1939	630			16	0	0					LS	12 U		
DEVONIAN		3500		80			73	0	0					OL	15 U		
				#			7	0	0					D	7 H		
TOVEY, CHRISTIAN, 13N, 3W																	
SILURIAN		1850	1955	10	0.0	28.0	1	0	0					L	10 SIL 1881		
					ABU 1973												
TRUMBULL C, WHITE, 5S, 8-9E																	
PENNSYLVANIAN		830	1944	1500	52.7	3726.0	114	1	2						A MIS 4285		
TAR SPRINGS, MIS		2528	1974	10			1	0	0					S	12		
CYPRESS, MIS		2845	1962	30			2	0	0					S	5		
BETHEL, MIS		2955	1944	420			32	0	1					S	10 A		
AUX VASES, MIS		3170	1959	50			2	0	0					S	9 A		
				520			42	0	1					S	9 A		

(CONTINUEU ON NEXT PAGE)

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- OF TM DISC- OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL		PAY ZONE	DEEPEST TEST
				1978	END OF 1978	COMP- TO 1978	CD- ETED 1978	AR- AND 1978	PROD- UCING END OF YEAR	SOL- FOR PERC- API		
(CONTINUED FROM PREVIOUS PAGE)												
*TROMBULL C, WHITE, 5S, 8-9E												
	DHARA, MIS	3230	660			19	0	0		36	L	15 AC
	SPAR MTN, MIS	3270 1946	#			13	0	0			L	6 AC
	MCCLOSKEY, MIS	3290 1947	#			19	0	0			L	5 AC
	ULLIN, MIS	4110 1978	10			1	1	0			L	20
*TROMBULL N, WHITE, 4S, 8E												
	AUX VASES, MIS	3225 1961	40	0.0	6.9	3	0	0		0		MIS 3537
	MCCLOSKEY, MIS	3466 1961	20			1	0	0		36	S	6
			20			2	0	0		37	OL	14
			ABO 1966									
TURKEY BEND, PERRY, 4S, 2W												
	IRENTON, OHIO	3940 1957	10	1.4	52.3	1	0	0		1 39	L	1 OHIO 4044
*VALIEN, FRANKLIN, 6S, 2E												
	AUX VASES, MIS	2685 1942	110	3.0	107.6	6	0	0		2		MIS 2900
	MCCLOSKEY, MIS	2715 1963	100			5	0	0		39	S	7
			10			1	0	0		39	L	12 ML
			ABO 1945, REV 1963									
VERGENNES, JACKSON, 7S, 2W												
	DEVONIAN	3300 1975	60	2.2	9.5	4	0	0		4 39	L	10 OHIO 7094
VIRGEN W, MACDOUPIN, 12N, 7W												
	DEVONIAN	1361 1963	30	0.0	0.0	2	0	0		0 38	L	20 DEV 1390
			ABO 1971									
WAGGNER *, MONTGOMERY, 11N, 5W												
	POTTSVILLE, PEN	610 1940	40	0.0	12.0	7	0	0		1 28 0.21	S	10 SIL 1945
			ABO 1949, REV 59, ABO 60, REV 63, ABO 64, REV 77									
WAKEFIELD, JASPER, 5N, 9E												
	SPAR MTN, MIS	3100 1946	40	0.0	1.7	2	0	0		0 38	L	5 MIS 3207
			ABO 1947, REV 1953, ABO 1954									
WAKEFIELD N, JASPER, 5N, 9E												
	MCCLOSKEY, MIS	3000 1953	10	0.0	23.2	1	0	0		0 37	L	6 MIS 3204
			ABO 1958									
WAKEFIELD S, RICHLAND, 5N, 9E												
	MCCLOSKEY, MIS	3040 1955	80	0.0	7.2	5	0	0		0 37	L	4 MIS 3650
			ABO 1955, REV 1969, ABO 1974									
*WALPOLE, HAMILTON, 6-7S, 6E												
	TAN SPRINGS, MIS	1941	2180	21.9	10511.9	133	0	0		58		A DEV 5325
	AUX VASES, MIS	2465	110			7	0	0		37	S	15 AL
	SPAR MTN, MIS	3070 1941	2060			121	0	0		37 0.13	S	20 A
	MCCLOSKEY, MIS	3195 1954	200			3	0	0			L	7 AC
	ST. LOUIS, MIS	3162 1960	#			10	0	0		37	OL	7 AC
		3544 1960	10			1	0	0		38	L	8 AC
WALPOLE S, HAMILTON, 7S, 6E												
	AUX VASES, MIS	3120 1951	40	0.0	123.3	2	0	0		0 37	S	6 AL MIS 3362
			ABO 1975									
WALTONVILLE, JEFFERSON, 3S, 2E												
	BENOIST, MIS	1943	60	1.3	140.2	5	0	0		3		A MIS 3375
	ST. LOUIS, MIS	2460 1943	50			4	0	0		38 0.14	S	9 A
		2767 1962	10			1	0	0		37	L	14
*WAMAC, MARION, CLINION, WASHINGTON, 1N, 1E, 1W												
	PETRO, PEN	1941	310	0.0	692.3	119	0	0		1		OF ORD 4160
	DEVONIAN	720 1921	300			117	0	0		36	S	20 OF
		3015 1959	10			1	0	0		38	L	9 OF
WAMAC E *, MARION, 1N, 1E												
	ISABEL, PEN	645 1952	140	1.0	50.6	11	0	0		4 30	S	15 ML DEV 3405
			PAY ZONE IS ISABEL (WILSON SAND), PEN									

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (+ SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY (FT)	PRODUCTION M BBLs			NUMBER OF WELLS				CHARACTER OF OIL				PAY ZONE	DEEPEST TEST ZONE (FT)	
			AREA PRD- VEU IN ACRES	OUR- ING 1978	TO END OF 1978	COMP- LETEO TO 1978	CO- MPL- ETED 1976	AB- ANU- ONED 197A	PRD- UCING END OF YEAR	SUL- FOR PERC- ENT	GR. API	KIND OF ROCK	THI- CKN- ESS			STR- UCT- UNE

WAMAC W, CLINTON, 1N, 1W																
		1962	260	23,0	983,4	28	0	1	22						DEV	3050
	CYPRESS, MIS	1512 1962	130			15	0	0		35	S	8				
	DENOIST, MIS	1466 1962	130			13	0	1		36	S	12				

WAPELLA E, DEWITT, 21N, 3E																
		1962	350	87,8	2936,2	36	0	U	36						STP	2216
	DEVONIAN	1108 1963	30			3	0	U		31	L	5				
	SILUKIAN	1112 1962	350			36	0	U		31	D	A	H			

WARKENTON-BURTON, EUGAR, COLES, 13-14N, 13-14W																
	UNNAMEU, PEN	20U 1906	470	0,1	32,1	47	0	U	1	31	S	20	ML	TRN		2212

WATERLOO, MONROE, 1-2S, 10W																
	TRENTON, OKD	41U 1920	310	11,1	254,2	52	6	U	13	30	0,97	L	50	A	PC	2768
ARU 1930, REV 1939, CONVERTED IN PART TO GAS STORAGE 1951																

WATSON, EFFINGHAM, 7N, 5-6E																
		1957	30	0,8	60,2	3	0	U	1						MIS	2647
	SPAR MTN, MIS	2415 1957	30			2	0	U				S	5			
	MCCLOSKEY, MIS	2434 1958	#			1	0	U		38	L	11				

WATSON W, EFFINGHAM, 7N, 5E																
	AUX VASES, MIS	2208 1965	10	0,4	12,7	1	0	U	1	39	S	12			MIS	2516

WAYERLY +, MORGAN, 13N, 8W																
	DEV-SIL	1U20 1946	20	0,0	0,0	1	0	U	0			L	10	A	OKO	2070
ARU, GAS STORAGE IN ST PETER AND GALESVILLE																

WAYNE CITY, WAYNE, 2S, 6E																
	SALEM, MIS	3974 1978	10	1,0	1,0	1	1	U	1			L	2A		MIS	4130

WEAVER, CLARK, 11N, 10W																
		1949	540	12,7	2385,5	44	2	U	26						DEV	2160
	COLE, MIS	1565 1953	30			1	0	U		30	S	5	U			
	DEVONTIAN	2030 1949	510			42	2	U		37	L	10	H			

WEST FRANKFORT C, FRANKLIN, 78, 2-3E																
		1941	1700	78,0	7426,8	151	0	2	56						DEV	4869
	TAK SPRINGS, MIS	2060 1941	680			70	0	1		39	0,15	S	20	A		
	AUX VASES, MIS	2710 1947	420			37	0	1		38	S	20	AL			
	UHARA, MIS	2760 1943	850			44	0	0		38	L	8	AC			
	SPAR MTN, MIS	2810	#			6	0	0			L	8	AC			
	MCCLOSKEY, MIS	2825 1947	#			21	0	U		34	L	14	AC			

WEST SEMINAV, CLAY, 2N, 7E																
		1959	320	0,0	819,9	29	0	U	2						MIS	3198
	AUX VASES, MIS	2972 1959	230			1A	0	U		37	S	10	MC			
	SPAR MTN, MIS	3059 1959	290			3	0	U			L	6	MC			
	MCCLOSKEY, MIS	3068 1959	#			14	0	U		38	PL	12	MC			

WESTFIELD, CLARK, COLES, 11-12N, 11E-14W																
		1904	9710	X	X	1868	18	1	264						STP	3009
	GAS, PEN	280	1590			256	12	1		28	S	25	U			
	WESTFIELD, MIS	335	8910			43	6	U		32	L	X	U			
	CAMPER, MIS	875	580			28	0	U		38	S	18	U			
	TRENTON, OKD	2300	1710			87	0	U		38	0,18	L	40	U		
SEE CLARK COUNTY DIVISION FOR PRODUCTION																

WESTFIELD E +, CLARA, 11-12N, 14W																
	PENNSYLVANIAN	40U 1947	310	2,4	12,2	44	0	U	31	28	S	11	ML	MIS		795

WESTFIELD N, COLES, 12N, 14W																
		1949	20	0,0	0,4	2	0	U	0						PEN	611
	PLEASANTVIEW, PEN	275 1949	20		0,4	1	0	U		28	S	5				
	PENNSYLVANIAN	490 1949	#			1	0	U			S	10				
ARU 1957																

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR DEP- OF TH DISC- (FT) UVERY	AREA PRU- VEU ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE			DEEPEST TEST ZONE TH (FT)	
				1978	TO END OF 1978	CUM- PLETE 1978	CO- MPL- 1978	AB- AND 1978	PRUD- UCING END OF YEAR	SUL- FUR- PERC- ENT	KINU OF RUCK	TMI- CCKN- ESS	STR- UCT- UWE			
														GR, API		PERC- ENT
*WHITEASM, WILLIAMSON, 0S, 2E																
AUX VASES, MIS		1972	70	2,2	25,1	5	0	0	4						MIS	2851
UMARA, MIS		2484 1973	80			4	0	0				S	12			
UMARA, MIS		2532 1972	20			2	0	0				L	A			
*WHITTINGTON, FRANKLIN, 5S, 3E																
MARDINSBURG, MIS		1939	1080	72,0	2781,8	20	3	0	51					A	DEV	4810
CYPRESS, MIS		2510 1948	430			28	0	0				S	10	A		
BETHEL, MIS		2535	240			16	0	0				S	10	A		
AUX VASES, MIS		2612 1961	80			3	0	0				S	4	A		
UMARA, MIS		2735	120			11	0	0				S	15	A		
SPAR MTN, MIS		2835	410			13	0	1				L	10	AC		
MCCLOSKEY, MIS		2880	#			8	1	1				L	10	AC		
ST. LOUIS, MIS		2870 1939	#			7	0	0				S	0,24	L	9	AC
SALEM, MIS		3080 1959	70			8	3	0				S	0,24	L	6	AC
ULLIN, MIS		3500 1977	40			3	2	0				L	10			
ULLIN, MIS		3560 1977	20			1	0	0				L	7			
*WHITTINGTON S, FRANKLIN, 5-6S, 3E																
CYPRESS,		580 1950	120	2,4	478,9	10	0	0	10	35		S	10	A	MIS	3904
*WHITTINGTON W, FRANKLIN,																
BENDIST, MI		1943	670	0,1	1571,2	38	0	0	2					A	MIS	3535
RENAULT, MI		2615 1949	10			1	0	0				S	10	AL		
AUX VASES, MI		700 1958	480			21	0	0				L	4	A		
UMARA, MIS		700 1944	180			13	0	0				S	15	AL		
SPAR MTN, MIS		2600 1943	110			5	0	0				L	5	AC		
MCCCLUSKY, MIS		U 1947	#			2	0	0				L	4	AC		
MCCCLUSKY, MIS		U	#			3	0	0				L	6	AC		
*WILBERTON, FAYETTE, 5N, 2-3E																
BOWDEN, MIS		1959	1070	24,8	1807,7	58	0	0	36						ORD	4528
CAMPER, MIS		2628 1983	10			1	0	0				S	58			
LINGLE, DEV		3203 1981	1080			46	0	0				S	59			
LINGLE, DEV		3466 1959	60			5	0	0				S	4			
*WILLIAMS C, JEFFERSON, 2-3S, 2E																
BENDIST, MIS		1948	490	12,2	1394,6	45	0	1	31					A	DEV	4578
AUX VASES, MIS		2490 1949	230			17	0	0				S	10	AL		
MCCCLUSKY, MIS		2550 1949	400			29	0	1				S	5	AL		
MCCCLUSKY, MIS		2600	10			1	0	0				L		AC		
*WOMURN C, BUNU, 6-7N, 2W																
CYPRESS, MIS		1940	1430	21,7	4544,4	139	0	2	52					A	ORD	3290
BENDIST, MIS		865 1950	310			20	0	0				S	8	AL		
RENAULT, MIS		1020 1940	340			38	0	0				S	0,20	S	10	AL
AUX VASES, MIS		1047 1958	10			1	0	0				L	4	AL		
LINGLE, DEV		1055 1956	140			5	0	0				S	10	AL		
TRENTON, ORD		2275 1949	720			56	0	1				S	8	AC		
TRENTON, ORD		3170 1947	350			22	0	1				S	0,27	L	17	A
*WOODLAWN, JEFFERSON, 2-3S, 1-2E																
EAR SPRINGS, MIS		1940	1900	53,9	18247,1	194	0	2	69					A	ORD	5101
CYPRESS, MIS		1440	30			3	0	0				S	4	AL		
BENDIST, MIS		1800 1943	180			3	0	0				S	10	AL		
SPAR MTN, MIS		1960 1940	1860			175	0	2				S	0,16	S	25	A
AUX VASES, MIS		1975 1945	270			24	0	0				S	10	A		
RENAULT, MIS		2205 1947	240			15	0	0				S	15	A		
MCCCLUSKY, MIS		2200 1948	#			1	0	0				L	3	A		
LINGLE, DEV		3690 1945	70			11	0	0				S	6	A		
*ZENIA, CLAY, 2N, 5E																
AUX VASES, MIS		1941	120	0,0	46,7	8	0	0	3					A	DEV	4745
CAMPER, MIS		2785 1941	10			1	0	0				S	0,14	S	13	A
CAMPER, MIS		4230 1962	110			7	0	0				S	12			
*ZENIA E, CLAY, 2N, 5E																
CYPRESS, MIS		1951	300	8,7	920,4	29	0	2	10					A	MIS	4620
BENDIST, MIS		2500 1951	260			18	0	1				S	6	AL		
RENAULT, MIS		2710	110			9	0	1				S	6	AL		
AUX VASES, MIS		2755 1959	20			2	0	0				S	15	AL		
AUX VASES, MIS		2741 1960	50			3	0	0				S	10	A		

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (# SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL		PAY ZONE			DEEPEST TEST ZONE (FT)	
				DUR- ING 1978	TO END OF 1978	TO END OF 1978	COM- PLET- ED TO END OF 1978	CU- MPL- ETED AND 1978	AB- AND 1978	PROD- UCING END OF YEAR	BUL- FUR KIND OF ROCK	PERC- ENT	OF ESS	STR- UCT- URE		
YALE, JASPER, 8N, 11E																
		1966	80	2.6	0.2	7	3	0	5						MIS	2525
	SPAR MTN, MIS	2070	80			1	0	0				L	10			
	MCCLOSKEY, MIS	2140	0			6	3	0	37			L	6			
NEW YORK, CUMBERLAND, CLARK, 9-10N, 10-11E, 14W																
	ISABEL, PEN	590	410	X	X	79	0	0	10	31	8	15	AM	DEV	2642	
SEE CLARK COUNTY DIVISION FOR PRODUCTION, ABO 1945, REV 1950																
WEIGLER, FRANKLIN, 7S, 2E																
	AUX VASES, MIS	2614	350	18.6	2102.3	34	0	0	33	37	S	19		MIS	3030	
ZENITH, WAYNE, 2N, 5E																
		1948	50	0.0	24.6	5	0	0	2					MIS	3601	
	MCCLOSKEY, MIS	2970	40			4	0	0	38		L	7	AC			
	ST LOUIS, MIS	3088	10			1	0	0			L	6				
ABO 1956, REV 1969, ABO 1970, REV 1973																
ZENITH E, WAYNE, 1N, 6E																
	SPAR MTN, MIS	3170	250	2.4	535.4	14	0	0	11	37	L	10		MIS	3850	
ZENITH N, WAYNE, 2N, 6E																
		1951	440	31.8	1427.6	33	1	0	20					MIS	3935	
	SPAR MTN, MIS	3080	280			15	0	0	38		L	6	NC			
	MCCLOSKEY, MIS	3140	#			6	0	0			L	4	NC			
	SALEM, MIS	3634	250			16	1	0			L	4	NC			
ZENITH S, WAYNE, 1N, 5E																
		1949	300	0.0	765.9	15	0	0	0					MIS	3027	
	OMARA, MIS	2920	300			2	0	0			L	4	MC			
	MCCLOSKEY, MIS	2985	#			13	0	0	37		L	7	MC			
ABO 1966, REV 1967, ABO 1970																
TOTAL			614,570		3,101,784.0	548			23,914							
			23,361.9			67,735		412								

TABLE 9. Illinois gas field statistics, 1978

Field: N, North; S, South; E, East; W, West; C, Consolidated.
 Fields located in two or more counties have county names listed in order of discovery.

Age: Pc, Precambrian; Cam, Cambrian; Ord, Ordovician; Shk, Shakopee; St. P, St. Peter; Trn, Trenton; Sil, Silurian; Dev, Devonian; Mis, Mississippian; Pen, Pennsylvanian.

Structure: A, anticline; D, dome; F, faulting an important factor in gas accumulation; f, faulting a minor factor in gas accumulation; L, lens; M, monocline; R, reef; X, structure not determined. Combinations of the letters are used where more than one factor applies.

Kind of rock: D, dolomite; L, limestone; LS, sandy limestone; S, sandstone.

* Correct figure not determinable.
 * Field also listed in table 8 (oil production).

Abd: Field abandoned. Rev: Field revived.

-- Gas storage project.

Field; county; location by township and range	Pay zone		Year of discovery	Area proved in acres	Gas production million cu ft		Number of wells			Producing end of year	Pay zone		Deepest test		
	Name and age	Depth (ft)			During 1978	To end of 1978	Completed to end of 1978	Completed in 1978	Abandoned 1978		Kind of rock, average thickness in feet, structure	Zone	Depth (ft)		
Albion C*; Edwards, White; 3S; 10E															
	Pennsylvanian	1,490	1940	50	0	0	0	0	0	0	S 6	MF	Dev	5,185	
Alhambra; Madison; 5N; 6W															
	Pennsylvanian	600	1974	20	0	0	1	0	0	0	S 6	X	Sil	2,005	
Ashmore E*; Edgar; 13N; 14W															
	Pennsylvanian	367	1973	20	0	0	2	0	0	0	S 22	X	Dev	1,228	
Ashmore S* ^{††} ; Clark, Coles; 12N; 10-11E, 14W															
	Unnamed, Pen	430	1958	460	0	*	23	0	0	0		A	Trn	2,260	
	Osage, Mis	385	1963	440	20		22				S	x A			
				20			1				S	x X			
Ava-Campbell Hill*; Jackson; 7S; 3-4W															
	Cypress, Mis	780	1916	370	0	*	20	0	0	0	S 18	A	Trn	3,582	
					Abd 1943; rev (oil) 1956; abd 1957										
Ayers Gas; Bond; 6N; 3W															
	Benoist, Mis	940	1922	325	0	298.7	21	0	0	0	S 5	A	Ord	3,044	
					Abd 1950										
Beaver Creek N*; Bond; 4N; 2W															
	Benoist, Mis	1,132	1965	40	0	0	1	0	0	0	S	x X	Dev	2,556	
Beaver Creek NE Gas ^{††} ; Bond; 4N; 2W															
	Benoist, Mis	1,126	1961	70	0	*	7	0	0	0	S 5		Sil	2,487	
Beaver Creek S*; Bond, Clinton; 3-4N; 2W															
	Cypress, Mis	1,015	1946	280	0	0	8	0	0	0	S 20	A	Sil	2,606	
Beckemeyer Gas*; Clinton; 2N; 3W															
	Cypress, Mis	1,070	1956	90	0	0	2	0	0	0			Sil	2,730	
	Benoist, Mis	1,155	1975	80			1				S 23				
				10			1				S 13				
					Aoo 1958; rev 1975										
Bellair*; Crawford; 8N; 14W															
	Carper, Mis	1,772	1970	10	0	0	1	0	0	0	S 45		Dev	2,732	
Beverly Gas; Adams; 3S; 5W															
	Silurian	450	1957	80	0	0	2	0	0	0	L 6	X	St. P	840	
Black Branch E*; Sangamon; 15N; 4W															
	Silurian	1,695	1969	20	0	0	1	0	0	0	L 23		Sil	1,755	
Boulder*; Clinton; 2-3N; 2W															
	Geneva, Dev	2,630	1941	320	0	0	4	0	0	0	D 7	R	Trn	3,813	
					Abd 1965										

TABLE 9 - continued

Field; county; location by township and range	Pay zone		Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells			Pro- duction; end of year	Pay zone			Depth feet	
	Name and age	Depth (ft)			During 1978	To end of 1978	Completed to end of 1978	Com- pleted in 1978	Aban- doned 1978		Kind of rock, average thickness in feet, structure	Zon	beds (ft)		
Boulder E*; Clinton; 3N; 1W															
	Devonian	2,840	1957	80	0	0	2	0	0	0	L 12	X	S11	2,946	
					Abd 1957										
Carlinville*; Macoupin; 9N; 7W															
	Unnamed, Pen	365		60	0	0	6	0	0	0	S	X	A	Mis	1,380
					Abd 1925; rev 1942										
Carlinville N*; Macoupin; 10N; 7W															
	Pottsville, Pen	440	1941	40	0	0	1	0	0	0	S	10	X	Trn	1,970
					Abd 1954										
Carlyle*; Clinton; 2N; 3W															
	Cypress, Mis	1,015	1958	20	0	X	2	0	0	0	S	X	AL	St. P	4,120
Casey*; Clark															
	Casey, Pen	440		X	0	X	X	0	0	0	S	X	AM	Trn	2,608
Claremont; Richland; 3N; 14W															
	Spar Mtn, Mis	3,200	1950	160	0	0	1	0	0	0	L	5	MC	Mis	3,340
					Abd 1952										
Cooks Mills C* ^{††} ; Coles, Douglas; 14N; 7-8E															
			1941	950	0	1,895.4	23	0	0	0			A	Dev	3,059
	Cypress, Mis	1,600		680			14				S	10	A		
	Aux Vases, Mis	1,800		40			1				S	8	A		
	Spar Mtn, Mis	1,765		450			6				S	15	A		
Cooperstown; Brown; 1S; 2W															
	Silurian	516	1977	10	0	0	1	0	0	0	L	6	X	Sil	516
Corinth S; Williamson; 9S; 4E															
	Hardinsburg, Mis	2,232	1970	60	0	147.4	4	0	0	0	S	4		Mis	2,823
Dubois C*; Washington; 3S; 1-2W															
	Cypress, Mis	1,220	1939	400	0	0	10	0	0	0	S	10	AL	Ord	4,217
Dudley*; Edgar; 14N; 13W															
	Pennsylvanian	300	1948	170	0	X	5	0	0	0	S	20	M	St. P	2,997
Dudley W Gas; Edgar; 13N; 13W															
	Gas, Pen	380	1953	130	0	0	4	0	0	0	S	11	X	Pen	478
Eden Gas ^{††} ; Randolph; 5S; 5W															
	Cypress, Mis	875	1962	1,000	9.6	357.9	15	0	0	3	S			Mis	2,377
Eldorado C*; Saline; 8S; 7E															
			1941	300	17	3,727	18	0	0	1			A	Mis	3,606
	Palestine, Mis	1,920		120			3				S	20	AL		
	Waltersburg, Mis	2,055		80			2				S	20	AL		
	Tar Springs, Mis	2,225		40			4				S	17	AL		
	Hardinsburg, Mis	2,353	1962	120			4				S	5			
	Cypress, Mis	2,460		80			2				S	20	X		
Eldorado E*; Saline; 8S; 7E															
			1953	120	35.3	1,011.7	10	0	1	1			A	Mis	3,666
	Palestine, Mis	1,900		80			5	0	0		S	30	AL		
	Tar Springs, Mis	2,135		20			5	0	1		S	20	AL		
	Cypress, Mis			10			1	0	0						
Eldorado W*; Saline; 8S; 6E															
				20	9.3	9.3	2	1	0	1				Mis	3,135
	#6 Coal, Pen	390	1978	10			1	1	0				X		
	Palestine, Mis	1,923	1960	10			1	0	0		S	27	X		

TABLE 9--continued

Field; county; location by township and range	Pay zone		Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells			Pay zone			Deepest test		
	Name and age	Depth (ft)			During 1978	To end of 1978	Completed to end of 1978	Com- pleted in 1978	Aban- doned 1978	Pro- ducing end of year	Kind of rock, average thickness in feet, structure			Zone	Depth (ft)
Ficklin; Douglas; 16N; 8E															
	Spar Mtn, Mis	1,444	1966	40	0	0	1	0	0	0	S	20	X	Cam	5,301
Fishhook Gas; Adams, Pike; 3-4S; 4-5W															
	Edgewood, Sil	450	1955	7,260	0	0	69	0	0	0	L	5	X	St. P	1,018
Freeburg* ^{††} ; St. Clair; 1-2S; 7W															
	Cypress	380	1956	700	0	x	29	0	0	0	S	30	X	Ord	2,008
Gillespie-Benld (Gas) ^{††} ; Macoupin; 8N; 6W															
	Unnamed, Pen	540	1923	80	0	135.8	5	0	0	0	S	x	A	Pen	603
					Abd 1935										
Gillespie W; Macoupin; 8N; 7W															
	Unnamed, Pen	525	1958	10	0	0	1	0	0	0	S	x	X	Pen	565
					Abd 1976										
Grandview-Inclose; Clark, Edgar; 12-13N; 13-14W															
			1941	1,030	37.2	x	44	2	0	18			M	Ord	2,694
	Gas, Pen	400		990			43	2	0		S	x	ML		
	Salem, Mis	570		40			0	0	0		L	2	ML		
Greenville Gas*; Bond; 5N; 3W															
	Lindley (1st and 2nd), Mis	925	1910	180	0	990	4	0	0	0	S	x	A	Trn	3,184
					Abd 1923; rev 1957; abd 1958										
Harco, Harco E, Harco S, and Raleigh S*; Saline; 8S; 5E															
	X, Mis	x	1954	x	15.9	2,389.1	x	0	0	1				Mis	3,455
Harrisburg*; Saline; 8S; 6E															
	Tar Springs, Mis	2,085	1952	160	0	93.2	1	0	0	0	S	6	X	Mis	2,930
					Abd 1971										
Herald C*; Gallatin, White; 6-8S; 9-10E															
			1939	1,080	0	x	19	0	0	0			A	Dev	5,285
	Anvil Rock, Pen	700		360			9				S	25	AL		
	Pennsylvanian	1,750		120			3				S	18	AL		
	Waltersburg, Mis	2,240		120			3				S	10	A		
	Tar Springs	2,315		480			4				S	6	AL		
Hutton C*; Coles; 11N; 10E															
	Pennsylvanian	620	1965	80	0	0	2	0	0	0	S	x	X	Mis	969
Jacksonville (Gas)*; Morgan; 15N; 9W															
	Gas, Pen, Mis	330	1910	1,320	0	x	45	0	0	0	LS	5	ML	Ord	1,390
					Abd 1939										
Johnston City E; Williamson; 8S; 3E															
	Tar Springs, Mis	1,930	1965	80	13.2	931.3	4	0	0	3	S	10	X	Mis	2,997
Kansas Gas; Edgar; 13N; 14N															
	Unnamed, Pen	410	1958	30	0	x	3	0	0	0	S	x	X	Mis	778
Keenville; Wayne; 1S; 5E															
	Salem, Mis	3,620	1978	x	135	135 (Gas from oil wells)					L	8		Mis	4,050
Lawrence; Lawrence; 3N; 12W															
	McClosky, Mis	2,050	1975	10	0	0	1	0	0	0	L	x		Cam	9,261

TABLE 9—continued

Field; county; location by township and range	Pay zone		Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells				Pay zone			Deepest test	
	Name and age	Depth (ft)			During 1978	To end of 1978	Completed to end of 1978	Com- pleted in 1978	Aban- doned 1978	Pro- ducing end of year	Kind of rock, average thickness in feet, structure			Zone	Depth (ft)
Livingston E; Madison; 6N; 6W	Pennsylvanian	540	1951	60	0	0	3	0	0	0	S	12	X	Mis	815
Livingston S*; Madison; 6N; 6W	Pennsylvanian	530	1950	40	0	0	1	0	0	0	S	2	ML	Sil	1,735
Louden*††; Fayette; 7N; 3E			1937	1,760	65.5	×	14	0	0	×	S	20	A	Pc	8,616
	Burtschi, Pen	1,000		320			5				S	20	AL		
	Tar Springs, Mis	1,170		1,440			9				S	2	AL		
Main C*; Crawford, Lawrence; 5-8N; 10-14W			1906	×	0	×	×	5	0	0			M	St. P	5,317
	Robinson, Pen	1,000		×			×	5	0		S	×	ML		
	Hardinsburg, Mis	1,075		160			1	0	0		S	40	ML		
	Cypress, Mis	1,425		320			2	0	0		S	6	ML		
	Aux Vases, Mis	1,527	1959	60			6	0	0		S	8	ML		
Marion E*; Williamson; 9S; 3E	Aux Vases, Mis	2,406	1966	40	0	0	1	0	0	0	S	4	X	Mis	2,642
Marissa W(Gas)*; St. Clair; 3S; 7W	Cypress, Mis	241	1960	60	0	×	7	0	0	0	S	25		Ord	2,413
Mattoon*; Coles; 12N; 7E	Devonian	3,124	1948	1,020	687.8	7,464	34	2	0	16	L	4		St. P	4,915
Mt. Olive*; Montgomery; 8N; 5W	Pottsville, Pen	605	1942	100	0	×	4	0	0	0	S	6	A	Sil	1,878
New Athens Gas; St. Clair; 2S; 7W	Cypress, Mis	250	1961	250	98.1	98.1	10	0	0	3	S	13		Mis	400
New Harmony C*; White, Wabash, Edwards; 1N; 1-5S; 13-14W	Pennsylvanian	764	1974	10	0	0	1	0	0	0	S	12		Shk	7,682
New Hebron E*; Crawford; 6N; 12W	Robinson, Pen	866	1968	30	0	0	3	0	0	0	S	×	X	Mis	1,571
Omaha*; Gallatin; 7-8S; 8E			1940	130	0	221.4	4	0	0	0			D	Dev	5,320
	Palestine, Mis	1,865	1973	10			1	0	0		S		D		
	Tar Springs, Mis	1,900	1940	120			3	0	0		S	15	D		
Panama*; Bond, Montgomery; 7N; 3-4W			1940	280	0	×	7	0	0	0			A	Ord	2,950
	Pennsylvanian	575		160			4				S	30	A		
	Benoist, Mis	865		120			3				S	12	A		
Pittsburg N Gas*; Williamson; 8S; 3E	Hardinsburg, Mis	2,151	1962	20	0	10	2	0	0	0	S	6		Mis	3,070
Pittsfield (Gas); Pike; 5S; 4-5W	Niagaran, Sil	265	1886	8,960	0	×	68	0	0	0	L	10	A	Pc	2,226
							Abd 1930								
Plainview*; Macoupin; 8N; 8W	Pennsylvanian	441	1961	20	0	0	3	1	0	0	S	20	X	Pen	563

TABLE 9--continued

Field; county; location by township and range	Pay zone		Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells			Pay zone			Deepest test		
	Name and age	Depth (ft)			During 1978	To end of 1978	Completed to end of 1978	Com- pleted in 1978	Aban- doned 1978	Pro- ducing end of year	Kind of rock, average thickness in feet, structure		Zone	Depth (ft)	
Prentice*; Morgan; 16N; 8W															
	Pennsylvanian	260	1953	290	0	0	7	0	0	0	S 15	X	Ord	1,513	
Raleigh*; Saline; 8S; 6E															
	Waltersburg, Mis	2,307	1962	50	8.3	562.5	2	0	0	1	S 7	X	Dev	5,511	
Redmon N; Edgar; 14N; 13W															
	Pennsylvanian	365	1955	50	0	0	2	0	0	0	S 3	X	Mis	450	
Richwood (Gas)†; Crawford; 6N; 11W															
	Pennsylvanian	612	1959	160	0	28.6	4	0	0	0	S 9	X	Pen	1,001	
Roland C*; Gallatin; 7S; 8E															
	Waltersburg, Mis	2,150	1940	160	0	0	1	0	0	0	S 19	AL	Dev	5,266	
Russellville Gas*; Lawrence; 4-5N; 10-11W															
	Bridgeport, Pen	760	1937	1,800	0	7,081.6	60	0	0	0	S 15	A	Dev	3,133	
	Buchanan, Pen	1,100		x		x	18				S 12	AL			
				x		x	42								
					Abd 1949										
St. Libory; St. Clair; 1S; 6W															
			1964	240	0	0	7	0	0	0			Sil	1,997	
	Cypress, Mis	622	1965	40			1				S 11	X			
	Benoist, Mis	754	1964	40			1				S 22	X			
	Aux Vases, Mis	825	1964	120			4				S 10	X			
	Silurian			120			3				L	X			
Spanish Needle Creek (Gas); Macoupin; 9N; 7W															
	Unnamed, Pen	305	1915	80	0	14.4	7	0	0	0	S x	D	Trn	2,070	
					Abd 1934										
Sparta*; Randolph; 4-5S; 5-6W															
	Cypress, Mis	850	1888	160	0	x	18	0	0	0	S 7	D	Trn	3,130	
					Abd 1900										
Staunton (Gas)*; Macoupin; 7N; 7W															
	Unnamed, Pen	460	1916	400	0	1,050	18	0	0	0	S x	A	Ord	2,371	
					Abd 1919										
Stiritz*; Williamson; 8S; 2E															
	Tar Springs, Mis	1,951	1971	10	0	68.1	1	0	0	1	S 14		Mis	2,756	
Storms C*; White; 5-6S; 9-10E															
			1939	440	0	x	9	0	0	0			A	Dev	5,174
	Gas, Pen	1,090		170			2				S 40	Af			
	Waltersburg, Mis	2,230		280			7				S 15	AL			
Stubblefield S*; Bond; 4N; 4W															
			1962	240	26.8	357.1	11	1	0	3			Dev	2,455	
	Pennsylvanian	590	1971	20				1			S x	X			
	Cypress, Mis	920	1962	220				0			S x	X			
Sumner S (Gas); Lawrence; 3N; 13W															
	Aux Vases, Mis	2,566	1959	40	0	0	2	0	0	0	S 10		Mis	2,990	
Tamaroa*; Perry; 4S; 1W															
	Cypress, Mis	1,120	1942	20	0	0	2	0	0	0	S 13	AL	Trn	4,287	
Tilden N Gas††; Washington, St. Clair; 3S; 5-6W															
	Cypress, Mis	780	1961	x	0	x	x	0	0	0	S 25		Ord	2,810	

TABLE 9—continued

Field; county; location by township and range	Pay zone		Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells			Pro- ducing end of year	Pay zone			Deepest test		
	Name and age	Depth (ft)			During 1978	To end of 1978	Completed to end of 1978	Com- pleted in 1978	Aban- doned 1978		Kind of rock, average thickness in feet, structure	Zone	Depth (ft)			
Waggoner*; Montgomery; 11N; 5W																
	Pottsville, Pen	523	1959	10	0	0	1	0	0	0	S	2	X	S11	1,945	
Wamac E*††; Marion; 1N; 1E																
	Petro, Pen	856	1958	90	0	x	9	0	0	0	S	x	M	Dev	3,405	
Waverly*††; Morgan; 13N; 8W																
			1946	900	0	0	8	0	0	0				A	Ord	2,070
	Pennsylvanian	250		160			1				S	13	AL			
	Devonian	1,000		700			6				L	10	A			
	Trenton, Ord	1,513	1963	40			1				L	x	X			
Westfield E*; Clark; 12N; 14W																
	Pennsylvanian	400	1947	60	0	0	3	0	0	0	S	11	ML	Mis	795	
Totals for Illinois (estimated)				33,480	1,159.2	28,841.7	800	12	1	51						

Part II. Waterflood Operations

SUMMARY OF SECONDARY RECOVERY OPERATIONS

During 1978, 5 waterflood projects were reported for the first time by their respective operators. Six waterfloods were reported abandoned during the year or earlier.

Data for older waterfloods, active and abandoned, and information for the newly reported projects is included in table 11 and summarized in tables 10, 12, 13, and 14.

A total of 1,425 pay acres was added in 1978 to the pay area under fluid injection, bringing the total to 417,242 acres. Pressure maintenance area remains at 5,378 acres, and waterflood acreage is 411,864. Total pay acreage in Illinois, primary and secondary, increased to 797,835 at the end of 1978. Waterflood acreage is 51.6 percent of the total pay area in Illinois.

Secondary recovery oil was estimated to be 13,316,300 barrels, a decline of 6 percent from 1977. Waterfloods accounted for 13,163,400 barrels or 56.3 percent of the total oil produced during 1978 in Illinois; pressure maintenance projects reported 152,900 barrels or 0.7 percent of the total oil produced during 1978.

The assistance of the operators in making their waterflood data available to the Illinois State Geological Survey is acknowledged with thanks.

EXPLANATION OF TABLES

Table 10, "Project Numbers by County and Summary of Waterflood Projects in 1978," lists the counties having waterflood activity and the

range of county numbers, and includes the number and status of projects in each county.

Table 11, "Waterflood Operations in Illinois, 1978," is a summary of the data for each secondary recovery project, active and abandoned. Most of the data supplied by the operator are incorporated in this table. If no data are reported to the Illinois State Geological Survey for a project, an estimate of the information is made on the basis of past performance.

Table 12, "Illinois Waterfloods for 1978 by Counties," is a summary of waterflood data for each county. For those waterfloods that are located along county lines and extend into more than one county, the project is assigned to the county in which the larger areal portion is located. Data are tabulated as though the entire project were in that county.

Table 13, "Illinois Oil Fields Having Active Waterfloods During 1978," is a tabulation of statistics for those fields in which secondary recovery oil is being produced.

Table 14, "Summary of Waterflood Statistics 1949-1978," is a tabulation of waterflood data, compiled on an annual basis for the past 30 years.

CONCLUSIONS

In spite of the fact that waterflood operations appear to have been applied to almost all of the productive acreage in Illinois in which waterflooding is feasible, the total secondary recovery acreage is only slightly more than 50 percent of the total productive acreage. This relationship has existed for the past 11 years and will probably continue into the future.

ABBREVIATIONS

The following abbreviations are used in tables 10 through 14:

abd - abandoned	incl - includes, including, included
adj - adjacent	inj - injection
cumi - cumulative	N.A. - not available
D.F. - dump flood	op - operator, operation
disc - discontinued	P.M. - pressure maintenance
est - estimate, estimated	prim - primary
excl - excludes, excluding, excluded	prod - production
form - formerly	S.D. - shut down
	temp - temporary, temporarily

TABLE 10. Project numbers by county and summary of waterflood projects in 1978

Range of county numbers	County	Active water-floods	Active pressure maintenance	Abandoned	Total
001-007	Bond	4	0	3	7
100-107	Christian	8	0	0	8
200-231	Clark	7	0	21	28
300-393	Clay	50	0	41	91
400-420	Clinton	14	1	6	21
500-525	Coles	11	0	15	26
589-698	Crawford	44	0	48	92
700-708	Cumberland	5	0	3	8
800-802	Douglas	0	0	3	3
900-907	Edgar	7	0	1	8
1000-1040	Edwards	24	1	16	41
1100-1121	Effingham	18	0	4	22
1200-1255	Fayette	47	0	8	55
1300-1344	Franklin	26	0	18	44
1400-1458	Gallatin	29	0	30	59
1500-1578	Hamilton	29	0	48	77
1900-1931	Jasper	15	0	16	31
2000-2037	Jefferson	23	1	13	37
2200-2295	Lawrence	66	0	27	93
2300-	Macon	0	0	1	1
2400-	Macoupin	1	0	0	1
2500-2509	Madison	7	0	3	10
2600-2640	Marion	28	0	12	40
2900-	Montgomery	0	0	1	1
3100-3101	Perry	2	0	0	2
3400-3449	Richland	23	0	26	49
3600-3627	Saline	16	0	11	27
3800-3803	Shelby	3	0	1	4
3837-3999	Wabash	83	0	70	153
4000-4026	Washington	25	0	2	27
4046-4199	Wayne	91	0	61	152
4200-4457	White	153	0	105	258
4501-4505	Williamson	5	0	0	5
	Total	864	3	614	1,481

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)								
FIELD, COUNTY PROJECT NO., OPERATOR		PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION			
* = A&O # = P.M. # = A&O & P.M.					TOTAL 1978	CUM. 12/78	TOTAL 1976	CUM. 12/78	TOTAL 1976	CUM. 12/78		
AB LAKE W, GALLATIN		AR LAKE WEST UNIT AB LAKE WEST UNIT GOLEEN-CUNN	WALTERSBURG	30,31-85-10E								
1417	COY OIL CO				AUX VASES	30,31-85-10E	1091	219	184	526*		
1421	COY OIL CO				WALTERSBURG	29,31,32-63-10E	400	70*	400*			
*1452	PAUL S. KNIGHT											
ADEN C, HAMILTON, WAYNE		SW FAIRFIELD UNIT NORTH ADEN UNIT	AUX VASES MCCLOSKEY	22-25-7E	12	1634	1.2	136	12	78*		
4158	FAIRFIELD OIL CO				AUX VASES	26,32,33-25-7E	656*	1367**	15.6*	36**	656*	1367**
4181	M ANU M OIL CO,				AUX VASES	4,5,8-35-7E		18660**				
4101	TEXACO, INC.	ADEN SOUTH	AUX VASES	8,9,16,17,20-35-7E		613b	1050		841b			
*4102	TEXACO, INC.	ADEN SOUTH	MCCLOSKEY	8,9,16,17,20-35-7E		650b	860					
ADEN S, HAMILTON		SOUTH ADEN UNIT	AUX VASES SPAR MTN MCCLOSKEY	29,30-38-7E	2477		17b					
*1521	M. WEINERT EST.											
AKIN, FRANKLIN		LAND TRUSTEE & U AKIN SE U U & COAL & COKE U S STEEL AKIN UNIT	AUX VASES	36-65-4E		109						
1310	C. E. BREHM				AUX VASES	25-65-4E	2341	0.7	259			
1311	C. E. BREHM				CYPRESS	23-65-4E		129	42		320*	
1317	C. E. BREHM				AUX VASES	26-65-4E	10	604	1.5	137	10	299*
1321	C. E. BREHM				AUX VASES	35-65-4E	10*	360**	0.6*	60*	10*	148*
1327	FAWRAR OIL CO.											
ALBION C, EDWARDS, WHITE		SOUTH ALBION U BIEHL ALBION L BIEHL U M, MILK	BIEHL	1,2-35-10E	75*	3545*	6.3*	519*	75*	2459*		
1001	ACME CASING				BIEHL	1-35-10E; 135,36-9-10E		3226		704		2367
1011	ACME CASING	BRIUGEPURT	24-28-10F	75	2475*	3.6*	155*	75*	2162*			
1002	NICK BARARE	WALTERSBURG OMAHA BIEHL	11-35-10E			4.1*	139*	25*	525*			
1020	C. E. BREHM	NORTH CROSSVILLE UNIT	CYPRESS	27,34,35-35-10E	3620		313		1270			
*4201	CONCHO PET. CO,	N. LAUSSVILLE U	TAR SPRINGS	34,35-35-10E	868		56		69			
*4202	CONCHO PET. CO,	STAFFORD	MCCLOSKEY	13-28-10E	625		43		637			
1014	CONTINENTAL OIL	HORTON-WORKS	MCCLOSKEY	13-25-10E	2000		126**		2050*			
1038	DELTA OIL CORP.	BROWN	AUX VASES	6-25-11E	120		14**		100*			
*1015	FIRST NATL PET	SW ALBION BIEHL SD U	BIEHL	2,11,14-35-10E	457	21885	20.0	1725	426	11821		
1006	GETTY OIL CO	MAXWELL-MOSSBARGER	REYSEL	15-35-10F	50*	549*	2.3*	39*	50*	549*		
1026	J&H OIL CO	BIEHL U 1	BIEHL	22,23-35-10E	147	9821	4.4	1355	69	3974		
4200	MOBIL OIL COMP.	M GRAYVILLE U	REYSEL	23-35-10F	97	2640	5.0	413	35	419		
4308	MOBIL OIL COMP.	AUX VASES	AUX VASES	1-25-10E; 16-25-11E	59	2149	3.6	196	60	1166		
1005	BERNARD PODOLSKY	KK EAST ALBION UNIT	AUX VASES	6-25-11E, 1-25-10E	30*	1614*	3.6*	114*	30*	353*		
1035	KK PET. CORP.	BIEHL U 2	BIEHL	14-35-10E		4194*	0.10*		1215*			
*1000	REBSTOCK OIL CO,	EAST ALBION UNIT	AUX VASES	36-15-10E, 31-15-11E		1756	198		469			
1018	REBSTOCK OIL CO,	ROBTNSUN	TAR SPRINGS	23-38-10E	10	204*	0.7*	14*	10*	158*		
321	J. W. KUDY DRILL,	GRIESBAUM	BETHEL CYPRESS	26-35-10E	52	302*	2.9*	27*	52*	298*		
4434	J. W. KUDY DRILL,	AUX VASES	RETHFL									
1012	SABER OIL CO	BUNTING LSE	OMAHA	12-25-10E	85*	1255*	5.1*	152**	85*	1255*		
1033	SABER OIL CO	ALBION U	AUX VASES	12-25-10F; 7,18-25-11E	100*	3218*	7.9*	356*	100*	1266*		
1037	SD, TRIANGLE CU,	SOUTH ALBION WF	OMAHA	REYSEL	24,25-25-10E	155*	1181*	9.0*	93*	155*		
1003	SUPERIOR OIL CO,	30,31-25-11E SMPU 1	BIEHL	25,36-25-10E	787	13716	10.0	2017	400	7153		
1004	SUPERIOR OIL CO,	SOUTH ALBION UNIT 2	WALTERSBURG MANSFIELD BRIUGEPURT BIEHL	30,31-25-11E 1,2,11,12-35-10E	490 146 134	4366 8570 6717 2305	14.7*	2066*	549*	18022*		
1032	SUPERIOR OIL CU,	WORKS UNIT	WALTERSBURG	AUX VASES	149	962	15.7*	131*	285*	817*		
1036	SUPERIOR OIL CU,	WILLET	REYSEL	AUX VASES	19	192*						
1030	TEXACO, INC.	WILLET	AUX VASES	30-28-11E	146	339						
1039	TEXACO, INC.	BARNS EAST WORKS	WALTERS	24-28-10E	6	173	6.2	576	110	1021		
4353	P. O. WALL	GRAYVILLE WEST U	RETHFL	13-25-10F	124	1674	6.6	116*	124	1674*		
1031	WARRIOR OIL CO,	ALBION EAST	RETHFL MCC CYP	22-38-10E	7	219*		61*		265*		
1040	ZANETIS OIL PRUP	ALBION EAST	WALTERS	31-15-14W; 6-25-14W	5860		2.3	757	6	2573		
1040	ZANETIS OIL PRUP	ALBION EAST	CYP	26-25-14W	160	1030	57.5	307	160*	990*		
ALLENDALE, LAWRENCE, WABASH		FRIENDSVILLE COOP PRICE-ROBINSON MOVERHALL NAYLOR-ROBBIN-PAYNE PATYON COOP YOUNG WF BUCHANAN GILLIATT-ALKA FRENCH ET AL PRICE HEIRS YOUNG WOODS 'C' KEYSER '6' HENSHEY-COGAN	AUX VASES	30-1N-12W	87	4885	2.7	319	87	4456		
3969	ASHLANO U AND R				14-1N-12W	40*	477*	1.6*	37*	36*	434*	
3902	BEULIGMANN ET AL				36-2N-12W		64*		2*		12*	
*3865	JOHN BLEUSOE, JR				8-1N-12W		1000**		200**		1000**	
*3848	CHARLES E. CARM				26-1N-12W		1000**		180**		590**	
3647	G. S. ENGLE				1-1N-12W		208		*		*	
*3971	I. W. GEORGE EST.				33-1N-12W		367		44		26	
3990	M ANU M OIL CO				1-1N-12W		208		*		*	
*3900	CELIL A. HAMMAN				13-1N-12W		2735		244			
*3869	ILLINOIS OIL CU,				32-2N-12W		39		10		5	
3899	ILLINOIS OIL CU,				2-1N-12W		228**		16**		191**	
3906	ILLINOIS OIL CU,				1-1N-12W		4547		205**		1341**	
3944	INU, FARM BUK,				20-1N-12W		633		45		559	
*3992	INU, FARM BUK,				15-1N-12W		303		20		*	
3898	JACK KENEIPP				35-2N-12W		9*					
3966	JACK KENEIPP				CYPRESS		700*	1.2*	77**	20*	551**	
3999	JACK KENEIPP				BIEHL		15	1087*	1.2**	201**	25**	1942**
3952	L ANU M URILLING				TAR SPRINGS		10	28*		5		6
					STANLEY PRICE			687		167		348

RESERVOIR STATISTICS (AVG. VALUE)						DEVELOPMENT AS OF 12-31-78				INJECTION WATER			REMARKS
FIELD, COUNTY		NET PAY (FT)	PUR (X)	OIL GRAY (MO) (API)	DATE FIRST INJ.	DATE ADJ.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE			
PROD. NO.	DEPTH (FT)						INJ. PROD.		SH = SAND GH = GRAVEL PHOU = PRODUCED SH = SHALLOW	(F) = FRESH (B) = BRINE (M) = MIXED			
AB LAKE W, GALLATIN													
*1417	2025	17.0	16.3	20	36.9	07-59	06-64	6	9	160	SH GRAY, PENN SD (F)	*INCL 1421	
*1421	2750	10.0	16.3	27	37.1	07-59	06-64	1	2	30	SH GRAY, PENN SD (F)	*INCL WITH 1417	
*1452	2000	15.0				05-64	12-71	2	5	90	PRODUCED (B)	*ESTIMATED	
ADEN C, HAMILTON, WAYNE													
4158	3250	9.0	21.0	15b	40.0	02-62		1	3	100	PENN SD, PROD (B)		
*1311	3150	12.0	12.0		36.0	01-64		10	11	1000	PENN SD, PROD (B)	*ESTIMATED	
	3350	14.0			38.0	01-64		7	6	1000		*THRU 1975	
*4101	3200	10.0	22.0	150	37.0	08-46	03-66	12	12	640	PRODUCED (B)	*INCL 4102	
*4102	3350	3.6			37.0	08-46	03-66	11	5	640	PRODUCED (B)	*INCL WITH 4101	
ADEN S, HAMILTON													
*1921	3245	21.0				03-64	04-70	4	10	150	PENN SD, PROD (B)		
	3335	10.0						4	10	150			
	3390	8.0						2	2	80			
AKIN, FRANKLIN													
*1310	3100	20.0			58.0	02-60	12-62	2	5	120	CYPRESS (B)	*NO W.F. OIL RECOVERED	
1311	3120	20.0	20.5	175	58.0	10-61		3	11	150	PENN SD, PROD (B)	*INJ. CURTAILED 9-76	
*1317	2840	15.0	13.0	90	54.0	05-62	12-76	2	6	80	PENN SD, PROD (B)	*ESTIMATED SINCE 1968	
1321	3100	16.0			38.0	06-65		1	4	60	PENN SD, PROD (B)	*ESTIMATED	
1327	3060	14.7			37.0	01-66		3	3	100	PENN SD, PROD (B)	*ESTIMATED	
ALBION C, EDWARDS, WHITE													
1001	2075	18.0	20.0	200	33.4	12-55		2	7	110	PRODUCED (B)	*ESTIMATED	
*1011	2080	9.2	16.8	384	32.3	04-51	01-72	2	7	120	PRODUCED (B)		
1002	1550	12.0				01-72		1	1	30	PRODUCED (B)	*ESTIMATED	
	2380	12.0				01-72		1	2	40			
	3150	10.0				07-51		1	4	80			
	2055	8.0				6-56		1	3	30			
*4201	2650	12.0	18.0		37.0	10-52	12-56	8	21	250	RIVER, PROD (M)	*EST. ADJ. TO PROJ 1006 SINCE 56	
*4202	2460	6.0	18.0		37.0	10-52	12-58	4	5	100	RIVER, PROD (M)		
*1014	3222	4.0	16.3	696	39.0	05-43	12-56	1	7	80	PRODUCED (B)		
*1034	3110	10.0				01-57	01-74	1	6	70	PRODUCED (B)	*EST +INCL PRIM SINCE 1-51	
*1015	3005	21.0				04-52	07-55	1	1	30	HARDINSBURG (B)	*EST. +INCL. PRIM. 52-55	
1006	1650	16.2	18.0	150	32.2	01-55		11	8	403	GRAVEL, PROD (M)		
1026	2990	8.0				06-62		1	1	30	PRODUCED (B)	*EST. OP SUSPENDED 1970-72	
4200	1900	21.2	20.2	265	38.0	06-48		3	5	170	RIVER, PROD (M)		
4308	2930	19.0				02-68		5	11	160	SHALLOW SD, PROD (M)		
	3160	18.0						4	10	160			
1005	3050	25.0	15.0	25	41.0	03-68		4	5	90	PUNCHASED (F)		
1035	3010	18.3				10-66		4	3	70	CITY WATER (F)	*ESTIMATED	
*1000	1900	30.0	19.3	303	35.8	09-50	01-72	2	5	50	RIVER, PROD (M)	*ESTIMATED SINCE 1969	
*1018	3000	14.3	18.0	13	37.5	11-59	12-67	6	5	340	PENN SD, PROD (B)		
4321	2434	10.0			33.0	06-69		1	1	40	PRODUCED (B)	*ESTIMATED SINCE 1976	
	2932	10.0				11-69		1	2	30			
4434	2770	15.0				11-71		1	1	20	PRODUCED (B)	*ESTIMATED SINCE 1976	
	2950	15.0						2	4	60			
	3060	18.0						1	1	20			
1012	3230	8.0				11-66		1	1	30	PRODUCED (B)	*EST +INCL PRIM PROD	
1033	3025	15.0	17.3	35	39.0	02-66		7	10	200	PENN SD, PROD (B)	*ESTIMATED SINCE 1973	
	3060	13.0						3	9	120			
1037	3000	8.0	15.0	13	36.0	02-72		4	4	100	PENN SAND (B)	*ESTIMATED	
1003	2025	12.3	18.5	47	36.0	01-55		4	9	222	SH SD, PROD (M)		
	2400	7.1	18.6	74	36.0			2	5	325			
1004	1630	10.0	20.6	53	37.0	01-67		2	5	90	GRAVEL BED, PROD (M)	*INCL ALL PAYS	
	1870	12.2	20.2			08-56		2	3	257			
	2050	15.8	18.2	336		08-56		1	1	60			
	2400		19.2			06-60	01-72	2	4	60			
	3050		20.6			08-56	01-67	7	8	170			
1032	2356	6.0	19.0	480	34.0	12-65		1	3	70	SH SD (F)	*INCL ALL PAYS; +TEMP ABU 6-68 TO 9-78; +TEMP ABU 1-68 TO 4-77	
	2919	6.0	14.6	10		00 00		1	3	100			
	3040	5.0	15.8	53		01-66		3	2	50			
	3066	8.0	14.2	3003		00 00		1	9	200	PRODUCED (B)		
1036	2400	8.5	19.2	209	38.0	10-65		1	3	40	SH SD (F)		
*1030	2370	20.0			39.0	11-63	12-66	1	4	40	PRODUCED (B)	*SWD ONLY	
1039	2970	8.0	13.0	22		11-69		1	1	30	PRODUCED (B)	*ESTIMATED	
	3041	18.0	16.7	153				1	2	40			
	3110	33.0	15.0	205				1	1	30			
*4353	2850	12.0	17.0	50	38.0	05-62	01-71	4	5	225	DIEML, PROD (B)	*ESTIMATED SINCE 1968	
1031	2250	11.2	20.6	167	36.0	10-65		3	6	68	GRAY, PROD (M)		
ALBION EAST, EDWARDS													
1040	2770	15.0				09-72		1	2	40	PENN SAND, PROD (M)	*ESTIMATED	
	2690	10.0						3	8	160			
	3070	8.0						2	8	220			
ALLEDALE, LAWRENCE, WABASH													
3969	1600	15.0	14.2	335	33.0	10-60		2	8	100	PRODUCED (B)		
3902	1472	10.0	17.0		35.0	12-65		1	1	10	SH SD, PROD (M)	*ESTIMATED SINCE 1976	
*3865	1446	30.0	18.7	77	36.4	02-65	01-72	1	1	20	SH SD, PROD (M)	*NO DATA 1966-69; INACTIVE 70-71	
*3848	1520	7.0				7-64	12-76	4	6	100	PRODUCED (B)	*EST. +NO DATA RECEIVED	
*3847	2020	13.0				7-53	6-59	4	5	90	FRESH PROD (M)	*EST. +NO DATA RECEIVED	
*3971	2020	15.0				01-58	04-65	2	2	40	GRAVEL BED (F)	*ESTIMATED; +INCL WITH 3906	
*3990	2000	20.0	16.0	126	39.0	11-59	09-68	1	1	40	GRAVEL BED, PROD (M)		
*3900	1485	15.0	24.6	1066	32.5	11-54	09-68	5	3	35	SH SD, PROD (M)		
*3869	1575	8.0	17.0	40	36.0	05-65	01-70	1	1	10	SH SD (F)		
3899	1120	8.0	15.0	150	34.0	11-70		1	1	20	WELL (F)	*ESTIMATED; +INJ. SUSP. 1-76	
*3906	1375	15.0	17.0	150	36.0	01-58	1-75	8	10	120	SH SD, PROD (M)	*ESTIMATED; +INCL 3971	
*3944	1520	15.0			28.4	11-53	06-57	5	7	147	PRODUCED (B)		
*3992	1450	9.0			37.0	07-59	10-66	1	2	60	SH SD, PROD (M)	*INCL WITH 3964	
3898	1380	12.0				10-61	01-72	1	1	10	SH SD, PROD (M)	*ESTIMATED; +INCL BOTH PAYS	
	1920	18.0				07-62		1	1	20			
3966	1360	18.0	18.0			06-60		2	3	18	SH SD, PROD (M)	*INCL BOTH PAYS; +ESTIMATED	
	1920	10.0				09-61		2	4	18			
*3999	1553	11.0				07-62	10-64	1	1	20	SH SD, PROD (M)		
*3952	1520	20.0	18.0	450	33.0	11-54	01-60	1	3	40	SH WELL (F)		

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO # = P.M. # = ABO & P.M.		PROJECT U * UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
					TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
ALLENDALE, LAWRENCE, MADAM										
CONTINUED										
3905	HEKMAN LOEB	ALLENDALE (FLUDD 19)	RIEHL	3, 4, 9, 10=1N=12W	300*	38759*	17.9*	2147*		
3871	D. LUEFFLER ESTATE,	FRIENDSVILLE EAST U.	BIEHL	18, 19=1N=12W 13, 24=1N=13W	265*	2029*	9.0*	492*	265*	1578*
3883	U. LUEFFLER ESTATE,	G. U. ADAMS COUP	CYPRESS RETHFL	16=1N=12W	10*	684*	0.4*	69*	10*	522*
3901	D. LUEFFLER ESTATE,	CLARK, BARTH.=PINNICK	TAR SPRINGS	23, 36=2N=12W	10*	256*	0.5*	22*	10*	143*
3951	D. LUEFFLER ESTATE,	ALLENDALE WEST U	BIEHL	8=1N=12W	15*	5215*	0.7*	25*	15*	3524*
3996	D. LUEFFLER ESTATE,	SPARKS=PIETER UNIT	BIEHL	36=2N=12W	50*	1252*	0.6*	78*	50*	1490*
3909	R & G CORP.	ALLENDALE U	BIEHL JORDAN	3=1N=12W	*	5273*	#	285**	*	4304*
3911	G. A. ROBINSUN	HAUDEN	BIEHL	6, 7=1N=11W		588**		14**		506**
3964	ROYALCO, INC.	ALLENDALE U	RETHFL	13=1N=12W		476		313*		1544*
3993	ROYALCO, INC.	STILLWELL COURTER U	WALTERSBURG	21, 22=1N=12W		1625		341*		653*
3920	SKILES OIL CORP.	YELTON=KERZAN	BIEHL	5=1N=12W		0		53*		73*
2231	WAYNE SMITH, OP.	SAND BARREN UNIT 1	BIEHL	26=2N=12W	37	3778*	1.7	395	35	3385
			JORDAN							
2232	WAYNE SMITH, OP.	SAND BARREN UNIT 2	BIEHL	23, 26=2N=12W	19	793	7.8	190	11	337
3903	WAYNE SMITH, OP.	TAYLOR=WHEATLEY	BIEHL	7, 18=1N=12W		1124		217*		909*
			JORDAN							
3908	WAYNE SMITH, OP.	SHAW=SMITH=NIGH	BIEHL	35=2N=12W		1586		120*		1466*
			JORDAN							
3859	SO. TRIANGLE CO.	STULTZ U	BIEHL	25=1N=12W	65*	653*	5.7*	91*	65*	470*
3904	TAMARACK PET.	PATTUN C	CYPRESS	28=1N=12W		644		90*		147*
2201	TRIPLE B OIL CO	HEMSHET U	RETHFL	27, 34, 35=2N=12W		1325		94*		537*
3868	UNIVERSAL OPRTNG	LITHELAND=SMITH UNIT	BIEHL	5=1N=12W	17	1669	1.4	133	17*	1125*
3973	UNIVERSAL UPRTNG	SOUTH ALLENDALE	BIEHL	15=1N=12W		845		38*		247*
3860	ZANETIS OIL PRUP	MANF	CYPRESS	15=1N=12W		151		25*		151*
ASHLEY, WASHINGTON										
4023	N. A. DALORIDGE	ASHLEY	RENUIST	32, 33=2S=1W	145*	3960*	7.2*	255*	145*	3960*
ASHLEY E, WASHINGTON										
4022	N. A. DALORIDGE	ASHLEY EAST	RENUIST	25, 26=2S=1W	35*	880*	1.7*	55*	35*	880*
ASSUMPTION C, CHRISTIAN										
104	FEAR AND DUNCAN	ASSUMPTION WFO	LINGLE	17, 20=1S=1E	155*	1839*	6.5*	149*	155*	1561*
100	JUNIPEK PETROLEUM C	BENOIST	RENUIST	3, 4, 9, 10=1N=1E	134	8435	6.7	1442	107	3522
101	JUNIPEK PETROLEUM C	UEYONIAN	LINGLE	3, 4, 9, 10, 13, 16=1N=1E	726	23865	22.2	2085	492	9053
102	JUNIPEK PETROLEUM C	MOBICLARE	SPARK MTN	9, 10=1N=1E	82	5144	2.6	1101	42	4930
105	J. W. HUDY DRUG.	PEABODY=KIDGE	LINGLE	16=1N=1E	80*	1430*	7.4*	166*	80*	927*
BANKHILL, WAYNE, WHITE										
*4103	ASHLAND U AND N	BANKHILL U	MCCLOSKEY	26, 34, 35=2S=8E		9137		1235		
4170	BERNARD PODOLSKY	BOZE UNIT	AUX VASES	27, 28, 34=2S=8E		851*		131	14	507
4171	BERNARD PODOLSKY	CALDWELL UNIT	AUX VASES	34=2S=8E		1885*	0.7	94	1	1056
*4199	SAM TIPPS	BOZE U	AUX VASES	26, 33, 34=2S=8E		319		38		
4129	WAYNE DEV	WALTER	MCCLOSKEY	26=2S=8E		144		21		119
4104	WILLETS AND PAUL	BANKHILL UNIT	AUX VASES	27, 28=2S=8E		4090		491		184
*4105	WILLETS AND PAUL	BANKHILL UNIT	OHARA	27=2S=8E		53		7		2
BARTELSU, CLINTON										
402	EO KAPES	M. S. WOODWARD, TRUSTEE	CYPRESS	5, 8=1N=3W	50*	2721*	2.5*	376*	50*	2970*
* 400	T. R. KEKWIN	BELLE OIL	CYPRESS	4=1N=3W		978*		135*		147*
* 401	ROBBEN OIL CO.	ROBBEN OIL UNIT	CYPRESS	4=1N=3W		3100*		639*		1621*
BEAUCOUP, WASHINGTON										
4013	CULLINS DRUG.	BEAUCOUP UNIT	CLEAR CREEK	9, 10=2S=2W	93	1336*	0.9	17	20	697
BEAUCOUP S, WASHINGTON										
4005	SHELL OIL CO.	BEAUCOUP S, UNIT	BENOIST	33, 34=2S=2W	537	10166	8.6	434	492	8661
4008	GEORGE THOMPSON	GILBERT	BENOIST	34=2S=2W	8*	163*	0.4**	41**	8*	163*
BEAVER CREEK, BOND, CLINTON										
* 1	T. M. CONREY, JR	WRUNE C	BENOIST	36=4N=3W		106		23		
2	W. C. MCGRIDE	JACOBS	BENOIST	31=4N=2W	32	351	1.2	16	32	341
BEAVER CREEK S, BOND, CLINTON										
415	NICK BABARE	MONO	BENOIST	5=3N=2W	*	*	0.4*	20*		
405	T. M. CONREY, JR	MONO-K-S	BENOIST	12, 13, 14=5N=3W	150*	2377*	7.5*	286*	150*	2331*
BELLAIR, CHAWFORD, JASPER										
600	BELLAIR OIL	BELLAIR	PENNSYLVANIN	2, 11, 12=8N=14W	80*	32013*	3.0*	901*	80*	7695**
601	BELLAIR OIL	FULTON (BELLAIR)	PENNSYLVANIN	1, 2, 11, 12=8N=14W	350*	62370*	12.4*	1630*	550*	34652*
* 666	WAUSAU PET. CORP	GRANT	CYPRESS	13=8N=14W		1343		161		880
BELLE PRAIRIE, HAMILTON										
1577	LAWL BUSBY	HLBK, SHPKD, LEACH, BONA	MCCLOSKEY	1, 2, 11=4S=6E	60*	560*	9.4**	124**	60*	560*
BEHAN, LAWRENCE										
*2248	E. L. WHITMER	DECATUR INVESTMENT	STE GEN	25, 28=3N=11W		683		40		400
2267	ZANETIS OIL PRUP	ALEXANUEK	STE GEN	23=3N=11W	40	552	1.4	22	60*	519*
BENTON, FRANKLIN										
1300	SHELL OIL CO.	BENTON U	TAR SPRINGS	23, 24, 25, 26, 35, 36=6S=2E 2E, 18, 30, 31=6S=3E	597	220743	14.5	19565	842	163963
1314	SHELL OIL CO.	SHELL=BENTON DEEP	AUX VASES OHARA MCCLOSKEY	25, 36=6S=2E	355	9608	11.6	1646	435	5658
BENTON N, FRANKLIN										
*1328	FARRAR OIL CO.	BENTON NURTH UNIT	RETHFL AUX VASES OHARA MCCLOSKEY	25, 35, 36=5S=2E		3458		740		1855

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER			REMARKS
FIELD, COUNTY	DEPTH (FT)	N&T PAY (FT)	EUR (%)	PERM GRAV (MO) (API)	DATE FIRST INJ.	DATE ADD.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE			
PROJ. NO.							INJ. PRD.		SU = SAND GM = GRAVEL PKDU = PRODUCED SH = SHALLOW	(F) = FRESH (B) = BRINE (M) = MIXED			
ALLENDALE, LAWRENCE, WABASH													
CONTINUOUS													
3905	1465	15.0	17.7	390	35.7	06-55	21	18	307	GRAVEL BED (F)		*ESTIMATEU	
	1495	13.0	14.9	100									
3871	1520	20.0	15.0	200	35.0	06-64	3	8	100	SM SU (F)		*ESTIMATEU SINCE 1978	
3803	1496	10.0			37.0	05-64	1	3	40	SM SU, PKDU (M)		*ESTIMATEU SINCE 1972	
	2110	10.0					1	3	40				
3901	1500	10.0	16.0	40	33.0	06-66	1	2	30	SM WELL (F)		*ESTIMATEU SINCE 1972	
3951	1500	20.0	17.8	450	35.0	03-58	4	3	80	SM SU, PRDU (M)		*ESTIMATEU SINCE 1972	
3966	1375	15.0	16.0	200	37.0	10-62	3	3	50	SM SU, PRDU (M)		*ESTIMATEU	
3909	1500	18.0	15.0	1400	36.0	09-53		3	40	TAK SPGS, PRDU (B)		*INJ IN LINE WELLS SINCE 1969; *EST. #NO DATA 7R	
	1538	14.0											
3911	1450	20.0	18.0			10-66	3	6	153	SM SD (F)		*EST. #OP, SUSP, 1970, NO DATA	
3964	2120	20.0	20.1	115	36.5	07-59	12-69	10	180	PRODUCED (B)		*INCL 1992	
3993	1500	11.0	18.6	45	33.4	01-62	11-66	1	1	30	RIVER, PKDU (M)		
	2000	10.0			36.9			5	10	180			
3920	1600	15.0	18.0		35.5	06-66	12-70		2	20		*ADJ TO ACTIVE WF	
2231	1300	18.0			34.0	09-57	10	7	75	SURFACE, PRDU (M)			
	1340	8.0											
2232	1280	20.0			33.0	06-5A	3	10	65	SURFACE, PRDU (M)			
3903	1400	15.0				06-5T	12-66	4	6	50	RIVER GRAV, PRDU (M)		
	1440	8.0											
3908	1380	15.0			34.0	09-57	01-72	2	6	45	SURFACE, PRDU (M)		
	1420	8.0											
3859	1450	10.0	17.0	150	32.5	01-69	2	2	60	SM GRAVEL (F)		*ESTIMATEU	
3904	1800	16.0			34.8	01-54	12-60	4	1	130	RIVER GRAV, PRDU (M)		*ESTIMATEU
2201	2010	12.0			37.0	01-67	01-74	7	8	150	PENN SU, PRDU (B)		*ESTIMATEU SINCE 1968
3868	1500	15.0			37.0	04-65	2	4	60	PENN SU, PRDU (B)		*ESTIMATEU	
3973	1480	13.0	15.0	160	32.9	03-61	09-67	6	3	60	SM SU, PRDU (M)		*INCL PRIM PRDU SINCE 1961 *EST FOR 1964-66
3860	2039	7.0			36.2	06-68	12-77	2	2	30	PRODUCED (B)		*ESTIMATEU SINCE 1976
ASHLEY, WASHINGTON													
4023	1440	7.0				11-56	4	14	180	PRODUCED (B)		*ESTIMATEU	
ASHLEY E, WASHINGTON													
4022	1650	8.0				07-69	2	4	60	PRODUCED (B)		*ESTIMATEU	
ASSUMPTION C, CHRISTIAN													
104	2324	20.0			40.0	06-66	2	8	200	PRODUCED (B)		*ESTIMATEU SINCE 1970	
100	1050	13.0	19.0	100	38.0	07-50	3	8	350	PRODUCED (B)			
101	2300	13.0	12.0	50	40.0	05-55	14	22	600	PRODUCED (B)			
102	1150	12.0	22.0	561	39.3	06-55	2	3	240	PRODUCED (B)			
105	2290	15.0			42.3	11-67	6	8	260	PRODUCED (B)		*ESTIMATEU SINCE 1976	
BARNHILL, WAYNE, WHITE													
4103	3350	9.0			39.0	01-51	03-63	10	22	260	CYPRESS (B)		
4170	3300	14.0			38.2	10-63	4	4	120	PENN SU (B)		*TEMP SHUT-DOWN 3-72	
4171	3560	15.0			36.9	10-63	5	4	140	PENN SU (B)		*INJ. LUNTAILED 10-73	
4199	3328	25.0				11-63	12-70	2	4	70	PENN SU, PRDU (B)		
4129	3450	18.0				12-50	01-55	1	2	40	CYPRESS (B)		*INCL PRIM PRDU
4104	3250	14.0	18.7	42	38.0	10-56	12-66	12	10	230	PENN SU, PRDU (B)		
4105	3323	8.0	20.1	106	39.0	10-56	12-59	2	6	40	PENN SU, PRDU (B)		
BARTLESU, CLINTON													
402	970	18.0	21.0	210	38.0	01-54	5	3	80	PRODUCED (B)		*ESTIMATEU	
400	970	15.0	22.2	165	37.0	04-52	01-63	5	5	40	TAK SPINGS (B)		*ESTIMATEU
401	980	12.0	20.0	110	36.9	11-53	01-63	12	19	200	BETHEL, PRDU (B)		*ESTIMATEU
BEAUCOUP, WASHINGTON													
4013	3046	5.2	12.0	115	38.0	10-70	3	2	280	PENN SU (M)			
BEAUCOUP S, WASHINGTON													
4065	1440	6.0	19.0	240	36.0	11-60	7	10	230	PENN SU, PRDU (B)			
4008	1445	6.0	11.5	111	36.0	01-55	1	1	27	PRODUCED (B)		*EST SINCE 1970 *INCL PRIM PRDU	
BEAVER CREEK, BOND, CLINTON													
1	1100	8.0	20.7	208	37.4	07-53	12-61	1	4	40	PRDU (B)		
2	1100	10.0	20.0	110		06-68	1	1	20	PRODUCED (B)			
BEAVER CREEK S, BOND, CLINTON													
415	1180	12.0			33.0	08-69	1	4	40	CYPRESS, PENN (B)		*ESTIMATEU *OUMP FLOOD	
405	1110	8.0			34.0	01-56	3	11	140	PRODUCED (B)		*ESTIMATEU	
BELLAIR, CRAWFORD, JASPER													
600	600	18.0	17.1	146	31.0	07-48	56	50	204	SM SU, PRDU (M)		*ESTIMATEU *SINCE 1-64	
601	560	21.0	19.0	149	32.0	07-48	39	69	443	GRAV, PRDU (M)		*ESTIMATEU	
666	950	16.0	17.2	125	39.0	02-53	02-61	15	11	70	PENN SU, PRDU (M)		
BELLE PRAIRIE, HAMILTON													
1577	3400	7.0				03-68	1	8	160	PRODUCED (B)		*EST. *INCL. PRIM SINCE 70	
BEMAN, LAWRENCE													
2248	1650	10.0				04-63	10-67	4	7	200	PRODUCED (B)		
2287	1650	5.0				10-68	2	2	80	PRODUCED (B)		*ESTIMATEU	
BENTON, FRANKLIN													
1300	2100	35.0	19.0	165	37.5	11-49	20	25	2200	LAKE, PRDU (M)			
1314	2760	17.0	18.2		39.0	05-62	9	7	550	CYPRESS, PRDU (M)			
	2810	7.0					5	1	720				
	2690	12.0					3	6	320				
BENTON N, FRANKLIN													
1328	2550	8.0				02-66	04-71	6	9	140	UEGONIA, PRDU (B)		
	2660	12.0					6	9	140				
	2730	5.0					4	4	90				
	2800	8.0					3	4	140				

TABLE 11. Waterflood operation

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO ♦ = P.M. # = ABO & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
				TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78
BENTON N, FRANKLIN CONTINUED 1332 M & W OIL CO #1326 SHAKESPEARE OIL	BENTON NORTH NORTH BENTON UNIT	PAINT CREEK PAINT CREEK OMAHA SPARK MTN	36-53-2E 1-6S-2E	*	1241** 3673*	*	113** 466*	*	100** 1456*
BENNYVILLE C, EDWARDS, WABASH *3942 PHILLIPS PET. CO *3943 PHILLIPS PET. CO 1024 NK PET. COMP.	TAMPLEY C TOWNSEND W SALEM WFU	MCCLOSKEY MCCLOSKEY SPARK MTN	2-1N-14W 35-2N-14W 9-1N-14W		35 50 72		406	72	103 86 623
BLACKLAND, CHRISTIAN, MACON *2300 FEAR AND OUNCAN	DAMERY C	SILURIAN	3-15N-1E		6				4
BONE GAP C, EDWARDS *1013 R. G. CANTRELL 1034 BERNARD POOLSKY	BONE GAP UNIT BONE GAP SOUTH U	WALTENSBURG CYPRESS	18-13-14W 19-13-14W	100*	2943* 47	5,2*	382*	100*	2943* 167
BOULDER, LLINTON * 411 TEXALO, INC.	BOULDER BENOIST SD U	BENOIST	2-2N-2W, 35, 36-3N-2W		9234		681		4368
BOURBON C, DOUGLAS * 800 T. J. LOGUE	BOURBON POUL WF	SPARK MTN	2, 11, 12-15N-7E		6000*		500*		
BOYO, JEFFERSON 2000 N. A. BALOKIDGE	BOYO FIELD UNIT	BENOIST AUX VASES	18, 19, 20, 29, 30-13-2E 13, 24, 25-13-1E	440*	58509* 18628*	0, 0*	4326*	180*	46959*
BROWN, MANION 2615 DONALD G. WEART	LEONARD-LANCASTER	CYPRESS	16-1N-1E	22	458*	0, 6	28*	11	229*
BROWNS, EDWARDS, WABASH 3830 ROYALCU, INC. 1021 SUPERIOR OIL CO. 3894 TANTAN OIL CO.	SCHONAHAN WF BROWNS U CYP-BETHEL BROWNS U	OMAHA CYPRESS BETHEL TAR SPRINGS CYPRESS	3, 10-2S-14W 28, 33-1S-14W 33-1S-14W	100* 16 * 100*	761* 2574 1141* 1372*	24, 2* 2, 3 5, 1*	243* 430 80*	50* 9 100*	216* 132 991*
BROWNS E, WABASH *3912 T. W. GEORGE EST. *3914 T. W. GEORGE EST. 3450 T. W. GEORGE EST. *3913 MOBIL OIL COMP.	BELLMONT WF ASSOC SOUTH BELLMONT MORRIS-BELLMONT BELLMONT	CYPRESS CYPRESS CYPRESS CYPRESS	1, 2, 11, 12-2S-14W 11, 14-2S-14W 11-2S-14W 2, 11-2S-14W		3009 276 81 822*		905* 18 140 382		1122 22 379 268
BUNGAY C, HAMILTON *1554 ALENE BLADES 1574 C. E. BREMM 1550 COLLINS BRUS. 1558 COLLINS BRUS. 1572 COLLINS BRUS. 1576 WALTER OUNCAN 1555 LYXON 1527 FEAR AND OUNCAN *1519 MID-STATES OIL PROP *1522 W. REBER *1500 TEXALO, INC. *1530 TEXACO, INC.	HAYES BUNGAY SOUTH BUNGAY UNIT NORTH BUNGAY O'NEILL BUNGAY U WF BUNGAY 1-A BLAIRSVILLE U J. A. LYNCH	AUX VASES AUX VASES RENAULT RENAULT AUX VASES AUX VASES AUX VASES RENAULT AUX VASES AUX VASES AUX VASES	15-4S-7E 15, 16-4S-7E 34, 35-4S-7E 13, 14, 23, 24-4S-7E 17-4S-7E 16-4S-7E 14-4S-7E 16-4S-7E 21-4S-7E 26, 27, 34, 35-4S-7E 10, 17, 20, 21-4S-7E 16-4S-7E	40* 120* 50*	488 6255* 5249* 5955* 1540 1523* 1187 889* 710 11011** 7692 1921	3, 2* 4, 7* 1, 8*	701* 337* 506*	40* 120* 50*	6255* 3583* 3398* 180 1523* 386 861* 198* 8487* 2457 707
CALHOUN C, RICHLAND, WAYNE *3400 ASHLAND U AND M *3401 SAM TIPPS *3497 UNION OIL CALIF.	CALHOUN BOHLANUEH UNIT CALHOUN	MCCLOSKEY MCCLOSKEY MCCLOSKEY	7, 18-2N-10E, 13-2N-9E 6, 7-2N-10E 12, 13, 24-2N-9E		3032 2175* 6000*		157 235* 405*		1681* 6000*
CALHOUN E, RICHLAND *3423 ALVA C. DAVIS	SLUNAKER	MCCLOSKEY	7-2S-11E		93*		1*		4*
CALHOUN S, EDWARDS, RICHLAND, WAYNE 4086 ZANETIS OIL PROP	RUTGER	MCCLOSKEY	1, 2-1N-9E	50	276	9, 0	155	50*	276*
CARLYLE N, CLINTON 407 T. M. CONREY, JR	KREITEMEYER	BENOIST	23-3N-3W	60*	1070*	3, 7*	99*	60*	493*
CARMI, WHITE 4402 ROYAL O AND G	NIEKAMP	MCCLOSKEY	26-5S-9E	25*	295*	1, 9*	76*	25*	199*
CARMI N, WHITE 4443 NICK BABARE	GATES-WEBSTOCK	AUX VASES	3, 4-5S-9E	15*	1005*	1, 3*	75**	15*	765*
CASEY, CLARK * 217 CALVAN AMERICAN * 201 FOREST OIL CO. * 202 D. W. FRANCOY	SPARKVEN CASEY N. CASEY	CASEY CASEY CASEY	23, 24-10N-14W 14, 15, 23-10N-14W 33, 34-11N-14W 4, 5-10N-14W		49 8030 3032		462 36		
CENTERVILLE, WHITE 4409 ABSHER OIL CO *4267 O. R. LESH	BROWN UNIT CENTERVILLE E	OMAHA SPARK MTN	2-4S-9E 12-4S-9E	14*	430*	0, 7*	14*	14*	168* 4
CENTERVILLE E, WHITE 4203 ABSHER OIL CO 4379 ABSHER OIL CO	E. CENTERVILLE UNIT EAST CENTERVILLE UNIT	TAR SPRINGS CYPRESS BETHEL AUX VASES TAR SPRINGS WARDENBURG CYPRESS BETHEL	18-4S-10E 7, 8, 17-4S-10E	110*	10258* 25300*	3, 3*	1023*	110*	8225* 18475*

REVENUE STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER			REMARKS	
FIELD, COUNTY		NET PAY (F/T)	PUR (X)	PERM (MO)	OIL GRAV (API)	DATE FIRST INJ.	DATE ABQ.	NO. OF WELLS INJ.	ACRES UNDER INJ.	SOURCE TYPE				
PROJ. NO.	DEPTH (FT)									SH	M			
BENTON N, FRANKLIN														
CONTINUED														
1332	2550	12,0			39,6	06-69		4	4	100			PRODUCED (B)	*EST SINCE 1973 *OP. SUSP. 1-78
*1326	2590	9,2	15,0	22	36,0	12-66	12-77	5	13	180			PENN SU (B)	*ESTIMATED 1976-77
	2755	6,0	12,0					1	3	80				
	2800	6,0						1	1	40				
BERRYVILLE C, EDWARDS, WABASH														
*3942	2890	10,0				09-52	01-53	1	2	14			TAR SPGS, PROD (B)	
*3943	2890	10,0				02-52	06-53	1	2	27			TAR SPGS, PROD (B)	
1024	2990	10,0				01-70		2	2	200			SUPPLY WELL (M)	
BLACKLAND, CHRISTIAN, MACON														
*2300	1920	10,0			37,0	10-63	12-63	1	2	80			AUX VASES (B)	
BONE GAP C, EDWARDS														
*1013	2310	20,0	18,0	120	34,6	06-52		1	10	120			PRODUCED (B)	*ESTIMATE SINCE 1973
1034	2320	10,0	17,3			02-66		1	2	100			PRODUCED (B)	
BOULDER, CLINTON														
* 411	1200	25,0	17,9	104	34,6	09-60	10-64	25	17	470			PROD (B)	
BOWMAN C, DOUGLAS														
* 800	1800	12,0			34,0	09-59	11-66	18	30	800			PRODUCED (B)	*DATA WERE ESTIMATED
BOYD, JEFFERSON														
2000	2065	17,3	17,5	173	39,5	06-55		2	8	1564			PRODUCED (B)	*DATA FOR 1955-76, EST SINCE 70/
	2130	11,9	21,4	24	36,8	03-55		5	10	569				*INCL BDTM PAYS
BROWN, MAHON														
2615	1650	10,0			33,0	07-60		1	3	40			PRODUCED (B)	*ADJUSTED BY OPERATOR
BROWNS, EDWARDS, WABASH														
3850	3022	8,0			35,4	11-66		2	4	380			SH SU (F)	*ESTIMATE SINCE 1976
1021	2640	8,2	16,8	106	36,8	11-59		5	9	190			PRODUCED (B)	*INJECTION STOPPED MARCH, 1975
	2780	6,3	17,5	5	36,8			3	4	120				
3894	2500	10,0	16,0			11-62		2	2	60			PRODUCED (B)	*ESTIMATE
	2600	15,0	17,0					11	7	180				
BROWNS E, WABASH														
*3912	2570	13,0				01-51	01-57	18	18	290			SH SU, PROD (M)	*INCL PRIM PROD
*3914	2560	8,0			37,0	04-56	09-74	1	2	75			PENN SU, PROD (B)	
3950	2580	7,0	16,0		35,0	08-67		6	5	139			GRAV BED (F)	
*3913	2570	11,0			35,0	11-67	07-63	6	8	169			TAR SPGS, PROD (B)	*NO INJ SINCE 12-58
BUNGAY C, HAMILTON														
*1554	3275	13,5	21,8	104	36,0	09-65	12-70	2	4	60			SH SU, PROD (M)	SHO ONLY
1574	3270	12,0				11-64		2	25	270			PRODUCED (B)	*ESTIMATE
1550	3280	6,0	12,0	244	38,5	08-64		7	7	300			PENN SU, PROD (B)	*ESTIMATE SINCE 1973
1558	3280	8,0	18,9	325	39,0	09-65		4	5	100			PENN SU (B)	*ESTIMATE SINCE 1973
	3300	10,0	20,0	100				6	5	120				
1572	3260	15,0				01-55		1	7	90			PRODUCED	*EST+INCL PRIM PROD
1576	3260	15,0				07-67		1	3	40			PRODUCED (B)	*ESTIMATE
1555	3275	12,0	20,6	312	36,6	05-69		3	4	220			PRODUCED (B)	
1527	3254	12,0	14,0	350	38,0	01-67		1	4	60			PRODUCED (B)	*ESTIMATE SINCE 1970
*1519	3331	15,0	20,0	80	39,1	09-66	04-73	3	5	90			SH SU, PROD (M)	*ESTIMATE SINCE 1971-73
*1522	3300	17,0	22,0	182	41,0	05-61	1-76	8	5	390			CYPRESS, PROD (B)	*ESTIMATE/ *NO DATA 1975-76
*1500	3330	15,5	19,6	92	37,0	06-48	07-64	10	12	640			PENN, PROD (B)	
*1530	3300	25,0	17,8	107	37,0	09-61	10-68	5	5	130			PENN SU, PROD (B)	
CALHOUN C, RICHLAND, WAYNE														
*3400	3150	6,0			37,0	09-51	08-64	3	8	280			CYPRESS (B)	
*3401	3130	10,0	11,2	67	39,0	06-50	12-66	3	10	220			PRODUCED (B)	*NO DATA 1959-1966
*3447	3175	20,0				01-49	12-64	8	13	570			PRODUCED AND CYPRESS	*ESTIMATE
CALHOUN E, RICHLAND														
*3423	3260	10,0			37,2	08-65	12-71	2	3	100			TAR SPR, PROD (B)	*INACTIVE 1966-71
CALHOUN S, EDWARDS, RICHLAND, WAYNE														
4086	3250	23,0			39,0	08-66		1	4	80			PRODUCED (B)	*ESTIMATE
CARLYLE N, CLINTON														
407	1142	7,0			34,0	06-55		1	7	80			PRODUCED (B)	*ESTIMATE
CARMI, WHITE														
4402	3143	8,0			30,0	09-65		1	2	60			PENN SU, PROD (B)	*ESTIMATE SINCE 1975
CARMI N, WHITE														
4443	3230	13,0				6-59		1	4	60			PENN & PROD (B)	*ESTIMATE/ *INCL PRIM SINCE 1959
CASEY, CLARK														
* 217	450	21,5	22,4	108	31,8	08-53	08-54	9	4	40			SH SU (F)	
* 201	450	10,0			31,9	01-50	03-61	76	66	280			GRAV BED AND PROD (M)	
* 202	290	20,0	21,5	400	26,0	12-53	12-60	15	12	40			SH SU, PROD (M)	
CENTERVILLE, WHITE														
4409	3360	13,0			37,0	12-65		1	1	20			PENN SU (B)	*ESTIMATE
*4267	3366	7,0			43,0	06-54	12-55	1	1	20			TAR SPRINGS (B)	*INCL PRIMARY SINCE 6-54
CENTERVILLE E, WHITE														
4203	2470	17,0	16,0	97		03-56		5	8	130			PALESTINE, PROD (B)	*ESTIMATE SINCE 1973
	2850	17,0	15,0	12				8	9	190				
	2960	17,0	14,0	6				4	4	80				
	3060	20,0	20,0	45				4	7	110				
4379	2460	17,0	15,7		36,6	01-63		22	17	420			SH SU, PROD (M)	*ESTIMATE/ *INCL 4246 WELLS AND ACREAGE
	2632	10,0						1	1	10				
	2850	19,0	14,4					16	16	340				
	2980	18,0	14,1					15	16	330				

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR # ABO + R.M. # ABO & R.M.	PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
CENTERVILLE E, WHITE CONTINUED 4379 ABSMER OIL CO		AUX VASES							
4394 ABSMER OIL CO	JONES-BAIRO	MCCLOSKEY							
4376 NICK BABARE	JONES ESTATE	CYRKRESS	7-4S-10E	25*	1299*	1.2*	137*	23*	1174*
4246 SUN OIL CO.	E, CENTERVILLE	TAR SPRINGS	7-4S-10E	25*	1224*	1.6*	181*	25*	352*
		TAR SPRINGS	7-4S-10E		269		39		132
CENTRAL CITY, MARION 2623 WILLIAM PFEFFER	PFEFFER U	RENNSTLVNIN	8-1N-1E	13*	352*	0.7*	27*	13*	352*
CENTRALIA, CLINTON, MARION 419 KARCHMER RIPE	KARCHMER-TRENTON	TRENTON	1,2-1N-1W,26,27,34,35 36-2N-1W 35-2N-1W	24	3745	27.7	514	24*	1746*
* 403 W. O. HORGAN	CENTRALIA FIELD	BENOIST			880*		98*		680*
420 HUBERT RUSE	BUEHLER COMM	DEVONIAN	1-1N-1W	500*	14214*	18.0*	234*	500*	14214*
412 FRED SEIP	KOTHMEYER, BUEHLER, COE	CYRKRESS	13-1N-1W	20*	1147*	0.9*	72*	20*	1305*
416 FRED SEIP	HEFTER HKS	BENOIST	13-1N-1W	10*	608*	0.5*	69*	10*	1691*
404 SMELL OIL CO.	CENTRALIA U	CYRKRESS	1,2,12-1N-1W, 35,36-2N-1W	1160	24620	29.4	11219	1229	106552
		BENOIST							
* 408 SOMIO PETROLEUM	COPPLE TRENTON	TRENTON	35-2N-1W		236		34		21
CHESLEYVILLE E, OUGLAS * 801 ROYALCO, INC.	ARCOLA UNIT	SPAK MTN	5,6-14N-8E, 31-15N-8E		6471		1130		1977
CLARKSBURG, SHELBY *3603 SCHAEFER OIL CO.	CLARKSBURG	BENOIST	A,17-10N-4E		10*		4*		10*
CLAY CITY C, CLAY, JASPER, *1900 ASHLAND U AND R	RICHLAND, WAY								
*3402 ASHLAND U AND R	6005 EAST	MCCLOSKEY	2,3,10-6N-10E		333		16		
1928 ATHENE DEVEL.	NOBLE NORTH	MCCLOSKEY	35-4N-9E		318		8		
3419 WM. BECKER	ROBERTSON-BOWERS	MCCLOSKEY	5-5N-10E		*	1.4*	91*		450*
* 362 C. E. BOOTH	WAKEFIELD-MAKRELL U	CYRKRESS	26-4N-9E	60*	2673*	3.2*	417*	60*	2190*
381 C. E. BOOTH	STANFORD	AUX VASES	4-2N-7E		175		35		70
1915 C. E. BOOTH	HUKO & PETTIJOHN	AUX VASES	15,16-2N-7E	20*	535*	0.9*	32*	20*	530*
3405 C. E. BOOTH	DELLA HARVEY	SPAK MTN	12-5N-9E	35*	968*	1.9*	95*	35*	414*
	S. NOBLE CONSLO	MCCLOSKEY	30,31-3N-9E, 25,36-3N-8E	10*	4007*	0.8*	160*	10*	1637*
3403 M. L. BRUCKMAN	EAST NOBLE UNIT	SPAK MTN	10-11-3N-9E		3464		251*		1736*
* 380 BRUEK & ROBINSON	NORTH CLAY CITY	CYRKRESS	8,9,16,17-3N-8E		4500*		311*		4000*
4064 CAKL BUSBY	GSTN,MS,MNMS,FSL,MCN	AUX VASES	24,25-13-6E	600*	1345*	40.6*	105*	600*	1293*
4107 CONTINENTAL OIL	WILSON 16	SPAK MTN	15-1S-8E		212		13		53
*4073 COY OIL CO	EAST GEFF	AUX VASES	8,17-1S-8E		581		32		18
4147 CULLUM OIL CO.	ROBERTSON-BING-CREWS	AUX VASES	27,28-1S-6E	150*	3494*	8.3*	243*	150*	1925*
*1913 UDKAN OIL PROR.	BEKRODER	MCCLOSKEY	4-6N-10E		141		17		
4082 DUNCAN LSE-ROY	CREWS-SHORT COUP	AUX VASES	33-1S-8E	87	1346	2.3	174		
4092 DUNCAN LSE-ROY	CREWS MIDDLE UNIT	AUX VASES	33-1S-8E	192	3710	5.2	165		
*4109 F AND W OIL CO.	MILLER-LAMB-RICH U	OMAHA	29-1N-8E		*		14*		
		SPAK MTN							
4146 F AND W OIL CO.	MT. ERIE UNIT	MCCLOSKEY	33,34,35-1N-8E		8541*	9.3	1087	90*	5079*
4174 FARRAR OIL CO.	MOLT	AUX VASES	29-1N-8E	100*	1339**	4.9*	154**	80*	456**
		MCCLOSKEY							
4156 FRENK REIR COOP	BEARO, BORAM, WILSON U	AUX VASES	10-1S-8E	4*	810**	1.0*	383*	4*	228*
1927 FINKS OIL CO.	ROUTE 33	MCCLOSKEY	27,28,34-7N-10E	150*	1960*	8.0*	119*	150*	1960*
4175 DONALD W. GESELL	NE GEFF UNIT	AUX VASES	7-1S-8E	13	271*	3.2	49*	13	107*
4173 J. O. BOROON	BOTHELL	MCCLOSKEY	24-2N-7E	65*	759*	3.3**	96**	65*	750*
1906 GLEN GRIFFITH	WILLOW HILL COUR	MCCLOSKEY	6-6N-11E	*	116**		26**	*	245**
* 317 GULF OIL CO	S. STANFURU U	AUX VASES	8,9,16,17-2N-7E		2805		370		810
*4130 GULF OIL CO	WINONA	MCCLOSKEY	12-1S-8E		25		6		300
*4094 ILL. LSE, UR.	BLACKBURN	AUX VASES	3-1S-8E		47		6		10
*4141 ILL. LSE, UR.	MILL, THOMPSON, WRN,	AUX VASES	27-2N-7E		610		36		235
4197 ILL. LSE, OP.	BORAM	AUX VASES	4-1S-8E		15		61		99
4198 ILL. LSE, OP.	J. O. UGODLAS	OMAHA	26-1S-7E		205		41*		230*
4184 ILL. MID-CONT.	CREWS-SHORT COOP	AUX VASES	33,34-18-8E		503		34*		503*
*4119 KIRBY PETROLEUM	KIRBY	AUX VASES	16,17-1N-7E		2464		360		391
1925 U. R. LEAVELL	NEWTON EAST	MCCLOSKEY	34-7N-10E,13-6N-10E	70*	1080*	4.7*	77*	70*	822*
		ST LOUIS							
4057 E. K. LEWIS	ULLIE GROVE	MCCLOSKEY	27-1N-8E	10*	257*	0.7*	49**	10*	257*
4056 UAL V LOVE	ATKES	SPAK MTN	8-1S-7E	*	*	12.5*	78*	60*	360*
4140 UAL V LOVE	BAKNARU-MOLMAN-LISTON	AUX VASES	10-1S-7E	30*	640*	2.6*	80*	30*	548*
*3416 KAKATHON OIL CO.	NOBLE COOR U	MCCLOSKEY	8-3N-9E		**		**		**
3421 MURVIN OIL CO.	WAKEFIELD POUL U	CYRKRESS	24-4N-9E		2966**	3.7*	473*	75*	3274*
*4055 MURVIN OIL CO.	ELM RIVER FLOOD	AUX VASES	32,33-1N-8E		1330**		170**		850**
*4058 MURVIN OIL CO.	BORAM	AUX VASES	33-1N-8E		**		53*		250*
4060 MURVIN OIL CO.	PIKE	AUX VASES	14-1S-7E	70*	1017*	3.4**	50**	70*	1017*
* 300 U M AND F OIL CO	N CLAY CITY U	MCCLOSKEY	5,8-3N-8E		319*		154*		836*
372 PARTLOW, COCHNOR	HENDERSON & SKELTON	CYRKRESS	17-2N-8E	150*	1423*	9.8*	236*	150*	1450*
		AUX VASES							
4069 PARTLOW, COCHNOR	MOSELTON & GILL	SPAK MTN	20-2N-8E	100*	1210*	4.6*	140*	100*	1260*
		CYRKRESS							
* 301 PHILLIPS PET. CO	MINNIE	SPAK MTN	24-3N-7E		181		79		480
3427 BERNARD POOLSKY	COEN U	AUX VASES	36-5N-9E	4	240	1.0	40	*	*
3449 BERNARD POOLSKY	CLARK-GRUBB-EVANS	CYRKRESS	18-3N-9E	60*	770*	6.3*	151**	60*	770*
4087 BERNARD POOLSKY	W JEFFERSONVILLE	AUX VASES	15,16-1S-7E	12	658	1.0	44	11	193
4149 BERNARD POOLSKY	MARSHALL	AUX VASES	16-1S-8E		640*	1.0	244	6	464
4159 BERNARD POOLSKY	NW FAIRFIELD U	OMAHA	26,35-13-7E	49	2723	12.7	351	15	447
4194 BERNARD POOLSKY	GRAY	AUX VASES	16,21-1S-8E	27	1514	2.9	99	11	649
384 E & KEYNOLDS EST.	WEILER, ESENS, MUSLEY,	CYRKRESS	33,34-3N-8E		1005**	0.9*	280*		1005*
		AUX VASES							
*1901 ROBINSON PROD.	NE MCCLOSKEY U NO 1	MCCLOSKEY	13,14,24-7N-10E		1367		282		328
*1902 ROBINSON PROD.	WILLOW HILL, SE BAR	MCCLOSKEY	23,26-7N-10E		3326		634		1113
4046 ROBINSON PROD.	GILL-BISSET-SMITH	AUX VASES	24-2N-7E	90	220	13.1	34	90	220
4048 ROBINSON PROD.	RINKEL	AUX VASES	33,34-1N-8E	22	26	14.7	19	22	26
4067 ROBINSON PROD.	NE GEFF-MURPHY	AUX VASES	5,6-1S-8E	120	826	8.3	112	30	175
		AUX VASES							
4068 ROBINSON PROD.	CARTER U	OMAHA	28,29,32,33-1N-8E	38	212	8.8	43	3	6

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78						INJECTION WATER		REMARKS
FIELD, COUNTY		NET PAY (FT)	PUR (%)	OIL GRAB PERM (MO) (API)	DATE FIRST INJ.	NO. OF WELLS		ACRES UNDER INJ.	SOURCE		TYPE		
PROJ. NO.	DEPTH (FT)					NO. INJ.	PROD.		SH SAND PRODUCED (S)	SM = SHALLOW (M)	FRESH (F)	MIXED (M)	
CENTERVILLE E, WHITE CONTINUED													
4379	3080	19.6	19.6	109		18	15	350					
	3225	6.0				1	2	60					
4394	2910	15.0	14.4	109	36.6	10-63		2	2	100	PRODUCED (B)		*ESTIMATEU
4376	2500	16.0	15.7	21	35.4	09-63		2	2	40	PURCHASEU (R)		*ESTIMATEU
4246	2530	6.0			36.6	10-50	09-57				PRODUCED (B)		*ACKRAGE & WELLS INCL. w/4379
CENTRAL CITY, MARION													
2623	864	22.0			34.0	10-64		1	5	60	PRODUCED (B)		*ESTIMATEU
CENTRALIA, CLINTON, MARION													
419	3450	99.9			40.0	11-66		21	32	1080	AUX VASES (B)		*ESTIMATEU
403	1360	10.0			38.0	10-55	01-74	1	3	40	CYPRESS, PHOD (B)		*ESTIMATEU
420	2880	29.0			38.8	08-66		2	4	269	PRODUCED (B)		*ESTIMATEU
412	1200	10.0		80	34.0	11-60		3	6	45	PRODUCED (B)		*ESTIMATEU SINCE 1970
416	1360	10.0			35.0	09-70		1	5	100	PRODUCED (B)		*ESTIMATEU SINCE 1975
404	1200	20.4	20.2	225	34.8	05-56		90	69	1450	PENN. A V, DELV SOURCE I		
	1350	19.6	19.6	186				75	88	1560	CYP, BEN, PHOD (B)		
408	3950	22.0	10.0		39.8	11-51	03-53	2	12	160	DEVONIAN (B)		
CHESTERVILLE E, DOUGLAS													
401	1725	10.0	16.0	167	38.0	04-61	08-73	14	24	380	RIVER, PHOD (M)		
CLARKSBURG, SHELBY													
43803	1775	11.0				10-74	10-75	1	2	50	PRODUCED (R)		*ESTIMATEU
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY													
1900	2645	8.0			40.0	09-53	04-60	3	3	40	GRAV, PHOD (M)		
43402	3000	5.0			38.0	07-54	04-61	1	1	20	CYPRESS (R)		
1928	3275	25.0				6-66			5	4	80		*ESTI+ADJ TO PROJ. 1922-SINCE 66
3419	2540	28.0	18.0	140		07-60		5	9	100	PENN SO, PHOD (B)		*ESTIMATEU SINCE 1970
362	2970	10.0			36.0	12-66	04-73	1	1	20	PENN SU, PHOD (B)		
381	2960	16.0				11-71		3	5	80	PRODUCED (B)		*ESTIMATEU
1915	2960	10.0	13.6		35.1	03-62		2	3	50	PENN SO, PHOD (B)		*ESTIMATEU SINCE 1968
3405	2975	5.0	15.0	24		07-57		1	2	448	PRODUCED (B)		*ESTIMATEU SINCE 1970
3403	2950	11.0			38.0	05-55	12-71	5	18	260	PRODUCED (B)		*NOT OPERATED 1968-1971
360	2630	15.0				06-58	03-67	3	13	160	SM, SO, PHOD. (M)		*ESTIMATEU
4084	3090	10.0				1-72		3	7	120	PRODUCED (B)		*ESTIMATEU SINCE 1974
4107	3160	10.0				04-55	04-63	1	2	40	CYPRESS, PHOD (B)		
4073	3075	10.0	19.0	30	40.0	01-69	01-72	3	3	100	SH SAND (F)		
4147	3130	12.0			39.0	01-61		4	10	250	PENN SU, PHOD (B)		*ESTIMATEU SINCE 1973
1913	2850	16.0				10-60	12-64	1	10	240	CYPRESS (B)		
4082	3100	21.0				04-67		2	4	70	PRODUCED (B)		
4092	3110	28.0				08-65		5	4	260	PENN SU, PHOD (R)		
4109	3060	15.0				08-50	01-63	4	4	150	CYPRESS (B)		*DUMP FLOOD, NO RECORD
	3080	15.0						4	4	150			
	3100	15.0						4	4	150			
4146	3000	11.0	13.0	16	40.2	10-60		6	12	720	SH SU, PHOD (M)		*SWU INTO CYP. *EST. SINCE 71
4174	3121	7.0				08-64		1	3	40	PRODUCED		*ABU 1965-68; *EST. SINCE 1976
								1	3	40			
4156	3100	14.0			40.0	07-62		2	4	200	PENN SO (R)		*SWU SINCE 12-69; *EST; NU DATA 76
1927	2950	23.0				06-69		1	8	110	PRODUCED (B)		*ESTIMATEU
4175	3031	15.0	20.0	27	38.5	02-64		2	2	50	PENN SU, PHOD (B)		*TEMP ABU 9-70 TO 1-77
4173	2990	5.0			37.0	07-63		1	1	20	PRODUCED (B)		*ESTI+AFFLICTED BY ADJ. A.V. FLOOD
1906	2634	9.0	15.0	24		06-57		1	1	70	PRODUCED (B)		*EST. NU DATA 67-74; *NO DATA 78
317	2975	11.8	19.8	97	38.8	05-54	12-60	9	8	170	PENN SO, PHOD (R)		
4130	3115	8.0	12.0		40.1	08-55	10-56	1	1	12	TAR SPRINGS (B)		
4094	3031	26.0				04-66	04-69	1	1	20	PENN SU (R)		
4141	3130	12.0			32.6	03-60	10-65	3	7	160	PRODUCED (B)		
4197	3040	22.0				01-66	01-73	1	1	20	PRODUCED (B)		*INJ SUSPENDED 8-66
4198	3213	20.0			38.0	10-67	08-68	1	3	40	PENN SU (R)		*NO DATA BEFORE 1965
4184	3150	15.0	14.0	40		12-65	05-74	3	3	60	PENN SO (B)		*ESTIMATEU
4119	2900	5.0	19.0		38.0	01-55	05-62	4	15	400	PENN SO, PHOD (B)		
1925	2650	15.0				08-70		4	12	280	CYP, SURFACE (M)		*INACTIVE 1972-73; EST SINCE 74
	2950	18.0						3	12	280			
4057	3065	12.0				12-58		1	1	30	PRODUCED (R)		*EST. +INCL PRIM SINCE 1958
4056	3250	14.0				8-69			1	20	AUX VASES		*ESTI+ACCIDENTAL OR DUMP FLOOD
4140	3135	13.0			38.4	12-60		2	4	60	PRODUCED (B)		*ESTIMATEU SINCE 1970
3416	2500					08-54	10-60	3	8	120	PRODUCED (B)		*INCL WITH 3409
3421	2535	21.0			35.0	10-60		6	13	320	TAR SPGB (B)		*INJ. TERMINATED 1973; *EST
4055	3025	15.0				8-63	8-69	5	8	150	PRODUCED (B)		*EST. *NO DATA
4058	3000	24.0				10-60	12-72		2	30			*EST. *ADJ. TO 4146 1960-72
4060	3100	9.0				01-70		2	6	110	PRODUCED (R)		*EST +INCL PRIM SINCE 1-71
300	3010	5.0				06-55	01-76	4	8	220	RIVER, PHOD (M)		*ESTIMATEU
372	2650	10.0				06-69		1	4	80	PRODUCED (B)		*ESTIMATEU
	2920	20.0						1	4	80			
	3002	8.0						1	5	80			
4069	2640	12.0				06-68		1	5	60	PRODUCED (B)		*ESTIMATEU
	3010	8.0						1	5	60			
301	2990	30.0	14.0	2000	38.5	07-53	05-58	1	1	20	PROD (B)		
3427	2800	6.0			36.0	05-64		1	4	50	PENN SO, PHOD (B)		*DATA NOT AVAILABLE
3449	2615	9.0				07-62		1	5	60	PRODUCED (R)		*EST. +INCL. PRIM. SINCE 66
4087	3120	13.0				06-67		3	6	120	SH WELL (F)		
4149	3120	20.0			38.0	11-65		3	8	120	PURCHASEU (F)		*INJECTION CURTAILED 10-73
4159	3200	7.2	13.0	200	40.1	10-62		3	4	480	PENN SO (B)		
4194	3150	12.0			39.0	11-65		4	9	100	CYPRESS (B)		
384	2600	20.0				06-61		1	11	120	PRODUCED (B)		
	2910	11.0							1	20			
	2975	4.0							1	20			
1901	2530	6.2	14.0		38.0	05-51	01-70	2	6	235	PRODUCED (B)		*ADJ. TO PROJECTS 335 & 358 SINCE 1961; INCL SOME SALEM UTL
1902	2580	8.2	14.0		40.0	05-53	01-70	3	5	415	SH SO, PHOD (M)		
4046	2884	8.0			39.0	8-76		1	5	70	PRODUCED (B)		
4048	3015	15.0	18.5	30	40.0	11-77		1	4	100	PRODUCED (B)		
4067	3075	7.5	19.0	35		08-71		6	8	236	PRODUCED (B)		
	3130	4.5						2	8	215			
4068	3015	6.5	18.5	30	37.0	09-71		1	4	165	WELL & PHOD (M)		

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO + = P.M. # = ABO & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION		
				TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78	
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY CONTINUED										
*4084	ROBINSON PROD.	WESLEY FELLEK	AUX VASES	7-1N-8E		368		83		408
4179	ROBINSON PROD.	MILLER & THACKER	AUX VASES	19-1S-8E	64	401*	2.1	71*	30	211*
*4115	ROBINSON, PUCK,	N PUCKETT U	AUX VASES	9-2S-8E		966		122		458
4116	ROBINSON, PUCK,	S PUCKETT U	AUX VASES	18-2S-8E		4337		24		179*
1918	HUBERT ROSE	LIBERTY W UNIT	MCCLOSKEY	16,21-5N-10E		319		24*		24*
1930	HUBERT ROSE	MCCLANE-MAY	MCCLOSKEY	8,17-6N-10E	50	850	4.1	172	50	850
1931	HUBERT ROSE	MATTINGLY	AUX VASES	5-5N-10E			4.0*	55*	30*	330*
			SALEM							
*3433	HUBERT ROSE	DUNDAS WEST UNIT	MCCLOSKEY	28,33-5N-10E		1384**		65**		170**
3436	HUBERT ROSE	SOUTH NOBLE UNIT	MCCLOSKEY	29,32-3N-9E	45*	1913*	0.4*	136*	45*	1112*
4166	HUBERT ROSE	SYCAMORE CONSLO	AUX VASES	24,23,24-2N-7E	320*	3733*	12.6*	271*	320*	2278*
			MCCLOSKEY							
4111	ROYALCO, INC.	M.OSTEMMAN	AUX VASES	14,23-18-8E	120*	1189*	4.6*	135*	80*	474*
			OHAMA							
			MCCLOSKEY							
* 347	J. W. KUUY ORLG.	EO WILSON	AUX VASES	32-3N-8E		235		44		41
* 363	J. W. KUUY ORLG.	CLARK LEASE	CYPRESS	20-3N-8E		62		7		32
4088	J. W. KUUY ORLG.	FLEXTER	AUX VASES	3-1N-7E	10*	526*	0.7*	144*	10*	353*
3444	FRED SEIP	K. S. SHATTO	MCCLOSKEY	20-3N-9E	130*	1429*	6.4*	149*	130*	1469*
3445	SMAKESPEARE OIL	RUNYON-TOTTEN U	SPAK MTN	25-3N-9E	144	557	6.7	28	109	292
*4117	SMAKESPEARE OIL	E. BANKER SCHOOL U	CYPRESS	22-2N-8E		801		219		587
*4118	SMAKESPEARE OIL	E. GLEFF UNIT	AUX VASES	12,13-1S-7E, 7,17,18-1S-8E		9553		466		3400
			AUX VASES	26,33-1N-7E,3,4-1S-7E	100*	3611*	4.7*	206**	100*	2292**
			OHAMA			467				
			MCCLOSKEY			2900				
4177	SMULMAN BROTHERS	NE GEFF U	AUX VASES	1,11,12,13-1S-7E	75*	9814*	5.1*	1311*	75*	4580*
4196	JOE SIMPKINS OIL	MEISNER UNIT	AUX VASES	3-2S-8E,33,34-1S-8E		2344		239*		1033*
*3428	WAYNE SMITH, OP.	UNION HILL U	AUX VASES	1,12-4N-9E, 38-5N-9E		5924		156		3127
			SPAK MTN			427**		22*		240*
4190	S. ILL. OIL PROD	SOUTH CISNE U	AUX VASES	27-1N-7E	20*	785*	1.1*	92*	20*	588*
*1907	M. M. SPICKLER	WILLOW HILL	MCCLOSKEY	36-7N-10E						
4047	TAMARACY PET.	ANUSN-FRHN-JRON-WILSN	AUX VASES	23-2N-8E	25*	1025*	0.5*	111**	25*	1025*
4079	TAMARACY PET.	BLACK OAK SCHOOL U	AUX VASES	22,23,28,27-1S-8E	703	7927	14.4	313	104	1326*
4081	TAMARACY PET.	CLAY UNIT	AUX VASES	9,10,15,16-1S-8E	245	2927	0.3	103	8	459*
*4095	TAMARACY PET.	EAST CLAY	AUX VASES	10-1S-8E		284		14		36
4108	TAMARACY PET.	PTERCE	SPAK MTN	22-2N-8E		1013		86		922
4157	TAMARACY PET.	S. M. MT. EXIE U	AUX VASES	4-1S-8E	234	2083	3.2	96	67	435
4191	TAMARACY PET.	CISNE UNIT	AUX VASES	3,9,10-1S-7E	65	3010	1.6	391	54	769
4193	TAMARACY PET.	WILSON U	AUX VASES	23,26-2N-8E	30*	2845*	3.1*	347**	30*	1354*
*4132	TEXACO, INC.	E. GALLUMER	MCCLOSKEY	2-2S-7E		32				
*4144	SAM TIPPS	W GEFF U	AUX VASES	16,17,21-1S-7E		1690		105		1137
302	UNION OIL CALIF.	T M & S UNIT	CYPRESS	9,10-2N-8E	169	623	4.7	70	72	430
304	UNION OIL CALIF.	NE WOODSIDE SCHOOL	CYPRESS	16,17-2N-8E	16*	1637*	23.6	172	82	718
			MCCLOSKEY							
335	UNION OIL CALIF.	WEILER SCHOOL CONSLO	CYPRESS	33,34-3N-8E,3,4-2N-8E	440	8650	22.9	1691	124	4094
			MCCLOSKEY							
341	UNION OIL CALIF.	W. CLAY CITY	AUX VASES	10-2N-7E	668	5655	17.9	285	283	2427
			MCCLOSKEY							
349	UNION OIL CALIF.	THOMAS SCHOOL U	CYPRESS	5,6,7,8,17,18-2N-8E, 12-2N-7E	552	24883	35.2	2286	747	11808
			MCCLOSKEY							
358	UNION OIL CALIF.	BUNNYVILLE C *	CYPRESS	27,28,29,32,33-3N-8E, 4,5,6-2N-8E	976	16597	71.2	1004	1004	12433
			AUX VASES							
			MCCLOSKEY							
1910	UNION OIL CALIF.	E NEWTON CONSLO	MCCLOSKEY	27,34-7N-10E	290	6318	11.0	442	90	2467
1911	UNION OIL CALIF.	MT. GILEAD CONSLO	MCCLOSKEY	19,20,29,30-5N-10E	895	14312	26.6	589	832	6029
1919	UNION OIL CALIF.	N. DUNDAS U	AUX VASES	7,8,9,18-5N-10E	696	23082	40.7	964	704	10314
			MCCLOSKEY							
1922	UNION OIL CALIF.	S BOUS U	AUX VASES	33-6N-10E, 4,5,6-5N-10E	1274	24081	48.9	1741	860	11741
			MCCLOSKEY							
1924	UNION OIL CALIF.	HONEY CONSLO	SALEM		275	5251	20.1	329	549	4837
			AUX VASES							
			MCCLOSKEY							
3404	UNION OIL CALIF.	OLD NOBLE	CYPRESS	3,4,5,8,9-3N-9E, 32,33-4N-9E	5960	144447	126.4	6614	6039	143893
			MCCLOSKEY							
3406	UNION OIL CALIF.	SW NOBLE U	SPAK MTN	11,12-2N-8E		3810		141		1056
3418	UNION OIL CALIF.	WAKEFIELD CONS	CYPRESS	13,14,22,23,24,25,26, 27-4N-9E	31	40244	11.3	3876	365	28776
			CYPRESS							
3425	UNION OIL CALIF.	GUYOT CONSLO	CYPRESS	35,36-3N-8E,1,2-2N-8E	59	6217	4.9	374	47	1885
			MCCLOSKEY							
3429	UNION OIL CALIF.	NE WAKEFIELD CONSLO	CYPRESS	13,14-4N-9E	12	440	0.6	44	8	114
3431	UNION OIL CALIF.	HOG HUN CONSLO	AUX VASES	17-3N-9E	12	2159	1.7	102	45	847
			MCCLOSKEY							
3434	UNION OIL CALIF.	SUGAR CREEK UNIT	SPAK MTN	26,27-4N-9E	*	1083*	1.3	64	6	72
			MCCLOSKEY							
3437	UNION OIL CALIF.	S DUNDAS CONSLO	AUX VASES	30,31-5N-10E	342	3346	3.0	129	148	1269
			MCCLOSKEY							
3438	UNION OIL CALIF.	B-B CONSLO	MCCLOSKEY	27,28-4N-9E		564**	1.5	42	20*	259**
3440	UNION OIL CALIF.	W A M CONSLO	AUX VASES	13,14,23,24,26-4N-9E	130	2734	8.2	109	46	629
			SPAK MTN							
3441	UNION OIL CALIF.	R M & P CONSLO	MCCLOSKEY	24,25-3N-6E	309	2476	1.7	37	83	393
3442	UNION OIL CALIF.	UITEN WAKEFIELD C	CYPRESS	14,23-4N-9E	*	954*	2.9	53	14	220
			AUX VASES							
3443	UNION OIL CALIF.	LU-BERG AREA	CYPRESS	25-4N-9E	162	1800	9.5	197	13	73
3446	UNION OIL CALIF.	COLBURN CONSLO	AUX VASES	4,5-3N-9E	584	1129	63.0	141*	490	1667
			MCCLOSKEY							
			BT, LOUIS							
			SALEM							
4065	UNION OIL CALIF.	BANKER SCHOOL CONSLO	CYPRESS	15,21,22,28-2N-8E	64	2300	8.5	853	34	1261
4070	UNION OIL CALIF.	E BANKER SCHL	CYPRESS	21,28-2N-8E	119	811	13.9	133	94	454
			AUX VASES							
*4074	UNION OIL CALIF.	SE WOODSIDE SCHOOL	MCCLOSKEY	20,29-2N-8E		370		8		28
4075	UNION OIL CALIF.	S WOODSIDE SCHL	AUX VASES	19,20,30-2N-8E, 25-2N-7E	169	2687	6.6	223	112	1185
			MCCLOSKEY							

RESERVOIR STATISTICS (AVG. VALUE)			DEVELOPMENT AS OF 12-31-78						INJECTION WATER				
FIELD, COUNTY						NO. OF			SOURCE			TYPE	
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE ADD.	INJ.	PROD.	ACRES UNDER INJ.	SU = SAND GH = GRAVEL PNU=PRODUCED SH = SHALLOW	(F)=FRESH (B)=BRINE (M)=MIXED	REMARKS
CLAY CITY C, CLAY, JASPER, RICHLAND, WAB													
CONTINUED													
*4084	2933	11.0	18.0	35	39.3	03-67	01-74	1	1	50	PRODUCED (B)		
4179	3146	7.8	18.0	75	37.5	08-58	00 DU	2	1	80	POND, PROD (M)		*INJ. SUSP.-1970-1977
*4115	3150	8.0	19.0	115	39.0	01-56	05-63	6	4	172	SEWAGE, PROD (M)		
*0110	3200	14.8	20.0	80	39.0	08-54	05-63	7	11	243	SEWAGE, PROD (M)		
*1018	2900	7.0				04-65	10-76	1	1	100	PENN SU, PROD (B)		*SHUT DOWN 1972
1930	2800	12.0				7-63		2	4	100	CYPRSS&PROD(B)		*EST.,+INCL.PRM.SINCE 1963
1931	2690	14.0				6-66+		+	1	10	+		*EST., +AUJ. TO 1921 ANU 1922 SINCE 1966
	3250	25.0						+	1	20			*EST +SHUT DOWN 1977
*3433	2870	5.0	13.0	120		01-65	10-78	2	5	180	PRODUCED (B)		*ESTIMATEU
3436	3005	9.0				09-66		3	5	170	PRODUCED (B)		*ESTIMATEU
*0106	2930	20.0	19.0	75		11-64		2	4	440	PENN SU, PROD (B)		*ESTIMATEU
	3010	20.0						2	2	100			
4111	3050	15.0				06-71	05-75	1	3	80	PENN SAND, PROD (B)		*ESTIMATED SINCE 1976
	3100	8.0				04-58		1	2	70			
	3150	10.0				06-71	05-75	1	2	70			
* 347	2933	15.0			39.2	02-59	01-72	1	2	40	CYPRSS (B)		
* 353	2678	10.0				06-68	01-74	1	1	30	SURFACE PROD (M)		
4088	2990	12.0	19.0	22	38.5	12-61		1	2	120	CYPRSS, PROD (B)		*ESTIMATEU SINCE 1976
3444	3000	5.0	16.0	1307	39.0	01-61		1	1	40	PRODUCED (B)		*ESTIMATEU SINCE 1970
3445	3080	7.0			38.0	12-75		3	9	150	PENN SU (F)		
*4117	2639	12.5	10.5	43	34.4	01-57	12-71	3	6	110	SH SU (F)		
*4118	3065	15.9	19.0	85	38.7	01-57	01-72	30	31	588	SH SU, PROD (M)		
4166	3080	8.0				12-63		6	13	250	PENN SU (B)		*INCL ALL PAYSJ +EST SINCE 1967
	3170	5.4				12-63	12-66	3	5	160			
	3200	19.0				12-63	12-67	7	20	960			
4177	3075	20.0	18.0	75		09-64		30	18	1127	PENN SU, PROD (B)		*ESTIMATEU SINCE 1975
*4196	3170	18.0			39.0	06-69	12-72	20	19	480	PENN SU, PROD (B)		*ESTIMATEU
*3428	2600	10.0	18.0	50	39.0	04-64	6-74	30	25	500	PENN SU, PROD (B)		*ESTIMATEUJ +SHU SINCE 1974
	2900	10.0				6-77		1	2	40			
4190	3004	16.0			38.0	10-65		1	4	40	PENN SU, PROD (B)		*ESTIMATEU
*1907	2615	10.0				06-52	12-54	1	1	20	PRODUCED (B)		*DUMP FLOW, NO DATA
4047	2960	13.0				4-65		4	5	110	PRODUCED (B)		*EST.,+AUJ.TU 4193 SINCE 64
4079	3100	14.0	20.1	8	39.0	09-68		7	19	680	PENN SU (B)		
4081	3100	9.0				03-68		4	7	220	SH GRAVEL (F)		*ESTIMATEU
*4095	3060	10.0				02-69	02-72	3	2	40	SH GRAVEL (F)		
*4108	3016	10.0				02-54	12-61	2	2	80	PRODUCED (B)		*ESTIMATEU
4157	3040	10.1	15.9	24	39.0	10-62		3	3	100	PURCHASEU (B)		
4191	3100	10.0	18.0	50	34.5	11-65		6	6	180	PENN SU, PROD (B)		
4193	2960	14.0	19.0	30	39.0	01-65		11	10	220	SH GRAVEL (F)		*EST., +SHU SINCE 7-76
*4132	3255	6.0			38.0	01-58	07-59	1	1	40	CYPRSS, PROD (B)		
*4144	3150	13.0	19.0	85		11-60	01-64	9	10	150	PENN SU (B)		
302	2610	15.0	18.0	65	37.2	05-72		1	4	200	PRODUCED (B)		
304	2620	16.0	18.0		37.6	04-68		2	2	80	PENN SU, PROD (B)		*INJECTION RESUMEO 9-78
	3000	25.0	15.0					4	2	280			
335	2596	17.0	68.0	24		07-61		8	7	320	PENN SU, PROD (B)		
	2957	15.0	15.0					3	5	280			
341	2960	15.0			38.0	6-71		1	4	60	PRODUCED (B)		
	3070	10.0	16.0			4-70		4	6	240			
349	2650	20.0	13.0	200		07-65		38	34	1480	PENN SU, PROD (B)		
	2900	20.0						8	12	200			
	3000	27.0						6	15	700			
358	2620	16.0	18.0	24	38.5	05-65		24	42	2300	PRODUCED (B)		*INCL FURMER C WILKIN
	2880	8.0	10.0					9	19	300			
	2950	11.0	18.5					11	15	400			
	3000	25.0	15.0					11	14	700			
1910	2670	8.0	15.0	24		10-60		5	6	180	CYPRSS, PROD (B)		
1911	2750	10.0				01-66		7	8	880	PRODUCED (B)		
1919	2720	37.0	18.0	87		07-65		16	28	1250	PENN SU, PROD (B)		
	2791	31.0						13	24	1320			
1922	2720	12.0				11-66		15	22	310	PRODUCED (B)		
	2900	11.0						12	18	570			
	3400	32.0						15	16	680			
1924	2720	11.0	18.5			08-68		4	4	200	PRODUCED (B)		
	2780	25.0	15.0					3	7	200			
	3297	13.0	11.0					4	5	360			
3404	2590	15.0	15.0	24	36.8	06-54		19	67	1550	PRODUCED (B)		
	2930	10.0						11	30	1702			
*3406	2984	6.0	15.0	75		05-57	03-66	2	3	340	CYPRSS, PROD (B)		*ESTIMATEU
3418	2545	32.0	17.0	120		05-59		12	20	1640	PENN SU, PROD (B)		
3425	2620	20.0	15.0	75		12-63		9	8	500	PENN SU, PROD (B)		
	3000	20.0						5	7	400			
3429	2579	15.0	18.0	65		11-64		1	1	100	PENN SU, PROD (B)		
3431	2683	25.0	15.0	75		10-65		3	3	200	CYPRSS, PROD (B)		
	2967	7.0						3	3	229			
3434	2925	5.0				05-66		2	1	300	PENN SU, PROD (B)		*INJECTION CEASEO 2-73
	2950	5.0						3	1	300			
3437	2776	11.0			38.5	06-68		1	3	80	SUB-SURFACE (B)		
	2838	25.0						1	3	80			
3438	2983	25.0	15.0		39.6	10-68		1	3	240	PRODUCED (B)		*ESTJ +INJ DISCONTINUED 8-73
3440	2676	27.0	15.0		38.1	09-69		1	3	80	WATER SOURCE WELL (B)		
	2905	15.0	14.0					4	3	150			
3441	2940	11.0	18.0		38.5	04-70		2	1	120	PRODUCED (B)		
3442	2619	12.0				12-69		1	3	50	PENN SU (B)		*INJ DISCONTINUED 1-77
	2676	14.0						1	4	50			
3443	2550	10.0	17.0	50	38.8	04-71		5	4	160	PRODUCED (B)		
3446	2860	18.0				12-76		8	8	620	PRODUCED (B)		*UNIT EFFEC, 8-1-75
	2970	10.0						2	5	440			
	3090	20.0						1	4	160			
	3450	20.0						1	1	400			
4065	2639	15.0	18.0	65		09-56		8	6	420	PENN SU, PROD (B)		
4070	2640	15.0	18.0	65	38.6	10-71		2	7	60	WELL (B)		
	2945	15.0	16.0	77				1	3	60			
*4074	3025	14.0	16.0		38.6	05-69	11-73	3	1	80	PRODUCED (B)		
4075	2915	10.0				05-69		3	6	200	PRODUCED (B)		
	3016	8.0						3	5	200			

TABLE 11. Waterflood operations

GENERAL INFORMATION						PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO + = P ₂ M ₂ # = ABO & P ₂ M ₂	PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION			
				TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78		
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY CONTINUED											
4076	UNION OIL CALIF.	E URY FOKK	AUX VASES	25-13-6E	36	1093	1.6	87	36	259	
4080	UNION OIL CALIF.	WOODSIDE SCHL C	CYPRESS AUX VASES MCCLOSKEY	24-2N-7E; 19, 20-2N-8E 13-2N-7E; 18-2N-8E	672	17424	29.1	672	500	6106	
4091	UNION OIL CALIF.	CENT JORUAN SCHOOL	AUX VASES MCCLOSKEY	1-1N-7E	304	6543	11.9	525	168	4257	
4097	UNION OIL CALIF.	OGER CREEK S	CYPRESS MCCLOSKEY	11, 12-18-8E	119	3707*	1.0	123*	76	942*	
*4099	UNION OIL CALIF.	BRADELY U	AUX VASES	26-1N-7E		639		42			
4106	UNION OIL CALIF.	SW VANFOSSAN U	AUX VASES OMAHA MCCLOSKEY	25, 26, 27-1N-8E	291	6185	12.5	403	247	2688	
4112	UNION OIL CALIF.	JORDAN SCHOOL U	AUX VASES	27, 34, 35-2N-7E, 3-1N-7E		25655*	5.3	2371	124	14687	
*4113	UNION OIL CALIF.	NE JORDAN SCHOOL U	AUX VASES	25, 26, 35, 36-2N-7E		13813		1316		8468	
4114	UNION OIL CALIF.	VAN FOSSAN U	MCCLOSKEY	10, 14, 15, 22, 23, 26, 27- 1N-8E	133	16572	3.4	724	133	9145	
4131	UNION OIL CALIF.	SE JORDAN SCHOOL U	AUX VASES	2, 11-1N-7E	921	24837	20.1	1787	916	15954	
4135	UNION OIL CALIF.	OGER CREEK UNIT	AUX VASES	1, 2, 10, 11-15-6E	198	9530	11.2	725	227	5086	
4142	UNION OIL CALIF.	ELM RIVER U	MCCLOSKEY AUX VASES	30, 31-2N-8E	201	7101	5.2	566	148	3574	
4143	UNION OIL CALIF.	FELLER FLOOD CONSLO	AUX VASES	5, 6, 7, 8-1N-8E	271	14925	12.6	1771	433	10714	
*4152	UNION OIL CALIF.	OREGON SCHOOL U	AUX VASES	20, 21, 28, 29-1S-8E		2639		185		1579	
4153	UNION OIL CALIF.	SE ENTERPRISE U	AUX VASES	24-1N-8E		1115	2.4	68	1	223	
4164	UNION OIL CALIF.	E. JORDAN SCHOOL C	AUX VASES MCCLOSKEY	1-1N-7E, 6-1N-8E, 35, 36-2N-7E	1676	40233	37.3	3163	1553	25462	
4176	UNION OIL CALIF.	S JORDAN SCHOOL U	AUX VASES	11, 12-1N-7E, 7-1N-6E	696	15613	24.6	1592	734	7246	
4185	UNION OIL CALIF.	ZIP CONSLO	CYPRESS AUX VASES MCCLOSKEY	4-1N-8E; 33, 34-2N-8E	703	15490	30.3	1764	646	9132	
4187	UNION OIL CALIF.	SOUTH CIGNE CONSLO	AUX VASES MCCLOSKEY	27, 34-1N-7E	21	4916	2.7	134	74	1133	
4168	UNION OIL CALIF.	N LISNE U	AUX VASES MCCLOSKEY	22, 27-1N-7E	272	4059	5.5	256	191	4110	
4192	UNION OIL CALIF.	J. P. MOLT-A	AUX VASES OMAHA	30-1N-8E	37	256	5.0	22	12	53	
*4136	VERNE M. VAUGHN	BLESSING-CHRISMAN U	AUX VASES	31, 32-1N-8E		623		180		270	
4098	WAM WELL SERV.	DAVIS, JONES & MITLOCK	AUX VASES	9-18-7E		645		157*		530*	
*4180	WATKINS DRILLING	WATKINS-WITLOCK	AUX VASES	9-18-7E		152		45		143	
4151	M. WEINERT EST.	SOUTH BOYLESTON UNIT	AUX VASES	3, 4, 9, 10-28-7E	360	6146	13.6	363			
4162	M. WEINERT EST.	NORTH BOYLESTON UNIT	AUX VASES MCCLOSKEY	33, 34-18-7E; 3, 4-28-7E	987	17650	3.2	770			
1926	WICHITA INDUSTRIES	EAST NEWTON WF	MCCLOSKEY	22, 23, 26, 27-7N-10E	550*	5374*	89.2*	644*	550*	2687*	
4054	M. J. WILLIAMS	FRED BEST	AUX VASES	27-1N-8E			1.4*	40*			
4110	M. J. WILLIAMS	CONVINGTON UNIT	OMAHA MCCLOSKEY	25-13-6E; 19, 20, 29, 30, 31, 32, 33-18-7E		26912		1689*		14374*	
*345	ZANETIS OIL PROP	STANFORD LEASES	AUX VASES	3, 4, 10-2N-7E	122	1673	5.6	190	122	1673	
*1408	ZANETIS OIL PROP	P. KELLY 3	SPAH MTN	1-5N-9E		184		88		312	
*1909	ZANETIS OIL PROP	C. HARVEY 2	SPAH MTN	12-5N-9E		457		2			
*1917	ZANETIS OIL PROP	HINES-UCHS 'A' ETAL	SPAH MTN	4, 9-9N-10E		77		14		27	
1921	ZANETIS OIL PROP	KELLER 'A'-PAYNE HKS.	AUX VASES SPAH MTN	5, 6-9N-10E	77	2691	26.3	650	77*	2691*	
*4096	ZANETIS OIL PROP	SHAW	SALEM AUX VASES	34-19-8E		142		12		24	
COIL, WAYNE											
4077	BELL BROTHERS	COIL U	AUX VASES	17, 18, 19-13-5E	209	4627	25.3	779	215	1907	
4100	M. C. MCGRIE	YOUNGBLOOD U	AUX VASES	19-13-5E	114	1942	19.4	399	51	1243	
4052	STONE OIL LO	BYARS-GARRISON	ST LOUIS	19-13-5E			6.6	155**			
COIL N, WAYNE											
4053	M. D. BURRETT	KEEN-WILSON	AUX VASES	31-1N-5E		600		124**		600*	
COIL W, JEFFERSON											
2011	GULF OIL CO	COIL W U	AUX VASES	14, 15, 22, 23-1S-4E		1319		82		749*	
*2012	GULF OIL CO	COIL W U	MCCLOSKEY	22-1S-4E		81		*		*	
2026	STONE OIL CO	FARRINGTON	ST LOUIS	24-1S-4E	75	1234*	4.9	206*	44	478*	
CONCORD C, WHITE											
4281	ABSMER OIL CO	CONCORD UNIT	TAR SPRINGS	27, 2A-6S-10E		1169		251**		339*	
*4208	C. E. DREHM	CONCORD N UNIT	AUX VASES	1U-6S-10E		637		66			
*422A	GT LAKES CARBON	MCCLOSKEY	SPAH MTN	26-6S-10F		233		5		44	
4439	JIM HALEY	TULEY	MCCLOSKEY CYPRESS	21-6S-10E		115*		24*		115*	
*4309	HUMBLE O AND R	CONCORD CO-OP	AUX VASES TAR SPRINGS	26-6S-10F		1179		143		379	
*4205	BAHRUN KIDU	KENWIN=CONCORD	AUX VASES MCCLOSKEY	21-6S-10E		342		12		77	
*4299	U. R. LEAVELL	CONCORD	TAR SPRINGS	21, 22, 26-6S-10E		3964		402		1910	
*4331	U. R. LEAVELL	CONCORD	AUX VASES	26-6S-10E		370		55		289	
*4332	U. R. LEAVELL	TULEY	CYPRESS	21, 22-6S-10E		1276		57		455	
4358	U. R. LEAVELL	TULEY	AUX VASES	21-6S-10E		141		24*		66*	
4206	PHILLIPS PET, CO	KENWIN	CYPRESS AUX VASES SPAH MTN MCCLOSKEY	21-6S-10F	100	3276	5.8	305	73	2097	
*4229	PHILLIPS PET, CO	DALLAS	SPAH MTN	26-6S-10E		247		3		42	
4207	WEBSTOCK OIL CO.	TULEY	MCCLOSKEY CYPRESS AUX VASES	21-6S-10E	35*	2659*	2.6*	201*	35*	1615*	
4444	SLAGTEM PRODUCING	BROWN-SPILLMAN U	MCCLOSKEY CYPRESS	16-6S-10E		850		117**		850*	
*4325	TMUNUEMBIRU OIL	N CONCORD U	HARVINSBURG	9, 1U-6S-10E		6492		403		5632	

RESERVOIR STATISTICS (AVG. VALUE)						DEVELOPMENT AS OF 12-31-78				INJECTION WATER				REMARKS
FIELD, COUNTY		NET PAY (FT)	POR (%)	OIL PERM (MD)	GRAV (API)	DATE FIRST INJ.	DATE ADJ.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE			
PROD. NO.	DEPTH (FT)							INJ. PRD.		SU	GH	PR	SM	
CLAY CITY C, CLAY, JASPER, HIGHLAND, WAY														
CONTINUED														
4076	3119	11.0		38.3		05-69		2		200				WELL, PROD (B)
4080	2620	16.0	18.0	37.0		04-68		13	11	670				PENN SU, PROD (B)
	2950	11.0	10.5					8	10	670				
	3000	25.0	15.0					11	18	874				
4091	2930	15.0	18.0	41.5		03-68		6	5	290				
	2990	4.0	15.0					5	6	290				
4097	2725	8.0	15.0	24	39.4	02-50		2	3	200				PENN SU, PROD (B)
	3090	4.0						3	3	240				*NO DATA BEFORE 1965
4099	3013	20.0	22.0	100	39.0	05-60	09-68	3	3	60				PRODUCED (B)
4106	2975	20.0				01-67		14	15	460				WELL, PROD (M)
	3030	6.0						4	4	160				
	3073	6.0						3	3	120				
4112	2950	14.0	19.0	73		04-54		37	35	830				PENN SU, PROD (B) *INJ, UISC, 12-71
4113	2950	15.0	19.0	106		01-56	05-69	14	12	510				PENN SU, PROD (B)
4114	3070	10.0	13.0	200		01-54		2	5	1810				PRODUCED (B)
4151	2930	17.0	19.0	106		11-57		16	18	640				PENN SU, PROD (B)
4135	2990	8.0				12-66		16	16	893				PENN SU, PROD (B)
	3090	4.0						3	8	450				
4142	2910	20.0	18.0	87		09-58		5	7	210				PENN SU, PROD (B)
	3010	10.0						3	5	40				
4143	2950	16.0	16.0	77		09-58		20	12	1044				PENN SU, PROD (B)
4152	3186	14.0	19.0	35		01-61	08-67	14	13	280				PENN SU, PROD (B)
4153	2992	12.0	19.0	75		05-61		1	2	70				PENN SU, PROD (B)
4164	2950	15.0	19.0	77		01-63		35	24	1110				PENN SU, PROD (B) *INJECTION UISC 6-78
	3030	5.0						8	8	400				
4176	2930	23.0	18.0	75		08-64		15	9	880				PENN SU, PROD (B)
4165	2640	15.0	18.0	75		12-64		2	3	60				PENN SU, PROD (B)
	2945	15.0						19	20	820				
	3023	5.0						11	12	750				
4187	3005	35.0	18.0	75		12-64		10	7	400				PENN SU, PROD (B)
	3130	20.0						2	5	200				
4188	3005	35.0	18.0	75		11-64		12	7	640				PENN SU, PROD (B)
	3100	18.0						4	4	200				
4192	3030	20.0				01-75		1	2	40				PRODUCED (B)
	3090	30.0						1	2	40				
4136	3050	18.0				04-59	12-74	2	2	50				CYPRESS (B)
4098	3128	20.0				12-59	06-75	4	7	130				PENN SU, PROD (B)
4160	3129	11.0	18.0	75	38.0	11-59	10-66	1	1	40				POND, PROD (M) *ESTIMATED + COMBINED TOTAL
4151	3100	16.0				04-61		4	5	100				PENN SU, PROD (B)
4162	3094	16.0				02-62		5	8	130				PENN SU (R)
	3240	10.0						7	18	400				
1926	2760	15.0	15.0	25	40.0	10-71		5	14	320				CYP, PROD (B) *ESTIMATED SINCE 1973
4054	2960	11.0				1-70		+	3	30				*EST, ADJ TO ACTIVE WF SINCE 70
4110	3200	8.0	18.0	80	38.0	06-55	01-72	12	13	1600				PENN SU, PROD (B) *ESTIMATED 1967-69 AND DATA 70-71
	3250	6.0	13.0	300				21	20	1900				
345	2900	15.0				07-64	1-77	1	5	20				PRODUCED (B)
1908	2941	5.0				11-58	01-70	1	1	40				CYPRESS, PROD (B)
1909	2954	6.0				11-58	10-65	1	1	40				CYPRESS, PROD (B)
1917	2610	6.0				08-64	12-66	1	1	60				CYPRESS, PROD (B)
1921	2760	25.0	15.5	10	39.4	01-66		6	13	240				PRODUCED (B) *ESTIMATED
	2655	5.0						4	10	260				
4096	3265	15.0						2	7	130				
	3118	25.0				07-68	08-70	2	4	60				PURCHASED (B)
COIL, WAYNE														
4077	2900	15.2	19.7			01-69		6	5	240				PENN SU, PROD (B)
4100	2860	13.0	21.0	120		05-66		3	3	90				PENN SU, PROD (B)
4052	3020	10.0				1-70		+	5	70				*PRODUCED (B) *EST, ADJ TO 2026 + INCL PRIM,
COIL N, WAYNE														
4053	2600	12.0				1-61	12-71	1	4	50				PRODUCED (R) *EST, + INCL PRIM SINCE 1960
COIL W, JEFFERSON														
2011	2700	10.0	19.0	160		01-61	10-63	5	4	95				PENN SU, PROD (B) *INCL 2012
2012	2680	8.0				01-61	02-63	1	2	30				PENN SU, PROD (B) *INCL WITH 2011
2026	3000	8.0				06-69		3	7	160				PENN SU, PROD (B) *ADJUSTED BY OPERATOR
CONCORD C, WHITE														
4281	2274	11.0				09-59	01-72	4	3	80				PRODUCED (B)
4208	2950	12.0	21.1	218	35.1	10-52	10-62	2	2	40				GRAVEL, PENN SU (M) *EST 1965-71 + INCL PRIM PROD 1959-71
4228	2980	17.0				06-53	01-56	3	8	140				GRAVEL B&O (F)
	3020	5.0						3	5	140				
4439	2630	8.0				06-62		1	1	20				PRODUCED (B)
	2980	6.0						1	1	20				*ESTIMATED + '78 DATA UNAVAILABLE
4309	2260	10.0	20.9	75	36.0	12-60	12-67	2	3	50				SH SU, PROD (M)
	2890	11.0	20.9	75				1	1	20				
4205	3003	16.0				01-55	01-59	1	3	30				SR SU (F)
4299	2260	15.0	16.0	175	37.0	08-60	07-67	10	10	210				SR SU, PROD (M)
4331	2890	21.0	20.0	75	37.5	01-61	10-67	3	4	50				SR SU, PROD (M)
4332	2600	12.0	16.0	135	36.5	10-61	10-66	6	3	130				SH SU, PROD (M)
4358	2900	15.0				03-62	01-72	2	1	20				PRODUCED (B) *NO DATA 1967-1971
4206	2620	12.0				07-53		1	1	20				SH SU, PROD (M)
	2890	13.0						5	2	80				
	2980	4.0						1	1	40				
	3020	9.0						1	2	40				
4229	2960	15.0	15.0	50	36.0	06-53	11-57	1	3	40				SH SU, PROD (M)
	3020	15.0						1	3	40				
4207	2620	21.0				07-51		1	2	20				SH SU, PROD (M) *ESTIMATED SINCE 1969
	2900	22.0						1	3	50				
4444	3040	5.0						1	2	100				
	2645	15.0				6-58	1-73	1	4	60				PRODUCED (B) *EST, + INCL, PRIM PROD, 58-73
4325	2500	12.0	17.5	300	39.0	11-61	01-71	9	21	313				GRAVEL, PROD (M)

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY PROJECT NO., OPERATOR		PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
					TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
CONCOMO E C, WHITE		POMEROY	CYPRESS	26-6S-10E	15*	915	0.9*	650*	15*	915*
4445 ABSHER OIL CO		PEARCE	CYPRESS	35-6S-10E		205		39**		205*
4233 M. E. GARRETT		PEARCE U	AUX VASES CYPRESS	35-6S-10E, 2-7S-10E		310		12*		117*
COOKS MILLS C, COLES, DOUGLAS		COMBES ESTATE	SPAR MTN	24-14N-7E		76		1		
* 522 CHARLES R. GRAY		LOGAN-MOURE	SPAR MTN	13-14N-7E		61		1		
* 510 KUYKENNALL OIL CO.		BRADLEY #F	SPAR MTN	26,27,34,35-14N-7E		1914		56		875
* 513 KUYKENNALL OIL CO.		EASTON #F	SPAR MTN	27-14N-7E		556		12		243
* 505 S AND M OIL CO.		COOKS MILLS UNIT	SPAR MTN	9,15,16-13N-7E		3620		262		2800
* 508 SCHAEFER OIL CO.		COOKS MILLS U	SPAR MTN	18,19,20,30-14N-8E, 13,24,25-14N-7E		3165		211		954
CORDES, WASHINGTON		GILL EST., P. KUZUSZEK	BENUIST	26-3S-3W	355	4495	6.4	1536*	210	3804
4010 MOBIL OIL CORP.		COMDES COOP	BENUIST	14,15,22,23-3S-3W	439	28742	19.7	5026	467	32606
COMINTH, WILLIAMSON		COMINTH UNIT	AUX VASES	29-8S-4E	64	228	13.0	75		
4504 C. E. BREHM										
CUVINGTON S, WAYNE		HEIOINGEN-VOGEL	MCCLOSKEY	13-2S-6E		51		.		
*8120 DONALD G. GEARY										
CRUSSVILLE W, WHITE		CRUSSVILLE WEST U	AUX VASES SPAN MTN MCCLOSKEY	15,16-4S-10E		1199		46		245
*4404 CONTINENTAL OIL										
DALE L, FRANKLIN, HAMILTON, SALINE		WESTBROOK	AUX VASES	1-7S-4E/6-7S-5E		1015		110		
1309 L. E. BREHM		CANTHILL U	AUX VASES	4,5-7S-5E/33-6S-5E		3007		340		244
1513 L. E. BREHM		HOGAN U	AUX VASES	9,16-7S-5E		2427		73		276
1534 C. E. BREHM		P. M. SMITH	AUX VASES	33-6S-5E, 4-7S-5E		1588		275		637
1544 C. E. BREHM		HUNAL HILL S	AUX VASES	33,34-6S-5E,3,4-7S-5E		1371		10		93
1545 C. E. BREHM		MOURE U	AUX VASES	29,30,32-6S-5E		737		13		104
1552 C. E. BREHM		CROW U	AUX VASES	30,31-6S-5E		1282		155		101
1553 C. E. BREHM		WEST END	AUX VASES	19,20,30-7S-5E/ 25-7S-4E	145	7841	6.6	714	140	2216*
1556 JOE A. OULL		DALE W WF	AUX VASES	6-7S-5E	25*	608*	1.1*	57*	25*	276*
*1564 LUNCAN LSE-ROY		KNIGHT	AUX VASES	9-6S-6E		935		28		
1520 FAHRAR OIL CO.		TEOFORD	AUX VASES	26-5S-6E		436		138		256*
*1525 FAHRAR OIL CO.		TEOFORD	BETHEL	26-5S-6E		62		*		*
1566 FAHRAR OIL CO.		NW RURAL HILL U	AUX VASES	21-6S-5E	180*	1804*	9.2*	344*	150*	839*
1575 FAHRAR OIL CO.		URIAH FOSTER	AUX VASES	22-6S-5E	50*	451*	3.5*	48*	50*	450*
*1547 T. W. GEORGE EST.		CANTHILL S, UNIT	AUX VASES	7,18-7S-5E		3259		512		1640
1526 MEXMAN GRAHAM		J.M. STELLER	AUX VASES	27-5S-6E	20*	1793*	1.5*	127*	20*	1744*
1523 MEXMAN GRAHAM		DALE-MOOUVILL COUP	BETHEL	27-5S-6E		319		47*		
1537 MEXMAN GRAHAM		NELLIE PURTEN	AUX VASES CYPRESS BETHEL	34-5S-6E	60	5557*	3.1*	239**	60*	2532**
						487*		256*		1820*
						2495*		255*		1820*
1510 GULF OIL CO		W KUKAL HILL U	AUX VASES	11,14,15,22,23-6S-5E		10312		1405		5499*
*1511 GULF OIL CO		W KUKAL HILL U	OHARA	11-6S-5E		695		*		*
*1559 GULF OIL CO		M. E. PARKS "D"	OHARA	34-6S-5E		179		4		48
1536 UAVIU F. MERLEY		WEST END	AUX VASES	5-7S-5E		2262		235		630
1501 INLAND PRODUCERS		N KUKAL HILL U	AUX VASES	5,6,7,8-6S-6E		3372		295		1536
3620 LOUIS KAPP		KALEY	AUX VASES	29-7S-5E	50*	616*	3.5*	74*	50*	606*
1523 E. M. KAUFMAN		N. RURAL HILL U	AUX VASES	11,12-6S-5E		1900		119		1018
1524 E. M. KAUFMAN		S. E. RURAL HILL U	AUX VASES	16,19-6S-6E		2312		247		1492
1549 E. M. KAUFMAN		SW RURAL HILL UNIT	AUX VASES	23-6S-5E	35*	1973*	2.5*	166*	35*	1694*
1563 LAMU PETROLEUM		WOODWILSON U	CYPRESS BETHEL	6-6S-7E	401	16728	11.6	1597	519	8785
1578 LADD PETROLEUM		CULLUM-SUTTLE U	AUX VASES	4,5-6S-6E	58	984	1.6	37	30	533
1557 MAC OIL COMPANY		BURNETT WF UNIT	AUX VASES	1-7S-5E	33	971	0.5	71	31	480
*1533 MAKATHUM OIL CO.		UGLESBY-BRISWOLD	AUX VASES	17-6S-6E		211		2		16
1561 MAKATHUM OIL CO.		BRILL UNIT	HARDINSBURG CYPRESS BETHEL	6-6S-7E	270	9533	6.9	691	436	6318
1565 MAKATHUM OIL CO.		M. C. MOORE	AUX VASES	26,34,35-6S-5E	54	5680	5.5	282	70	1911
*1543 MANION CURP		FRJEL	OHARA BETHEL	34-5S-6E		3064		255		1592
*1502 PHILLIPS PET. CO		CANTHILL U	AUX VASES	5,6,7-7S-5E		1814		161		1116
1568 POLLACK BROS.		ADA UTAL #2	AUX VASES	5-6S-6E	60*	644*	2.3*	60*	60*	470*
1514 SMELL OIL CO.		HUNAL HILL UNIT	AUX VASES	11,12,13,14,23,24-6S-5E	43	64202	10.5	4896	316	44115
1512 SMERMAN OIL CO.		HUNAL HILL	MCCLOSKEY AUX VASES	13,23,24-6S-5E		5700		674*		4124*
1548 SMERMAN OIL CO.		BENEPIEL-ANNOLD	OHARA AUX VASES MCCLOSKEY	16,21-6S-7E	60*	3681*	2.6*	244*	60*	2450*
*1535 JOE SIMPKINS OIL		BANKER	AUX VASES	24-6S-5E		543		74		261
1567 JOE SIMPKINS OIL		DALE COOP	AUX VASES	10,15,16-6S-5E		200		15*		135*
*1507 STEWART PRODUCERS		BILL JONES	AUX VASES	3-6S-6E		171		4		4
1516 STEWART PRODUCERS		CRAODOCK-ANNES	AUX VASES	19-6S-6E		203		15*		96*
*1531 STEWART PRODUCERS		WILLIAMS HEINS COOP	AUX VASES	9,10-6S-6E		272		4		130
*1539 STEWART PRODUCERS		FLANNIGAN U	AUX VASES	25,29-6S-5E		722		14		142
*1540 STEWART PRODUCERS		HUNGATE U	AUX VASES	23-6S-5E		506		27		116
*1541 STEWART PRODUCERS		BRUNIT U	AUX VASES	6,7-6S-6E		266		190		151
1562 STEWART PRODUCERS		JONES J	AUX VASES	13-6S-6E		291		93*		105*
*1504 TEXACO, INC.		WEST DALE UNIT	AUX VASES	11-6S-6E		6476		614		3334
*1505 TEXACO, INC.		HOOD-CAREY UNIT	AUX VASES	3-6S-6E		867		*		*
1509 TEXACO, INC.		HOOD-CAREY UNIT	BETHEL	3-6S-6E		1109		250		1910*
*1538 TEXACO, INC.		VAUGHAN-BRACKETT COOP	AUX VASES	17,13-6S-6E		1237		82		728

RESERVOIR STATISTICS (AVG. VALUE)				DEVELOPMENT AS OF 12-31-78				INJECTION WATER				REMARKS
FIELD, COUNTY	NET PAY (FT)	POR (%)	OIL PERM (MD)	GRAV (API)	DATE FIRST INJ.	DATE ADJ.	NO. OF WELLS INJ., PROD.	ACRES UNDER INJ.	SOURCE SU *SAND, GM *GRAVEL, SM *SMALLOW	TYPE (F)*FRESH, (D)*BRINE, (M)*MIXED		
CONCORD C, WHITE												
*4445	2545	9.0			12-63		2 4	60	PRODUCED (R)		*EST. INCL. PRIM. SINCE 65	
*4446	2500	18.0			6-63	12-76	1 1	20	PRODUCED (R)		*EST. INCL. PRIM 1965-76	
	2830	12.0					1 1	20				
*4253	2550	11.0	14.3	92	36.0	12-66	12-74	4 4	90	SH GRAV, PHOU (M)	*ESTIMATED SINCE 1970	
COOKS MILLS C, COLES, DOUGLAS												
* 522	1778	5.0	11.3		37.0	04-63	01-65	2 3	60	SH SU (F)		
* 802	1777	12.0	16.0	41		04-63	01-65	2 2	40	SH SU, PHOU (M)		
* 510	1800	12.0	17.5	195	38.0	04-62	12-68	7 5	140	SH SU, PHOU (M)		
* 513	1800	12.0	17.5	195	38.0	04-62	11-68	3 1	40	SH SU, PHOU (M)		
* 505	1800	12.0	17.0	250	36.0	01-61	01-66	8 24	320	RIVER, PHOU (M)		
* 508	1780	10.0	13.5	160	39.0	11-61	12-72	4 6	400	PENN SU (R)		
CONDES, WASHINGTON												
4010	1270	12.0	20.0	250	37.0	09-65		4 9	180	PRODUCED (B)	*INCL PHM PROD SINCE 9-65	
4000	1230	14.0	20.0	250	37.2	06-50		15 21	935	PENN SU, PHOU (B)		
CORINTH, WILLIAMSON												
4504		12.0			38.0			1 4	90	PENN SU (B)		
CROVINGTON S, WAYNE												
*4120	3316	4.0				11-57	10-59	1 1	80	CYPRESS, PHOU (B)	*NO WF OIL RECOVERED	
CROSSVILLE W, WHITE												
*4404	3010	16.0				03-65	03-69	2 5	70	PRODUCED (B)		
	3190	6.0						1 1	100			
	3110	4.0						1 4				
DALE C, FRANKLIN, HAMILTON, SALINE												
*1309	3230	8.0	17.0	150	38.0	06-59	01-70	3 4	80	PENN SU, PHOU (B)		
*1513	3150	15.0	17.0	150	39.0	01-59	01-70	11 14	250	CYPRESS, PHOU (B)	*1966-67 DATA ONLY	
*1534	3300	11.3	19.0	150	38.0	06-62	05-71	2 10	130	PENN SU, PHOU (B)	*1965-67 DATA ONLY	
*1544	3150	22.0	17.0	200	38.0	03-63	03-73	3 14	170	PENN SU, PHOU (B)	*ESTIMATED	
*1545	3250	22.0	17.0	200	38.0	04-63	03-68	5 9	150	PFNN SU, PHOU (B)	*1965-66 DATA ONLY	
*1552	3250	14.0			37.0	04-65	06-69	3 7	130	PENN SU, PHOU (B)	*THRU 1967 ONLY	
*1553	3250	14.0			37.0	04-65	01-73	3 6	110	PENN SU, PHOU (B)	*THRU 1967 ONLY	
3622	3140	20.0	17.0	150	38.0	06-63		7 36	420	PENN SU, PHOU (B)	*ESTIMATED	
1556	3260	10.0	18.0	85	38.0	12-65		1 3	80	PENN SU, PHOU (B)	*ESTIMATED	
*1564	3064	30.0				09-61	01-70	2 4	60	PRODUCED (B)		
*1520	3050	20.0				07-61	12-66	2 1	40	PURCHASED (B)	*INCL 1525	
*1525	2957	15.0				07-61	07-65	1 2	30	PURCHASED (R)	*INCL WITH 1520	
1566	3200	27.0	17.0	100	38.5	08-69		4 3	40	PRODUCED (B)	*ESTIMATED	
1575	3190	18.0				09-71		1 2	30	PRODUCED (R)	*ESTIMATED	
*1547	3125	20.0	20.5	122	39.4	09-60	12-68	11 9	220	PENN SU, PHOU (B)		
1526	3034	11.0	14.0	120		08-61		2 2	60	PALESTINE, PHOU (R)	*ESTIMATED	
1528	2950	11.0	14.8	117	37.0	07-61	07-64	6 9	150	PALESTINE, PHOU (R)	*ESTIMATED *INCL BOTH PAYS	
	3050	13.0	20.0	116	37.0	07-61		7 8	150			
*1537	2730	12.0	18.0			5-68	06-76	4 4	60	PRODUCED (B)	*EST +BETHEL ANU AUX VASES DATA	
	2900	20.0	16.0			6-62	9-66	4 4	87			
	3050	10.0	18.0			06-62		4 4	87			
*1510	3100	21.0	19.1	96	37.0	06-59	05-64	24 21	640	CYPRESS, PHOU (B)	*INCL 1511	
*1511	3173	19.0			40.4	06-59	05-64	2 1	30	PRODUCED (B)	*INCL WITH 1510	
*1559	3350	14.0	15.0	35	38.0	06-65	05-67	2 4	60	SH SU (F)		
*1536	3250	18.0	20.0	340	40.0	12-62	11-66	7 8	150	PENN SU, PHOU (B)	*ESTIMATED SINCE 1965	
*1501	3125	14.7	23.9		39.0	02-52	04-59	15 16	310	CYPRESS (B)		
3620	3130	8.0				11-69		1 4	50	PRODUCED (B)	*ESTIMATED	
*1523	3150	15.0			38.0	01-61	12-67	5 5	110	CYPRESS, PHOU (B)	*INCL PHM PROD SINCE 1-61	
*1524	3190	20.0			38.0	09-61	02-70	4 8	120	CYPRESS, PHOU (B)	*INCL PHM PROD SINCE 9-61	
1549	3120	15.0			38.0	12-63		5 4	110	PENN SU, PHOU (B)	*ESTIMATED 1978 DATA	
1563	2710	20.0			37.0	01-65		6 5	200	HARDINSBURG, PHOU (B)		
	2675	15.0						5 5	200			
	2950	20.0						5 5	200			
1578	3100	30.0	15.0			10-69		2 5	80	PENN. & PHOU (B)		
1557	3215	20.0	16.0	65	38.0	03-62		1 3	40	PENN SU, PHOU (B)		
*1533	3250	18.0	18.0	80		06-62	12-66	1 1	20	PENN SU, PHOU (B)		
1561	2750	4.0				01-65		1 1	20	CYPRESS, PHOU (R)		
	3000	20.0						4 4	130			
	3130	20.0						4 4	130			
	3210	15.0						4 4	130			
1565	3315	15.0	18.0	100		06-65		4 7	200	CYPRESS W3W, PHOU (B)		
	3350	10.0	14.0	40				1 1	40			
*1543	2940	23.0	15.0	150	39.5	09-62	05-69	1 3	130	PALESTINE, PHOU (B)		
	3050	16.0	17.0	100				2 3	130			
*1502	3200	15.0	18.0	75	38.0	06-55	10-62	5 7	130	PENN, PHOU (B)		
1568	3104	14.0			37.5	07-70		1 2	30	PRODUCED (B)	*ESTIMATED SINCE 1972	
1514	3120	20.9	19.0	96	39.4	09-58		46 18	1490	HARD, CYP, PHOU (B)		
	3195	10.1	15.0	73				17 27	920			
	3300	12.4	17.0	75				9 13				
*1512	3168	17.5	19.1	97	38.0	05-59	12-70	11 11	250	PURCHASED, PHOU (B)	*ESTIMATED 1969-1970	
	3192	8.5						1 4	60			
1548	3080	15.0	17.0	78		11-63		6 9	240	PENN SU, PHOU (B)	*ESTIMATED 1978 DATA	
	3220	8.0				1-65	9-73	1 1	20			
*1535	3200	20.0	19.1	97	38.0	11-62	03-67	2 2	40	GRAVEL BED (F)		
*1567	3170	3.0				08-70	12-71	15 47	640	PENN SU (R)	*ALL DATA ARE ESTIMATED	
*1507	3086	22.0				08-58	07-61	1 2	30	CYPRESS (R)		
*1516	3120	20.0	12.0	90	37.0	09-60	03-69	3 4	80	PURCHASED (R)	*NO DATA 1969	
*1531	3090	20.0	12.0	90	37.0	07-61	12-65	2 2	40	PENN SU, PHOU (R)		
*1539	3240	20.0	12.0	90	37.0	09-62	06-67	4 6	100	PENN SU, PHOU (B)		
*1540	3284	20.0	12.0	90	37.0	12-62	06-67	2 4	60	PENN SU, PHOU (B)		
*1541	3180	20.0	12.0	90	37.0	10-59	12-71	3 3	60	CYPRESS SU, PHOU (B)		
*1562	3166	20.0	12.0	90	37.0	11-62	01-72	1 2	40	PURCHASED (R)	*INACTIVE 1968-1972	
*1504	3050	14.0	17.0	125	38.0	07-51	09-67	6 15	260	PENN SU, PHOU (R)		
*1508	3050	26.0	19.0	109	37.0	06-58	12-68	5 8	130	HARDINSBURG, PHOU (B)	*INCL WITH 1509	
*1509	2950	26.0	17.5	126	37.0	06-58	12-68	5 8	130	HARDINSBURG, PHOU (R)	*INCL 1506	
*1538	3150	18.0	21.4	149	38.8	03-62	11-68	5 10	180	PENN SU, PHOU (B)		

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO + = P.M. # = ABO & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION			
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78		
DALE L, FRANKLIN, HAMILTON, SALINE CONTINUED											
1560 TEXACO, INC.	DALE UNIT	TAR SPRINGS HARUINSBURG	1,2,11,12,13-6S=6E,5, 6,7,8,17,18,19=6S=7E	933*	18223 1268	115.1*	9676*	5135*	132731*		
		CYPRESS RETHEL		641*	25482						
		AUX VASES		1049*	38959						
1542 UNION OIL CALIF.	DALE COOP	TAR SPRINGS HARUINSBURG	36-5S=AE,31-5S=7E, 6,7-6S=7E	74*	28242	28.9	2098	62*	14063		
		CYPRESS RETHEL									
		AUX VASES									
3625 PAUL ZIEGLER	WEST END UNIT	AUX VASES	17,19,20=7S=5E	90*	2811*	7.6*	234*	90*	1619*		
DEERING CITY, FRANKLIN											
1319 FARRAR OIL CO.	PEARODY COAL	AUX VASES	9=7S=3E	16*	522*	0.9*	120**	18*	442*		
DIVIDE C, JEFFERSON											
2007 UEVON CORP.	PRITCHARD HRS	AUX VASES	20=1S=4E	38	317	4.0	80	36	167		
2015 UEVON CORP.	DELLA MCELRAVY	AUX VASES	17=1S=4E	16	261	0.4	29	18	165		
2022 JOHN DONNILL	ELLEN=PIERCE=WILLIS	MCCLOSKEY	16=1S=4E	40*	340*	8.0*	62**	40*	340*		
2002 GULF OIL CO	M.O. MULLOWAY	MCCLOSKEY	21=1S=4E		2707		185		229		
2027 E HOMER JAHN	MINOR UNIT	SPARK MTN	25=1S=3E	+	+	1.2*	231*	20*	1120*		
2021 TEXACO, INC.	WEST DIVIDE U	SPARK MTN MCCLOSKEY	13,14,15,22,23, 26=1S=3E	1280	51974	26.0	1404	1094	22119		
DOUGLAS C, WASHINGTON											
4007 N. A. BALDRIDGE	KAMINSKI	CYPRESS	7,8,17=3S=1W	100*	1430*	6.8*	149*	100*	1050*		
4024 N. A. BALDRIDGE	MUSIAL WATERFLOOD	CYPRESS	19=3S=1W/24=3S=2W	15*	75*	0.5*	4*	15*	75*		
*4003 HARRY HARRY	PEEK	CYPRESS	20=3S=1W		68		16		5		
4001 ELMER UELZE	U U PECK	CYPRESS	20=3S=1W	15*	345*	1.3*	14*	15*	166*		
4006 ELMER UELZE	KLAYBOR	CYPRESS	17=3S=1W	65*	952*	3.2*	112*	65*	915*		
4025 E. M. SELF	MUDOLPH	CYPRESS	17=3S=1W	45*	1145*	5.7*	106**	45*	1145*		
DOULEY, EDGAR											
900 BARR=HUMAN=RURSN	BABEN LSE	L DUDLEY	9=13N=13W	200*	1500*	25.6*	395*	200*	1500*		
903 BARR=HUMAN=RURSN	BABEN LSE #2	L DUDLEY	9=13N=13W	50*	593*	5.6*	40*	50*	395*		
906 U. T. DOBIE	BRINKEMUFF	L DUDLEY	10=13N=13W	100*	715*	10.0*	130**	100*	715*		
905 W MENIGMAN EST	WALLER	L DUDLEY	3=13N=13W	+	624*	+	135**	+	624*		
904 JUDITH NEUMAN	STIEL	L DUDLEY	3=13N=13W	30*	519*	2.7**	36**	30*	519*		
901 ODIS PATYILLU EST	LITA MUKILL	L DUDLEY	3=13N=13W	25*	384*	4.9*	69*	25*	384*		
902 ODIS PATYILLU EST	A STAUB LSE	L DUDLEY	4=13N=13W	50*	391*	12.0*	117*	50*	391*		
EDINBURG W, CHRISTIAN, SANGAMON											
103 DON HANKS	EDINBURG W U	SILURIAN	8,16,17=14N=3W	1	1059	3.7	155*	1	691		
ELBRIDGE, EDGAR											
* 907 CONTINENTAL OIL	ELBRIDGE	FREDONIA	1,2=12N=11W/ 36=13N=11W		12000*		600*		12000*		
ELOURAOU C, SALINE											
*3614 GIFFAY OIL CO	SPRICH=LURCH	WALTERSBURG	35-8S=6E		137		24				
*3610 HAN-KEN OIL CO	SOUTHWEST U	WALTERSBURG	20,21=8S=7E		6705		665		2697		
3611 HAN-KEN OIL CO	CENTRAL U	WALTERSBURG	15,16,21=8S=7E	1052	22061	24.5	1943	651	10336		
3621 HAN-KEN OIL CO	WEST UNIT	PALESTINE RETHEL	20-8S=7E	400	3544	17.6	104	145	430		
		AUX VASES									
3624 LOUIS KAPP	ELOURAOU NW	WALTERSBURG	9,16,17=AS=7E	100*	788*	1.8*	27*	30*	142*		
		AUX VASES									
*3603 FRANK KING	EMILLOTT U	WALTERSBURG	2=5S=7E		221		21		42		
*3609 W. C. MCBRIDE	CYP. ELOURAOU NE UNIT	CYPRESS	10,15=5S=7E		635		56		127		
3600 MISTY OIL CO	NW ELOURAOU U	TAR SPRINGS HARUINSBURG	8=8S=7E	180*	1387*	12.2*	84*	65*	501*		
		AUX VASES									
3612 MISTY OIL CO	VICTOR SUTINER C	AUX VASES	7=AS=7E	80*	1046*	5.5*	74*	80*	564*		
3608 THE NELSON CO.	WAL7, ELOURAOU NE U	WALTERSBURG	10,11,15=8S=7E	350*	18095*	16.1*	1575**	350*	8325*		
ELOURAOU E, SALINE											
*3607 G. L. MEASUR OIL	PORTER	AUX VASES	23=8S=7E		373		35		41		
ELLEY E, EDWARDS											
1007 T. E. CRUSLEY	ELLEY EAST UNIT	AUX VASES	27,34=2S=10E		1639		433**		887**		
1019 T. E. CRUSLEY	ELLEY E U	OMAHA	27,34=2S=10E		1675		+		+		
ELL10TSTOWN N, EFFINGHAM											
1101 VINGIL STRICHER	N ELL10TSTOWN	MCCLOSKEY	17,20=7N=7E		529		99*		263*		
ENERGY, WILLIAMSON											
4502 A. B. VAUGHN	ENERGY WF	AUX VASES	3,4=9S=2E	225*	1172*	5.9*	85*	225*	1073*		
ENFIELD, WHITEL											
4441 JOE A. OULL	PRICE	AUX VASES OMAHA	29=5S=9E		400		50**		400*		
		MCCLOSKEY	28,29,32=5S=AE		1127		92		845		
4209 RICHARD ELSIE	S ENFIELD U 2	AUX VASES	28,29,32=5S=AE		2288		360		519		
4264 RICHARD ELSIE	S ENFIELD U 1	OMAHA	28,29,32=5S=9E		363		99		259		
*4292 RICHARD ELSIE	S ENFIELD U 3										
EXCHANGE E, MARION											
*2630 FARRAR OIL CO.	EXCHANGE EAST UNIT	SPARK MTN MCCLOSKEY	29=1N=4E		346		51		104		
EXCHANGE N C, MARION											
2635 EGU OIL CO	SLAPGUT WF	MCCLOSKEY	7=1N=4E/12,13=1N=3E	296	2916	5.0	470	89	1038		
EXCHANGE W, MARION											
2628 STONE OIL CO	CHARLETON FLOOD	SPARK MTN	4=1N=3E	81	1007*	12.2*	171*	24	541*		

RESERVOIR STATISTICS (AVG. VALUE)						DEVELOPMENT AS OF 12-31-78				INJECTION WATER			REMARKS
FIELD, COUNTY		NET PAY (FT)	PUR (%)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE ADO.	NU. OF WELLS INJ.	ACRES UNDER INJ.	SOURCE	TYPE		
PROD. NO.	DEPTH (FT)									SU = SAND GK = GRAVEL PRD = PRODUCED SH = SHALLOW	(F) = FRESH (B) = BRINE (M) = MIXED		
DALE C, FRANKLIN, HAMILTON, SALINE													
CONTINUED													
1500	2400	18.5	18.0	52	36.0	07-65		14	14	497	PENN SD, PROD (B)		*ESTIMATEU FROM TOTAL INJECTION
	2475	8.5				01-65	07-71	3	4	32A			*INCL ALL PAYS
	2680	13.3	15.3	109	36.0	01-65		33	33	2399			
	2900	18.0	13.0	22	36.0	01-65		48	5A	3040			
	2980	16.5	17.3	66	37.0	01-65		60	5A	3192			
1542	2320	19.0	16.0	150		06-63		1	2	30	PENN SD, PROD (B)		
	2500	16.0						1	2	30			
	2700	15.0						13	16	290			
	2920	22.0						15	18	400			
	3020	29.0						10	10	200			
3625	3150	15.0	18.0	75	37.0	01-56		3	7	110	PRODUCED (B)		*ESTIMATEU
DEERING CITY, FRANKLIN													
1319	2800	15.0			38.2	07-61		1	4	50	PRODUCED (B)		*INCL PRIM *ESTIMATEU
DIVIDE C, JEFFERSON													
2007	2612	8.0				06-69		1	2	40	CYPRESS (R)		
2015	2650	20.0			37.8	06-69		1	3	50	CYPRESS (R)		
2022	2800	6.0				74-72		2	4	80	PRODUCED (R)		*EST. *INCL PRIM SINCE 72
*2022	2805	6.9	18.0		36.6	05-55	09-65	1	5	60	PRODUCED (B)		
2027	2680	12.0				10-65		1	6	60			*EST. *ADJACENT TO ACTIVE WF
2021	2710	6.0	13.0	67	37.0	11-64		1	7		PENN SD, PROD (B)		
	2750	13.0	13.8	103.3	37.0			17	16	1245			
DUBOIS C, WASHINGTON													
4007	1250	9.5				01-63		6	16	250	PRODUCED (B)		*ESTIMATEU
4024	1235	6.0				1-75		2	4	60	PRODUCED (B)		*EST.
*4003	1232	12.0			37.0	12-59	08-64	1	2	40	TAK SPR, PROD (B)		
4001	1260	10.0				11-68		1	4	50	PRODUCED (B)		*ESTIMATEU SINCE 1970
4006	1250	10.0			37.0	10-61		3	1A	210	BENOIST, PROD (B)		*ESTIMATEU
4025	1215	12.0				10-61		2	5	70	PRODUCED (B)		*EST. *INCL PRIM SINCE 62
DUGULEY, EUGAR													
900	420	18.0	20.0	30	28.3	06-67		3	15	100	PRODUCED (B)		*ESTIMATEU SINCE 1973
903	410	12.0	20.0	30	29.0	02-72		2	8	80	PRODUCED (B)		*ESTIMATEU
906	410	20.0				7-66		2	7	90	PRODUCED (R)		*EST. *INCL PRIM SINCE 66
905	415	18.0				01-67		2	6	60	PRODUCED (B)		*INCL PRIM SINCE 64 *EST. 78 N/A
904	420	15.0				05-67		1	4	40	PRODUCED (B)		*EST *INCL PRIM PROD
901	410	30.0				03-67		1	3	40	PRODUCED (B)		*ESTIMATEU
902	400	25.0				03-67		1	7	70	PRODUCED (B)		*ESTIMATEU
DUNBURG W, CHRISTIAN, SANGAMON													
103	1700	15.0			8.0	11-61		5	20	230	PRODUCED (B)		*INCL PRIM PROD SINCE 10-54
ELSKIUGE, EUGAR													
* 907	950	4.0				6-50	12-65	12	12	300	PRODUCED (R)		*ESTIMATEU
LOURADO C, SALINE													
*3614	2050	11.0	15.0	150	38.0	09-64	12-68	1	1	10	PALESTINE SD (B)		
*3610	2130	16.0	17.0	225	38.0	05-63	01-74	5	23	290	PENN SD, PROD (R)		
3611	2150	20.0	17.0	225	38.0	05-63		5	4	520	PENN SD, PROD (B)		
3621	1900	15.0	17.0			2-72		4	6	100	PENN SD, PROD (B)		
	2700	5.0	11.0					1	1	20			
	2900	10.0	15.0		32.6			3	4	100			
3624	2330	15.0				06-71		4	5	100	PRODUCED (R)		*ESTIMATEU 1978 DATA
	2400	12.0						3	3	100			
*3603	2090	7.0	13.0	100		04-59	10-63	1	4	60	PENN SD (R)		
*3609	2560	12.0	18.0	80	38.0	12-62	08-68	2	3	90	PENN SD, PROD (B)		
3600	2200	10.0			36.9	05-70		1	1	30	PRODUCED (R)		*ESTIMATEU
	2314	8.0						2	2	40			
	2400	7.0						3	4	60			
3612	2922	8.0			35.4	09-63		1	2	40	PENN SD (R)		B.0.4-65, REACTIVATED 7-66 *EST
3608	2200	22.0	19.0	200	38.0	08-63		6	7	540	PENN SD, PROD (B)		*SINCE 11-62 *EST. 1977 DATA
LOURADO E, SALINE													
*3607	2900	7.0			37.0	01-61	12-65	5	6	150	PALESTINE SAND (B)		
LLERT E, EDWARDS													
*1007	3170	10.0	17.7	26		12-57	06-67	13	11	270	SH SD, PROD (M)		*NO DATA 1966-67 *INCL 1019
*1019	3240	6.0				12-57	06-67	10	16	300	SH SD (F)		*NO DATA 1966-67 *INCL WITH 1007
LLINTSTOWN N, EFFINGHAM													
*1101	2700	6.0				12-66	12-72	2	10	180	TAK SPR, PROD (B)		*ESTIMATEU 1968-72
MERCY, WILLIAMSON													
4502	2354	20.0			40.0	10-71		1	9	130	PRODUCED (B)		*ESTIMATEU SINCE 1976
MPSFIELD, WHITE													
*4441	3245	15.0				7-60	12-64	1	1	20	PRODUCED (R)		*EST. *ADJ. TO 4264 & 4292
	3520	8.0						1	1	30			*INCL PRIM. 1960-1966
*4209	2945	4.6			36.6	10-56	03-68	2	1	80	SH SD, PROD (M)		
*4264	2810	8.4	21.5	142	36.0	02-54	03-68	3	3	220	PRODUCED (B)		*INCL PRIM PROD
*4292	2878	5.0			37.5	08-56	10-65	1	1	80	PRODUCED (B)		*INCL PRIM PROD SINCE 8-56
MEXCHANGE E, MARION													
*2630	2775	10.0				05-66	07-70	1	2	80	CYPRESS		
	2650	5.0						1	3	80			
MEXCHANGE N C, MARION													
2635	2709	15.0	11.7	200	36.2	11-66		4	9	280	WELL (B)		
MEXCHANGE W, MARION													
2628	2572	12.0				11-66		2	10	150	PRODUCED (B)		*INCL PRIM PROD, EST *ADJUSTED

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO * = P.M. * = ABO & P.M.					WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION		
PROJECT U = UNIT		PAY NAME	LOCATION S - T - R	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78		
FAIRMAN, CLINTON, MARION * 413 PAUL WATIE	OUCOMB-KNEITLER	BENOIST	13,24=3N=1W		1494**		252**		1494**		
FLUVA S, CLAY * 351 DONALD G. GEARY	GIVEN-MCGREW U	MCCLOSKEY	4=2N=6E		70		4*		7		
FRIENDSVILLE N, WABASH *3998 U. LUEPFLEK ESTATE, *3945 MOBIL OIL CORP., *3953 J. W. SANDERS	FRIENDSVILLE NURTH U LITHELAND FRIENDSVILLE N U	BIEML	12=1N=13W 1,2=1N=13W 1=1N=13W		379 623 *		99 142* 7		99 282 *		
FROGTOWN N, CLINTON 409 ELMER UELZE	SCHROEDER	SILURIAN	31=3N=3W		*		6.4*		RU*		
GARUP'S POINT, WABASH 3853 BELL BROTHERS 3652 WALKER OHLG CO.	TALLEY GARDS POINT UNIT	OHARA	23=1N=14W 23,26=1N=14W		* 150*		3.8* 7.7*		41* 72*		
GERMANTOWN E, CLINTON * 406 NAT. GAS PIPELINE	GERMANTOWN	SILURIAN	36=2N=4W, 1=1N=4W		140*		4585* 10.1*		1220* 140*		
GILA, JASPER *1916 SCHAEFER OIL CO.	GILA	MCCLOSKEY	26,32,33=8N=9E				319*		418 1760		
GULUENGATE L, EUWARUS, WAYNE *8412 AMERICAN PUMP *4124 CITIES SERVICE *4128 LIJIES SERVICE *4155 CULLUM OIL CO. *4154 ALVA C. DAVIS *4145 UNCAN L&S&RUY *4139 FAIRFIELD OIL CO *4374 GULF OIL CO	POLLARD UNIT KLETZKER U GOLDENGATE U PETTIGREW-PIERCY UNIT BUNNAGE-WOODS U SCUTISVILLE POND CREEK WF UNIT GOLDENGATE UNIT	AUX VASES AUX VASES MCCLOSKEY AUX VASES AUX VASES BETHEL AUX VASES AUX VASES	21,22,27,28=3S=9E 4=3S=9E 26,32,33=2S=9E 24=2S=9E 13,24=2S=9E 23,26=2S=9E 29,30,31,32=2S=9E 34,35=3S=9E, 3=4S=9E		2174 102 926 262* 631 751 8427 7279		109 1 7 14* 95 256 601 656		1085 10 281 122* 130 36 2449 3689		
1027 ILL. L&S, UP, 4083 ILL. MID-CUNT.	CHALCRAFT-MORAN SOUTH ELLERY UNIT	AUX VASES AUX VASES SPAK MTN MCCLOSKEY	2U=2S=10E 24,25=2S=9E 19,30=2S=10E		500		79 4895* 16.5*		14 344*		
4447 JENKINS BRUS 4123 H AND H OIL CO.	WMITLOW-WILLIAMS GOLDENGATE UNIT	MCCLOSKEY AUX VASES OHARA SPAK MTN MCCLOSKEY	28=3S=9E 32,33=2S=9E OHARA 3=4S=9E 15,22,23,27=2S=9E		49		800 448** 1515* 109 2546*		105** 61** 203* 21 436**		
4378 MARCM URG, CO, 4148 POUL OIL CO.	GOLDENGATE W, ELLERY	AUX VASES AUX VASES OHARA SPAK MTN AUX VASES	3=4S=9E 15,22,23,27=2S=9E OHARA 3U,31=2S=10E		25		1.3* 2936* 268* 47		436** 25* 6 34		
1023 MOBINSUN PROD, *4138 SKILES OIL CURP. *4377 TEXALO, INC. *4169 M. J. WILLIAMS	SNOWBALL UNIT U'UANIEL U J. MANCOCK CUOP GOLDENGATE EAST UNIT	SPAR MTN BETHEL AUX VASES BETHEL AUX VASES	3U,31=2S=10E 26=2S=9E 21=3S=9E 25,26=2S=9E		34		3.8 6		47		
GOLDENGATE N C WAYNE 4062 COLLINS BRUS. *4051 ILL. MID-CUNT. 4066 NOAM PET	JONES LOCKE-JOHNSON GOLDENGATE NURTH UNIT	AUX VASES OHARA AUX VASES	5=2S=9E 17=2S=9E 17=2S=9E		5* 60*		140* 350* 817*		23* 55* 92*		
HALF MOON, WAYNE 4108 COLLINS BRUS. 4160 JUNIPER PETROLEUM C	HALF MOON UNIT HALF MOON U	MCCLOSKEY OHARA	26=1S=9E 26,34,35=1S=9E		15* 255		5189* 7756		0.8* 9.4		
MAHCO, SALINE 3619 COLLINS BRUS. 3613 LOBREE CURP.	MAHCO U MAHCO WEST POOL UNIT	AUX VASES AUX VASES	16=8S=5E 29=8S=5E		260* 10*		3724* 713*		11.0* 1.4*		
MAHCO E, SALINE *3601 SUN OIL CO. *3602 SUN OIL CO.	MAHCO WF UNIT MAHCO WPPU	CYPRESS AUX VASES	25=8S=9E 24,25,26=8S=9E				84 334		3 30		
HARRISBURG, SALINE *3606 W. C. MCBRIDE	HARRISBURG NURTH	WALIKSBURG	34=8S=6E		1597				16 136		
HEHALO C, GALLATIN, WHITE 1454 ABSHER OIL CO *1419 ASHLAND U AND K 4210 C. E. BREHM *4304 L. E. BREHM 4456 JALK RHOOUVER	C.M&T,M BOYO SOUTH NEW HAVEN UNIT HEHALO W. U. NEW HAVEN U NEWCUMBE-AUU-HOY-WLSON	CYPRESS TAR SPRINGS WALTERSBURG AUX VASES CYPRESS AUX VASES TAR SPRINGS AUX VASES CYPRESS TAR SPRINGS AUX VASES TAR SPRINGS AUX VASES GLUVER-NEVILLE AUX VASES TAR SPRINGS PENNSYLVANIA CLONE TAR SPRINGS CYPRESS AUX VASES AUX VASES CYPRESS	23=7S=9E 29,30=7S=10E 28,33=6S=9E 16=7S=10E 34=6S=9E 23,24,25,26=7S=9E 31,28=7S=9E 16=7S=9E 24=7S=9E, 19=7S=10E 24=7S=9E 24=7S=9E 17,18=7S=10E 14=7S=9E 11=7S=9E		60* 182 24 110*		575* 1538 3706 88 58 2087* 5613 179* 1602* 1050** 78* 2774* 8174		9.6* 61** 37.5 19 12 5.4* 10.45* 30 0.9* 11.3* 79 19.6* 4.7		60* 229 628 14* 25 110* 2114 45 466* 109* 14* 400* 42 1024* 120* 1050* 2572* 3539
*1405 CONTINENTAL OIL *1431 CONTINENTAL OIL 1430 JOE A. DULL 1433 JOE A. DULL *4340 INU, FARM BUR. 4400 PAUL S. KNIGHT 4360 LAUD PETROLEUM	COTTONWOOD N U COTTONWOOD TAR SPR HEHALO E U GLUVER-NEVILLE NEW HAVEN WF HARRRELL-KNIGHT-WILLMS BAYLEY U	CYPRESS TAR SPRINGS AUX VASES AUX VASES AUX VASES TAR SPRINGS PENNSYLVANIA CLONE TAR SPRINGS CYPRESS AUX VASES AUX VASES CYPRESS	31,28=7S=9E 16=7S=9E 24=7S=9E, 19=7S=10E 24=7S=9E 24=7S=9E 17,18=7S=10E 14=7S=9E 11=7S=9E		20* 120** 400* 118		1602* 1050** 2774* 8174		0.9* 11.3* 19.6* 4.7		
4365 LAUD PETROLEUM *4359 LIVINGSTON OIL 4355 MASON OIL CO.	HEHALO CUOP CALVERT 'A' HEHALO U	AUX VASES AUX VASES CYPRESS	1U=7S=9E 4=7S=10E 27,33,34=6S=9E,		*		1361* 31 5496*		2.0* 0.4*		

RESERVOIR STATISTICS (AVG. VALUE)						DEVELOPMENT AS OF 12-31-78				INJECTION WATER			REMARKS
FIELD, COUNTY		NET PAY (FT)	POR (%)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE ADO.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE		
PROJ. NO.	DEPTH (FT)							INJ. PROD.		SH = SHALLOW	GH = GRAVEL (F)+FRESH PROD=PRODUCED (B)+BHINE (M)+MIXED		
FAIRMAN, MARION	413	1450	8.0	21.0	357	38.0	03-59	01-76	4	9	130	PRODUCED (B)	*NO DATA 1971-74; *ESTIMATED
FLOMA S, CLAY	331	2492	12.0				10-59	05-61	1	1	40	SH SD, PHOD (M)	*ESTIMATED
FRIENDSVILLE N, WABASH	3998	1650	10.0	15.0	35	33.0	05-62	01-71	4	3	60	SH SD (F)	
	3945	1620	12.5	16.0	81	35.6	07-47	09-57	2	3	60	SH SD (F)	*INC PRIM PHOD
	3993	1631	10.0			36.6	08-57	12-61		2	40	SH SD (F)	*DUMP FLOOD, N.A.
FRUGTOWN N, CLINTON	409	2240	18.0				03-68		3	8	140	PRODUCED (B)	*SHD, ND INJ DATA; *ESTIMATED
GAROT'S POINT, WABASH	3853	2660	10.0				06-71		3	3	60		*ADJACENT TO ACTIVE WF *EST
	3852	2680	8.0				06-71		2	8	160	PRODUCED (B)	*ESTIMATED
GERMANTOWN E, CLINTON	406	2300	60.0			39.4	09-56		2	13	300	PRODUCED (B)	*ESTIMATED 1978 DATA
GILGA, JASPER	1916	2635	6.9	12.5	276	39.0	09-63	09-70	4	17	437	GRAVEL, PROD (M)	
GOLDENGATE C, EDWARDS, WAYNE, WHITE	4412	3250	12.5	21.0	100	37.4	01-63	04-73	5	6	170	PENN SD, PHOD (B)	
	4124	3242	10.0	15.0	10		08-56	10-58	1	2	30	CYPRESS, PHOD (B)	
	4128	3308	8.0			34.0	10-53	07-57	2	8	159	GRAVEL BED (F)	
	4155	3270	11.0			39.5	11-62	01-71	2	4	60	PENN SD, PHOD (B)	*ESTIMATED 1967-70
	4154	3250	14.0			39.3	05-62	12-70	5	4	90	PRODUCED (B)	
	4145	3100	9.0			39.8	01-59	01-64	4	7	130	SH SD, PROD (M)	
	4139	3220	20.0	15.0	150	38.5	05-60		2	6	400	SH SD, PHOD (M)	
	4374	3300	15.0	18.0	101	38.9	03-63	04-67	29	10	560	PENN SD, PHOD (M)	
		3400	12.0	13.0	184				25	12	560		
		3458	10.0	10.0	102				19	10	560		
	1027	3222	8.0	22.3			12-62	04-65	1	3	40	PENN SD (B)	
	4083	3260	13.5	15.0	6	39.5	09-71		3	4	530		*ESTIMATED SINCE 1973
		3370	7.0	12.5	55	39.5	01-66		2	4	240	PENN SD, PHOD (B)	
		3395	6.5	12.5	350				2	4			
	4447	3420	5.0				7-60	7-76	1	2	40	PRODUCED (B)	*EST, *INCL, PRIM, 60-75
	4123	3200	12.0	16.0	100	38.0	09-65		3	1	40	GRAVEL BED (F)	*EST; *INCL ALL PAYS; *OMAHA AND SPAN MTN LO-MING 6-56 TO 12-75; *AV 1965-74; ALL PAYS SINCE 1975
		3260	9.0	15.0	30	36.0	08-56		3	2	70		
		3275	6.0	15.0	30								
	4378	3310	21.0	18.5	51	39.5	05-63	12-65	1	1	20	PENN SD, PROD (B)	
	4148	3240	10.0				09-61	06-70	4	6	100	SH GRAVEL (F)	*ESTIMATED; *INCL ALL PAYS
		3270	15.0				09-61		4	9	400		
		3310	9.0				09-61	05-70	1	2	60		
	1023	3180	5.5				9-77		1	1	30	PRODUCED (B)	
		3310	12.5						1	2	30		
	4138	3097	10.0			37.0	01-59	06-65	2	2	40	SH SD, PROD (M)	
	4377	3240	15.0				01-63	12-66	2	2	40	PENN SD, PHOD (B)	
	4169	3080	10.0			39.0	07-65	06-71	1	2	30	PENN SD (B)	*EST 1966-70; ND DATA 1971
		3206	17.0						1	4	60		
GOLDENGATE N E, WAYNE	4062	3225	19.0				9-60		1	1	20	CYPRESS & PROD (B)	*ESTIMATED
	4051	3315	8.0				7-64	11-64	1	1	20	PRODUCED (B)	*ESTIMATED
	4066	3250	15.0				07-71		4	5	100	PRODUCED (B)	*ESTIMATED 1977 DATA
HALF MOON, WAYNE	4168	3300	10.0			40.4	12-62		6	9	470	GRAVEL BED, PROD (M)	*ESTIMATED
	4160	3280	10.0	11.0	124	40.0	01-62		7	10	440	SH SD (F)	
HAMCO, SALINE	3619	2900	15.0				10-69		5	15	>30	PRODUCED (B)	*ESTIMATED
	3613	2900	5.2	17.8	39	40.0	10-65		3	1	80	CYPRESS, PHOD (B)	*ESTIMATED SINCE 1977
HAMCO E, SALINE	3601	2550	9.0				07-59	08-61	1	2	30	PENN SD, PHOD (B)	
	3602	2650	8.0				07-59	09-62	2	9	80	PENN SD, PHOD (B)	
HAMMISBURG, SALINE	3606	2020	10.0	18.0	140	38.4	07-58	11-68	3	5	60	PENN SD, PHOD (B)	
HEMALU C, GALLATIN, WHITE	1450	2575	15.0				4-70		1	4	50	PRODUCED (B)	*EST, *INCL, PRIM SINCE 70
	1419	2150	14.0	16.5	400	35.8	12-61	03-70	5	3	92	GRAVEL BED, PROD (M)	
	4210	2325	20.0	20.0	50	37.0	01-55		7	12	200	PENN SD (B)	
	4304	2900	15.0	15.0	100	38.0	02-60	12-65	3	3	80	RIVER (F)	
	4456	2680	12.0				6-76		1	3	40	PRODUCED (B)	
		2920	10.0						1	2	30		
	1444	2315	10.0			39.0	06-69		4	5	120	CYPRESS (B)	
		2950	15.0						3	15	200		*ESTIMATED SINCE 1973
	1405	2650	12.0	15.0	80		12-57	04-64	6	15	400	CLORE, PHOD (B)	*INCL PRIM PROD SINCE 12-57
	1431	2260	15.0	12.0	30	37.8	10-63	12-66	1	1	40	CLORE, PHOD (B)	*INJ STOPPED 4-67
	1430	2900	10.0	17.0	150	38.0	08-63		5	2	180	PALESTINE, PROD (B)	*ESTIMATED SINCE 1973
	1433	2900	8.0	12.0	37	38.0	11-63		2	9	110	PRODUCED (B)	*INJ PROD WATER SINCE 1-69 *EST
	4340	2670		14.0	10	35.3	02-60	12-67	4	3	250	SH SD, PHOD (M)	*EST SINCE 1-62
	4400	2260	11.0				10-70		2	4	100	PALESTINE, PROD (B)	*ESTIMATED
	4360	1550	15.0	14.0	50		01-62		1	1	20	PENN SD, PHOD (B)	
		2050	15.0						3	6	90		
		2280	10.0						4	5	90		
		2630	22.0						2	2	40		
		2680	14.0						7	9	190		
	4365	2900	13.0	18.2	100	37.0	05-62		2	6	70	PENN SD, PHOD (B)	*EST, 74-76+INJ, DISC, 73; ADJTD 4360
	4359	2920	12.0			36.8	05-62	07-64	1	1	20	SHALLOW WELL (F)	
	4355	2675	11.4	16.2	52	38.0	06-62		20	20	420	PENN SD, PHOD (B)	*ESTIMATED

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO * = P.M. * = ABO & P.M.		PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
					TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
MERALU C, GALLATIN, WHITE CONTINUED										
4355	MASON OIL CO.			4-78-9E						
4291	W. C. MCBRIDE	BAYLEY	PENN	3-78-9E		398		27		129
*4212	W. B. MITCHELL	BAYLEY U	CYPRESS	2-78-9E		491		21		35
*4211	JENNIS PAINE	ACKERMAN UNIT	AUX VASES	4-78-10E		462		63		
4382	BERNARD PODOLSKY	BAYLEY UNIT	WALTERSBURG	13,24-78-9E	26	1221	0,8	204	34	666
4383	BERNARD PODOLSKY	GRANT AUX VASES UNIT	AUX VASES	13-78-9E	17	445	0,7	64	16	205
4389	BERNARD PODOLSKY	CLARK UNIT	AUX VASES	4,5,8,9-78-10E	62	1316*	3,3	112	7	380
4428	BERNARD PODOLSKY	L.U.AUSTIN	WALTERSBURG	28-83-9E	*	*	2,8*	114*	35*	630*
4427	SANDS OIL CO.	HEWALD NW UNIT	WALTERSBURG	27,28-88-9E	70*	643*	12,0**	130**	70*	503*
4344	SHAKESPEARE OIL	QUESTELL COOP	PENNSYLVNIN	11-78-9E	1	604	1,4	135*	9	135
*4364	TAMARACK PET.	MERALO U	PENN	34-88-9E;2-78-9E		343		17		17
HICKORY MILL, MARION										
*2825	EAGLE SUPPLY CO	HALFACHE	BENOIST	27-1N-4E		114		17		131
MILL E, EFFINGHAM										
1120	PARTLOW, CUCHNOR	MORATH,PUYNTER,GADUEY	CYPRESS	1,12-6N-6E	27*	1479*	2,0*	99*	27*	1479*
1121	PARTLOW, CUCHNOR	BRUNN,WOOD-BROWN	SPAH MTN	10,11-6N-6E	7*	3747*	0,7*	252*	7*	3747*
*1105	NICHITA INDUSTRIES	MILL EAST UNIT	CYPRESS	11,12,13,14-6N-6E		3185		154		1100
MURU, CLAY										
351	JET OIL CO.	CONNERLY-SCHNOLL	AUX VASES STE GEN	14-5N-6E	10	189	0,2	38	10	123
MURU S C, CLAY										
* 332	SMIRK, WEBSTER	SOUTH MONO UNIT	STE GEN	26,27,34,35-5N-6E		3908		748		6707
* 337	SMIRK, WEBSTER	ZINK UNIT	STE GEN	26,35-5N-6E		1571		77		462
INA, JEFFERSON										
*2008	KEWANE E OIL CO.	JEFF-KARBEK-TMKEL B	RENAULT MCCLOSKEY	23-48-2E		2317		238		2535
INGRAMAM, CLAY										
326	DUPAY OIL CO	SAILOR SPRINGS EAST U	SPAH MTN	5,6-4N-8E	37	144	5,4	33	2*	6*
* 320	MIMBLE O AND R	INGRAMAM U	SPAH MTN	4,9-4N-8E		2568		810		1543
INMAN E C, GALLATIN										
1436	AUTUMN OIL CO	ELGI	TAR SPRINGS CYPRESS	20,21,28,29-78-10E	130*	2665*	7,3*	315*	130*	1536*
1455	JAMES BRUNNING	GOFORTH	TAR SPRINGS	27-78-10E	*	*	0,7*	91*	28*	258*
1422	CRAWFORD PROU	BLACK	WALTERSBURG	2-88-10E		682		115*		196*
1409	FAHRAR OIL CU.	E INMAN	TAR SPRINGS	33,34-78-10E,2,3,10		24228		3550		
*1406	HUMBLE O AND R	BIG BAHN	CYPRESS	88-10E						
1456	MOBIL OIL CORP.	WILLIAMS	CYPRESS	11-88-10E		226		83		27
1420	JOE SIMPKINS OIL	HAVEN	TAR SPRINGS	27-78-10E	60	1260*	2,9*	108*	20*	1180*
1408	TRI STAR PROD CO	WEST UNIT	AUX VASES	26,32-78-10E		182		2		
			PALESTINE	9,10,15,16,21, 22-88-10E	165	29023*	13,4	3369*	165	10005*
			WALTERSBURG							
			TAR SPRINGS							
			MARINSBURG							
			CYPRESS							
1426	E. G. WELKER	EGYPTIAN TIE, TIMBER	WALTERSBURG	21-88-10E		515		61*		149*
			MARINSBURG							
1407	WESTERN OILS, LTU	KENWIN-CHAMFURD	OEGONIA	11,14-88-10E	80*	2270**	0,3*	2149*	80*	5744*
			CLOKE							
			PALESTINE							
			WALTERSBURG							
			TAR SPRINGS							
			CYPRESS							
			MCCLOSKEY							
1411	WESTERN OILS, LTU	J A WILLIAMS	TAR SPRINGS	27-78-10E	*	170**	0,4*	20*	10*	273*
1429	WESTERN OILS, LTU	SOUTH INMAN UNIT	WALTERSBURG	21,22-88-10E	2*	2467**	0,3*	134*	2*	1359*
			CYPRESS							
INMAN W C, GALLATIN										
1410	ASHLAND U AND W	RISTER-HUYE U	TAR SPRINGS	15-88-9E	6	807	0,5	99*	6*	210*
			CYPRESS							
1440	ASHLAND U AND W	WEST INMAN U	TAR SPRINGS	11,12,14-88-9E	198	3501	14,4	356	120*	1500*
			MARINSBURG							
			CYPRESS							
1457	CALVERT URLG. CO.	GAUEN	CYPRESS	15-88-9E				90		
1428	T. L. CLARK	HISH-STAUB UNIT	BIEM	21-88-9E	20*	113*	1,7*	27*	60*	123*
1442	FAHRAR OIL CU.	POND U	CYPRESS	26,27-88-9E	60*	1282*	12,6*	243*	20*	756*
			AUX VASES							
1402	GULF OIL CO	INMAN W U	CYPRESS	15,16-88-9E		2890		425*		899*
*1403	GULF OIL CU	INMAN WU	TAR SPRINGS	15,16-88-9E		*		*		*
1438	JUNIPER PETROLEUM C	HIUGWAY E UNIT	WALTERSBURG	14,22,23,27-88-9E	172	2027	7,9	235	88	970
			CYPRESS							
1424	OIL MANAGEMENT INC	DRUNE-HIGEN-MINER	CYPRESS	27-88-9E		340		49*		104*
1450	JENNIS PAINE	WILLIAMS	MARINSBURG	12-88-9E	*	*	0,7*	36*		
			CYPRESS							
*1404	PHILLIPS PET. CO	LEVANT	CYPRESS	3-88-9E		8				
1415	WEBSTOCK OIL CO.	INMAN W	TAR SPRINGS	13,24-88-9E		1408		79		764
1427	WEBSTOCK OIL CO.	SCHMITT W A	PENNSYLVNIN	15-88-9E	30*	2529*	1,6*	50*	30*	406*
1401	SABER OIL CO	BRAOLEY UNIT	BIEM	17-88-9E		512		169*		217*
1453	SHAKESPEARE OIL	RIDGWAY UNIT	CYPRESS	26-88-9E	31	5213*	1,2	262*	31	5213*
			AUX VASES							
1425	JOE SIMPKINS OIL	INMAN WEST UNIT	TAR SPRINGS	1,12-88-9E,6,7-88-10E	75*	2702*	14,4**	1396**	330**	3731**
			MARINSBURG							
			CYPRESS							
			AUX VASES							
1449	JOE SIMPKINS OIL	NORTH INMAN UNIT	AUX VASES	31-78-10E;6-88-10E	175*	1075*	11,9*	71*	175*	1075*
1451	JOE SIMPKINS OIL	OWEN-MURPHY	AUX VASES	1,2-88-9E	10*	255*	0,4*	14*	10*	255*
1400	TARTAN OIL CU.	GOEBEL-MC GUIRE-HIGEN	AUX VASES	19-88-10E	45*	623*	2,9*	69*	45*	623*
*1458	V. T. URLG. CO.	A STRAUB COMM	TAR SPRINGS	15-88-9E		*		35*		150*
			CYPRESS							

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER			
FIELD, COUNTY					NO. OF WELLS					SOURCE TYPE			
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	PUR (%)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE ABN.	INJ.	PROD.	ACRES UNDER INJ.	SU = SAND GM = GRAVEL PROU = PRODUCED SH = SHALLOW	(F) = FRESH (B) = BRINE (M) = MIXED	REMARKS
HERALD C, GALLATIN, WHITE													
CONTINUED													
*4355													
*4291	1520	15.0	14.6	52		11-69	01-76	2	3	50	PENN SU, PROU (B)		*INJ. CURTAILED 6-75
	2700	10.0						2	3	50			
*4212	2715	15.0	14.9	58	39.0	09-37	04-62	2	2	60	PALESTINE (B)		
*4211	2890	25.0				02-56	01-71	1	2	30	GRAVEL BED (F)		
4382	2300	8.9	20.0	200	38.5	01-63		2	2	60	PAL SO, PROU (B)		
4363	2930	9.7	19.0	100	34.8	08-63		2	4	100	PAL SO, PROU (B)		
4369	2690	8.0	18.0	75	36.0	10-64		8	6	180	RIVER GRAV, PROU (M)		*INJ. SUSP. 10-74 TO 4-78
4424	2310	10.0				01-57		8	6	60			*ADJ. TO ACTIVE WF; +EST
4427	2320	12.0				01-71		2	5	60	PRODUCED (B)		*ADJ. TO ACTIVE WF SINCE 68; +EST
4344	1425	13.0	19.0	46	33.5	01-62		1	3	59	PENN SU, PROU (B)		*INCL WITH PROU SINCE 1-62
*4364	1550	8.0	15.1	15		01-62	12-64	3	3	120	PENN SU, PROU (B)		
MICRONY HILL, MARION													
*2625	2640	10.0			36.0	10-65	01-72	1	1	20	PRODUCED (B)		
MILL E, EFFINGHAM													
1120	2660	6.0				08-59		1	5	60	PRODUCED (B)		*ESTIMATED
1121	2690	6.0				01-61		1	7	170	PRODUCED (B)		*ESTIMATED
*1105	2460	13.0	18.0	100	40.0	12-59	12-64	3	15	150	SH SU, PROU (M)		
MOMO, CLAY													
351	2710	15.0				10-65		1	2	20	PRODUCED (B)		
	2740	10.0						1	1	50			
MOMU S L, CLAY													
* 332	2790	8.6	15.0	862	36.1	09-58	06-70	3	12	340	RIVER, PROU (M)		
* 337	2790	5.2	15.8	835	38.0	08-62	06-70	6	4	250	RIVER, PROU (M)		
INA, JEFFERSON													
*2008	2640	10.0	22.0	96	37.0	12-60	12-69	3	3	120	PENN SU, PROU (B)		
	2770	8.0	13.0	25				4	3	140			
INGHAMAM, CLAY													
324	2990	10.0				1-75		1	5	140	LYPRESS (B)		*ESTIMATED
* 320	3000	5.1	14.2	2450	38.0	12-56	12-60	9	17	297	PENN SU, PROU (B)		
INMAN E C, GALLATIN													
1436	2175	12.0	18.5	325	36.8	04-64		3	4	110	SH SU, PROU (M)		*ESTIMATED
	2499	21.0	16.5	212				4	4	130			
1455	2100	18.0				7-66		4	3	30			
*1422	1975	15.0			37.0	01-59	12-67	1	3	50	PRODUCED (B)		*EST. +ADJ. TO 1411 SINCE 65
1409	2150	14.0	17.5	150	37.7	03-54	12-64	33	35*	700*	GRAVEL BED (F)		*1965-67 ESTIMATED
	2440	10.0	16.8	50	38.0			23*	24*	500*			
*1406	2400	5.9	16.5	58	38.0	04-54	12-66	3	1	30	SH SU, PROU (M)		
1456	2100	8.0				6-65*		1	1	20	PRODUCED (B)		*EST. +ADJ. TO 1411 SINCE 65
*1420	2770	9.0	12.4	8	39.0	11-60	07-62	4	4	80	SH GRAV (F)		
1408	1750	10.0	19.0	200	36.5	07-56		2	2	40	GRAVEL BED, PROU (M)		*ESTIMATED 1968-1977
	1980	15.0			37.2			8	8	160			
	2160	18.0			36.8			5	5	100			
	2200	14.0			36.5			10	10	220			
	2380	24.0			34.4			38	36	750			
*1426	1986	13.0			36.0	01-59	12-68	1	2	30	SH SU, PROU (M)		*NO DATA 1967-68
	2206	13.0						1	2	30			
	2414	5.0						1	2	30			
1407	1700	7.5	18.0	100	37.5	06-55		2	3	50	SH SU, PROU (M)		*NO INJ. 1972-75; +EST SINCE 69
	1730	7.5						5	4	100			
	1830	4.5			37.2			6	8	140			
	1930	13.5			36.8			10	14	200			
	2030	17.0						17	20	340			
	2380	21.8			34.4			12	15	240			
								1	4	40			
1411	2102	14.0	16.0			07-66		1	2	30	PRODUCED (B)		*EST. SINCE 1969; +NO INJ. SINCE 73
1429	2000	7.0	19.6	109	36.0	11-62		8	9	170	SH SU, PROU (M)		*EST. SINCE 1968; +NO INJ. 73-76
	2380	15.0	16.6	89				2	4	60			
INMAN W C, GALLATIN													
1410	2180	10.0	17.0	80		06-61	01-69	2	3	50	GRAVEL BED (F)		*FIRST DATA 11-66; +EST 77 DATA
	2500	12.0	16.5	40				1	2	30			
1440	2185	10.0			36.0	05-65		11	11	140	SH SU (F)		*ESTIMATED 1977 DATA
	2320	10.0						2	2	40			
	2516	10.0						10	9	190			
*1457	2500	11.0				6-55	12-63	4	1	10			*EST. +ADJ. TO 1402, 03 1955-63
1424	1570	10.0	21.0	75	38.0	01-62		2	5	70	PRODUCED (B)		*EST. T LHP, ABQ, 1968-1974
1442	2480	7.0				09-68		2	5	80	GRAVEL BED (F)		*ESTIMATED SINCE 1977
	2780	15.0						5	15	210			
*1402	2500	16.5	13.5	40	38.6	05-55	12-63	10	7	110	PENN SU, PROU (B)		*INCL 1403
*1403	2180	11.0	13.0		36.1	03-57	03-63	3	7	90	PENN SU, PROU (B)		*INCL WITH 1402
1438	2040	18.0				01-72		1	1	20	SHALLOW WELL (F)		
	2502	7.0			36.8	11-65		7	8	220			
*1424	2500	8.0				06-66	12-77	4	5	110	PENN SU, PROU (B)		*ESTIMATED 1976-77
1450	2300	10.0				1-68		4	1	20			*ADJACENT TO ACTIVE WF +EST
	2480	15.0						4	2	30			
*1404	2560	6.0	18.0	100	35.0	05-57	06-59	1	1	20	PRODUCED (B)		
*1415	2122	10.0			36.0	04-56	12-70	4	4	69	SH SU, PROU (M)		
1427	1666	8.0				06-60		1	4	60	SH SU, PROU (M)		*ESTIMATED
*1401	1726	8.0	15.0	72	36.9	10-57	01-74	1	1	180	PRODUCED (B)		*INACTIVE 1972-73
1453	2490	8.0				05-52		1	3	40	PRODUCED (B)		*EST. SINCE 1952
	2780	18.0						1	2	20			
1425	2150	15.0			36.0	09-66		11	7	200	GRAVEL BED (F)		*ESTIMATED +INCL ALL PAYS
	2290	10.0			37.0			9	6	160			
	2475	15.0			37.0			14	13	300			
1449	2800	15.0				08-73		5	7	140	PRODUCED (B)		*ESTIMATED
1451	2810	22.0				01-68		2	1	30	PRODUCED (B)		*ESTIMATED
1400	2740	20.0				07-58		1	5	10	UNKNOWN		*EST. T LHP, ABQ, 1961-1973
*1458	2190	8.0				6-57	6-63	4	1	10			*EST. +ADJ. TO 1402&1403 1957-63
	2500	18.0						4	1	10			

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY PROJECT NO., OPERATOR		PROJECT WATER UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
* A, B, D * P, M, * A, B, D & P, M,					TOTAL 1974	CUM, 12/78	TOTAL 1974	CUM, 12/78	TOTAL 1974	CUM, 12/78
INMAN W C, GALLATIN CONTINUED										
1423	ZANETIS OIL PROP	SLATON	MARUTINSBURG CYPRESS	11-89-9E		243		25		121*
IOLA C, CLAY, EFFINGHAM										
378	CULLUM OIL CO.	MCGEE-BOSS	AUX VASES	72-3N-5E	20*	1111*	1,0*	62*	20*	1111*
1112	BETTY OIL CO.	DURK RYALTY U	BETHEL	71,2-6N-5E	504	7586	6,6	203	232	2578
			AUX VASES							
			SPARK MTN							
* 357	JAKVIS BKOS.	LIGGETT	AUX VASES	17-5N-5E		201		31		201
1113	KANCMER PIPE	ERVIN-BETHASON	BETHEL	34,35-6N-5E	70*	94*	2,4*	151	70*	94*
			AUX VASES							
1110	LAUD PETROLEUM	S MASIN U	RENUIST	26,27,34,35 61-5F	20*	9443	84,4	657	493	4765
			AUX VASES							
			SPARK MTN							
1111	LAUD PETROLEUM	KINGWOOD JARVIS U	RENUIST	34,35-6N-5E	646	11353	23,6	645	393	6791
			AUX VASES							
			SPARK MTN							
1119	E. M. SELF	WRIGHT	AUX VASES	27-6N-5E	250*	1653*	11,0*	139*	230*	1495*
			SPARK MTN							
303	SHAKESPEARE OIL	IOLA COOP	TAR SPRINGS	14,15-5N-5E	165	20371*	11,9	281*	363	14294*
			CYPRESS							
			BETHEL							
			RENUIST							
			AUX VASES							
* 322	TEXACO, INC.	IOLA COOP	RENUIST	14,15-5N-5E		1,74		53		*
* 323	TEXACO, INC.	IOLA COOP	AUX VASES	14,15-5N-5E		3313		8*		414*
334	TEXACO, INC.	IOLA S, U.	AUX VASES	22-5N-5E	94	3654	1,1*	115**	94	3371
376	TEXACO, INC.	FENDER, PHATHER, SHUNLN	AUX VASES	21,11-5N-5E	326	2056	12,9	2		1621
			SPARK MTN							
IRVINGTON, WASHINGTON										
4020	CULLUM OIL CO.	HOLSHEN-MASCHOF-ERDES	CYPRESS	9,10-13-1W	90*	1275*	5,0*	103*	70*	1271*
			RENUIST							
4026	E M & K OIL CO	KOELLING-BSTANTON	CYPRESS	23,26-13-1W	250*	4250*	16,4*	34**	2**	421*
			RENUIST							
4019	PEAR AND DUNCAN	RAHN-BRINK	RENUIST	14,15,22-13-1W	200*	4515*	10,0*	30*	10*	45*
4002	MARK MAZZARINO	ARNING-KASTEN-WEICHM	CYPRESS	9-13-1W	200*	2670*	10,0*	245*	11*	2670*
4009	N. C. MCBRIDE	BRUNN UNIT	CYPRESS	23-13-1W	87	1642	7,1*	241	17	167
			RENUIST							
4018	FRED SLIP	TIEMAN & BUHL	RENUIST	23-13-1W	400*	8125*	20,4*	14*	401*	8125*
4004	GEORGE THOMPSON	C. KOELLING	RENUIST	15-13-1W	200*	2666*	13,4*	297*	200*	2626*
IRVINGTON E, JEFFERSON										
2036	N. A. BALDRIDGE	WACKER-MILLEN	CYPRESS	30-13-1E	25*	1175*	4,3*	128**	25*	1175*
			RENUIST							
2037	MARK MAZZARINO	HAYES-PITCHFORD-ERDE	RENUIST	31,31-13-1E	40*	790*	4,4*	156**	70*	790*
2035	E. M. SELF	KOELLING-WACKER	RENUIST	31-13-1E	50*	1550*	4,4*	269**	50*	1550*
IUKA, MARION										
2613	TEXACO, INC.	IUKA	MCFLOSKY	10,15-2N-4E	*	*	4,6	102	16	496
JOHNSON N, CLARK										
* 204	F. A. BRIDGE OIL	BLOCK 'A'	CASEY	2-9N-14W		5731*		247*		2713*
* 205	F. A. BRIDGE OIL	BLOCK 'B'	CASEY	35,36-10N-14W		1116*		59*		338
207	NATIONWIDE ENERGY	N JOHNSON	CLAYPOOL	10,11,15-9N-14W	300*	20334*	15,7*	1111*	300*	15376*
			CASEY							
			PARTLOW							
* 211	E. A. OLUFIELD	V. JONES	CASEY	1,3-9N-14W		75		1		2
203	TALHUTT & SONS	N JOHNSON WF	CASEY	2-9N-14W	100*	4899*	5,8*	935*	100*	2435*
* 208	TIDEWATER OIL CO	CLARK COUNTY 1	CASEY	2-9N-14W		2418		160		1572
JOHNSON S, CLARK										
* 212	ACME CASING	M E LAKRISON	U PARTLOW	22,27-9N-14W		4424*		163*		3585*
* 213	ACME CASING	WEAVER-BENNETT	U PARTLOW	27-9N-14W		11359*		326*		9679*
209	TALHUTT & SONS	SOOTH JOHNSON (F=12)	U PARTLOW	27,34,35-9N-14W	165*	72654*	10,0*	1713*		
* 210	FRANZIS ZAKOWSKI	JOHNSON EXT 1, 2	CLAYPOOL	22,27,26,27-9N-14W		26084*		680*		19762*
			CASEY							
			PARTLOW							
JOHNSONVILLE C, WAYNE										
4195	N. A. BALDRIDGE	TALBERT UNIT	AUX VASES	32-1N-6E	4*	1510*	0,2*	107*	4*	556*
4162	BUFAY OIL CO.	PEARL UTKEY	AUX VASES	20-13-6E	8	8	5,7	6		
4167	FAHRAR OIL CO.	E. JOHNSONVILLE UNIT	AUX VASES	25,36-1N-6E, 1-13-6E	200*	11371*	13,3*	1138*	200*	6182*
			MCCLOSKY							
4163	CHRIS PEARSON	LANE-WEAVER	OHAKA	9-13-6E	95*	2429*	5,0*	247*	95*	2227*
4049	TEXACO, INC.	TALBERT	AUX VASES	17-13-6E		700		125**		700*
4072	TEXACO, INC.	JOHNSONVILLE SU	AUX VASES	9-13-6E	818	8481	9,0	425	677	6830
			MCCLOSKY							
4089	TEXACO, INC.	SIMS UNIT	AUX VASES	21,22,27,28,32,33,34-13-6E	869*	15755*	49,0*	2718*	1095*	19259*
			MCCLOSKY							
4121	TEXACO, INC.	JOHNSONVILLE U	AUX VASES	21,26,27,28,33,34,35-1N-6E; 3,4-13-6E	322*	15066*				
			MCCLOSKY							
*4122	TEXACO, INC.	JOHNSONVILLE U.	MCCLOSKY	3,4-13-6E, 21,26,27,28,33,34,35-1N-6E	3921	59637	110,5	4524	3682	42870
			MCCLOSKY							
4134	UNION UTL CALIF.	CRISP UNIT	AUX VASES	26,33,34,35-1N-6E		8732		1192		4466
			MCCLOSKY							
JOHNSONVILLE S, WAYNE										
*4172	ASHLAND U AND K	W GEFF UNIT	AUX VASES	11,14-13-6E		3295		225		1161
JOHNSONVILLE W, WAYNE										
4061	EGO OIL CO	ORCHARDVILLE	AUX VASES	26-1N-5E	61	476	0,7	24	23	195
4071	EGO OIL CO	JOHNSONVILLE W WF	AUX VASES	23,24-1N-5E	339	2299	0,3	327	173	1124
*4169	FAHRAR OIL CO.	W JOHNSONVILLE UNIT	MCCLOSKY	2-13-5E, 35,36-1N-5E		2245		183		620
*4161	KIRBY PETROLEUM	W JOHNSONVILLE	AUX VASES	14,23-1N-5E		1958		347		1000

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78				INJECTION WATER				REMARKS
FIELD, COUNTY		NET PAY (FT)	POR (%)	OIL PERM (MD)	DATE FIRST INJ.	DATE ABO.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE			
PROJ. NO.	DEPTH (FT)			GRAV (API)			INJ. PRD.		SH	SH	SH		
INMAN W C, WALLATIN													
CONTINUED													
*1423	2330	12.0			01-62	1-75	1 2	30	TAR SPRINGS (R)			*ESTIMATEU	
	2510	15.0					1 2	30					
IOLA L, CLAY, EFFINGHAM													
378	2350	12.0			06-65		1 5	60	PRODUCED (B)			*ESTIMATEU	
1112	2290	40.4	17.3	37.5	02-68		5 6	120	PENN SU (R)			*ESTIMATEU	
	2350	19.6	16.5	15			3 9	90					
	2440	6.0	16.0				2 3	80					
* 357	2800	10.0		35.4	01-58	07-66	1 3	60	PRODUCED (B)				
1113	2300	12.0			12-67		1 4	70	PRODUCED (B)			*ESTIMATEU	
	2350	15.0					2 5	70					
1110	2280	25.0			10-67		6 14	190	PENN SU (R)				
	2350	16.0					6 18	270					
	2024	5.0					4 12	160					
1111	2280	25.0			12-67		10 3	200	PENN SU, PKOD (B)				
	2350	16.0					11 11	280					
	2424	5.0					4 6	100					
1119	2360				10-69		1 5	80	PRODUCED (B)			*ESTIMATEU	
	2430						1 4	80					
303	1874	8.0		32.2	01-55		1 1	20	PENN SU, PKOD (R)			*ESTIMATEU	
	2125	10.5	20.0	100			2 4	40					
	2250	17.3	16.0	40			6 5	120					
	2280	20.0	16.0	40			14 17	260					
	2330	20.0	14.7	80			15 18	280					
* 322	2290	9.5	15.7	80	06-58	01-68	1 2	110	PRODUCED (B)			*INCL WITH 323	
* 323	2350	13.3	15.7	80	06-58	01-68	1 1	190	PRODUCED (B)			*INCL 322	
338	2340	8.5	15.1	65	09-62		1 2	90	PENN SU, PKOD (R)			*INCL PRIM PROD SINCE 1962	
376	2350	20.0			04-71		4 7	110	PENN SU, PKOD (R)			*EST	
	2420	6.0					1 4	80					
IRVINGTON, WASHINGTON													
4020	1420	16.0			02-56		1 7	80	PRODUCED (B)			*ESTIMATEU	
	1520	10.0					1 6	80					
4026	1385	16.0			7-58		1 3	40	PRODUCED (R)			*ESTI *INCL PRIM SINCE 1958	
	1550	12.0					1 7	80					
4019	1530	10.0			01-56		1 14	160	PRODUCED (B)			*ESTIMATEU	
4002	1400	20.0		35.0	11-57		4 15	150	PRODUCED (B)			*ESTIMATEU	
4009	1425	15.0	20.0	300	09-64		1 5	80	PRODUCED (B)				
	1540	12.0	18.0	65			2 6	80					
4018	1530	10.0			01-56		2 12	140	PRODUCED (B)			*ESTIMATEU	
4004	1531	10.8	19.0	278	02-59		2 9	200	PRODUCED (R)			*ESTIMATEU	
IRVINGTON E, JEFFERSON													
2036	1760	13.0			6-65		1 6	70	PRODUCED (R)			*EST. *INCL PRIM SINCE 1966	
	1952	10.0					1 1	20					
2037	1970	7.0			6-60		1 7	80	PRODUCED (R)			*EST. *INCL PRIM SINCE 1960	
2035					6-58		1 7	80	PRODUCED (R)			*EST. *INCL PRIM SINCE 1958	
IUKA, MARION													
2613	2750	10.0		39.0	06-60		1 3	270	CYPRESS, PRD (B)			*DUMP FLOOD, UNKNOWN	
JOHNSON N, CLARK													
* 204	450	20.0	20.8	399	33.9	04-49	01-63	27 13	125	SH SU, PKOD (M)		*NO DATA 1958-1963	
* 205	480	2.0	18.3	66	33.0	05-51	12-63	18 12	80	SH SU, PKOD (M)		*NO DATA FROM 5-57 TO ABO	
207	460	19.0	19.0	330		03-55	51 71	223	GRAV, PRD (M) 71			*ESTIMATEU	
	530	14.0											
	595	24.0											
* 211	440	19.0	19.8	252	35.4	09-51	02-54	3 2	15	SH SAND (F)			
203	475	20.0	20.0	231	32.2	11-53	18 22	240	GRAV, PRD (M)			*ESTIMATEU	
* 208	425	26.1	20.6	415	33.9	02-50	12-59	19 20	81	SH SU, PKOD (M)			
JOHNSON S, CLARK													
* 212	507	33.0	18.0	277		03-55	12-70	2 2	80	GRAV, PRD (M)		*NO DATA 1968-70	
* 213	467	35.0	19.0	285		03-55	12-70	6 7	280	GRAV, PRD (M)		*NO DATA 1968-70	
209	490	48.0	16.6	319	30.5	03-49	54 62	504	GRAV, PRD (M)			*ESTIMATEU SINCE 1970	
* 210	420	15.0	21.0	294		03-55	1-78	30 33	479	GRAV, PRD (M)		*ESTIMATEU	
	465	20.0											
	500	30.0											
JOHNSONVILLE C, WAYNE													
4195	3120	13.0	20.7	230	37.0	01-65	5 5	110	PENN SU, PRD (B)			*ESTIMATEU SINCE 1973	
4162	3054	12.0			41.0	11-78	1 4	120	CYPRESS SU, PRD (B)				
4167	3070	17.0	19.0	90	39.2	08-68	10 11	440	CYPRESS, PKOD (B)			*ESTIMATEU SINCE 1977	
	3200	10.0	14.0	100			9 9	380					
4163	3124	6.0	14.2	2454	38.6	06-62	1 5	120	PRODUCED (B)			*ESTIMATEU SINCE 1974	
*4049	3035	12.0				5-54	12-68	1 2	40	PRODUCED (B)		*EST. *INCL PRIM, 54-68	
4072	3000	8.0	18.6	98	37.0	07-69	6 8	230	PRODUCED (B)				
	3100	6.0	12.0	777	37.0		5 3	220					
4089	3045	25.0	16.7	118	38.0	07-67	21 27	1960	PRODUCED (B)			*ESTIMATEU FROM TOTAL INJECTION	
	3175	17.0	11.0	377	38.0		26 25	1960				*INCL BOTH PAYS	
4121	3000	7.5	19.1	187	37.0	10-56	27 28	3230	PENN SU, PRD (B)				
*4122	3100	10.0	15.5		37.0	11-54	02-70	1 18	3230	CYPRESS, PKOD (B)			
*4154	3019	17.0	19.0	80		11-57	05-68	10 8	760	PENN SU, PKOD (B)		*INCL PRIM PROD SINCE 2-58	
JOHNSONVILLE S, WAYNE													
*4172	3050	11.0	20.3	82	39.0	05-63	08-70	11 12	480	PENN SU (B)			
JOHNSONVILLE W, WAYNE													
4061	2490	10.0	19.4	175		09-73	1 1	40	PENN SAND, PRD (B)				
4071	2916	7.0			38.0	08-71	3 9	160	PENN SAND (B)				
*4169	3072	11.0	13.5	200	37.0	10-63	01-72	2 4	150	PENN SU, PKOD (B)			
*4161	2900	12.0	19.0	92	39.0	05-62	04-69	5 5	170	PENN SU, PKOD (B)			

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)				
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO + = P.M. # = ADD & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
JOHNSTON CITY E, WILLIAMSON 4303 C. E. BREHM 4501 MUTUAL O AND G	MUCK UNIT JOHNSTON CITY E U	AUX VASES CYPRESS AUX VASES	8-8S-3E 15,16-8S-3E	223 400	693 2590	66.4 2.0	236 416		
JOHNSTON CITY N E 4505 DUFAY OIL CO	MAUISON COAL LEASE	AUX VASES	3,4-8S-3E	3	41	5.2	150	3	41
JUNCTION, GALLATIN *1412 ESTELLE PRICE	JUNCTION UNIT	WALTERSBURG	16,17,20,21-9S-9E		2357		503		
JUNCTION E, GALLATIN 1441 E.E. MORRIS	CRANE U	WALTERSBURG	36-8S-9E,1-9S-9E	95	690	4.0	62	95	696
JUNCTION N, GALLATIN *1445 OIL MANAGEMENT INC	HISH LSE	PENNSYLVANIN	33-8S-9E	8	484	0.3	29	0	57
KEENSBURG S, WABASH 3867 ALVA C. DAVIS 3991 MENMAN LUEB *3915 VICKERY OURLG.	WAKST-EPLEN FEARMEILEY-TMOM-UTLEY A P WAKST	CYPRESS PENNSYLVANIN CYPRESS	34,35-2S-13W 10-3S-13W 27-2S-13W	87 85	1918 4433 297	6.3 3.3	213 339 27	84 85	854 2667 60
KEENVILLE, WAYNE *4125 N. A. BALORIUGE *4126 WALTER DUNCAN	KEENVILLE UNIT KEENVILLE U	MGCLOSKY	27,28,33,34-1S-5E 28,29-1S-5E		2137 1971		232 343		1570 660
KENNEK, CLAY * 305 TEXALO, INC. * 353 TRUOP DRILLING	KENNER U CHASTEEN	RENOIST AUX VASES RENOIST RENAULT AUX VASES	23,36-3N-5E, 30,31-3N-6E 36-3N-5E		4349 5363 45		374 117 8		1722 1270 45
KENNEK N, CLAY * 324 INU. FARM OUK.	THEOBALD	RENOIST	17-3N-6E		21		53		47
KENNEK W, CLAY * 306 PHILLIPS PET. CO	W KENNER U	CYPRESS RENOIST AUX VASES	23-3N-5E		16531		535		4799
KINCAID C, CHRISTIAN 106 JOE SIMPKINS OIL	KINCAID U	WIBBAKO	2-419-11,114-16,22- 13N-3W,134,33-14N-3W	3120	8801	100.0	329	2350	4550
KING, JEFFERSON *2016 N. A. BALORIUGE 2017 T. L. ULARA 2025 SHAKESPEARE OIL *2013 TEXACO, INC.	EBER-GUFF RANDULPH MALE UNIT WAKEN-DUMBUS-SMITH	AUX VASES AUX VASES AUX VASES AUX VASES	22-3S-3E 27,34-3S-5E 33,34-3S-5E 33,34-3S-3E		81 1537 281 1911		1 190 139 62		81 1541 281 419
LANCASTER, LAWRENCE, WABASH 3881 NICK BARARE 3954 HAYES-WOLFE BRUS 2255 STONE OIL CO	SHARP WOOD LANCASTER UNIT HELENA	RETNEL RETNEL SPAN MTN	4-1N-13W 4,9-1N-19W,33-2N-13W 16,21-2N-13W	5 20 144	808 5472 1660	0.3 1.1 7.4	144 1241 534	5 20 125	234 1431 809
LANCASTER E, LAWRENCE, WABASH *3984 COY OIL CO	FRIENDSVILLE U	BIHEL	25,36-2N-13W		232		17		51
LANCASTER S, WABASH 3846 MOCKING OIL 3916 MENMAN LUEB	FRIENDSVILLE W UNIT LANCASTER SOUTH	RETNEL RETNEL	21,28-1N-13W 21-1N-13W	60 25	245 670	11.7 1.5	46 120	60 25	245 313
LAWRENCE, LAWRENCE, CHAMFORD 2257 ACME CASINO 2215 ASHLAND U AND N 2242 BALWIN, BALWIN 2291 BALWIN, BALWIN	LEWIS BOLLES-WRIGHT UNIT U'DONNELL CUMMINS	CYPRESS RETNEL CYPRESS BRIUGEPURT CYPRESS CYPRESS	24-3N-12W 7,8,17-4N-12W 17-3N-12W 6-3N-12W		1450 1589 4434 6210	14.7 3.2 10.1 32.4	143 63 444 395	20 30 250 500	1390 313 1666 5386
2269 FRANCIS DEARU	JENNER	CYPRESS RETNEL	36-3N-12W	120	4499	5.5	536	120	3479
*2200 CALVAN AMERICAN *2229 CALVAN AMERICAN 2208 CHARLES E. CARR 2209 CHARLES E. CARR 2236 CHARLES E. CARR	PIPEX WALLER CRUMP #40 CRUMP UNIT L WILLESPIE	CYPRESS CYPRESS CYPRESS BRIUGEPURT CYPRESS RETNEL	2,11-4N-13W 5,6-2N-11W 19-4N-12W 31-4N-12W 26,35-3N-12W		146 828 2262 2367 9637 9925 1903		6 12 283 173 859 1903		144 3228 1749 8054
2241 CHARLES E. CARR 2244 CHARLES E. CARR 2245 CHARLES E. CARR	FYFFE BRIEGEPONT UNIT S WILLESPIE	CYPRESS CYPRESS CYPRESS	6-3N-12W,1-3N-13W 6-3N-12W 26-3N-12W	20 55 180	6369 6922 2844	0.8 2.6 6.2	464 1160 217	20 55 180	2386 5062 1401
2252 CHARLES E. CARR 2253 CHARLES E. CARR 2258 CHARLES E. CARR 2262 CHARLES E. CARR *2270 CHARLES E. CARR	BOWEN-ROSS FYFFE #30 COOPER-DAVIS FYFFE U GRAY FEE W F	CYPRESS CYPRESS CYPRESS CYPRESS RETNEL CYPRESS	29-4N-12W 31-4N-12W 6,7-3N-12W 36-4N-13W 1-2N-12W	450 100 20 60	3783 2734 2133 2756 1554	23.3 4.9 0.9 3.2	279 422 164 200 93	450 100 20 60	3242 2355 2218 1920 518
2276 CHARLES E. CARR	WITHERS-PELHAM-STATE	RETNEL CYPRESS	36-3N-12W	20	2844	1.0	281	20	1776
*2205 WALTER DUNCAN *2206 T. W. GEORGE EST. 2261 FRANCIS GILLESPIE	L.C. DAVID BLUNDINE WP KUCHANANA, BREEN, RIDGELY	SAMPLE RETNEL BRIUGEPURT BIHEL	8-3N-11W 25,26,35,36-5N-13W 10,11-2N-12W		56 9990 665		1098 1098		8 3336 463
*2280 GULF OIL CO	M E GRIGGS	CYPRESS RENOIST	18-3N-12W		245		6		2
2211 GAIL HEATH	STULTZ	BRIUGEPURT CYPRESS	32-4N-12W	100	14954	3.9	1078	100	8560

RESERVOIR STATISTICS (AVG. VALUE)				DEVELOPMENT AS OF 12-31-78					INJECTION WATER				REMARKS
FIELD, COUNTY		NET PAY (FT)	FOR (X)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE ADD.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE		
PROJ. NO.	DEPTH (FT)							INJ.	PROD.	SD = SAND GM = GRAVEL PKOD=PRODUCED SM = SHALLOW	(F)=FRESH (B)=BRINE (M)=MIXED		
JOHNSTON CITY E, WILLIAMSON													
4503	2580	19.0	16.0		39.0	8-75		2	5	100	PENN SU (R)		
4501	2300	20.0	14.8	80		02-67		4	5	90	CYPRESS SD (B)		*ESTIMATEU SINCE 1977
	2580	6.0	12.2	14				2	5	70			
JOHNSTON CITY N E													
4505	2624	22.0			40.0	2-71		1	4	50	PRODUCED (B)		*ESTIMATEU
JUNCTION, GALLATIN													
*1412	1720	14.0	16.0	22	36.0	05-51	04-71	5	6	110	SM SU (F)		*EST 1965-66; NO DATA 1967-71
JUNCTION E, GALLATIN													
1441	2000	15.0	17.0	50		03-68		4	5	100	PENN SU, PKOD (M)		*ESTIMATEU SINCE 1971
JUNCTION N, GALLATIN													
*1445	1560	7.0				09-70	10-78	1	3	40	SMALLOW SD (F)		*ESTIMATEU
LEENSBURG S, WABASH													
3867	2396	12.0			37.8	10-64		3	4	90	SM SU, PKOD (M)		
3991	1181	13.0	15.0	42	32.5	12-62		5	9	130	SM SU, PKOD (M)		*ESTIMATEU SINCE 1971
3915	2403	19.0	20.6	134	37.5	11-54	12-54	1	1	60	SM GRAV (F)		*ESTIMATEU
LENNVILLE, WAYNE													
*4125	3100	9.0			40.0	11-56	03-66	3	12	220	SM SD, PROD (M)		
*4126	2950	13.0	20.0	155	39.0	04-54	11-61	3	9	120	SM SU (F)		
LENNER, CLAY													
* 305	2700	14.0	15.6	54	36.0	06-59	12-74	23	24	480	PENN SU, PKOD (B)		
	2600	21.0	17.0		36.0	06-59	10-67	1	8	270			
* 353	2714	29.0			35.8	06-63	07-68	1	1	20	PRODUCED (B)		
	2774	18.0						1	1	20			
	2631	13.0						1	1	20			
LENNER N, CLAY													
* 324	2750	10.0	17.0	40	36.0	10-58	12-63	1	3	30	PRODUCED (B)		*ESTIMATEU
LENNER N, CLAY													
* 306	2600	13.0			37.5	02-52	06-66	11	15	260	PRODUCED (B)		
	2720	14.0						6	11	200			
	2670	16.0						1	5	70			
LENCALD C, CHRISTIAN													
106	1860	10.0				10-74		15	30+	700	PRODUCED (R)		*CORRECTED *INCL PHM PROD *PARTIAL DEVELOPMENT TO DATE
LENO, JEFFERSON													
*2016	2700	7.0				01-63	11-66	1	3	40	PRODUCED (B)		*WATER INJ INEFFECTIVE
2017	2700	20.0				06-64		3	5	80	CYPRESS, PKOD (B)		*EST SINCE 1967; *INACTIVE 1974
2025	2708	10.0	12.0	16		11-64		1	4	80	PRODUCED (B)		*ESTI *INCL PHM PROD
*2013	2735	11.0			37.0	05-61	02-70	3	2	160	PRODUCED (B)		
LANCASTER, LAWRENCE, WABASH													
3801	2540	21.0	17.0	65	37.5	07-64		2	3	40	PRODUCED (B)		*ESTIMATEU SINCE 1971
3954	2500	16.0			34.0	12-58		21	34	500	SUMF PONUS, PROD (M)		*ESTIMATEU
2255	2720	7.0				07-71		4	8	300	PENN SU (R)		*ADJUSTED BY OPERATOR
LANCASTER E, LAWRENCE, WABASH													
*3964	1740	9.0			30.6	01-71	01-75	1	2	30	SMALLOW SAND, PROD. (M)		*ESTIMATEU
LANCASTER S, WABASH													
3846	2495	13.0				11-73		1	6	70	PRODUCED (R)		*ESTIMATEU
3916	2520	10.0			36.0	01-55		2	6	80	PRODUCED (B)		*ESTIMATEU
LAWRENCE, LAWRENCE, CHAMFORD													
2257	1580	20.0				06-67		9	7	180	PENN SU (R)		*ESTIMATEU
2215	1680	10.0	15.0	20	38.0	07-66		4	8	120	BUCHMANE (F)		*INJECTION DISCONTINUED 12-78
2242	1500	24.0	16.7	15	38.0	04-59		9	7	160	BUCHANAN, PROD (B)		*ESTIMATEU SINCE 1976
2291	980	30.0				01-58		4	10	60	PRODUCED (R)		*ESTIMATEU SINCE 1976
	1440	30.0						4	10	80			
2269	1540	25.0	15.0	30		11-62		11	10	100	GRAV, PROD (M)		*ESTIMATEU
	1620	25.0	15.0	30				11	10	100			
*2200	1320	25.0	20.8	33	38.6	12-53	06-56	4	2	60	SM SU (F)		
*2229	1535	50.0	18.5	70	39.5	01-53	11-55	8	8	160	SM GRAVEL (F)		*ESTIMATEU
2208	1280	25.0	20.0	90		04-56		4	4	40	PENN SU, PKOD (B)		*ESTIMATEU
2209	1420	22.0	20.0	80		12-56		5	4	40	PENN SU, PKOD (B)		*ESTIMATEU SINCE 1969
2236	990	30.0	19.3	200	37.0	11-58		16	10	100	GRAV BED, PROD (M)		*ESTIMATEU
	1550	28.0	17.0	35				17	10	100			
	1660	10.0	16.5	25				17	10	100			
2241	1580	35.0	18.0	100	35.0	07-59		10	4	45	BUCHANAN SD, PKOD (B)		*ESTIMATEU
2244	1575	25.0	18.0	80	38.0	06-59		9	10	150	PENN SU, PROD (B)		*ESTIMATEU
2245	1550	28.0	17.0	35	39.0	10-60		8	6	50	NIVEN, PKOD (M)		*ESTIMATEU
	1660	10.0	16.5	25	39.0			8	6	50			
2252	1320	20.0	19.0	120		08-58		4	6	60	PENN SU, PKOD (B)		*ESTIMATEU SINCE 1971
2253	1420	20.0	20.0	80		12-56		3	4	40	PENN SU, PKOD (B)		*ESTIMATEU
2258	1620	15.0				06-63		3	5	90	PENN SU, PROD (M)		*ESTIMATEU
2262	1650	25.0	18.0	130		12-60		8	4	80	PENN SU, PKOD (B)		*ESTIMATEU
*2270	1545	25.0			37.0	07-61	07-74	3	5	60	SM SU, PKOD (M)		*ESTIMATEU
	1670	10.0						3	5	60			
2276	1564	20.0	16.9	41	38.5	02-63		8	8	80	SM SU, PROD (M)		*ESTIMATEU SINCE 1970
	1690	12.0	15.0	17				8	8	80			
*2205	1600	6.0				08-56	09-56	1	1	20	NIVEN GRAVEL (F)		*ESTIMATEU
*2206	1625	18.0	17.2	80	37.8	06-52	12-60	44	36	750	SM SU, PKOD (M)		*ESTIMATEU; NO DATA RECEIVED
2261	980	14.0				6-63		5+	10+	150+	PENN, PROD (M)		*INCL BOTH PAYS
	1220	12.0				4-73							
*2260	1586	16.0	16.7	21	38.0	04-63	12-67	1	1	10	PRODUCED (B)		
	1746	12.0	16.0	27				1	1	10			
2211	660	25.0	22.3	15	37.0	01-55		10	8	25	GRAV, PROD (M)		*ESTIMATEU SINCE 1968
	1400	18.5	17.3	18	37.0			4	8	25			

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR • = ABO • = P.M. # = ABO & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION		
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	
LAWRENCE, LAWRENCE, CHAMFORD CONTINUED										
2240 U. S. HOOBLESTON	VANDERMARK-ALBRECHT	BRIDGEPORT CYPRESS	34=3N=12W	350*	4182*	21.2*	475*	350*	3117*	
*2224 ILLINOIS OIL CO.	FINLEY U	CYPRESS	45=3N=12W		748		30		692	
2225 ILLINOIS OIL CO.	GEE-IRWIN U	BETHEL CYPRESS	36=3N=12W	50*	634*	2.2*	47*	50*	586*	
2226 ILLINOIS OIL CO.	QUINING HEIRS	BETHEL MCCLOSKEY CYPRESS	36=3N=12W	60*	1122*	3.1*	112*	60*	1215*	
2281 JENNY LEE OIL CO	CALVERT+MOSGRAVE	BETHEL	3=3N=12W		7*		*		*	
2273 HEKMAN LUEB	LOEB AND MCPHERSON	CYPRESS	14,15,22=3N=12W	80*	3500*	4.4*	355*	80*	2094*	
2275 HEKMAN LUEB	BURNS, BRIGGS, ZELLAHS	BETHEL	8=3N=12W	100*	10842*	4.7*	630*	100*	5938*	
2227 U. LUEPFLEK ESTATE.	MCCRUSKEY HRS	BRIDGEPORT CYPRESS	25=3N=12W	85*	1048*	4.4*	90*	85*	1016*	
2277 U. LUEPFLEK ESTATE.	BUNKER MILL U	BETHEL	12=2N=12W	85*	3690*	3.1*	179*	85*	1747*	
2213 MAKATHUN OIL CO.	17 PROJECTS*	BETHEL JACKSON CYPRESS	T3,4N=R12,13W	1624*	403667	683.4	51019	14369	298405	
2214 MAKATHUN OIL CO.	9 PROJECTS*	BETHEL RENOIST BRIDGEPORT	T 3,4N R 12,13W	13909	234081	986.3	20795	12833	189604	
2216 MAKATHUN OIL CO.	4 PROJECTS *	MCCLOSKEY	T 3,4N R 12,13W	2089	63122	76.6	4437	1407	44315	
2234 MAKATHUN OIL CO.	ST LOUIS WF 11=M	ST LOUIS	30=4N=12W	44	445	1.1	5	12	30	
2247 MAKATHUN OIL CO.	MANDINSHUR WF 37=M	MARUINSBURG	27,34=3N=12W	256	3207	16.5	607	296	1852	
2279 MAKATHUN OIL CO.	HUGLEY 41-P	RINGLEY	20,34,35=3N=12W	356	8596	27.2	1266	364	5699	
2294 HECU, INC.	GEE HRS	CYPRESS	19=3N=11W, 22=3N=12W	40*	95*	4.1*	10*	40*	95*	
*2204 W. C. MCBRIDE	APPLIGATE	JACKSON CYPRESS	7=4N=12W, 12=4N=13W		4468		226		3476	
2210 W. C. MCBRIDE	NEAL	BETHEL MCCLOSKEY BRIDGEPORT	24=4N=12W	391	8931	12.1	692	329	6063	
2219 W. C. MCBRIDE	MCGENS	JACKSON CYPRESS	14=3N=12W	87	1977	3.9	234	91	1758	
*2249 W. C. MCBRIDE	HINKLE	BETHEL	26=3N=12W		175		74		223	
*2251 W. C. MCBRIDE	COMBS	MCCLOSKEY CYPRESS	20=4N=12W		779		65		339	
2254 W. C. MCBRIDE	VALRYMPLE	BETHEL JACKSON CYPRESS	24=4N=12W	134	5444	3.0	523	128	3017	
2265 W. C. MCBRIDE	HINKLE	BETHEL RENOIST BRIDGEPORT	26=3N=12W	279	3537	11.0	496	333	3704	
2203 MISTY OIL CO	BRIDGEPORT S U	BETHEL	19=3N=12W	180*	1856*	12.2*	166*	120*	756*	
2207 NATIONAL ENERGY	GRAY AREA	JACKSON BETHEL	13,14=4N=13W	55*	8122*	4.3*	742*	55*	5705*	
2266 NATIONAL ENERGY	KIRKWOOD-MCPHERSON	RENOIST CYPRESS	11,12,13,14=3N=12W	180*	3420*	12.7*	272*	180*	3360*	
2243 UTLFIELD OIL CO.	BELL UNIT	CYPRESS	1=3N=13W		2429		172*		998*	
2271 UAVIU PHILLIPS	BRUNSON=PAYNE=FAITH	CYPRESS	16,19=3N=11W	70*	555*	3.5*	40*	70*	500*	
2274 BEHNARU POLJOLSKY	WILLESPIE AND CALVERT	CYPRESS	15,22=3N=12W	*	1227*	2.0	180	17	578	
2237 A. BRANDT POWELL	STULIZ HEIRS	JACKSON CYPRESS	25=4N=13W	10*	1879*	0.2*	353*	10*	917*	
*2230 KEE, INC.	SNYDER	BETHEL CYPRESS	30=3N=11W		16		1		69	
2222 HUBERT WUSE	LEIGHTY	CYPRESS	32=3N=11W		117		2*		117*	
*2217 SHAKESPEARE OIL	S B'PDNY U C MILLER C	BETHEL	20,29,30=3N=12W		4902		536		2057	
2268 JOE SIMPAINS OIL	COLLINS SCML	CYPRESS	6=2N=11W, 31=3N=11W	100*	1710*	5.9*	119*	100*	1415*	
2202 WAYNE SMITH, OP.	L M PENKINS	SAMPLE BRIDGEPORT	1=2N=12W 32=4N=12W	325	17521	6.3	881	314	6220	
2220 WAYNE SMITH, OP.	BUCHMANAN	CYPRESS	7=3N=12W	77	3752	4.1	468	73	1154	
2221 WAYNE SMITH, OP.	OSLAN LEIGHMY	BETHEL RENOIST CYPRESS	31=3N=11W	*	2020*	1.4	75	80*	2108*	
2233 WAYNE SMITH, OP.	PEPPE	CYPRESS	30=4N=12W	+	9826*	2.1	994	40*	4937*	
2238 WAYNE SMITH, OP.	L M SEED	BETHEL CYPRESS	21=3N=12W	20	3391	*	15*	20	2359	
2256 WAYNE SMITH, OP.	GREEN	CYPRESS	24,25=4N=13W	*	2606*	*	177*	*	1027*	
2259 WAYNE SMITH, OP.	WMITTAKER AREA	BETHEL CYPRESS	2,10,11=3N=12W	93	11699	10.9	1478	82	5711	
2260 WAYNE SMITH, OP.	E J SEED	BETHEL JACKSON CYPRESS	15,16,22=3N=12W	35	2276	8.0	190	26	1185	
2265 WAYNE SMITH, OP.	PIPEH-ORULL AREA	JACKSON CYPRESS	1,2,11,12=4N=13W 35,36=5N=13W	489	14536	16.5	1797	472	7449	
2272 WAYNE SMITH, OP.	MAYHARD AREA	BETHEL RENOIST CYPRESS	25,26=3N=12W	37	2970	10.9	679	26	2237	
*2286 WAYNE SMITH, OP.	BUCHANAN AREA	BRIDGEPORT	2=2N=12W		190		1		2	
*2269 WAYNE SMITH, OP.	W.F. GULLO UNIT	CYPRESS	31=3N=12W		1930		5		1539	
*2223 TEXALO, INC.	LAWRENCEVILLE FFB	CYPRESS	7,18=3N=11W		524		15		134	
2239 ZANETIS OIL PROP	WAYNE HEIRS	AUX VASES MCCLOSKEY CYPRESS	28=3N=11W	17	348	1.7	46	17*	348*	
*2264 ZANETIS OIL PROP	CASSIL	CYPRESS	36=4N=13W		62		57		197	
2262 ZANETIS OIL PROP	CAHLSON	BUCHANAN CYPRESS	15=3N=12W	275	3967	5.4	365	235*	3967*	
2203 ZANETIS OIL PROP	HUDSON WF	BETHEL MCCLOSKEY CYPRESS	18=3N=11W		718		47*		718*	

RESERVOIR STATISTICS (AVG. VALUE)				DEVELOPMENT AS OF 12-31-78				INJECTION WATER				
FIELD, COUNTY								SOURCE TYPE				
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	PUR (%)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE ADD.	NO. OF WELLS INJ.	ACRES UNDER INJ.	SU = SAND GM = GRAVEL PM = PRODUCED SM = SHALLOW	(F) = FRESH (B) = BRINE (M) = MIXED	REMARKS
LAWRENCE, LAWRENCE, CRAWFORD												
2240	988	24.0	21.0	59.6	29.5	06-58		3	7	70		
	1648	15.0			59.8			1	3	40		
*2224	1600	12.0	17.0	50	36.0	01-67	01-72	3	8	80		
	1700	8.0	15.0	35				1	3	40		
2225	1530	20.0	18.0	100	36.0	02-67		1	1	20		*ESTIMATE SINCE 1972
	1630	15.0	16.0	50				1	1	20		
	1780	10.0	15.0					1	1	20		
2226	1550	12.0	18.0	100		12-65		1	2	20		*ESTIMATE SINCE 1972
	1650	10.0	16.0	70				1	2	20		
2281	1019	15.0				06-62		1	2	30		*NO DATA SINCE 1965
2275	1535	15.0	18.5	40	30.0	12-62		7	8	160		*ESTIMATE SINCE 1972
	1650	10.0	18.0	15				6	5	120		
2275	850	20.0	21.0	131	30.9	11-56		4	6	50		*ESTIMATE SINCE 1969
	1440	20.0						5	7	60		
2227	1600	15.0	18.0	75	36.0	01-66		1	2	10		*ESTIMATE SINCE 1972
	1725	10.0	15.0	50				1	2	10		
2277	975	10.0	19.0	35	35.0	02-64		1	2	40		*ESTIMATE SINCE 1972
	1775	8.0	14.0	25	33.0			4	7	100		
2215	1575					01-52		468*	596*	1400*		*JURY, WESTALL, KING, SUTTON, KIMMEL
	1430	10.0						560*	550*	5400*		BOYD, MIDGAM, NEWELL, MOURE, IMORN
	1530	10.0						220*	220*	2400*		GOULD, SEEN, GRAY, RYAN, LEIGHTY,
	1600	8.0						30*	30*	300*		FENNER, WISE-GRAY *ESTIMATE
2214	800	30.0			55.6	06-48		276	393	2096		*ROBINS, JUNGSON, KLINGLER, COOPER, SALTZELL, LEWIS, CLARK, FINLEY, GEE, VANDEMARK
2216	1700	20.0		1500		11-56		55	52	1637		
2234	1950	30.0				12-75		4	2	40		
2247	1350	13.0				09-71		13	10	290		
2279	1230	16.0	17.0	400		08-64		27	30	564		
2294	1625	15.0				6-76		2	9	110		
*2204	1240	10.0	19.0	80	34.7	09-52	12-67	15	16	180		*ESTIMATE
	1350	15.0	17.0	30				3	8	60		
	1635	3.0	23.0	40				10	10	40		
2210	970	15.0	20.0	200		05-56		1	1	20		PENN SU, PROD (R)
	1330	6.0	18.0	40				8	8	60		
	1390	25.0	19.0	20				3	8	80		
	1470	18.0	17.0	20				2	2	40		
2219	1530	12.0	16.0	30		06-66		4	6	50		PENN SU, PROD (R)
	1620	10.0	15.0	20				4	5	40		
*2249	1775	15.0	20.0	175		06-59	01-66	1	4	40		PENN SU, PROD (R)
*2251	1450	20.0	13.0	50		03-59	02-71	1	1	60		PENN SU, PROD (R)
	1630	10.0	12.0	10			07-66	2	2	20		
2254	1450	6.0	19.0	80		03-68		1	1	10		PENN SU, PROD (B)
	1500	20.0	19.0	80		09-59		3	5	70		MUST UP THE WATERFLOOD EFFECT HAS BEEN IN JACKSON AND CYPRESS
	1575	10.0	16.0	35		09-59		3	5	70		
	1650	13.0	15.0	25		09-59		6	6	70		
2265	1000	10.0	18.0	100		11-63		2	2	40		PENN SU, PROD (R)
	1550	17.0	18.0	50				4	3	80		
	1660	12.0	15.0	20				5	7	60		
2203	2000	18.0	17.5	45	37.0	09-70		4	10	110		PENN SU (R)
2207	1412	8.0	13.5	9		05-53		10	10	200		BRIDGEPORT, PROD (B)
	1577	11.0	21.0	40				10	10	200		*ESTIMATE
	1622	16.0	13.5	46				8	7	150		
2266	1540	20.0				10-64		6	17	260		SH SU, PROD (M)
*2245	1650	20.0	13.0	80	38.0	06-59	03-66	2	1	80		*1966 DATA ESTIMATE
2271	1560	16.0				10-69		5	11	130		SH SU, PROD (M)
2274	1590	14.0	18.5	40	30.0	11-62		4	7	100		BULMANAN, PROD (B)
2257	1460	6.0	20.0	85	38.0	07-58		1	2	30		PENN SU, PROD (B)
	1550	14.0						3	3	130		
	1680	20.0						1	1	20		
*2230	1580	25.0	21.2	125	38.6	10-52	01-55	1	2	10		TAR SPR, PROD (B)
*2222	1610	9.0			36.0	02-66	07-74	1	2	30		PENN SU, PROD (B)
*2217	1800	12.1	17.1	70	38.0	10-56	12-66	20	18	313		TAR SPRINGS (B)
2268	1550	15.0				01-69		17	20	350		PENN SU, GRAV (M)
	1820	10.0						19	25	450		*ESTIMATE
2202	900	14.0	18.0	125	36.0	02-55		19	10	100		BULMANAN SU, PROD (B)
	1350	20.0	18.0	100				19	10	100		
2220	1570	23.0	17.9	64	37.0	12-65		4	1	60		GRAVEL BED (F)
	1670	9.0	15.9	37				2	2	40		
	1730	9.0	12.5	2				3	4	60		
2221	1650	15.0	16.5	50	39.0	01-66		5	7	60		RIVER GRAV, PROD (M)
2235	1400	30.0	18.0	75	37.0	06-57		21	17	130		BULMANAN SU, PROD (B)
	1650	20.0	14.0	10	39.2			6	7	50		*EST. SINCE 1976
2238	1630	22.0	14.0	16	33.0	03-67		3	1	20		SH SU (F)
2256	1530	20.0	16.0	47	37.0	05-60		6	5	70		BULMANAN SU, PROD (B)
	1675	20.0	12.0	5	37.0			6	5	70		*INACTIVE SINCE 1974
2259	1320	20.0	13.0	35		11-60		26	26	650		RIVER, PROD. (M)
	1630	15.0						26	26	650		
2260	1500	5.0				02-61		3	2	40		SH SU (F)
	1590	16.0						1	2	30		
2265	1510	12.0	18.0	30	38.0	12-61		22	24	500		RIVER, PROD (M)
	1400	10.0	18.0	35	38.0			21	23	460		
	1525	6.0						5	8	160		
	1585	5.0						6	6	120		
2272	1575	25.0	16.0	20	39.5	12-63		6	16	120		BRIDGEPORT, PROD (B)
	1650	14.0						6	16	120		
*2266	950	40.0	19.0	100	31.0	07-63	02-66	2	2	40		SH SU (F)
*2269	1590	20.0	19.0	75	30.0	09-65	06-70	8	8	180		PENN SU, PROD (B)
*2223	1560	10.0	17.0	20	37.0	02-70	06-73	4	6	160		PROD, SUPPLY (M)
2259	1638	8.0	20.0	2	38.5	03-65		1	3	50		PRODUCED (B)
	1919	5.0	15.0	23				1	3	50		*ESTIMATE
*2264	1640	19.0			38.6	09-62	12-66	1	3	40		SH SU, PROD (M)
2282	1500	15.0				04-71		2	2	40		PRODUCED (B)
	1516	31.0	16.0	14	36.7	07-64		9	9	180		*ESTIMATE
	1622	22.0						1	2	40		
	1770	5.0	15.0	2				2	4	100		
*2283	1597	15.0	20.8	121	36.1	05-64	1-77	3	5	40		PRODUCED (B)

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * = A&D + = P.M. # = A&D & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION		
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	
LAWRENCE, LAWRENCE, CHAWFURU CONTINUED										
2292 ZANETIS OIL PROP	W.M.G.G. GILLESPIE	BUCHANAN CYPRESS	15-3N-12W	268	1742	0.3	412.0	266	1742	
LAWRENCE W, LAWRENCE *2250 ACME CASINO 2255 N. A. BALDRIJGE	S SUMNER UNIT LAWRENCE WEST	BETHEL BETHEL	14,23,24-3N-13W 23,24,25-3N-13W	30*	1191 310*	1.4*	186 26*	30*	285 310*	
LEXINGTON, WABASH 3858 SO. TRIANGLE CO.	LEXINGTON U	MCCLOUDSKY	26-18-14W	30*	2392*	1.3*	66*	30*	760*	
LILLYVILLE, CUMBERLAND, EFFINGHAM 704 HOYALCO, INC.	KRUGMAN	MCCLOUDSKY	31-9N-7E	110	2381	6.4	300	85	672	
LIVINGSTON, MADISON *2500 WILLIAM M. KHOMN *2501 M. W. MC DONNELL *2502 CHARLES P. WOOD	KRUGER L. AND D. MENKE UNIT KRUEGER	PENN PENN PENN	17-6N-6W 17,20-6N-6W 17-6N-6W		67 104 37*		3 25 3*			
LIVINGSTON S, MADISON 2509 HOWARD CLEFF 2507 FAIRFIELD UIL CO 2508 G. L. GROSSMANN	BEST-KERIN-LEITCH BLOM-FUWLER-KUEHNHUPP QUADE-REPOUSCH	PENN PENN BETHEL	27,34-6N-6W 27-6N-6W 21,22-6N-6W	45*	955*	3.3*	82*	65*	605*	
2509 HOWARD CLEFF				25	723*	5.4	104*	5	19*	
2507 FAIRFIELD UIL CO				40*	725*	1.4*	48*	40*	645*	
LUCUST GROVE, WAYNE *4085 ZANETIS OIL PROP	UAUBS O	AUX VASES	31-1N-9E		399*		25*		150*	
LOUEN, EFFINGHAM, FAYETTE 1252 N. A. BALDRIJGE	LOUDEN **	CYPRESS BETHEL CYPRESS	17,6N-R3,4E	200*	2172*	19.4*	327*	200*	2500*	
1230 BANGER ENG	SINCLAIR	BETHEL CYPRESS	29-8N-3E	167	5136	6.9	155	167	5077	
1243 BANGER ENG	WELKER	CYPRESS	31-7N-3E	56	1755	5.6	650	56	4490	
*1201 W. L. BELDEN	HINTON U	CYPRESS	32-7N-3E		100		11			
1202 W. L. BELDEN	UNIT 25	CYPRESS	24,25-8N-3E	111	6941	4.3*	596*	111*	6539*	
1209 W. L. BELDEN	B. F. OWENS	CYPRESS	9-7N-3E		757*	4.7*	235*		1280*	
1213 W. L. BELDEN	E. L. SMITH	CYPRESS	20-7N-3E	125	1650	5.1*	552*	125*	2586*	
1226 W. L. BELDEN	SATHER	CYPRESS	16,17-7N-3E	153	1761	13.4*	402*	153*	1225*	
1203 U. L. BUMTSCHI EST.	U. L. BURISLMI U	CYPRESS	16-7N-3E	35*	1283*	5.6*	226*	35*	765*	
1207 KEVIS O. CALVERT	MOHAN	BETHEL	29,31,32-7N-3E		16305*	1.3*	1454*	20*	11989*	
1215 KEVIS O. CALVERT	KOENLIEN	CYPRESS	30-7N-3E		2786**	0.2*	515*		1870**	
1217 KEVIS O. CALVERT	STUKES-WELKER	CYPRESS	14-8N-3E		2610**		429**		1255**	
1233 KEVIS O. CALVERT	SAPP	CYPRESS	18-7N-3E	10*	1686*	0.5*	160*	10*	718*	
1255 UOHAN OIL PROP.	J. W. ARNOLD	CYPRESS	14-7N-3E	40*	1720*	5.4*	114**	80*	1720*	
1204 EXXON	LOUDEN	CYPRESS	T 7, A, 9N-W 2, 3, 4E	45616	139623	1237.5	153654	34085	563475	
1216 FRY OIL CO	KHODES-WATSON	AUX VASES CYPRESS BETHEL BETHEL RENOIST	27,33,34-8N-3E	210*	6925*	1.2*	1112**	210*	5087*	
1206 GENERAL AMERICAN	UEVOME CURP	CYPRESS	1-7N-2E	205	2557	4.7	592	205	2436	
1254 TOM GRACE	BAIL-LUNG	CYPRESS	15-7N-3E	30*	775*	1.6*	42*	30*	775*	
1205 L. B. HOSS TRUST	STEWARD ANU UIAL	CYPRESS	6-7N-3E	20*	1072*	0.8*	122*	20*	416*	
1225 L. B. HOSS TRUST	EMERSON	CYPRESS	31-8N-3E	6*	116*	0.2*	12*	6*	194*	
1235 L. B. HOSS TRUST	H. LUGUE	CYPRESS	16-7N-3E	20*	835*	0.9*	7*	20*	500*	
1241 L. B. HOSS TRUST	ARNOLD-MURSN-SEALOCK	BETHEL CYPRESS	19-7N-3E	450*	5164*	30.7*	145*	450*	5012*	
1242 L. B. HOSS TRUST	LAURA LOGUE	CYPRESS	18-7N-3E	25*	355*	0.9*	69*	25*	353*	
1248 L. B. HOSS TRUST	KHODES	CYPRESS	18-7N-3E	110*	1221*	4.5*	197*	110*	1507*	
*1249 L. B. HOSS TRUST	BUZZARDU	CYPRESS	3-7N-3E		199		199		1650	
1210 K. L. HOSS	YOLTUN	CYPRESS	12-7N-2E/17-7N-3E	175**	5041**	6.4**	618**	175*	3734**	
1228 K. L. HOSS	SMITH	BETHEL CYPRESS	13-7N-2E	45*	2271*	2.0*	225*	45*	1686**	
1232 HUGHES PROD.	HOPPER-TOWNSEND-MCLRY	CYPRESS	12-7N-2E	163	3110	1.6	676	163	3616**	
1223 HUMBLE O AND R	LOUDON DEVUNIAN	GENEVA	2,10,11,15,20,21,22, 27,28,29,32,33-6N-3E 6-7N-3E		207361		19241		164970	
*1208 JARVIS BROS.	YARKEY	CYPRESS BETHEL	6-7N-3E		2632		286		1923	
*1234 KINGWOOD OIL CO.	WELKER	CYPRESS	13-7N-2E		115		2		25	
1214 KOONS & FRANK EXPL	MOHAN	CYPRESS	29-7N-3E	90*	4761*	4.5*	590*	90*	4912*	
1247 KOONS & FRANK EXPL	KIMMHELL-GOOD	CYPRESS	19-7N-3E	280*	474*	13.9*	606*	280*	4436*	
1236 MOSS-L- CURP	U. L. HURTSCHI	CYPRESS	16-7N-3E	140*	2426*	7.4*	314*	140*	2072*	
1237 MOSS-L- CURP	SEFTON	BETHEL CYPRESS	1,12-7N-2E	220*	1574*	12.7*	303*	220*	1628*	
1224 MOBIL OIL CORP.	LOUDON	CYPRESS	5-7N-3E, 32-AN-5E	1992	35615	46.4	5247*	2090	29430	
1227 MOBIL OIL CORP.	BUZZARD BRUS.	BETHEL CYPRESS	29-8N-3E	166	2651	3.7	245*	95	2226	
1212 SHULMAN BROTHERS	LOUDON EXTENSION	BETHEL CYPRESS	34,35,36-8N-3E, 2,3-7N-3E		35640		3206		23587	
1229 TEXACO, INC.	LOUDON SOUTH UNIT	CYPRESS	6,7-6N-3E/31-7N-3E	1935	30031	54.6*	2280**	1562	29199	
1244 TEXACO, INC.	LILLY	CYPRESS BETHEL	16-8N-3E	125	4041*	21.7	1100*	320	3567*	
1108 TRI STAR PROD CO	LOUDON EXTENSION	RENOIST CYPRESS	19-8N-4E	60*	891*	2.2*	122*	60*	391*	
1200 TRI STAR PROD CO	KHODES, MCCLELLY	CYPRESS BETHEL	26,27,30-8N-3E	16*	1959*	0.4*	95*	16*	1701*	
1218 TRI STAR PROD CO	N. LOUDON U	RENOIST CYPRESS	20,21-7N-3E	200*	19118**	1.3*	1625*	100*	14421*	
1219 TRI STAR PROD CO	S. LOUDON U	CYPRESS	21,2A,29-7N-3E		15985**	1.5*	2181*	100*	13123*	
1220 TRI STAR PROD CO	DUKBIN, FOMCE AREA	CYPRESS	24,26-8N-3E		2297**	0.4*	331**		1014**	
1221 TRI STAR PROD CO	MIATT	CYPRESS	29-7N-3E	66	3044*	1.5	491*	66	2933*	
1231 TRUOP DRILLING	W A EAULETON	CYPRESS	20-8N-7E		41		62		100	

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER			REMARKS
FIELD, COUNTY		NET PAY (PT)	PUP (%)	PERM (MD)	OIL GRAV (API)	DATE FIPST INJ.	DATE ABQ.	NO. OF WELLS	ALPES UNDEP INJ.	SOURCE	TYPE		
PROJ. NO.	DEPTH (FT)							INJ. PROD.		SU = SAND GR = GRAVEL SH = SHALLOW	(F) = FRESH (B) = BRINE (M) = MIXED		
LAWRENCE, LAWRENCE, CHAMFURU													
CONTINUED													
2292	1290	20.0				12-72		4	15	150	PRODUCED (R)		*EST. + INCL. PRIM. PROD. SINCE 1965
	1580	25.0						4	4	80			
LAWRENCE W, LAWRENCE													
*2250	2040	10.0	17.2	36	35.0	12-59	01-86	8	9	247	SH SD, PROD (B)		
2235	2050	18.0				1-75		4	10	150	PRODUCED (GEMEL)		*ESTIMATED
LIVINGSTON, MADISON													
3A58	2050	9.0	14.0	600	39.0	05-68		2	1	50	SH SU (F)		*ESTIMATED SINCE 1973
MILLYVILLE, CUMBERLAND, EFFINGHAM													
700	2450	8.0			35.0	05-57		3	6	160	PROD (B)		*ESTIMATED SINCE 1976
LIVINGSTON, MADISON													
*2500	520	15.0			33.5	07-54	12-57	2	5	80	BENOIST, A.V. S08 (B)		
*2501	525	22.0	16.0		36.0	05-52	12-70	10	10	80	SALEM, PROD (B)		
*2502	520	20.0			37.0	05-59	04-66	1	3	160	AUX VASES (B)		*NO DATA SINCE 1962
LIVINGSTON, MADISON													
2509	575	15.0				04-72		1	6	70	PRODUCED (B)		*ESTIMATED
2507	545	35.0	22.8	1421	35.0	10-63		5	7	150	SH SU (F)		
2508	2700	5.0	11.0			6-71		2	9	90	PRODUCED (R)		*ESTIMATED
OCELT GROVE, WAYNE													
*4085	3180	10.0			39.8	06-66	1-77	1	2	20	CYPRESS (R)		*ESTIMATED 1975-76
RODEN, EFFINGHAM, PAYETTE													
1252						02-72							*INCL WITH EXXON TOTALS * EST ** PUNCH FROM EXXON 2-72
1230	1446	25.0				06-60		4	4	80	PRODUCED (B)		
	1528	25.0						4	4	80			
1243	1530	40.0				11-56		2	4	80	TAK SPR, PROD (B)		
*1201	1584	20.0	17.4	126	34.0	09-54	01-63	1	1	20	PRODUCED (B)		
1202	1530	15.0			34.0	10-57		7	11	240	TAK SPR, PROD (B)		*INCL PRIM PROD; *ESTIMATED
1209	1450	27.0			38.0	09-54		1	3	40	TAK SPR, PROD (R)		*EST. + INJ. SUBP. 1-1-69
1213	1400	20.0	21.0	150	38.0	07-57		1	6	100	TAK SPR, PROD (R)		*ESTIMATED
1226	1480	30.0				09-64		2	9	140	TAK SPR, PROD (B)		*ESTIMATED
1203	1475	30.0				06-56		1	1	20	PURCHASED (B)		*ESTIMATED
1207	1562	37.0	18.0	200		03-54		2	3	320	PRODUCED (B)		*EST. SINCE 1971; +INJ. SUSP. 1971
1215	1590	30.0				05-57		4	5	60	TAK SPR, PROD (B)		*EST. + INACTIVE 1978
1217	1440	25.0	19.4	93		05-56		3	3	60	TAK SPR, PROD (B)		*EST. SINCE 73; +INACTIVE SINCE 77
1233	1400	30.0	19.0	95		11-62		4	2	40	TAK SPR, PROD (B)		*ESTIMATED SINCE 1973
1255	1490	25.0				01-66		1	6	80	PRODUCED (R)		*ESTIMATED
1204	1500	18.5	19.5	102	38.0	10-50		650*	675*	14700*	TAK SPR, PROD (B)		*ESTIMATED + INCL. PRIM. SINCE 66
	1540	11.6	18.3	85				360*	400*	7770*			*INCL 1252
	1020	15.4	19.1	109				260	260	5690			
	1660	14.1						25	25	541			
1216	1500	12.0	18.6	91	37.5	06-57		12	5	120	TAK SPR, PROD (B)		*INCL PRIM PROD SINCE 6-57 + EST
	1560	11.0						2	4	60			
	1610	27.5						3	2	50			
1206	1454	10.0	18.0	43	37.0	07-57		1	6	100	PRODUCED (B)		
1254	1560	7.0				6-75		1	3	70	PRODUCED (R)		*EST. + INCL PRIM PROD SINCE 1967
1205	1522	20.0	19.0	90	38.0	07-57		3	3	40	TAK SPR, PROD (R)		*ESTIMATED SINCE 1970
1225	1570	12.0	19.0		37.0	01-59		1	1	10	PRODUCED (B)		*ESTIMATED
1235	1475	26.0	19.0		37.0	11-61		1	1	20	PURCHASED (B)		*ESTIMATED
	1580	15.0	19.0					1	1	20			
1241	1490	68.0	20.0		38.0	11-58		1	9	140	PURCHASED (B)		*ESTIMATED
1242	1550	15.0			35.0	08-63		2	2	40	PRODUCED (B)		*ESTIMATED SINCE 1970
1248	1530	20.0	19.0		38.0	01-65		1	4	40	TAK SPR, PROD (B)		*ESTIMATED
*1249	1550	30.0	19.0	150	38.0	06-60	12-69	1	3	40	TAK SPR, PROD (B)		
1210	1504	30.0				08-57		4	4	40	TAK SPR, PROD (B)		*INCL BUTH PAYS; *EST. SINCE 71
	1540	29.0				07-57		2	2	40			
1228	1504	25.0				01-58		2	3	40	TAK SPR, PROD (B)		*ESTIMATED SINCE 1971
1232	1505	25.0			36.0	08-57		5	7	100	TAK SPR, PROD (R)		
1223	3100	18.0	14.4	41	29.0	09-63	12-66	7	42	2600	PRODUCED (B)		*CONVERTED TO GAS STORAGE RESERVOIR
*1208	1400	18.0				11-57	12-69	3	4	70	TAK SPR, PROD (R)		
	1540	27.0						2	5	70			
*1234	1558	11.0				05-62	12-69	1	1	10	TAK SPR, PROD (B)		
1214	1595	28.0			36.0	08-55		2	4	80	TAK SPR, PROD (B)		*ESTIMATED
1247	1534	22.0				01-59		2	5	40	TAK SPR, PROD (R)		*ESTIMATED
1236	1590	15.0			39.0	09-53		4	8	60	TAK SPR, PROD (B)		*ESTIMATED SINCE 1974
	1580	12.0						4	7	60			
1237	1560	20.0			39.0	08-57		2	3	50	TAK SPR, PROD (B)		*ESTIMATED SINCE 1974
1224	1450	18.0	18.4	101	37.0	01-58		24	12	240	TAK SPR, PROD (B)		*INCL PRIM PROD SINCE 1-58
	1525	20.0						12	12	240			
	1550	40.0						12	12	240			
1227	1400	20.0	18.4	102	38.3	10-58		2	2	40	TAK SPR, PROD (B)		*INCL PRIM PROD SINCE 10-58
	1420	20.0						2	2	40			
*1212	1530	30.0	20.0	200	36.0	12-55	12-68	44	48	416	TAK SPR, PROD (B)		*INCL PRIM PROD SINCE 12-55
1229	1600	25.0	18.5		37.0	05-60		19	18	632	PRODUCED (B)		*INCL PRIM SINCE 12-60; +EST
1244	1475	22.0			35.5	08-64		6	5	118	TAK SPRINGS (B)		*ESTIMATED 1977 DATA
	1555	22.5						6	5	118			
	1610	27.5						3	2	50			
1108	1550	8.0			36.7	01-63		4	6	200	TAK SPR, PROD (B)		*ESTIMATED SINCE 1975
1200	1515	12.0			37.5	01-54		4	1	120	PRODUCED (B)		*ESTIMATED SINCE 1975
	1570	12.0						4	4	80			
	1590	10.0						6	6	120			
1218	1550	21.0	21.0	180	37.5	11-56		5	5	250	TAK SPR, PROD (B)		*NO INJ 8-72 TO 1-76; +EST 73-78
1219	1550	18.4	20.4	164	37.5	03-55		5	5	350	PRODUCED (B)		*EST. SINCE 1975; +NO INJ. 1978
1220	1495	30.0			37.5	10-56		2	2	160	PRODUCED (B)		*INCL PRIM PROD; +EST; +NO INJ 78
1221	1536	40.0	19.0	250	37.2	09-56		2	2	40	PRODUCED (B)		*ESTIMATED SINCE 1975
*1231	1520	6.0			39.4	04-61	04-71	1	2	40	TAK SPR, PROD (B)		*SINCE 1-65

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO + = P.M. # = ABO & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
LOUISVILLE N, CLAY # 373 MCKINNEY, FUNDERS	WOLF-PORTER	SPAN MTN	9,10-4N-AE		25		2		20
MCKINLEY, WASHINGTON #4011 JET OIL CO.	FREIMAN-HUNLETH	RENOIST	29-35-4W		151		1		152
MAIN C, CRAWFORD, LAWRENCE, JASPER									
* 667 M. J. ADAMS	M. J. ADAMS W F	RUBINSON	28-8N-12W		1056				
* 602 ASHLAND U AND R	BINDS 1	RUBINSON	9,10,15,16-5N-11W		19507		536		
* 603 ASHLAND U AND R	BINDS 2	RUBINSON	20-5N-11W		2512		114		605
* 604 BELL BROTHERS	BARRICK	RUBINSON	13-7N-13W		1975*	1.5	146	83	1155
* 668 PHIL BUNTER	ORLONG	RUBINSON	9-7N-13W	50*	1092*	2.3*	95*	50*	1102*
* 599 LALIENTE OIL CO	GEORGE L. WALTERS	RUBINSON	2-6N-13W		1632*		32*		720*
* 589 CLARENCE CATT	SPARKS WF NO. 1-M	BETHEL	1-6N-12W		258		11		119
* 598 CLARENCE CATT	HUUSON WF	BETHEL	6-5N-12W	10*	812*	0.6*	29*	10*	411*
* 616 CLARENCE CATT	MC CALL	RUBINSON	1-5N-13W		6		1		6
* 643 CLARENCE CATT	EAGLETON UNIT	SAMPLE	1-5N-13W	240*	1528*	12.5*	79*	240*	1148*
		BETHEL							
* 646 CITATION OIL CO	CONOVER	RUBINSON	19-7N-12W	40*	766*	2.5*	36*	40*	766*
* 695 JALM COLE	MULLINS	RUBINSON	9-5N-12W		15		6		11
* 609 E. CONSTANTIN	J.S. KIRK	RUBINSON	24,30,31,32-7N-12W		977*		57*		
* 610 E. CONSTANTIN	SMITH	RUBINSON	7-7N-12W, 12-7N-13W		337		1		1
* 607 LREST ASSOCIATES	MICHELL	RUBINSON	24,29-7N-13W		935*		107*		125*
* 615 LREST ASSOCIATES	PONTERVILLE	RUBINSON	25,36-8N-13W		1345		44		
* 619 ENERGY RESOURCES	ALEXANDER-KEYNOLD*	RUBINSON	19,20-7N-12W		8450*		602*		2095*
* 644 ENERGY RESOURCES	CRAWFORD CO. FLOOD	PENN	6,7-5N-12W	30*	1237*	1.3*	50*	30*	1125*
		BETHEL							
* 612 O. W. FRANCHOT	BINDS	RUBINSON	14,15,16,21,22-5N-11W		53049		1529		4250
* 617 M. M. FRY	WRIGHT FLOOD C	RUBINSON	23,24-6N-13W		8335*		300*		5640*
* 693 R. M. FRY	SMILTS FLOOD C	RUBINSON	8-6N-13W	50*	3594*	2.7*	86*	50*	1992*
* 631 HAWKLO FOUNCANNON	BINDS AREA	RUBINSON	10,20,21,28,29-5N-11W	119	34095*	17.3	1576*	119	21048*
* 614 GEN. OPERATIONS	LITTLEJOHN	RUBINSON	20-6N-12W		699		34		179
* 594 GETTY OIL CO	A. H. MANN	RUBINSON	5,4-5N-12W, 32-6N-12W	437	11359	7.5	487	343	7093
		BETHEL							
* 596 GETTY OIL CO	STIFLE-MCKNIGHT	RUBINSON	7,18-7N-13W	57	3804	6.7	241	302	2580
* 597 GETTY OIL CO	ALLEN-AMES DEEP	BETHEL	29-7N-13W	621	4935	11.0	444	219	1602
		AUX VASES							
		MCCLOSKEY							
* 630 GETTY OIL CO	BIRCH 1	RUBINSON	14-6N-13W	554	7576	5.6	504	264	4967
* 632 GETTY OIL CO	BARRICK-WALTERS	RUBINSON	16,19-7N-12W, 15,24-7N-13W	1720	41530	31.4	1696	1302	23035
		RUBINSON	16,17,21,22-6N-13W						
* 633 GETTY OIL CO	WOOD-HAWK	RUBINSON	11-7N-13W	105	9490	6.6	664	95	6041
* 634 GETTY OIL CO	HAWK	RUBINSON	29-7N-13W		5713		461		5213
* 635 GETTY OIL CO	AMES	RUBINSON	29-7N-13W	150	3453	7.6	337	175	3290
* 636 GETTY OIL CO	DENNIS-MARVIN	RUBINSON	27,34-6N-13W	383	14088	7.2	491	242	9122
* 637 GETTY OIL CO	THOMPSON	RUBINSON	26,27-6N-13W	60	2847	2.6	276	69	2660
* 641 GETTY OIL CO	STIFLE-DRAKE	RUBINSON	9,10,14-7N-13W		8369		564		5788
* 645 GETTY OIL CO	M. URAKE	BETHEL	17-7N-13W	173	1616	1.4	21	20	183
		AUX VASES							
* 648 GETTY OIL CO	C.M. STIFLE C	BETHEL	8-7N-13W	45	497	0.3	6	6	89
		AUX VASES							
* 649 GETTY OIL CO	J.G. MCKNIGHT C	BETHEL	16-7N-13W	3	236	1.2	13	16	116
		AUX VASES							
* 668 GETTY OIL CO	HUGHSMITH	RUBINSON	20,21-6N-12W	449	7619	7.5	294	169	3924
* 694 GETTY OIL CO	WALTERS-STANTZ	RUBINSON	14,15-7N-13W		938		56		597
* 621 ILL. USE, OP.	SIEMM-NEWLIN-MUUSER	RUBINSON	14-7N-13W		288*		26*		117*
* 618 G. JACKSON	STANFIELD	RUBINSON	17-8N-12W		47				5
* 613 KOUNS & FRANK EXPL	CULVER WATERFLOOD	RUBINSON	5,6,7-7N-12W		4691*		189*		
* 590 PENNY LACKY	QUICK MRS HARTLEWOOD	RUBINSON	29-7N-12W		368*		50*		250*
* 591 U. R. LEAVELL	BIULE	RUBINSON	25-8N-13W	140*	957*	7.5*	38*	140*	618*
* 606 U. R. LEAVELL	GROGAN (FLOOD 26)	RUBINSON	4,5,9-7N-13W		10*	0.7*	43*		
* 611 U. R. LEAVELL	ORLONG (FLOOD 25)	RUBINSON	5,8,9-7N-13W		908*		63*		
* 651 U. R. LEAVELL	SCHOTT-BIULE	RUBINSON	32-8N-12W		80*	6.3*	20*	80*	160*
* 669 U. R. LEAVELL	ORLONG (FLOOD 27)	RUBINSON	8-7N-13W		50*	1.6*	195*		
* 670 U. R. LEAVELL	STIFLE	RUBINSON	8-7N-13W	3010**	3010*	52.0*	52*		
* 691 U. R. LEAVELL	ORLONG (FLOOD 29)	RUBINSON	17-7N-13W		190*		65*		
* 620 THE HADDONELL CO	GONDKEY AREA	RUBINSON	6,7-7N-13W/12-7N-14W	419	4068	27.7	299	430	3499
* 671 THE HADDONELL CO	KIMTLAND U	RUBINSON	5-6N-13W	181	7036	4.2	179	180	3104
* 672 THE HADDONELL CO	KIMTLAND-DEE	RUBINSON	5,6-6N-13W	208	20079	21.9	954	506	13336
* 623 MARATHON OIL CO.	17 PROJECTS*	RUBINSON	76,7,8N-12,13,14W	8498	467699	261.1	30113	8504	301900
		AUX VASES							
* 650 MARATHON OIL CO.	FLOOD 99-X	RUBINSON	6-7N-13W	181*	1984*	14.4*	96*	334*	1941*
* 698 MARATHON OIL CO.	THURNTON WF 21-M	BETHEL	17,18,19,20,29-7N-13W	1431	28242	83.3	3059	1342	15654
		AUX VASES							
		MCCLOSKEY							
* 592 MT. CARMEL DRUG.	NEW HEBRON WATERFLOOD	RUBINSON	22-6N-12W		1562		113		687
* 593 MT. CARMEL DRUG.	STEWART-INSOUEN	BETHEL	36-6N-12W		135		5		32
* 624 PARTLOW, COCHNOR	RICH	RUBINSON	35,36-6N-12W		2716		67		1134
* 662 PETROL, PROD, CO	RHOODES	RUBINSON	29,32-8N-12W		445				
* 608 PRUDENTIAL OIL	TOMILL-HUGHES	RUBINSON	27,28-6N-13W		6035*		401*		4180*
* 625 HEU HEAD OIL CO.	UM	RUBINSON	25,26-6N-13W		4220*		105*		1103*
* 663 REE, INC.	MESENVE UNIT	RUBINSON	11-6N-13W		251		31		92*
* 626 E. C. REEVES	BILLINGSLEY COUP	RUBINSON	34,35-7N-13W		2736*		35		
* 605 M. F. ROBERTS	BISHOP C	RUBINSON	19,20-8N-12W		2208		1		
* 622 CURTIS MOSS	DEES-LEWIS-WALL-YOUNG	RUBINSON	4,9-6N-13W	550*	3178*	7.5*	139*	350*	2769*
* 647 NOYALCO, INC.	ORLONG BENOIST	BETHEL	19,20,29,30-7N-13W	140*	1022*	13.0*	390*	170*	1507*
* 640 NOYALCO, INC.	OAK KIUGE	BETHEL	17-5N-12W		537		89*		
* 681 NOYALCO, INC.	OAK KIUGE U	CYPRESS	17-5N-12W		3213		108*		893*
* 685 NOYALCO, INC.	JENNIS HEINS U	RUBINSON	29,30-7N-13W		22916		1032		8368
* 686 NOYALCO, INC.	C.J. BEST	RUBINSON	20,29-7N-13W		2366		109		874*
* 687 NOYALCO, INC.	STEWART HEIRS	RUBINSON	21-6N-13W		4090		289		2310
* 669 NOYALCO, INC.	HULSE-ALLEN	RUBINSON	12,13-7N-14W		397		75		424*
* 697 NOYALCO, INC.	DEES C	RUBINSON	28-6N-13W		1463		40		658
* 627 SHAKESPEARE OIL	MCINTOSH UNIT	RUBINSON	17,18,19,20-6N-12W		396		16		241
* 628 SHAKESPEARE OIL	MONTGOMERY UNIT	RUBINSON	32,33-6N-12W 4-5N-12W		516		18		177

RESERVOIR STATISTICS (AVG. VALUE)				DEVELOPMENT AS OF 12-31-78					INJECTION WATER			REMARKS
FIELD, COUNTY				NO. OF WELLS		SOURCE			TYPE			
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE A6D.	TNJ.	PRD.	ACRES UNDER INJ.	SU *SAND GR *GRAVEL PHOU*PRODUCED SM *SMALLOW	
LOUISVILLE N, CLAY												
• 373	2800	10.0				11-70	05-72	1	2	37	LYPRESS (R)	
MCKINLEY, WASHINGTON												
• 4011	1050	10.0				04-65	07-64	2	2	20	PRODUCED (G)	
MAIN C, CHAMFORD, LAWRENCE, JASPEK												
• 607	1000	22.0	18.5	96		01-58	12-56	5	4	60	LAKE, PRODUCED (H)	
• 602	950	20.0	21.0	136	31.0	05-54	01-64	67	53	530	PENN SAND (R)	
• 603	930	25.0	21.0	125	30.8	03-57	01-66	11	9	200	GRAV, PRD (M)	
• 604	960	26.0	19.2	128	34.9	10-54		4	2	40	PENN SU, PRD (R)	
• 599	930	20.0	40.0	75	36.0	07-52		5	12	200	PRODUCED (G)	
• 598	1350	7.0				10-64	12-75	5	7	70	PENN SU, PRD (R)	
• 598	1320	10.0			35.0	02-68	01-70	1	1	20	PRODUCED (G)	
• 616	620	18.0			32.0	08-64		2	1	20	SM SU (F)	
• 643	1257	19.0	17.6		33.0	05-66	01-70	1	3	40	PRODUCED (G)	
• 643	1323	15.0	16.0			01-68		4	3	60	PRODUCED (G)	
• 646	930	22.0	19.0	95		06-70		4	3	60	PRODUCED (G)	
• 695	925	10.0	20.0	100	33.4	12-62	12-68	2	6	100	PENN SU (R)	
• 609	900	20.0	17.0	170	34.0	06-51	06-67	14	37	56	CITY WATER (F)	
• 610	900	25.0	18.0	70	34.0	03-54	01-70	6	5	50	SURFACE (F)	
• 607	690	10.5	21.1	99	33.5	06-53	01-65	13	19	78	PENN SU, PRD (R)	
• 615	690	20.0	17.0	47	32.6	04-54	01-70	5	19	50	LAKE (F)	
• 619	940	22.0	22.0	167	34.0	12-51		28	29	280	LYPRESS, PRD (R)	
• 644	1180	7.5	17.6	324	38.0	06-68		1	4	50	PENN SU (R)	
• 612	950	20.0	18.9	162	31.7	06-51	11-71	95	104	1030	MIXED GRAV, PRD (M)	
• 617	900	15.0	20.0	245	34.0	01-53		9	16	18	PENN, PRD (G)	
• 693	900	10.0	18.0	150	36.0	06-63		6	6	80	PENN, PRD (G)	
• 631	950	21.8	19.4	197	30.1	02-57		5	49	764	GRAV, PRD (M)	
• 614	650	24.0	20.0	50	37.5	10-52	12-50	4	9	60	PENN SU, PRD (R)	
• 594	950	20.1	20.0	150	33.0	01-61		18	19	140	CASAL PENN, PRD (G)	
• 596	950	17.3	20.0	100	34.0	04-61		9	9	92	PENN SU, PRD (R)	
• 597	1332	10.0	14.2	30		01-70		9	5	170	PRD, FRESH (M)	
• 630	1406	5.0	18.0	10				9	6	170		
• 630	1434	4.0	19.6	10				9	5	170		
• 632	681	34.3	19.1	108	33.0	06-54		10	7	61	GRAV, PRD (M)	
• 632	950	30.9	20.0	152	35.0	03-54		28	36	407	PENN SU, PRD (G)	
• 633	930	24.3	21.0	378	35.0	04-57		4	5	174	PRODUCED (G)	
• 634	950	20.2	19.4	184	35.3	02-52	11-71	10	19	79	PRODUCED (G)	
• 635	980	25.3	20.0	150	35.0	10-56		7	8	153	SM SU, PRD (M)	
• 636	675	33.7	19.8	173	32.7	08-50		18	10	93	PURCHASED (R)	
• 637	660	32.9	19.8	106	33.0	07-52		8	3	40	PURCHASED (M)	
• 641	980	23.6	18.2	221	33.5	06-52	11-71	19	19	278	PENN SU, PRD (R)	
• 645	1364	8.0			36.8	10-71		6	2	60	SM SU, PRD (M)	
• 648	1404	6.0						6	2	80		
• 648	1403	14.0	14.0	13	34.0	01-72		2	2	60	PURCHASED (R)	
• 649	1436	12.0	11.0	2				2	2	60		
• 649	1412	3.0	11.5	19	34.0	04-72		1	1	20	PURCHASED (R)	
• 649	1435	8.0	8.8	2				1	1	20		
• 668	920	21.2	20.0	80	35.0	04-59		11	6	140	PENN SU, PRD (R)	
• 696	950	17.1	19.0	200		06-63	11-71	4	10	67	PENN SU, PRD (R)	
• 621	696	36.0				07-63	01-73	2	5	160	PENN SU (R)	
• 618	977	30.0	23.0	57	36.0	06-52	08-53	3	3	20	SM SU, PRD (M)	
• 613	950	17.0	19.5	106	36.8	02-61		13	20	126	PRD, PRD (M)	
• 590	935	12.0	19.3	36	37.0	11-60		4	9	60	PRODUCED (G)	
• 591	1000	10.0	15.0	85	34.0	07-61		3	6	80	PRODUCED (G)	
• 606	950	20.4	18.9	71	37.0	10-53		12	27	151	GRAV, PRD (M)	
• 611	990	23.2	18.3	69	37.0	08-56		23	29	174	GRAV, PRD (M)	
• 651	995	18.0				04-76		5	12	120	PRODUCED (G)	
• 669	950	15.3	17.8	35	37.0	01-58		8	8	87	GRAV, PRD (M)	
• 670	950	24.4	18.9	85	37.0	01-58	1-77	5	2	27	GRAV, PRD (M)	
• 691	950	15.0	18.6	106	37.0	01-63		1	5	22	GRAV, PRD (M)	
• 620	910	21.0	20.8	165	34.4	11-66		5	29	310	PRODUCED (G)	
• 671	600	40.0	20.1	143	34.9	01-58		9	7	30	PENN SU, PRD (R)	
• 672	913	40.0	20.8	156	36.8	01-58		23	61	330	PENN SU, PRD (R)	
• 623	920	20.0	19.5	125	34.0	05-68		344	442	6176	GRAV, PRD (M)	
• 650	900	20.0	20.0	100		01-74					PRODUCED (G)	
• 698	1340	10.0	15.0	30	38.0	07-63		48	43	1410	GRAV, PRD (M)	
• 592	1390	8.0						45	40	1410		
• 592	1450	8.0						52	25	1750		
• 593	930	14.0	15.8	16	36.0	01-63	10-71	8	14	130	PENN SU (R)	
• 593	1310	10.0	16.0	45	34.0	03-64	07-60	2	2	50	PENN SU, PRD (R)	
• 624	1006	22.0	24.3	240	26.0	10-54	12-61	5	9	60	LAKE, PRD (M)	
• 662	1000	15.0	20.0	75	35.7	09-51	12-50	4	2	40	SM SU, PRD (M)	
• 608	900	20.0	20.0	100	32.0	06-51		6	9	130	SM SU, PRD (M)	
• 625	640	10.5	21.2	96		07-53	12-62	16	14	103	PENN SU, PRD (R)	
• 603	950	22.7	21.9	89		11-53	05-55	4	4	20	PENN SU (R)	
• 626	925	20.0	30.0	45		12-53	07-64	6	8	115	PENN SU (R)	
• 605	1000	22.4	22.1	156	35.7	11-53	02-60	26	7	70	SM SU, PRD (M)	
• 622	675	15.0				01-68		14	16	300	SM SU, PRODUCED (M)	
• 647	1250	8.0	16.5	20	38.0	04-71		7	14	160	PRODUCED (G)	
• 660	1590	8.0	14.0	15	35.7	10-61	05-64	1	5	420	SM WELL, PRD (M)	
• 661	1470	15.0	18.5	57	35.9	10-61	05-64	5	6	420	SM WELL, PRD (M)	
• 665	950	20.0	19.0	120	37.2	12-59	05-64	71	64	780	SM WELL, PRD (M)	
• 666	950	20.0	15.0	12	37.2	11-61	05-64	7	11	80	SM WELL, PRD (M)	
• 667	950	38.0	28.7	240	37.0	10-60	11-70	6	9	40	PRODUCED (G)	
• 669	936	50.0	18.5	74	36.8	12-61	03-69	3	5	180	PURCHASED (R)	
• 697	930	12.0	17.0	64	37.2	09-61	05-64	7	9	160	SM WELL, PRD (M)	
• 627	925	12.0			32.6	07-54	01-54	4	8	39	PENN SU (R)	
• 628	975	25.8	22.6	150	28.3	05-54	05-56	6	6	52	PENN SAND (R)	

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * * ABO * * P.M. # * ABO & P.M.	PROJECT U * UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
MAIN C, CHAMFORD, LAWRENCE, JASPER CONTINUED									
* 661 SKILES OIL CORP.	CORRELL-GUNKLEY COOP	ROBINSON	10-7N-12W		1214		30		227
* 664 SKILES OIL CORP.	WALTER CUMM COUP	ROBINSON	1-6N-13W, 36-7N-13W		26				29
* 665 SKILES OIL CORP.	WEGE LOUP	ROBINSON	18,19-5N-11W 13,24-5N-12W 28-7N-12W		770		8		109
* 595 JAMES M. STONE	MC CANE	ROBINSON	28-7N-12W		55		1		12
* 629 JAMES M. STONE	CLARK-MULSE	ROBINSON	10-7N-13W		5726		303		1981
* 639 JAMES M. STONE	LEFEVER-MUSGRAVE	ROBINSON	13-7N-14W		3754*		427*		2274*
* 638 TIDEWATER OIL CO	HENRY-KEMIRE	ROBINSON	10,15-7N-13W		4187		470		2401
* 640 TIDEWATER OIL CO	MONTGOMERY-SLEITZINGER	ROBINSON	15,16-5N-11W		1544		67		817
* 642 TIDEWATER OIL CO	WALTER-STANL COUP	ROBINSON	13,14-7N-13W		991		111		712
* 679 MAUSAU PET. LOUP	HIGHSMITH LOUP	ROBINSON	31-6N-12W		153*				37*
* 659 E. L. WHITHER	SANDERS	ROBINSON	26,30,35,36-6N-13W, 1,2,3-5N-13W 26,35-8N-13W	120*	6864*	6,4*	133*	120*	2139*
* 694 WICHITA INDUSTRIES	FLYNN	ROBINSON	8,17-7N-12W		270*	5771*	12,5*	566*	270*
* 692 GEORGE WICKHAM	PRICE, KEITH, BAKLUM	ROBINSON			1571		59		921
MAPLE GROVE C, EDWARDS, WAYNE									
* 1008 ASHLAND U AND R	BENNINGTON COOP	MCCLOSKEY	7-1N-10E		572		166*		
4078 GILBERT A. HIGGINS	MT EMIE E	AUX VASES	22,23-1N-9E		108*		10*		18*
4063 TRIPLE B OIL CO	HUGBLE	AUX VASES	13-1N-9E	50*	665*	1,8*	36*	50*	585*
* 1025 L. UKRANSKI	MAPLE GROVE	MCCLOSKEY	9,10-1N-10E		1238*		189*		1238*
* 4127 WINMAR OIL CO.	W BENNINGTON	AUX VASES	13-1N-9E		171*		32**		213
MARINE, MADISON									
2504 KANCMER PIPE	MARINE PILUT U	SILURIAN	8,9,17-4N-6W		300*	2454*	5,2*	36*	300*
MAKHMAM CITY, JEFFERSON									
* 2003 TIDEWATER OIL CO	NEWTON	STE GEN	1-33-4E				1		7
MAKHMAM CITY #, JEFFERSON									
* 2004 GULF OIL CO	W MAKHMAM CITY U	AUX VASES	3,4,9,10-33-4E		6404		429		4477
* 2020 M DOUBLE L	MAKHMAM CITY WEST U	MCCLOSKEY	34,35-28-4E, 2-33-4E		300		1		300
MARIINSVILLE, CLARK									
* 214 AMERICAN PUMP	FRUDERMAN AND LONNELLY	PENNSYLVANIN	13-9N-14W		3778*		121*		
* 218 J. S. DUMMAN	W MORGAN	CARPER	31-10N-13W		283				5
* 219 MOBIL OIL CORP.	CARPER	CARPER	30-10N-13W		1111		10*		10
* 220 MOBIL OIL CORP.	CASEY	CASEY	19-10N-13W		872		2		34
MASON N, EFFINGHAM									
1104 MIU-STATES OIL PROP	MASON N U	RENUIST AUX VASES	9,10-6N-5E		100*	2457*	6,0*	177*	100*
MATTOON, COLES									
* 515 ASHLAND U AND R	UEGLER BKOS COUP	CTPRESS SPAK MTN	3-12N-7E		459		22		174
500 N. A. BALDRIDGE	MATTOON	CYPRESS SPAR MTN	23,24,25,26,27,34,35, 36-12N-7E, 2,11-11N-7E	300*	34574*	12,2*	2110*	300*	15267*
507 N. A. BALDRIDGE	UDELL	SPAK MTN	10-11N-7E	20*	641*	0,9*	28*	20*	641*
512 N. A. BALDRIDGE	SOUTH MATTOON UNIT	CYPRESS AUX VASES	34-12N-7E, 3-11N-7E	195*	11195*	6,1*	1233*	195*	6437*
520 N. A. BALDRIDGE	MATTOON COUP	SPAK MTN	10,11-11N-7E	30*	701*	0,3*	75*	30*	311*
* 504 UELL CARROLL	MATTOON	CYPRESS	23-12N-7E		189		25*		88
* 506 UELL CARROLL	MATTOON	SPAK MTN	23-12N-7E		348		84		173
* 516 UELL CARROLL	CARLYLE 4-A	SPAK MTN	11-11N-7E		47		25		28
523 COLLINS BRUS.	LANDSMAN-MILL	CYPRESS	27-12N-7E	30*	850**	1,5*	91**	30*	850**
503 WALTER DUNCAN	REUMAN-MACAE	SPAR MTN CYPRESS	23-12N-7E	50*	708*	2,2*	78*	50*	754*
511 WALTER DUNCAN	OMH	SPAK MTN CYPRESS	2,3-11N-7E	160*	3395*	7,8*	446*	160*	1650*
514 WALTER DUNCAN	ARTHUR-OLIVER	AUX VASES SPAK MTN	2-12N-7E	50*	3335*	1,6*	251*	50*	1640*
521 WALTER DUNCAN	COLEMAN UNIT	SPAK MTN	10-11N-7E	30*	944*	1,1*	181*	30*	827*
* 525 WALTER DUNCAN	PANNEE ROYALTY	SPAK MTN	23-12N-7E		700*		130**		600*
* 524 GORDON OIL CO.	TIVNEN	CTPRESS	35-12N-7E		2000*		180*		1500*
* 501 PHILLIPS PET. CO	TINSLEY	SPAK MTN	22-12N-7E		249		15		144
* 509 SAFARI OIL CO	NORTH MATTOON UNIT	CTPRESS	10,11-12N-7E		1977		157*		457
* 519 SCHAEFER OIL CO.	MENKIMER	SPAR MTN	11-12N-7E	100*	1124*	3,3*	58*	100*	334*
517 MARGUERITE STEVEN	G. BRINING	AUX VASES SPAK MTN	3-11N-7E	35*	607*	1,7*	75*	35*	498*
MATTOON N, COLES									
518 ELMER M NOVAK	N.M. MATTOON WF	SPAK MTN	22-13N-7E		30*	1640*	1,6*	164*	30*
MAUNIE N C, WHITE									
* 4453 COT OIL CO	KAMMING	TAR SPRINGS OMAHA	24-53-10E		220*		46**		220*
* 4307 UEVON CORP.	ACKERMAN-BOMLEBER-JSN	AUX VASES	35-53-10E		652*		65*		115*
4328 UEVON CORP.	ACKERMAN	AUX VASES	23,26-53-10E	45	1365	2,5	95	20	638
4448 UEVON CORP.	ACKERMAN	SPAK MTN BETHEL	25-53-10E	20*	1120*	1,7*	141*	20*	1120*
4384 MIU-STATES OIL PROP	MAUNIE WF U	AUX VASES MCCLOSKEY PENNSYLVANIN RETMEL	24,25,36-53-10E		6497*		1635*		3838*
4452 NAPCO	ACKERMAN E	AUX VASES BETHEL	25-53-10E			5,1*	144*	50*	650*
* 4282 LOUIS PESSINA	RIDEYRE ISLAND UNIT	AUX VASES WALTENSBURG TAR SPRINGS	19,30-53-14W		817		180		373
4336 WEBSTOCK OIL CO.	M B BOMLEBER	AUX VASES	26-53-10E	5*	1083*	0,2*	146**	5*	1131**
* 4220 RULED OIL CORP.	MAUNIE N U	MC CLUSKY AUX VASES	18,19-53-14W		2640*		338*		

RESERVOIR STATISTICS (AVG. VALUE)						DEVELOPMENT AS OF 12-31-78				INJECTION WATER				REMARKS
FIELD, COUNTY		NET	PUR	OIL	DATE	NO. OF		ACRES	SOURCE			TYPE		
PNOD NO.	DEPTH (FT)	PAY (FT)	(X)	PERM (MD)	GRAV (API)	FIRST INJ.	DATE ABD.	INJ.	PRD.	UNDER INJ.	SH = SAND GM = GRAVEL PKOU = PRODUCED SM = SMALLER	(F) = FRESH (B) = BRINE (M) = MIXED		
MAIN C, CHAMFURU, LAWRENCE, JASPEK														
CONTINUED														
* 601	1035	20,0	22,2	100	33,0	07-51	09-55	18	17	180	PENN SU, PKOU (B)			
* 604	985	12,5	20,1	93	36,0	12-51	01-53	5	6	40	PENN SU, PKOU (B)			
* 605	900	20,0	17,0	37		11-52	07-56	9	11	90	CREEK, PRDU (M)			
* 595	1120	30,0	19,0	200		03-65	06-66	1	4	5	PENN SU (A)			
* 629	910	25,4	19,9	278	34,0	01-52	01-70	13	4	80	SM SU, PKOU (M)			
* 639	910	24,4	20,0	250	34,0	02-54		14	14	119	SM SU, PKOU (M)		*E87J *1978 DATA NOT AVAILABLE	
* 638	935	14,6	21,0	175	35,0	07-48	12-63	24	44	104	PENN SU, PKOU (B)			
* 640	974	21,0	19,0	144	32,0	05-54	12-63	6	3	64	SM SU, PKOU (M)			
* 642	987	15,9	20,0	100	35,0	11-54	07-65	7	2	56	PENN SU, PKOU (B)			
* 679	690	20,0	21,5	50	32,0	09-51	04-59	13	23	130	PENN SU (B)		*LAST DATA AS OF 12-31-52	
* 659	680	20,0	21,0	205	32,0	08-52		65	57	277	PENN SU, PKOU (B)		*ESTIMATEJ NU UATA 1956-1974	
* 694	980	12,0	18,6	200	37,4	11-63		14	18	210	LAKE, PRDU (M)		*ESTIMATE SINCE 1973	
* 692	1050	10,0			30,0	05-62	09-66	2	3	30	PENN SU, PKOU (B)			
MAPLE GROVE C, EDWARDS, WAYNE														
* 1008	3100	5,0			38,0	09-52	06-61	4	11	300	PRODUCED (B)		*INCLUDES PRIMARY PKOU	
4078	3170	15,0				11-68		1	1	30	PENN SU (A)		*ESTIMATEJ NU UATA SINCE 1973	
4063	3150	12,0				09-71		2	8	110	PENN SAND,		*ESTIMATEU	
* 1025	3270	8,0			36,0	07-61	01-74	5	5	260	CYPRESS, PKOU (B)		*ESTIMATEU SINCE 1967	
* 4127	3150	15,0	24,0	50	37,0	01-57	12-61	1	5		CYPRESS SD (B)		*ACREAGE INCL WITH 4063	
MARINE, MADISON														
2504	1725	49,0			34,0	12-70		3	7	240	PROD & SUPPLY (M)		*ESTIMATEU SINCE 1974	
MARKHAM CITY, JEFFERSON														
* 2003	3080	6,0				08-55	12-56	1	1	40	CYPRESS (B)		*DUMP FLOWU	
MARKHAM CITY #, JEFFERSON														
* 2004	2900	11,8	22,1	269	38,0	04-54	12-63	12	9	230	LYPRESS, PKOU (B)			
	3000	7,0	15,4	230				7	7	150				
* 2020	3050	10,0			36,0	09-64	05-67	1	2	270	CYPRESS (B)			
MARTINSVILLE, CLARK														
* 214	530	25,0	24,0	43	32,0	01-58	03-75	50	42	240	LAKE (F)		*NO DATA 1959-69	
* 218	1346	40,0	16,0	11	30,0	10-52	12-53	2	6	40	SM SU (F)			
* 219	1334	27,0				01-51	02-55	4	1	13	SM GRAV (F)		*INCL PRIM PRDU 1-51 TO 2-55	
* 220	464	25,0				08-50	12-54	8	3	23	SM GRAV, (F)			
MASON N, EFFINGHAM														
1104	2280	11,0	16,0	24	38,0	10-58		2	3	100	TAR SPR, PRDU (B)		*ESTIMATEU SINCE 1969	
	2344	17,0				08-65		1	1	30				
MATTSON, COLES														
* 515	1722	10,0			38,4	12-63	02-67	2	5	80	PURCHASEU (A)			
	1920	10,0						2	5	80				
500	1750	13,0	16,0	84		05-52		20	25	850	PRDU, SEWAGE EFF (M)		*ESTIMATEU	
	1950	12,0						20	28	900				
507	1980	19,0			35,0	04-66		2	2	50	PRODUCED (A)		*ESTIMATEU	
512	1800	14,6	20,0	54	39,0	03-62		13	18	300	GRAVEL BED (F)		*ESTIMATEU SINCE 1972	
	1910	10,0						6	4	100				
	1980	11,0	12,6	97				17	19	400				
520	1960	10,0	12,0			04-66		3	6	80	SM SU (F)		*ESTIMATEU SINCE 1973	
* 504	1770	9,0				04-59	12-66	4	7	100	PURCH, PKOU (B)			
* 506	1970	10,0			37,0	04-59	12-66	4	7	100	PURCH, PKOU (M)			
* 516	1975	12,0			36,0	05-64	01-72	1	2	35	PURCHASEU (B)			
523	1785	8,0				04-61		1	2	30	PRODUCED (B)		*ESTIMATEU *ADJUSTED	
	2000	6,0						1	2	30				
503	1770	10,0				06-59		1	1	20	PRODUCED (B)		*ESTIMATEU	
	1970	9,0						2	2	40				
511	1800	20,0				08-62		5	9	160	GRAVEL BED (F)		*ESTIMATEU SINCE 1973	
	1920	12,0				09-68		1	3	40				
	1970	12,0				08-62		8	8	160				
514	1930	8,0				02-63		4	4	180	SM SU, PKOU (M)		*ESTIMATEU SINCE 1973	
521	1920	11,0				04-66		3	2	50	GRAV, PRON (M)		*ESTIMATEU SINCE 1973	
* 525	1920	12,0				12-56	12-66	1	4	50	PURCHASEU (F)		*EST., NO UATA INCL PRIM 56-66	
* 524	1830	15,0				6-54	12-60	4	4	80	SEWAGE EFFLUENT		*EST., NO UATA RECEIVED	
* 501	1950	10,0	15,0	990	37,0	11-50	12-54	2	5	70	PRODUCED (B)			
* 509	1800	10,0	18,0	40	39,0	02-61	01-72	8	15	360	PENN SD (B)		*INCL PRIM PRDU SINCE 2-61	
* 519	1920	8,0			38,0	03-69	12-75	3	11	150	PENN SD (B)			
517	1920	10,0			37,0	11-64		1	3	40	PURCHASEU (F)		*ESTIMATEU	
	1970	15,0						1	1	40				
MATTSON N, COLES														
518	1900	6,0	14,7	167	38,9	03-64		5	8	160	SM SU, PKOU (M)		*ESTIMATEU SINCE 1970	
MAUNIE N C, WHITE														
* 4453	2350	9,0				6-52	12-60	1	4	50	PRODUCED (B)		*EST., NO UATA RECEIVED INCL PRIM	
	3000	6,0						1	3	40				
* 4307	2955	14,0			35,8	04-67	1-77	2	2	40	HIVER GR (F)		*ESTIMATEU SINCE 1973	
4328	2440	20,0			36,0	06-67		2	3	50	GRAY, PRDU (M)			
	3035	4,0				06-61		1	2	40				
4408	2830	11,0				6-61		+	2	20	PRODUCED (A)		*EST., ADJ. TO 4384	
	2950	17,0						+	2	20				
	3030	6,0						+	2	20				
4384	1350	10,0			34,0	08-64		1	4	40	HIVER GRAVEL (F)		*EST SINCE 721 + 78 UATA N/A	
	2800	15,0						13	16	320				
	2950	15,0						5	8	140				
	3020	4,0						2	5	50				
4452	2825	7,0				8-64		+	2	20	PROD. & PUR.		*EST., ADJ. TO PROJ 4384	
	2945	10,0						+	2	20				
* 4282	2305	6,0	18,4	204	36,0	05-59	06-66	5	6	120	GRAY, PRON (M)			
	2345	10,0						3	2	50				
4356	2440	15,0			30	04-67		4	4	80	PRODUCED (B)		*INCL RUTH PAYS +EST	
	3050	8,0			37,0			3	3	60				
* 4220	2900	12,0				10-57	05-64	9	8	170	HIVER GRAVEL (F)		*ESTIMATEU	

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY PROJECT NO., OPERATOR * * ABO * * P.M. # * ABO & P.M.		PROJECT U = UNIT	PAY NAME	LOCATION S = 7 = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
					TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
MAUNIE N C, WHITE CONTINUED										
*4272 G. SCHOONMAKER *4405 WALKER OIL CO,		MAUNIE W UNIT GRAY	AUX VASES BE7HEL AUX VASES	35-53-10E, 2-63-10E 25-53-10E		2720* 69		184* 1		1737* 7
MAUNIE S C, WHITE										
4213 ARSHER OIL CO		PALESTINE UNIT	BHIOGEPORT PALESTINE TAP SPRINGS AUX VASES	13,24-6S-10E	500** 13535	3420** 13535	32,6** 1721	262** 1721	500** 12150	2345* 12150
4230 MOBIL OIL CORP.		TAK SPRINGS U	TAR SPRINGS AUX VASES	19-63-11E 24,25-63-10E		4748		792		2049
4239 MOBIL OIL COMP.		MAUNIE COOP	TAR SPRINGS	24-63-10E		180		11		102
*4268 MOBIL OIL CORP.		TAK SPRINGS U &	TAR SPRINGS	24-63-10E, 19-63-11E		634		60		209
4273 BERNARD PODOLSKY		ARNOLO UNIT	CYPRESS	7,18-63-11E		846*	2.1	262	2	137
*4265 WEBSTOCK OIL CO.		SOUTH CLEAN POND	PALESTINE TAR SPRINGS	12-63-10E		2097		141		428
MELROSE, CLARK										
* 227 SHAKESPEARE OIL		MELROSE U	ISAHEL	13,24-9N-13W		192		4		2
MILLTOS, MARIUN										
2632 FEAR AND DUNCAN		JONES #1	BENOIS7	16-4N-4E		29*	29*	1.5*	17*	25*
MILL SHOALS, HAMILTON, WAYNE, WHITE										
4410 COY OIL CO		BROWN ET AL	AUX VASES	24,31,32-33-8E	50*	1117*	1.7*	130*	50*	1011*
4059 CULLUM OIL CO.		FELIX	AUX VASES	12-33-7E17-33-8E	60*	560*	5.1*	46*	60*	560*
1571 PAUL GHAEMLING		FYIE	AUX VASES	25-33-7E				37		
*1505 BARRUN KIDD		GAKONEK	AUX VASES	24-33-7E				28		
4352 POOL OIL CO.		MCINTOSH U	AUX VASES	31-33-8E, 6-43-8E	65*	5940*	2.4*	463*	65*	3909*
4364 POOL OIL CO.		MILL SHOALS U	AUX VASES	19,20-33-8E		3811*		257*		3016*
4133 SHULMAN BROTHERS		POURMAN=FOX	AUX VASES	13-33-7E11,18,19-33-8E	50*	1447*	4.2*	120*	50*	873*
1569 TAMAKACK PET.		GAUBY=NEWBY SW	AUX VASES	36-33-7E	180	1919	5.0	194	168	1512
4279 TAMAKACK PET.		GAUBY=NEWBY NE U	AUX VASES	30,31-33-8E	67	3817	2.0	204	116	2024
*4411 TAMAKACK PET.		E. MILL SHOALS	AUX VASES	20,29-33-8E		1319		74		513
4163 TEXACO, INC.		A.J. POURMAN "A" NCT-2	AUX VASES	19-33-8E	47	3189	7.0	165	47	941
4337 TEXACO, INC.		A.J. POURMAN "A" NCT 1	AUX VASES	31,32-33-8E	91	2830	2.4	208	91	1334
1506 SAM TIPPS		B.R. GRAY, THUS7EE	AUX VASES	1-43-7E		3211		349		1444*
4442 SAM TIPPS		MCINTOSH	AUX VASES	30-33-8E				70		350*
*4363 M. WEINERT EST.		MILLSHOALS UNIT	AUX VASES	30-33-8E		6705		326		3084
*4397 M. WEINERT EST.		WEST MILL SHOALS UNIT	AUX VASES	20,29,30-33-8E		3230		189		
MODE, SHELBY										
3802 CROSSROADS OIL		MODE FIELD	BENOTST	15,16,21,22-10N-4E	10*	521*	0.5*	336**	10*	531*
MONTROSE N, CUMBERLAND										
708 EGO OIL CO		MONTROSE WF	MCCLOSKEY	34-9N-7E		103*		11*		9*
MT CARMEL, WABASH										
3855 T. M. BANE EST7AE		MARRIS	BIEHL CYPRESS	17-13-12W			11.4*	139*		
3864 FRANKS PETH COUP		SHAW	CYPRESS	7-13-12W	35	747	0.9	109	5	231
*3918 FRANKS PETH COUP		WABASH UNIT	MCCLOSKEY	5-13-12W		423		89		165
*3941 FIRST NATL PET		SHAW=COUKTER	CYPRESS	7-13-12W		259		78		9
*3946 FIRST NATL PET		SHAW=COUKTER	BIEHL	7-13-12W		364		69		148
*3919 T. W. GEORGE EST.		NORTH MT CARMEL	CYPRESS	4,5-13-12W		350		29		
3958 T. W. GEORGE EST.		DUNKEL=JOHNSON	CYPRESS	32-1N-12W		400		22		
3884 M AND H OIL CO.		C F CHAPMAN	TAR SPRINGS	7,18-13-12W		169		10		83
3854 HAYES-WOLFE DROS		COTNER	CYPRESS	21-13-12W			0.2*	81*		
3872 GILBERT A. HIGGINS		CROW=MILLEN	CYPRESS	8-13-12W			0.4*	99*	5*	139*
3963 GILBERT A. HIGGINS		MT CARMEL N U	BIEHL CYPRESS	4,9-13-12W	6*	4260*	0.3*	369*	6*	1421*
3849 ILL. MID-COUNT.		ZIMMERMAN UNIT	CYPRESS	10-13-12W	100*	640*	4.7*	33*	100*	640*
3887 JUNIPER PETROLEUM C		CLAY MUELLER	CYPRESS	5-13-12W		256		16		191
3890 JUNIPER PETROLEUM C		PALYRA U	BIEHL TAR SPRINGS CYPRESS	5-13-12W	130	3449	6.1	215	73	1462
3977 JUNIPER PETROLEUM C		W. MT CARMEL	CYPRESS	18,19-13-12W	100	2159	3.4	166	62	923
3923 LOEB & MITCHELL		CHAPMAN=LOURTEN U	CYPRESS	7,18-13-12W	80*	2109*	4.1*	33*	80*	1508*
3882 M AND H OIL CO.		CAMPBELL HEINS	CYPRESS	7-13-12W	51*	841*	1.3*	43*	51*	477*
*3921 ELMER M NOVAK		MT CARMEL U	CYPRESS	17-13-12W		1763		124		
3882 WILLIAM PFEFFER		BAIRO=SCMULEK	BIEHL	20-13-12W		160		12*		142*
3922 SMELL OIL CO.		MT CARMEL U	BIEHL CYPRESS	17,18-13-12W	113	14251	13.5	1816	176	11497
*3924 SKILES OIL CORP.		W MT CARMEL	TAR SPRINGS	18,19-13-12W		895		138		313
3863 WAYNE SMITH, OP.		MT CARMEL UNIT	BIEHL CYPRESS	21-13-12W	204	4142	9.1	304	97	2689
3869 SO. TRIANGLE CO.		NORTHEAST MT CARMEL U	BIEHL CYPRESS	16,21-13-12W	400*	4663*	19.2*	372*	400*	2795*
3975 SO. TRIANGLE CO.		BAUMGART=HARE	BIEHL	1-13-13W16-13-12W	85*	702*	4.9*	100*	85*	582*
3897 SUPERIOR OIL CO.		R.V.Z. UNIT	BIEHL INGS TAR SPRINGS CYPRESS	8,9-13-12W	20	43	0.5*	370*	39*	627*
3917 TAMARACK PET.		G DUNKEL	BIEHL	5-13-12W		252		28		82*
3873 TEXACO, INC.		KUMN UNIT	BHIOGEPORT CYPRESS	16-13-12W		301		50		292*
3875 TEXACO, INC.		STEIN UNIT	TAR SPRINGS	5-13-12W		411		44		178*
3876 TEXACO, INC.		GEIGER=STECKLEN U	CYPRESS BIEHL TAR SPRINGS CYPRESS	8,9,16-13-12W	310	3849	21.9	464	310	2295
*3879 TEXACO, INC.		COUCH=NOLLER	BIEHL	16-13-12W		279		*		*
3880 TEXACO, INC.		COUCH=NOLLER	CYPRESS	16-13-12W		227		16		79*
*3425 TEXACO, INC.		STEIN LEASE	TAR SPRINGS CYPRESS	8-13-12W		327		100		138
						263				

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78						INJECTION WATER			
FIELD, COUNTY					NO. OF WELLS						SOURCE TYPE			REMARKS
PROD. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	OIL PERM (MD)	DATE FIRST INJ.	DATE ADD.	INJ.	PPRO.	ACRES UNDER INJ.	SH SAND	SH GRAVEL	FRESH		
				(API)						PRODUCE	BLN	(B)		
MAUNIE N.C., WHITE														
CONTINUED														
*4272	2990	13.0	15.4	37	38.0	10-58	10-66	12	12	710	GRAVEL BLN (F)		*ESTIMATED 1965-66	
*4405	2830	10.0				06-65	01-67	1	2	30	PENN SU (R)			
	2940	10.0						1	2	30				
MAUNIE S.C., WHITE														
4213	1390	7.0				12-70		1	1	20	PRODUCED (R)		*ESTIMATED	
	2010	13.5				02-57	12-70	59	23	430			*INCL B'POINT, TAP SPP, AUX VASES	
	2240	4.0				04-71		1	1	20				
	2650	9.0				09-71		1	1	20				
*4230	2270	14.0	19.0	612	37.5	06-47	12-57	12	13	230	GRAV, PPUO (M)		*INCL PRIM PROD, 8-47 TO 12-57	
*4239	2275	14.0			38.0	11-55	01-58	2	5	70	GRAV, PROD (M)		*INCL PRIM PROD	
*4268	2275	14.0	17.0	550	37.0	11-49	12-54	3	2	50	SH GRAVEL (F)			
4273	2590	4.7	15.5	44	36.2	02-64		2	6	194	PENN SU, PROD (R)		*INJECTION CONTAINED 1973	
*4265	2000	6.0			35.0	06-57	12-67	2	4	60	PENN SU, PROD (R)			
	2200	10.0						6	8	150				
MELROSE, CLARK														
*227	645	9.0	17.0	20	34.8	12-60	04-62	5	6	105	SH SAND (F)			
MILLTUS, MAHON														
2432	2150	8.0				10-66		1	1	20	PRODUCED (B)		*ESTIMATED	
MILL SUALS, HAMILTON, WAYNE, WHITE														
4410	3225	12.0	18.0	125	37.0	11-65		3	4	70	GRAVEL (F)		*ESTIMATED SINCE 1973	
4059	3250	16.0				6-70		1	3	40	PRODUCED (B)		*EST. *INCL. PRIM, SINCE 70	
*1571	3220	15.0				01-71	09-76		1	40			*ADJACENT TO ACTIVE WF +FST	
*1505	3245	11.0				04-56	12-62	1	2	30	HAKONSBURG (R)		*DUMP FLOOD	
4352	3220	21.0	20.0	195	39.0	06-62		10	13	173	GRAV, PROD (M)		*ESTIMATED SINCE 1976	
4386	3220	18.5	18.5	75	39.0	06-64		3	6	188	CREEK, PROD (M)		*ESTIMATED SINCE 1976 *TEMP DISC	
4133	3235	25.0			37.0	07-67		3	5	140	SH SU, PROD (M)		*ESTIMATED SINCE 1975	
1509	3200	19.0				04-71		2	6	80	SH GRAVEL (F)			
4279	3200	15.0			38.0	10-69		3	7	130	SHALLOW SD (F)			
*4411	3250	12.5	19.6	125	38.3	03-65	07-69	5	8	225	CREEK, PROD (M)			
4103	3212	16.0	22.0	130	37.0	08-64		2	3	60	GRAV, PROD (M)			
4337	3200	19.0	15.8	58	36.0	05-61		2	2	200	GRAV, PROD (M)			
*1506	3245	11.0	21.0		37.0	05-52	12-65	10	4	170	GRAVEL BLN (F)		*ESTIMATED 1961-65	
*4442	3210	18.0				6-58	12-77		5	60			*ESTIMATED *ADJ. TO ACTIVE WF	
*4363	3200	22.0	21.0		35.8	08-62	05-69	13	8	220	GRAVEL BLN (F)			
*4397	3240	19.0				09-65	1-77	7	8	376	SH SU (F)			
MUDE, SHELBY														
3802	1770	10.0	15.0		34.0	12-61		3	5	730	PRODUCED (B)		*INCL PRIM PPUO *EST	
MONTROUSE N., CUMBERLAND														
704	2480	10.0			36.0	02-71		1	1	40	LVP SAND (B)		*INJ. SUSPENDED 1-75	
MT CARMEL, WABASH														
3455	1480	9.0				07-70			2	30			*ADJACENT TO ACTIVE WF *EST	
	1980	6.0							1	30				
3864	2070	7.0				05-67		1	5	80	PENN SU (R)			
*3914	2307	8.0				10-57	12-74	3	6	75	PRODUCED (B)			
*3941	2050	12.0				04-53	12-57	1	4	50	SH SU (F)			
*3946	1375	16.0			40.2	02-50	12-59	1	2	30	PPRO, FRESH (M)			
*3919	2000	14.0			35.4	06-55	12-61	3	4	70	PENN SU (R)			
*3958	2000	12.0				10-57	02-62	4	5	100	SH SU (F)		*ESTIMATED	
*3884	1780	10.0			33.0	05-64	04-67	1	1	10	PRODUCED (B)			
3854	1480	7.0				07-70			2	30			*ADJ TO ACTIVE WF *EST	
3472	2010	11.0				01-64			2	20			*ADJ. TO ACTIVE WF *EST	
3963	1450	13.0	18.0	200	35.7	09-61		4	7	120	RIVER, PROD (M)		*ESTIMATED	
	1950	7.2	16.0	34	37.4			7	7	243				
3849	1890	12.0				09-73		1	5	70	PRODUCED (R)		*ESTIMATED	
*3867	1995	15.0			35.0	11-63	01-74	1	1	20	SH SU, PROD (M)		*INJ SHUT DOWN 7-71	
3890	1510	8.0			34.0	11-63		1	7	40	SH SU, PROD (M)			
	1670	10.0			37.4			1	4	50				
	2020	24.0			37.4			4	9	135				
3977	2046	10.0	17.0	83	35.0	04-61		3	4	80	SH SU (F)			
3923	2050	19.0	16.5	154	37.0	01-55		3	3	75	PRODUCED (B)		*ESTIMATED	
3882	2030	11.5	17.2	32	36.0	07-64		2	3	60	SH SU, PROD (M)		*ESTIMATED	
*3921	2140	13.0				07-54	12-61	6	15	234	SH SU, GRAV (F)			
*3862	1475	10.0				07-67	01-74	2	3	60	PRODUCED (B)		*ESTIMATED	
3922	1500	16.0	19.0	182	39.2	07-54		2	8	140	WABASH RIVER (F)			
	2075	12.5						13	22	570				
*3924	1730	6.0				10-55	07-63	3	3	70	PRODUCED (B)			
3863	1450	16.0	17.0	100	39.0	12-67		10	10	200	GRAVEL BLN (F)			
	2000	10.0	18.0	150				12	12	210				
3869	1475	7.0	18.0	165	32.4	07-70		9	12	220	RIVER GRAVEL (F)		*ESTIMATED	
	1980	9.0	19.0	250	36.3			4	5	230				
3975	1680	14.0				11-69		1	4	50	PRODUCED (B)		*ESTIMATED SINCE 1973	
3897	1546	8.0	18.8	336	36.0	07-77		1	1	20	RIVER GRAV (F)		*INCL ALL PAYS	
	1704	11.6	18.9	221	34.8	06-71		1	1	20				
	2010	11.0			37.0	06-63		1	2	60				
*3917	1500	6.7	15.3	310	34.6	06-52	01-56	2	3	70	SH SU, GRAV (F)		*DATA FOR 1954 EST	
*3873	1350	10.0			35.0	07-64	10-66	2	1	30	GRAV, PROD (M)		*INCL BOTH PAYS	
	1400	12.0						4	5	111				
*3875	1710	12.0			32.4	04-64	05-69	1	2	40	SH SU, PROD (M)		*INCL BOTH PAYS	
	2010	11.0	17.0	29		04-64		2	1	73				
3876	1490	14.0			35.0	05-64		1	4	110	SH SU, PROD (M)			
	1694	8.5	18.9	79				1	1	30				
	2000	7.8	17.0	42				1	4	166				
*3879	1490	14.0			35.0	03-64	04-66	1	1	50	SH SU, PROD (M)		*INCL WITH 3880	
*3880	1990	12.0			35.0	03-64	04-68	1	1	50	SH SU, PROD (M)		*INCL 3879	
*3925	1710	12.0	18.9	221	32.4	03-64	04-67	3	1	116	SH SU, PROD (M)			
	2010	11.0	17.0	29	32.4			3	1	73				

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * = A&O + = P, M, # = A&O & P, M,	PROJECT U = UNIT	WELL NAME	LOCATION S = 7 * P	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION		
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	
NEK HARMONY C, EDWARDS, WABASH, WHITE										
4283 ABSMER OIL CO	CALVIN-KUN UNIT	TAR SPRINGS	9-4S-14K	10*	421*	0.6*	440*	10*	3095*	
		CYPRESS								
		BETHEL								
4313 ABSMER OIL CO	C. MUGGES	AUX VASES								
		CYPRESS	17-4S-14W	160*	6926*	8.0*	529*	160*	4364*	
		BETHEL								
		AUX VASES								
4335 ABSMER OIL CO	BRAMLETT	BETHEL	17-4S-14W	150*	1149*	8.3*	123**	150*	1261**	
4398 ABSMER OIL CO	BRAMLETT	CYPRESS	17-4S-14K	45*	2262*	1.4*	330*	45*	1336*	
		BETHEL								
*3926 ASHLAND U AND R	N MAUD (WALLACE A, B)	BETHEL	5, 6, 7, 8-2S-13W		715		165		156	
*3927 ASHLAND U AND R	HAVENSTEIN	BETHEL	32-1S-13K		99		59		8	
3657 JOHN L. AULVIN	SEILER	WALTENSBUHG	26, 27-1S-13W	90*	990*	4.6*	65*	90*	97*	
		MARINSBURG								
		BETHEL								
3888 N. A. BALDWIN	STERL U	BETHEL	16, 17-1S-13K	25*	641*	0.8*	47*	25*	452*	
4293 BARGER ENG	FOND *B*	CYPRESS	21-4S-14W	36	2360	7.6	306	36	1690	
		BETHEL								
		AUX VASES								
3851 FRANCIS BEARD	SMITH, SLS, SMEAKER, MAH	TAR SPRINGS	32, 33-1N-13W	450*	4810*	24.0*	374**	450*	4810*	
4274 FRANCIS BEARD	J. J. BUND	CYPRESS	8-4S-14K	90*	5581*	2.9*	516*	50*	2778*	
		BETHEL								
		AUX VASES								
4316 BELL BROTHERS	SKILES	CYPRESS	16-4S-14K	64	2225	3.4	275	26	972	
		BETHEL								
		AUX VASES								
3645 ALENE BLADES	W. KADEK	BETHEL	16-2S-13K	30*	130*	5.0*	22*	30*	130*	
4426 C. E. BRECK	JOHNSON-STALLINGS-FURU	CYPRESS	5-5S-14W	43	393	4.5	121	43*	393*	
3967 W. E. BRUHEK	EPLER	CYPRESS	5, 6-3S-13K	16	516*	9.3	64*		258*	
		BETHEL								
		AUX VASES								
*4219 CALSTAN PET.	FOND *B*	SPAK MTN								
3891 R. G. CANTHELL	SCHRODT STATION 3 U	BETHEL	21-4S-14W		1113		104			
*3980 UELL CARNOLL	FRIENDSVILLE 3 U	CYPRESS	3-2S-13W	5**	1086*	0.5*	73*	5*	290*	
		CYPRESS	11-1S-13W		345		80		134	
3982 CENTRAL EXPLR CO	FRIENDSVILLE U	CYPRESS	2, 11-1S-15W		2158		326*		783*	
4303 LONERS OIL WELL	ALLEN GRAY *M* C	AUX VASES	20-4S-14W	30**	254**	2.1*	94*			
4312 LONERS OIL WELL	FITTON *A* UNIT	AUX VASES	20-4S-14W	45*	1172*	2.1*	136*	45*	620*	
3963 COY OIL CO	KERWIN U	BIEHL	14, 15, 22-3S-14W	60**	8298**	3.1*	1302**	60*	2407**	
		BETHEL								
		AUX VASES								
4338 COY OIL CO	GRAY	AUX VASES	20-4S-14K		814		105		454*	
*4339 COY OIL CO	GRAY	BETHEL	20-4S-14W		150		*			
*4368 COY OIL CO	B. R. GRAY	CYPRESS	17-4S-14W		1958		288		898	
		BETHEL								
		AUX VASES								
*4286 ALVA C. DAVIS	CALVIN GRIFFITH C	BETHEL	8-4S-14K		285		31		216	
		AUX VASES			452		106		476	
3949 J. D. DEPUTY	KADEK U	BIEHL	19-2S-13K/ 24-2S-14W	*	1300**	0.8*	87*	*	900**	
*3994 B. R. DUNCAN	DUNKEL	CYPRESS	11-1S-13K		115		12		36	
4227 FARRAR OIL CO.	BOWMAN'S BEND UNIT	TAR SPRINGS	16, 21-5S-14W	3*	10295**	0.1*	2476**	3*	5691**	
4280 FEAR AND DUNCAN	FOND UNIT	DEGONIA	7, 8-5S-14K	120*	2103*	10.1**	871**	140**	2148**	
		WALTENSBUHG	8-5S-14K	20*	436*		27			
		BETHEL	7, 8-5S-14W		2619					
3935 FISK & FISK	U G UPUERAFF *A*	CYPRESS	14-3S-14W	292*	9730*	5.0*	1750*	291*	15774*	
		BETHEL								
		MCCLOSKEY								
3929 U K COMPANY	SMULTZ	CYPRESS	7-3S-13W		2693		175**		1982**	
3930 U K COMPANY	SMULTZ	CYPRESS	7-3S-13K		816		+		+	
3878 V. R. GALLAGHER	QUINN	CYPRESS	11-3S-14K	40*	173*	5.9*	30*	60*	143*	
4330 V. R. GALLAGHER	GREATMOUSE-KALT. UNIT	WALTENSBUHG	32-4S-14W		102		122		40	
3907 T. W. GEORGE EST.	EAST MAUD	BETHEL	32, 33-1S-13W		98		55			
*3947 T. W. GEORGE EST.	EAST MAUD	CYPRESS	32, 33-1S-13W		31		55			
3976 T. W. GEORGE EST.	E MAUD	WALTENSBUHG	22, 27-1S-13K	9	698	0.6	185	5	199	
		BETHEL			352		16		32	
3874 BETTY OIL CO	KEENSBURG U	BIEHL	16, 17, 20-2S-13W	1728	23357	40.0	1703	914	11193	
		CLOKE								
		CYPRESS								
		BETHEL								
4433 BETTY OIL CO	E. S. OENNIS *A*	MCCLOSKEY	33-4S-14K	358	2148	6.8	61	115	480	
4290 LYLE GILLIATT	M E GLAZE COOP	ST LOUIS								
		TAR SPRINGS	8, 17-4S-14W	*	443*	2.6**	640**	45**	2816**	
		CYPRESS		*	366*					
		BETHEL		*	2352*					
		AUX VASES		*	1207*					
3844 M AND H OIL CO	GRAY-SCHRODT	BIEHL	20, 29-2S-13W	25*	325*	4.7*	39*	25*	325*	
4242 M AND H OIL CO	U. R. EVANS	BIEHL	4, 5-4S-14W	85*	9534*	4.9*	764*	85*	501*	
		CYPRESS								
		BETHEL								
		AUX VASES								
4354 M AND H OIL CO	WABASH RIVERBEU U	MCCLOSKEY								
		BIEHL	33-3S-14K	85**	3128**	4.5**	225**	85**	2066**	
		CYPRESS								
		AUX VASES								
1022 HUMPHRIS OIL CO.	BRUSTEN	BETHEL	34-2S-14W	50*	1850**	3.4*	253**	50*	1850**	
*3955 INC. FARM BUK.	LANOIS-GOINS	CYPRESS	3-2S-13W		62		11		108	
3856 J&M OIL CO	SCHAUF	CYPRESS	30-2S-13K	*	*	10.9*	113*	70*	670*	
*3842 F. JAMES	WADOLE	CYPRESS	32-1S-13W		+		19**		+	
		BETHEL								
3933 JUNIPER PETROLEUM C & MAUD		CYPRESS	32, 33-1S-13W	190	7831	9.0	800	84	3930	
		BETHEL	4, 5-2S-13W							
3934 JUNIPER PETROLEUM C	W MAUD	BETHEL	32-18-13W/ 5, 7-2S-13W		2240		497		593	
*3956 JUNIPER PETROLEUM C	CDWALING-KADEK	BETHEL	17-2S-13W		109		26			
*3841 DAVIS LAMBERT	CLELLA EWALO	BETHEL	32-1S-13W		+		34**		+	
3886 HERMAN LOEB	N MAUD U	CYPRESS	13, 24-1S-14W	125*	2526*	6.1*	305*	125*	2309*	

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78				INJECTION WATER						
FIELD, COUNTY					NO. OF WELLS				SOURCE TYPE						
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	PUR (%)	PERM (MO)	OIL GRAV (API)	DATE FIRST INJ.	DATE ADJ.	INJ.	PROD.	ACRES UNDER INJ.	SU SAND GR PRODUCE	SH SHALLOW (M)	GR GRAVEL (P)	PHEBM (B) (M)	REMARKS
NEW HARMONY C, EDWARDS, WABASH, WHITE															
4283	2350	9.0				01-59		1	2	30			GRAVEL BLE (F)		*ESTIMATEU
	2550	6.0						5	4	100					
	2600	6.0						3	5	80					
	2900	14.0						6	6	120					
4313	2560	17.0			37.0	11-60		4	2	80			GRAV, PROD (M)		*ESTIMATEU
	2700	20.0						4	2	80					
	2620	18.0						4	3	80					
4335	2670	25.0			38.3	11-61		1	2	80			SH SU, PROD (M)		*INCL 4333, 4334 +EST
4398	2552	20.0			37.0	12-63		2	2	40			SH SU, PROD (M)		*ESTIMATEU
	2662	20.0						2	2	40					
*3926	2650	6.5	16.0	60	37.5	04-56	11-71	4	4	130			GRAV, PROD (M)		
*3927	2650	7.0	7.0	16	38.4	05-57	12-66	1	2	20			GRAV, PROD (M)		
3857	1900	10.0				06-66		1	2	40			PRODUCED (B)		*ESTIMATEU
	2100	22.0						2	2	40					
	2400	16.0						1	1	20					
3888	2570	12.0	18.9	87	39.0	12-69		3	7	100			WATER WELL (F)		*ESTIMATEU
4293	2600	9.0			36.0	03-53		1	4	50			PRODUCED (B)		
	2700	9.0	13.0			03-53		1	2	20					
	2885	10.0	13.0	30		03-53		1	1	30					
3851	2000	20.0				12-60		3	13	130			PRODUCED (B)		*EST. +INCL PRIM PROD SINCE 1960
4274	2585	13.0	18.2	46	34.3	08-58		4	4	80			SH SU, PROD (B)		*ESTIMATEU
	2705	17.0	18.0	20	36.1			5	6	110					
	2620	15.0	17.0	31	36.2			6	6	110					
4316	2550	15.0	17.5		38.9	08-61		2	2	40			SH SU (F)		
	2700	12.0	16.8					1	2	30					
	2650	18.0	19.0					4	4	80					
3845	2570	10.0				6-72		1	2	30			PRODUCED (B)		*ESTIMATEU
4426	2608	22.0			36.0	03-66		1	7	80			PRODUCED WATER (B)		*ESTIMATEU
3987	2470	10.0				09-70		1	2	40			SH, SAND (F)		*ESTIMATEU
	2635	11.0						1	2	40					
	2742	9.0						1	3	50					
	2858	4.0						1	2	40					
*4219	2695	12.0			37.5	03-53	04-60	1	3	40			GRAVEL BLE (F)		
3891	2320	12.0			34.4	10-63		1	4	160			SH SU, PROD (M)		*ESTIMATEU +SNO UNLV
*3980	2290	10.0			36.0	02-61	10-66	6	6	120			RIVER GRAV, PROD (M)		
*3982	2300	13.0	16.1	90	36.8	02-61	01-72	9	8	170			SH SU (F)		*NO INJ 12/67-6/697 1971 NO DATA
4303	2844	7.0				04-60		1	1	30			GRAVEL BLE (F)		*ESTIMATEU SINCE 1968 +SNO ONLY
4312	2888	4.0	16.2	25	36.4	03-60		1	1	140			GRAVEL BLE (F)		*ESTIMATEU SINCE 1965
3963	1800	12.0	21.0	200	33.0	10-59		6	4	130			GRAV, PROD (M)		*ESTIMATEU +INCL ALL PAYS
	2700	13.0	16.2	40				12	12	310					*INCL HELMEL
	2800	8.0				10-59	12-64								
*4338	2850	20.0	17.0	50		03-60	12-63	6	5	120			SH SU, GRAV (F)		*INCL 4339
*4339	2720	5.0	15.0			03-60	12-63	2	2	50			SH SU, GRAV (F)		*INCL WITH 4338
*4368	2575	10.0	16.2	118	39.0	01-63	08-68	4	4	80			GRAV, PROD (M)		
	2790	9.0	14.3	50				2	2	40					
	2900	16.0	18.0	125				4	4	80					
*4286	2680	10.0			33.0	09-59	09-70	2	1	40			GRAV, PROD (M)		*INJ TEMP DISC 12-64
	2855	20.0			36.0	06-60	08-70	1	1	35					
3949	1740	15.0	20.6	39	37.0	10-56		1	4	50			SH SU (F)		*NO DATA SINCE 1958 +EST
*3994	2100	15.0			36.4	11-62	12-65	1	1	20			SH SU, PROD (M)		
4227	2260	19.5	17.9	120	37.5	12-53		4	6	200			GRAV, PROD (M)		*ESTIMATEU SINCE 1970 +ADJUSTED
4280	1930	6.0	16.0	50	36.0	11-65		5	9	100			GRAV, PROD (M)		*INCL ALL PAYS +EST
	2244	8.0	18.0	47	36.0	08-66		2	3	40					
	2746	5.0	15.0	32	36.0	11-65		1	1	20					
	2672	12.7	18.1	43	37.8	02-59		4	6	200					
3935	2500	25.0	21.0	200	39.0	10-55		2	4	120			PRODUCED (B)		*ESTIMATEU 1978 DATA
	2640	7.0	17.7			06-66		2	2	60					
	2860	4.0				06-66		1	2	60					
*3929	2600	20.0	18.0	50	38.0	07-51	12-62	2	5	70			GRAV, PROD (M)		*NO DATA AFTER 1959 +INCL 3930
*3930	2500	10.0	17.0	100	38.0	05-52	12-62	1	2	30			SH SU, PROD (M)		*NO DATA AFTER 1959 +INCL 3929
3878	2490	25.0				02-75		1	6	70			RIVER GRAV (F)		*ESTIMATEU
*4330	2215	12.0	19.0	140		01-55	09-63	1	1	50			SH SU, PROD (M)		*INCL PRIM PROD 1-55 TO 9-63
*3907	2500	15.0	17.0	57	36.1	07-52	12-56	2	7	90			SURFACE (F)		*INCL PRIM PROD 7-52 TO 12-56
*3947	2400	12.0				01-55	12-57	1	3	40			SURFACE (F)		
3976	1950	5.0	17.8		37.0	12-64	00-00	1	6	90			RIVER GRAV, PROD (M)		
	2410	10.0	17.0		39.0		08-68	3	7	120					
3874	1700	11.0	12.0	82	35.0	01-68		8	12	210			SH GRAV, PROD (M)		
	1775	8.0	12.0	56				11	11	230					
	2420	26.0	15.0	72				16	38	680					
	2550	10.0	12.0	15				28	20	900					
4433	2910	12.0	12.0			05-74		1	2	80			PENN SU, PROD (B)		
	3080	26.0	18.0					1	2	80					
4290	2215	9.0			36.4	12-59	01-68	3	3	60			SH SU, PROD (M)		*NO INJ SINCE 727 +INCL ALL PAYS
	2570	11.0					01-68	6	6	120					*ESTIMATEU SINCE 1970
	2670	25.0						8	9	170					
	2825	12.0						8	9	170					
3844	1720	7.0				6-75		3	4	60			PRODUCED (B)		*ESTIMATEU
4242	1500	17.7	14.7	26		10-57		10	4	110			GRAV, PROD (M)		*ESTIMATEU SINCE 1976
	1800	21.0				12-61		5	6	120					
	2660	23.0				12-61		6	5	120					
	2300	19.4				10-49		8	5	170					
	2400	21.2				10-49		4	2	120					
4354	1825	28.0	12.5	20		09-60		8	2	47			SH SU, PROD (M)		*ILL VALUES ARE 21 PER CENT OF TOTAL, REMAINDER IN POSEY CO
	2530	35.0	19.0	100				1	2	47					INJANAL+EST SINCE 1976
	2780	29.0	19.2	50				1	2	47					*EST. +INCL PRIM SINCE 1953
1022	2740	12.0				6-64		2	9	110			PRODUCED (B)		*ADJ. TO PROJ. 1016 SINCE 53
*3955	2340	7.0			36.0	03-57	01-60	1	2	20			PRODUCED (B)		*ADJ TO EXISTING WF +EST
3856	2450	20.0				01-70		1	3	30					
*3842	2450	10.0				6-54	12-61	1	2	30					*EST. +ADJ TO 3933 1454-61
	2570	11.0						1	2	30					
3933	2400	8.0	18.5	75	37.0	04-52		3	8	80			GRAV, PROD (M)		
	2520	8.5	17.0	57				5	11	170					
*3934	2620	12.0	17.2	57	36.0	10-50	01-74	20	26	310			GRAV, PROD (M)		
*3956	2549	15.0			37.0	05-57	12-75	1	1	20			GRAV, PROD (M)		
*3841	2373	12.0				6-54	12-60	1	3	30					*EST. +AD

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * ABO ♦ P.M. # ABO & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
NEW HARMONY C, EDWARDS, WABASH, WHITE CONTINUED									
3886	HEKMAN LOEB	FOKO	OHAMA						
4218	HEKMAN LOEB	FOKO	AUX VASES	20,21,22-4S-14W	*	239*	*	465*	
4294	HEKMAN LOEB	GRAY	7AR SPRINGS	17,20,21-4S-14W	5*	6610*	0,1*	879**	5* 4418*
			CYPRESS						
			BETHEL						
			AUX VASES						
4305	HEKMAN LOEB	FOKO	WALTERSBURG	18,21-4S-14W	50*	6011*	2,0*	480*	50* 397*
			TAR SPRINGS						
			CYPRESS						
			BETHEL						
			AUX VASES						
4329	HEKMAN LOEB	M.S. DONALD	BETHEL	21-4S-14W	20*	1227*	1,1*	312*	20* 477*
			AUX VASES						
			TAR SPR						
3968	LOEB & MITCHELL	WALTERS	WALTERSBURG	23-1S-13W	210*	1760*	9,4*	145*	210* 1715*
3965	LUBOIL COMPANY	HELM C	RIEHL	22,24,27-3S-14W		648**	26,0*	4573*	203* 23011*
			WALTERSBURG			2306**			
			7AR SPRINGS			1188**			
			CYPRESS			5138**			
			BETHEL		209*	23017*			
			AUX VASES			7088**			
3839	M AND M OIL CO.	MARK	TAR SPRINGS	33-1N-13W	+	*	0,2*	95*	10* 520*
3886	M AND M OIL CO.	COWLING U	RIEHL	19,20,29,30-2S-15W	7*	17966*	4,9*	2281*	77 10224*
			CYPRESS						
3959	M AND M OIL CO.	KEENSBURG U	CYPRESS	9-2S-13W	197	10448*	4,0*	857*	197 6304*
3961	M AND M OIL CO.	A E SCHULTZ "A"	CYPRESS	8,17-2S-15W	10*	2097*	0,9**	464**	20** 2052**
			BETHEL		10*	2532*			
4416	W. C. MCBRIDE	INDIANA STATE	CYPRESS	4-4S-14W		222*	3,5*	63	11 425*
*3843	E. M. MORRIS EST	CENEY	CYPRESS	32-1S-13W		*		62*	*
			BETHEL						
3838	MURVIN OIL CO.	KUMTZ-JOACHIM	CYPRESS	8,17-2S-13W		800		160**	800*
			BETHEL						
4226	ELMER M NOVAK	CALVIN	CYPRESS	5,8-4S-14W	55*	2854*	7,0**	2450**	135** 5364**
			BETHEL		25*	3037*			
			AUX VASES		55*	11698*			
3861	U M AND F OIL CO	KEENSBURG U	RIEHL	19-2S-13W	75*	715*	4,5*	169**	75* 715*
3837	OLUS OIL & CHEM.	COLLINS UNIT	RIEHL	20-2S-13W	22	79	1,4*	3*	4 28
			CYPRESS						
4276	PAN-ARK	U. SMITH 1,4,11	CYPRESS	4-4S-14W	70*	1282*	3,1*	117*	70* 692*
			BETHEL						
*4275	POOL OIL CO.	CALVIN CUNSLU	AUX VASES						
			TAR SPRINGS	9,16-4S-14W		10798*		1720*	7283*
			CYPRESS						
			BETHEL						
			AUX VASES						
3974	PRUDENTIAL OIL	FRIENDS GROVE U	RIEHL	5-1S-13W, 34-1N-13W	50*	3021*	1,8*	218*	50* 1983*
			JURUAN						
			CYPRESS						
3985	PRUDENTIAL OIL	FOSTLEY UNIT	RIEHL	3-1S-13W	25*	2200*	1,3*	222*	25* 1099*
			CYPRESS			473*		151*	235*
3987	WR PET. COMP.	COWLING U	CYPRESS	23,25,28,35,36-2S-14W		2867		447*	605*
4317	WEBSTOCK OIL CO.	CRUSSVILLE LEASE	CYPRESS	20-4S-14W	20*	2794*	1,2*	59*	20* 1295*
			BETHEL						
			AUX VASES						
4393	WEBSTOCK OIL CO.	UALY "A"	CYPRESS	17-4S-14W	255*	2535*	12,0*	193*	255* 2018*
			BETHEL						
			AUX VASES						
4401	WEBSTOCK OIL CO.	NATIONAL BANK W F U	TAR SPRINGS	20,29-4S-14W	4*	872*	0,2*	180*	4* 305*
4440	WEBSTOCK OIL CO.	LOHAS	WALTERSBURG	14-4S-14W	+	+	11,7*	111*	+ *
			TAR SPRINGS						
4455	WEBSTOCK OIL CO.	UALY B	TAR SPRINGS	20-4S-14W		+	0,2*	58*	+ *
			AUX VASES						
3870	HUBERT ROSE	HAUD NW UNIT	WALTERSBURG	27,34-1S-15W	+	2068*	*	209*	+ 1100*
3893	HUBERT ROSE	HAUD U	WALTERSBURG	34,35-1S-13W	120	1854*	1,7*	384*	120 1210*
			CYPRESS						
3995	HUBERT ROSE	J.W. REISINGER	CYPRESS	4-2S-13W		281		107*	281*
3982	ROSSI OIL CO.	4 W	CYPRESS	26-1S-13W	56	1079*	7,7*	246*	56 1079*
3892	ROYALCU, INC.	SCHRODT STATION MIU U	CYPRESS	54,55-1S-13W		560		123*	214*
4500	ROYALCU, INC.	WELVES UNIT C	CYPRESS	28-3S-14W		285		161*	976*
			AUX VASES						
			MCCLOSKEY						
4392	ROYALCU, INC.	CALVIN WATERFLOOD C	AUX VASES	22-4S-14W	40*	843*	5,8*	192*	40* 166*
3895	J. W. MUOY DRUG	EPLER FLOOD	WALTERSBURG	6-2S-13W		1356		294*	937*
1009	SCHROEDER & SNYDER	J SCHROEDER	BETHEL	22,27-2S-14W	100*	1399*	5,8*	86**	100* 947*
3931	SCHROEDER & SNYDER	SIEGERT BOTTOMS	BETHEL	2,3,10-3S-14W	25*	4892*	1,8**	829**	25* 2167*
			34,35-2S-14W						
3928	SHAKESPEARE OIL	BRINES U	BETHEL	17,20,21,28,29-1S-13W		8754		1457*	5255*
4216	JOE SIMPKINS OIL	HON-BUMP-CHAMFURU	CYPRESS	32,33-3S-14W, 5-4S-14W	38*	3462*	5,2**	779**	96** 5056**
			BETHEL		20*	502*			
			AUX VASES		38*	3456*			
4217	JOE SIMPKINS OIL	ARKOWMC BRINE ETAL	MCCLOSKEY	32,33-3S-14W, 5-4S-14W		762		1*	
4320	JOE SIMPKINS OIL	BOULTINGHOUSE	TAR SPRINGS	9,16,17-4S-14W		12037		772*	9097*
			CYPRESS						
			SAMPLE						
			BETHEL						
			AUX VASES						
*1016	SKILES OIL CORP.	SIEGERT BOTTOMS	CYPRESS	34-2S-14W		62			
*3957	SKILES OIL CORP.	BRUBEN "F"	CYPRESS	35-2S-14W		186		36	42
*4222	SKILES OIL CORP.	SMITH-DAVENPURT	CYPRESS	15-4S-14W		147		4	2
*4287	SKILES OIL CORP.	CALVIN-GHIFFIN	CYPRESS	8-4S-14W		1			27
			BETHEL			109		4	23
			AUX VASES						
3997	SOMIO PETROLEUM	UPDEGRAFF "A"	AUX VASES	14-3S-14W		429		104	187
3840	SO. TRIANGLE CO.	TOWNSEND-WULFE	WALTERSBURG	14-1S-13W	35*	195*	5,1*	33*	35* 195*
3877	SO. TRIANGLE CO.	SOUTH FONDICE U	BETHEL	6,7,8-1S-13W	200*	737*	16,3*	89*	200* 737*
3960	SPARTAN U AND G	BELMONT NORTH UNIT	BALEM	18-1S-13W	40	138	9,0	41	60* 89*
3865	STONE OIL CO	AKIN FLOOD	CYPRESS	7-3S-13W	25	1051*	2,8*	69*	25 428*
			BETHEL						

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER			REMARKS
FIELD, COUNTY					NO. OF WELLS		SOURCE			TYPE			
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	OIL GRAY PERM (MD) (API)	DATE FIRST INJ.	DATE ARO.	INJ.	PROD.	ACRES UNDER INJ.	SU SAND GR PRODUCE	SH BRINE (M) MIXED	FRESH (F) BRINE (M)	
NEW HARMONY C, EDWARDS, WABASH, WHITE													
CONTINUED													
3886	2850	9.0					1	4					
4218	2840	18.3	15.0	20	33.1	01-56	1	2	200	SM SU (F)		*EST; NO DATA SINCE 1968	
4294	2220	10.0				03-60	3	2	50	GRAVEL BED (F)		*ESTIMATE + OPERATOR	
	2580	11.0					7	5	120			REWORKS LITTLE OIL FROM CYPRESS	
	2700	9.0					4	3	70			AND BETHEL	
	2640	16.0					9	9	180				
4305	2140	8.4	19.0		37.5	11-60	2	1	40	GRAVEL BED (F)		*ESTIMATE	
	2200	9.3	15.5				1	2	40				
	2580	13.3	16.0	32			4	2	80				
	2700	14.7	16.0				1	2	30				
	2820	15.5	15.0	20			5	5	100				
4329	2695	9.0	15.0	15	37.0	09-61	2	4	60	GRAV, PROD (M)		*EST; +NO INJ. 1978	
	2830	20.0	14.0	23	37.0		2	3	105				
3968	1945	12.0				08-68	1	5	60	PRODUCED (B)		*ESTIMATE	
3965	1800	15.0				06-59	2	1	40	GRAVEL BED (F)		*EST. 1976 DATA +INCL ALL PAYS	
	2115	25.0	20.1	171		12-50	5	3	80			*CUM. TIME DUGH 1976	
	2150	20.0	17.1	44		04-61	3	2	80				
	2335	9.0				11-52	10	9	240				
	2640	14.0	17.1	44		12-51	17	8	255				
	2640	14.0	17.1	44		12-51	17	9	260				
3859	2020	8.0				7-62		2	40			*EST; +ADJ. TO ACTIVE WF SINCE 1960	
3866	1700	8.7	19.6	126	37.0	01-65	17	31	526	SM SU, PHOU (M)		*ESTIMATE SINCE 1973	
	2460	11.1	19.2	59	37.0		18	31	801				
3959	2420	22.0	20.0	200		11-58	7	5	270	GRAV, PROD (M)			
3961	2424	12.0	19.3	268	58.0	03-59	6	8	100	SM SU, PHOU (M)		*EST SINCE 1972; +INCL BOTH PAYS	
	2540	20.0					5	7	100				
4416	2698	30.0	18.0	150		07-67	1	1	20	PENN SU, PHOU (B)			
*3843	2450	13.0				6-54	12-60		40			*EST. +ADJ. TO PROJS. 343443907-	
	2568	21.0							40			1954-1960	
*3838	2440	13.0				6-64	8-72	2	5	80	PRODUCED (R)	*EST. NO DATA RECEIVED	
	2540	20.0							80			+ADJ TO 3961 1959-72	
4226	2550	10.0				06-57	6	9	180	RIVER GRAVEL (F)		*ESTIMATE +INCL ALL PAYS	
	2660	10.0				11-52	3	4	80				
	2800	15.0				11-52	8	4	160				
3861	1718	12.0			35.9	01-68	1	3	40	PRODUCED (B)		*EST; +INCL PRIM PROD SINCE 1-68	
3837	1804	12.0				3-76	1	3	40	SM SU (F)		*INCL PRIM PROD SINCE 1976	
	2474	10.0					1	3	40				
4276	2550	14.0				06-59	3	4	80	SM SU, GRAV (F)		*ESTIMATE	
	2680	16.0					1	3	50				
	2607	24.0					1	2	40				
*4275	2210	10.0	7.0	50		09-58	03-74	2	2	50	SM SU, PROD (M)		
	2575	6.5					4	4	80				
	2700	11.0					10	12	230				
	2810	18.0					10	11	210				
3974	1716	18.0				03-61	6	4	120	GRAV, PROD (M)		*ESTIMATE SINCE 1972	
	1761	16.0	18.0	61			1	1	20				
	2269	13.0					6	4	120				
3985	1710	8.0	15.0	75	32.0	03-61	3	2	70	SM SU, PHOU (M)		*ESTIMATE	
	2310	14.0	16.0	50			12-64	3	2	60			
*3967	2550	22.0	15.0	36	38.4	06-60	07-70	7	4	160	SM SU, PHOU (M)		
4317	2578	19.0			36.0	04-61	1	1	20	SM SU, PROD (M)		*ESTIMATE	
	2672	19.0					1	1	20				
	2845	18.0					2	2	40				
4343	2580	10.0			56.0	07-63	1	1	20	SM SU, PROD (M)		*ESTIMATE	
	2680	13.0					1	2	40				
	2830	10.0					1	2	40				
4401	2330	8.0				04-64	3	5	90	SM SU (F)		*ESTIMATE	
4440	2200	20.0				01-68			40			*EST; +ACCIDENTAL OR OUMP FLOOD	
	2125	12.0							20				
4455	2370					6-60			30	PRODUCED (R)		*EST. +ADJ TO 4317 & 4294 SINCE 60	
	2960								10				
3870	1937	16.0	16.0	200		02-65	5	2	200	SM SU, PROD (M)		*ESTIMATE +NO DATA 1978	
3893	1937	8.0	16.0	520		11-63	3	3	70	GRAV, PROD (M)		*ESTIMATE	
	2248	8.0	18.8	45			4	4	80				
*3995	2413	9.0				06-62	12-76	1	1	10	PRODUCED (B)		*ESTIMATE
3962	2303	14.0			55.0	10-59	1	5	60	PRODUCED (B)			
*3892	2320	12.0			33.9	10-63	05-70	5	6	180	SM SU, PHOU (M)		*EST 1965-67 DATA ONLY
*4300	2596	18.0			55.6	01-61	01-72	5	4	150	SM SU, PROD (M)		
	2800	13.0				01-61	01-69	1	2	20			
	2910	10.0				01-61	01-69	1	2	60			
4342	2830	20.0	11.7	7	56.5	03-63	2	2	100	SM WELL (F)		*ESTIMATE SINCE 1976	
*3895	2075	16.0	20.0	140	36.8	04-63	12-76	3	4	70	PENN SU, PHOU (B)		*ESTIMATE 1976 DATA
1009	2730	20.0				02-69	2	9	130	PENN SU (R)		*ESTIMATE +INCL PRIM SINCE 2-69	
3931	2680	18.0	17.0	75	56.0	10-51	6	9	150	GRAV, PROD (M)		*ESTIMATE SINCE 1976; +SND ONLY	
*3928	2600	17.0	16.0	35	55.0	06-56	02-69	35	32	524	SM SU, PROD (M)		
4216	2600	9.0	15.0	8	35.0	09-56	12	8	240	GRAVEL BED (F)		*ESTIMATE +INCL ALL PAYS	
	2650	11.0					3	2	60				
	2800	14.3					9	11	200				
*4217	2900	9.4			34.5	09-56	12-59	4	7	120	GRAVEL BED (F)		
*4320	2200	15.0			56.0	11-59	1-77	3	2	50	GRAVEL BED (F)		*ESTIMATE
	2580	11.5	17.0	30			13	13	280				
	2690	10.0	11.0	15			3	3	60				
	2710	15.0	11.0				3	2	60				
	2830	18.0	20.0				15	15	320				
*1016	2566	12.0				08-58	02-62	1	2	50	GRAV, PROD (M)		
*3957	2531	13.0	17.0	20	39.5	10-56	04-66	2	1	20	GRAV, PROD (M)		
*4222	2630	10.0	17.7	145		05-55	10-57	1	2	30	TAR SPR, PHOU (B)		
*4287	2552	10.0				09-59	12-62	1	2	30	GRAV, PROD (M)		
	2670	21.0					2	2	40				
	2800	20.0					2	1	50				
*3997	2770	10.0	19.0			06-62	12-76	2	4	100	PRODUCED (R)		*INJ. SUSP. 1972
3840	1870	10.0				6-73	1	3	40	PRODUCED (R)		*ESTIMATE	
3877	255	14.0				02-74	7	12	220	PRODUCED (B)		*ESTIMATE	
3960	3450	15.0	10.0		39.0	12-75	2	6	140	TAR SPR AND PROD. (B)		*ESTIMATE SINCE 1977	
3845	2480	14.0				06-70	3	5	80	PRODUCED, FRESH (M)		*ADJUSTED BY OPERATOR	
	2640	18.0					2	1	40				

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY PROJECT NO., OPERATOR * = A&O + = P.M. # = A&O & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION		
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	
NEW HARMONY C, EDWARDS, WABASH, WHITE CONTINUED										
3885	STONE OIL CO	AUX VASES								
*4223	SUN OIL CO,	GREATMOUSE	MCCLOSKEY	33-4S=14W, 4-5S=14W		1058		129	227	
*4269	SUN OIL CO,	FORD 'A' WATERFLOOD	MCCLOSKEY	10-5S=14W		58		13	1	
*4239	SUPERIOR OIL CO,	KERN-MON UNIT	TAR SPRINGS	32,33-4S=14W		1986		536	491	
4236	SUPERIOR OIL CO,	NEW HARMONY FIELD U	AUX VASES	21,27,28,29,32,33,34- 4S=14W,3,4,5-5S=14W	36	16677*				
4237	SUPERIOR OIL CO,	NEW HARMONY FIELD U	BETHEL	20,27,28,29,32,33,34- 4S=14W,3,4,5-5S=14W	57	52354*				
4235	SUPERIOR OIL CO,	WALTERSBURG SAND UNIT	WALTERSBURG	4,5,9-5S=14W	542*	20400*	4,2**	1625**	26** 2734**	
4302	SUPERIOR OIL CO,	N.M.M. UNIT	TAR SPRINGS	9-5S=14W	19	333	3,7	54	1 22	
4311	SUPERIOR OIL CO,	NORTHEAST UNIT	WALTERSBURG	14,22,23,26,27,34-4S	320	320	118,5*	2570*	1364*	11655*
			TAR SPRINGS	14W	372	654*				
			CYPRESS		1069	1079*				
			BETHEL		1	268*				
			AUX VASES		56	1836				
4326	SUPERIOR OIL CO,	M. E. GIVEN	MCCLOSKEY	33,34-4S=14W	1531	8648				
					29	24	4,3	9	21	21
			ST LOUIS		17	17				
4390	SUPERIOR OIL CO,	NEW HARMONY FIELD U	JAMESTOWN	27,28,29,32,33,34-4S	573	1971	296,4*	15086*	4560*	60487*
			CYPRESS	14W, 3,4,5-5S=14W	7876*	61546*				
4391	SUPERIOR OIL CO,	NEW HARMONY FIELD U	WALTERSBURG	27,29,32,33,34-4S	1640	11211				
			TAR SPRINGS	14W, 3,4,5-5S=14W	507	4624*				
4454	SUPERIOR OIL CO,	SOUTHWEST UNIT	MCCLOSKEY	33-4S=14W, 3,4-5S=14W	205	205	32,6*	33	67	67
			ST LOUIS		62	62				
3948	A. K. SWANN	HEIL	CYPRESS	7,18-3S=13W	115	3134	8,1	705	32	1223
*4333	TEXACO, INC,	BRAMLETT	TAR SPRINGS	17-4S=14W		163				
*4334	TEXACO, INC,	BRAMLETT	CYPRESS	17-4S=14W		443				
*4371	TEXAS AMERICAN	FORD	AUX VASES	21-4S=14W		229		131		44
3910	UNIVERSAL OPNTNG	PANKENTER	CYPRESS	5-2S=13W	20*	299*	2,6*	31*	20*	299*
			BETHEL							
3986	UNIVERSAL OPNTNG	BUMP	CYPRESS	4-2S=13W	125*	2320*	14,9*	507*	125*	2500*
			BETHEL							
4341	WEST DRILLING CO	O. EVANS	MCCLOSKEY	4-4S=14W	30*	1408*	1,6*	153*	30*	258*
1025	GEORGE WICKHAM	SCMUEDEK	WALTERSBURG	20,27-2S=14W		1942		283*		528*
			CYPRESS							
*3981	CHARLES P. WOOD	G A STURMAN	SIEML	10-1S=13W		398		76		119
			CYPRESS							
NEW HAVEN C, WHITE										
*4247	ATLANTIC RICHFLD	NEW HAVEN U	TAR SPRINGS	17,18,19,20-7S=11E		1844		696		73
			CYPRESS							
4351	FRMERS PETR COOP	WASEM	TAR SPRINGS	24-7S=10F		590		22		155
*4388	FRMERS PETR COOP	UEAO RIVER UNIT	TAR SPRINGS	13,1A-7S=10E		828		452		336
4289	JUNIPER PETROLEUM C	GREATMOUSE ISLAND U	TAR SPRINGS	7-7S=11E, 7-7S=14W	17*	552*	1,0*	51*	10*	170*
			CYPRESS							
4278	SUN OIL CO,	G.N. BUETTICHER	CYPRESS	19-7S=11F	81	329	19,2	187	80	334
NEW MEMPHIS, CLINTON										
417	ELMER UELZE	NEW MEMPHIS SEC.REC.	OEVSIL	33,34-1N-5W, 3,4-1S-5W	580*	7965*	30,6*	590*	580*	5645*
OAKDALE, JEFFERSON										
2029	FAIRWAY PETROLEUM	MORRELL-NOVAK	AUX VASES	11,14,15-2S=4E		1295		85*		1295*
*2014	TEXACO, INC,	GREEN-VANDERHEID	AUX VASES	12-2S=4E		554		17		247
OAKDALE N, JEFFERSON										
2015	FRMERS PETR COOP	NORTH OAKDALE UNIT	MCCLOSKEY	3-2S=4E	108	1495	4,6	343	108	1354
OAK POINT, LLARK, JASPER										
* 227	M AND E ORLG, CO	B. FINNEY	AUX VASES	31-9N=14W		73		7		81
* 225	M AND E ORLG, CO	FINNEY-PING-HARD	AUX VASES	30,31,32-9N=14W	50*	4080*	2,5*	205*	50*	3759*
ODIN, MARION										
2600	ODMAN OIL PROP,	ODIN UNIT	CYPRESS	1,12,13-2N=1E, 6,7, 14-2N=2E	140	8278	0,5	1323	57	174
OLU RIPLEY, BOND										
6	SAM PARKER	RIPLEY U	PENN	21,28-5N=4W	10*	1238*	0,3*	95*	10*	415*
OLNEY C, JASPER, RICHLAND										
*3426	BELL BROTHERS	OUNOAS SOUTH UNIT	SPAK MTN	3,10-4N=10E		4020		226		3090
3435	U T DRILLING	NORTH OLNEY U	SPAK MTN	20,32-4N=10E		330		31*		51*
*3407	GULF OIL CO	EAST OUNOAS UNIT	MCCLOSKEY	25,26,35,36-5N=10E		953		152		207
1903	ILL. LSE, OP,	BESSIE	MCCLOSKEY	23-5N=10E		251		44*		225*
*3414	J. W. ROUY OHLG,	STIFF	MCCLOSKEY	34-5N=10E		159		33		54
*1904	SOMIU PETROLEUM	OUNOAS EAST UNIT	OMAHA	14-5N=10E		2003		142		1378
*3405	TEXACO, INC,	EAST OLNEY	MCCLOSKEY	23,24,25,26-4N=10E		3834		269		1286
3420	TEXACO, INC,	OLNEY WATER FLOOD	MCCLOSKEY	27-4N=10E	70	4968	3,5	636	70	3920
*1914	TRI-STATE CASING	MILLER-EUNICE	MCCLOSKEY	23-5N=10E		1339		57		908
OLNEY S, RICHLAND										
*3422	M V RING	KURTZ-MAHTZ	MCCLOSKEY	28-3N=10F		32				
OMAHA, GALLATIN										
1447	AMERICAN POMP	OMAHA S PALESTINE U	PALESTINE	32-7S=8E	121	713	6,7	60	21	159
1445	AMERICAN POMP	OMAHA S UNIT	HARVINSBURG	31,32-7S-8E, 5,6-8S-8E	186	2350	12,8	111	99	561
			CYPRESS							
			OMAHA							
			SPAK MTN							
1443	EXXON	OMAHA	PALESTINE	33-7S-8E, 4-8S-8E	621	10575	60,0	765	536	6104
			TAR SPRINGS							
			AUX VASES							
1437	T. W. GEORGE EST,	OMAHA S UNIT	AUX VASES	34-7S-8E, 3,4-8S-8E	321	3668	9,7	719	106	1228
*1414	HUMBLE O AND R	OMAHA	PALESTINE	33-7S-8E, 4-8S-8E		5763		3119		4436
1439	JUNIPER PETROLEUM C	CANE CREEK U	AUX VASES	4-8S-8E	46	1169	1,2	59	28	558
*1434	NAPCO	PHILLIPS FLOOD	CYPRESS	32-7S-8E		40		7		2

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER			REMARKS
FIELD, COUNTY	PROJ. NO.	DEPTH (FT)	NET PAY (FT)	PUR (%)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE ABN.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE	
									INJ.	PRDU.	SH	MH	
NEW HARMONY C, EDWARDS, WABASH, WHITE													
CONTINUED													
	3885	2750	22.0						1	3	40		
		2630	10.0						2	1	60		
	*4223	2900	5.0			36.9	08-47	02-57	1	2	90	GRAVEL 8ED (F)	
	*4269	2900	7.0			38.0	05-48	07-52	1	1	40	GRAVEL 8ED (F)	
	*4235	2250	13.3	17.3	85	37.4	02-54	01-70	1	1	121	GRAVEL 8ED (F)	
	4236	2630	8.9	17.9	46	37.0	11-56	00 00	1	25	460	RIVER GRAV, PRDU (M)	*INCL WITH 4390J +INACTIVE 1-70 TO 1-78
	4237	2710	12.4	15.4	32	37.0	11-56	00 00	33	48	1000	RIVER GRAV, PRDU (M)	*INCL WITH 4390J +INACTIVE 1-70 TO 1-78
	4238	2206	43.0	19.2	475	38.0	10-53		3	15	200*	GRAV, PRDU (M)	*ILL PORTION +INACTIVE 1963-76
	4302	2207	10.0	18.0	46	37.0	02-66		1	1	80	GRAVEL 8ED (F)	
	4311	2120	10.0	18.0	47	37.0	6-78		8	9	120*	GRAVEL, PRDU (M)	*INCL ALL PAYS! +INJ SUSP 5-70 TO 6-76J +INJ SUSP 6-68 TO 7-78
		2193	8.0	16.0	40	36.0	02-66		14	11			
		2600	12.0	18.0	100	36.0	02-66		24	17			
		2741	10.0	16.0	37	36.0	12-66		1	1			
		2850	19.0	15.0	12	36.0	12-66		2	2			
		2886	7.0	14.0	295	36.0	10-66		6	15			
	4326	2886	2.0	14.0	295	36.0	9-78		2	2	40	PRODUCED (S)	
		3086	20.0	6.0	10	39.2			3	2	40		
	4390	707	9.0	20.1	159	33.0	07-70		2	3	60	RIVER GRAV, PRDU (M)	*INCL 4236, 4237, 4391
		2550	10.0	17.0	37	37.0	08-64		106	109	3138		*INCL WELLER AS OF 8-78
	4391	2120	10.0	18.0	47	37.0	08-64		15	30	400	RIVER, PRDU (M)	*INCL WITH 4390
		2210	8.0	17.0	40	37.0	08-65		12	15	220		
	4454	2886	7.0	14.0	295	36.0	5-78		10	11	200	PRODUCED (S)	
		3086	20.0	6.0	10	39.2			10	11	200		
	3948	2450	15.0				11-55		6	11	140	GRAVEL 8ED (F)	
	*4333	2296	16.0			38.3	11-61	01-68	2	4	80	SH SU, PRDU (M)	*INCL WITH 4335
	*4334	2670	25.0			38.3	11-61	12-68	2	3	80	SH SU, PRDU (M)	*INCL WITH 4335
	*4371	2630	25.0				02-63	12-67	1	2	30	GRAV, PRDU (M)	
	3910	2410	13.0			36.9	04-67		1	1	20	PRODUCED (S)	*ESTIMATEU
		2530	7.0						1	1	20		
	3986	2400	15.0				01-62		1	4	70	PRODUCED (S)	*ESTIMATEU
		2540	10.0						1	4	60		
	4341	3000	5.0				10-49		1	4	50	GRAVEL 8ED (F)	*ESTIMATEU
	*1028	2150	12.0				06-64	06-73	3	6	80	SH SU, PRDU (M)	*ESTIMATEU SINCE 1967
		2640	12.0						2	4	60		
	*3981	1780	10.0	16.3	25	33.0	03-61	08-66	1	1	20	PIKCH, PRDU (S)	
		2235	12.0						2	1	30		
NEW HAVEN C, WHITE													
	*4247	2090	7.0	17.5	50	39.0	07-54	05-68	2	4	175	SH SU (F)	
		2435	10.0						10	10	260		
	*4351	2135	10.0	18.0	350	37.0	07-62	01-74	1	3	90	GRAVEL 8ED (F)	*OPERATION SUSPENDED 1970
	*4388	2200	6.0	19.0	96	38.0	09-64	12-74	3	7	78	GRAVEL 8ED (F)	
	4289	2146	24.0	18.0	48	37.0	01-66		3	2	60	RIVER GRAV (F)	*ILL. PORTION OF THE PROJ. IS 13.9% OF INO-ILL TOTAL
		2476	10.0	14.8	17				2	1	30		
	4278	2435	12.0	15.0	45	36.0	08-59		1	4	40	SH SU (F)	
NEW MEMPHIS, LLINTON													
	417	1960	99.0				06-68		3	23	580	SALEM, PRDU (R)	*ESTIMATEU
OAKDALE, JEFFERSON													
	*2029	2900	20.0				01-64	01-74	3	12	150	PRODUCED (R)	*ESTIMF PRDU EST 40% PRIM, 1964
	*2014	2870	15.0	20.2	120	36.5	08-61	12-64	3	2	100	PENN SU, PRDU (S)	
OAKDALE N, JEFFERSON													
	2018	2931	10.0				06-64		4	7	170	PONO, PRDU (M)	
OAK POINT, CLARK, JASPER													
	* 223	1180	20.0			36.6	10-58	12-60	0	0	0	PENN SU (S)	*ACREAGE & WELLS INCL WITH 225
	225	1190	12.0	13.1	40	36.6	04-67		20*	14*	360*	GRAVEL 8ED (F)	*ESTIMATEU +INCL ACREAGE FOR 225
OQUIN, MARION													
	2600	1700	15.0	20.0	76	38.0	10-49	10-62	14	22	230	TAR SPR, PRDU (S)	*SO 10-62 TO 12-75 +1976-77 ONLY
OLD RIPLEY, BOND													
	8	600	20.0			36.0	09-57		10	11	110	SH SU, PRDU (M)	*EST. SINCE 1964J +INACTIVE 1975
OLNEY C, JASPER, RICHLAND													
	*3426	2991	4.7	15.4	281	40.0	09-63	01-73	10	7	740	PENN SU (S)	
	*3435	2950	6.0				09-66	12-72	3	4	210	SH SU, CREEK (F)	*ESTIMATED SINCE 1967
	*3407	2985	6.0	12.5		41.4	10-56	09-62	5	4	220	PENN SAND (S)	
	*1903	2925	5.0	12.0			01-61	10-72	1	1	80	PRODUCED (S)	*INACTIVE 1970-1972
	*3414	2935	7.0			40.0	04-66	01-72	2	2	90	CYPRESS, PRDU (S)	
	*1904	2900	8.0			35.0	04-53	05-61	4	7	120	CYPRESS (S)	
	*3408	3100	5.3	13.8	522	37.0	03-51	04-71	6	16	458	PRODUCED (S)	
	3420	3000	13.0	13.8	500	37.0	11-46		1	2	280	PRODUCED (S)	
	*1914	2940	14.0	16.8	775	40.0	05-54	12-66	1	1	40	PRODUCED (S)	
OLNEY S, HIGHLAND													
	*3422	3150	6.0				06-61	01-62	1	4	50	CYPRESS (S)	
OMAHA, GALLATIN													
	1447	1725	9.5	17.0	50	27.1	12-71		3	6	133	PRODUCED (S)	
	1448	2175	12.0	14.0	10	35.0	03-71		3	2	60	SH SAND (F)	
		2375	5.0	15.0	50	36.0			1	1	20		
		2725	4.0	13.0	60	37.5			4	16	240		
		2784	4.0	13.0	20	37.5			1	2	50		
	1443	1700	17.0	18.9	427	31.0	02-69		4	19	425	PRODUCED (S)	
		1950	20.0	16.4	20				3	3	100		
		2650	10.0	9.2	5				1	2	30		
	1437	2710	12.0	12.0		41.5	10-65		6	9	253	PENN SU (M)	
	*1414	1700	17.0	18.9	427	26.0	10-44	02-69	1	16	260	PRODUCED (S)	
	1439	2678	30.0			37.6	11-65		2	7	100	SH SU, PRDU (M)	
	*1434	2760	20.0			37.0	05-65	11-66	1	1	20	CREEK, PRDU (M)	

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * ABO * P.M. * ABO & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION		
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	
OMAHA S, GALLATIN, SALINE *1432 DAVID KOTSTEIN	WOULARU	CYPRESS	7-8S-8E			164				
OMAHA W, SALINE 3623 ILL. MID-CUNY.	OMAHA WEST	SAMPLE	36-7S-7E1-8S-7E1 6-8S-8E		140*	2278*	9.1*	156*	140*	2073*
ORCHARDVILLE, WAYNE 4050 ALENE BLADES 4093 UNCAN LSE+ROY	LEE, SMELTON & ELLIS ORCHARDVILLE	OMAHA AUX VASES	28,32,33-1N-5E 24-1N-5E		30*	120*	4.1*	17*	30*	120*
ORIENT, FRANKLIN 1335 V. R. GALLAGHER	ORIENT	AUX VASES	9-7S-2E		55*	493*	4.9*	202*	55*	214*
OSKALOUSA, CLAY 342 IVAN R. JONES * 307 TEXACO, INC.	OSKALOUSA UNIT OSKALOUSA UNIT	AUX VASES MCCLOSKEY BENOIST	26,27,34,35-4N-5E 26,27,34,35-4N-5E		25*	2030*	1.0*	135*	25*	762*
PANA, CHRISTIAN 107 COLLINS BRUS,	PANA	BENOIST	34,35-12N-1E,3-11N-1E		20*	35*	4.1*	7*	20*	35*
PARKERSBURG C, EDWARDS, RICHLAND *3432 ACME CASING *3415 KEVIS U, CALVEY *3424 CONTINENTAL OIL *3409 MARATHON OIL CO. *1017 V. T. URLG, CO.	RICHLAND MIDGLEY PARKERSBURG KOERTGE 'B' PARKERSBURG U PARKERSBURG U	MCCLOSKEY MCCLOSKEY BETHEL MCCLOSKEY CYPRESS	30-2N-14W 16,21-2N-14W 30-2N-14W 8-3N-9E 6-1N-14W, 31-2N-14W			82 107 179 5134*		7 26*		44 43 25 1859*
PASSPORT, CLAY 350 M & M OIL CO 308 SHAKESPEARE OIL 327 SHAKESPEARE OIL	PASSPORT UNIT STANLEY-MINTERSHER PASSPORT U	MCCLOSKEY MCCLOSKEY MCCLOSKEY	2-4N-8E, 35-5N-8E 12-4N-8E 11,12,14-4N-8E		20** 20	1729* 817	1.4* 2.8	211* 74*	20* 16	81* 420
PASSPORT S, CLAY, RICHLAND *3417 CONTINENTAL OIL	PASSPORT SOUTH UNIT	CYPRESS	18-4N-9E			406		43		76
PATOKA, MARION, CLINTON 2639 FEAR AND DUNCAN 2614 GULF OIL CO	N PATOKA N. PATOKA TRENTON U	BENOIST TRENTON	19,20-4N-1E 1-3N-1W 6-3N-1E, 31,32-4N-1E		175*	5400*	6.6*	271**	175*	5400*
*2601 KARCHMER PIPE *2602 KARCHMER PIPE *2603 KARCHMER PIPE	PATOKA BENOIST PATOKA RUSSELL STEIN UNIT	BENOIST SPAH MTN CYPRESS	20,21,28,29-4N-1E 21,28,29-4N-1E 26-4N-1E		90*	68093 6157*	4.1*	6542 1597*	90*	4806 6352*
PATOKA E, MARION 2638 HIGHLAND OIL CO *2629 MOBIL OIL CORP. 2616 FRED SEIP 2631 SMELL OIL CO.	THALMAN F H PEUDICURU MILL EAST PAYUKA UNIT	CYPRESS CYPRESS CYPRESS CYPRESS BENOIST	35-4N-1E 34-4N-1E 26-4N-1E 34-4N-1E			138 *	8.3*	7*	40*	1280* 9 340*
PAYOKA S, MARION 2640 E. M. SELF 2627 JOE SIMPKINS OIL 2619 TRI STAR PRODU CO PHILLIPSTOWN C, EDWARDS, MARION 4395 ABSHER OIL CO 4323 N. A. BALDORIG	DELA PATOKA SOUTH BENOIST-SANDSTONE U WHITE GARFIELD-PARSON MICHAELS-GREEN-STUHM	CYPRESS CYPRESS BENOIST AUX VASES CYPRESS BETHEL AUX VASES TAR SPRINGS OHAKAL DEGONIA TAR SPRINGS PENN TAR SPRINGS AUX VASES PENN CYPRESS PENN DEGONIA TAR SPRINGS BETHEL RIEHL CLARK DEGONIA BETHEL AUX VASES MCCLOSKEY DEGONIA CLOHE CYPRESS BETHEL AUX VASES MCCLOSKEY CYPRESS RIEHL BETHEL TAR SPRINGS CLRK-BRUGPT RUCHMANAN DEGONIA PENN DEGONIA	9-3N-1E 4,5,8,9-3N-1E 5-3N-1E 7-4S-14W 30-3S-14W 6-5S-11E 25,36-3S-10E 36-4S-10E,1-5S-10E, 31-4S-11E 31-4S-11E/36-4S-10E 19,30-4S-14W, 30-4S-11E 31-3S-14W 1-5S-10E,6-5S-11E 30-3S-11E 31-3S-14W 30-4S-11E 18-3S-11E 29-3S-14W 24-3S-14W 30-3S-11E 25-4S-10E 25-4S-10E		* 220*	* 12240* 2157*	2.4* 10.8*	106** 465*	20* 220*	1170* 6598*
4257 BARGER ENG 4288 BARGER ENG 4414 BARGER ENG 4432 BARGER ENG 4249 C. E. BREHM *4251 BRITISH-AMERICAN 4349 R. G. CANTRILL *4344 COY OIL CO *4319 UNCAN LSE+ROY 4298 EASON OIL CO.	PHILLIPSTOWN U CALVIN NORTH CLEVELAND PHILLIPSTOWN PHILLIPSTOWN UNIT N CALVIN UNIT PHILLIPSTOWN U GREEN METCALF CLARK WATERFLOOD	18 90**	1838 3686 2458*	12.6 1215 528*	204 277*	1170*				
1029 FEAR AND DUNCAN 4243 FISK & FISK 4245 FISK & FISK 4343 FISK & FISK *4373 V. R. GALLAGHER 4367 V. R. GALLAGHER 4224 GETTY OIL CO	JOHNSON COUP HAWLINSO 7 MORRIS SEIFIELD WF CLEVELAND TAR SPRINGS U KUYKENDALL N PHILLIPSTOWN	60* 85*	1578* 1039*	4.5* 4.7*	92* 120*	60* 85*	646* 963*			
					10* 60*	213* 1815*	0.8* 2.7*	25* 118*	10* 60*	113* 902*
					280*	3709*	17.8*	321*	280*	1351*
					638	5905	35.6	4428	276	3055

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER			REMARKS
FIELD, COUNTY					NO. OF WELLS					SOURCE			
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	PERM GRV (MO) (API)	DATE FIRST INJ.	DATE ADD.	INJ.	PROD.	ACRES UNDER INJ.	SD = SAND GR = GRAVEL PROU = PRODUCED SH = SHALLOW	(F) = FRESH (B) = BRINE (M) = MIXED		
OMAHA S, GALLATIN, SALINE													
*1432	2541	19.0	12.9	24	27.0	10-60	12-63	1	1	20	TAK SPRINGS (B)		
OMAHA W, SALINE													
3623	2700	10.0						1	7	100	PRODUCED (B)	*ESTIMATED	
ONCMAROVILLE, WAYNE													
4050	2880	9.0				7-75		3	3	70	PRODUCED (A)	*ESTIMATED	
4093	2835	10.0				08-65		1	3	40	SH SD, PROU (M)		
ORIENT, FRANKLIN													
1335	2670	15.0	18.9	75	58.9	10-66		1	3	40	TAK SPRINGS, PROU (B)	*ESTIMATED SINCE 1976	
OSKALGOSA, CLAY													
342	2641	10.0	13.0		37.0	12-63		3	3	100	PENN SU, PROU (B)	*ESTIMATED SINCE 1972	
	2742	11.0			37.0			3	3	100			
* 307	2600	14.2	15.6	54	37.0	01-53	10-66	9	4	396	PENN SU, PROU (B)		
PANA, CHRISTIAN													
107	1455	5.0				5-77		1	2	40	PRODUCED (B)	*ESTIMATED	
PARKERSBURG C, EDWARDS, RICHLAND													
*3432	3190	8.0				04-65	02-64	1	3	80	PRODUCED (B)		
*3415	3060	10.0				01-55	01-56	2	7	160	PRODUCED (B)	*INCL PRIM PROD 1-55 TO 1-56	
*3424	2960	15.0				09-59	07-64	1	1	20	PRODUCED (B)		
*3409	3130	8.0	18.0	800		05-55	12-64	5	5	200	CYPRESS, PROU (B)	*INCL 3416	
*1017	2770	14.8	16.8	120	37.2	02-59	12-68	3	8	256	PENN SU, PROU (B)	*ESTIMATED 1965-68	
PASSPORT, CLAY													
354	3025	10.0	15.0	35	58.0	06-65		3	2	160	PENN SU, PROU (B)	*ESTIMATED *SDU ONLY	
308	3000	9.0			57.0	09-57		1	2	40	PRODUCED (B)	*INCL PRIM PROD SINCE 9-57	
327	3000	10.0	16.9	911	58.2	07-58		4	5	305	CYPRESS, PROU (B)		
PASSPORT S, CLAY, RICHLAND													
*3417	2700	8.0	15.0	60		07-59	06-64	2	2	100	PENN SU, PROU (B)		
PATOKA, MARION, CLINTON													
2639	1445	10.0				01-66		2	13	160	PRODUCED (B)	*EST +INCL PRIM PROU	
2614	3430	17.0	8.0	3	43.0	06-61		11	14	520	PENN SU, PROU (B)		
*2601	1410	27.0	19.0	110	59.0	09-43	12-70	40	47	527	PRODUCED (B)		
2602	1550	9.0	14.8	223	40.0	07-48		21	12	445	PRODUCED (B)	*ESTIMATED SINCE 1971	
*2603	1280	10.0	21.0	32	59.0	08-51	12-70	6	2	61	PRODUCED (B)		
PATOKA E, MARION													
2638	1340	15.0				06-65		* 10		100	TAK SPR, PROU (B)	*ADJACENT TO ACTIVE W.F.1 *EST	
*2629	1370	19.0	19.2	62	52.6	06-66	01-68	2	1	30		*EST, *AUG, TU 2631 SINCE 65	
2616	1350	14.0				2-65		* 4		40		*EST, JULY-JUL, 1978	
2631	1350	18.0	20.0	139	56.0	06-65		7	14	150	TAK SPR, PROU (B)		
	1465	11.0	18.0	120				2	4	60			
PATOKA S, MARION													
2640	1350	7.0				10-64		* 4		80	*ADJ. ACT. WF *EST *INC PRIM 64-77		
2627	1360	15.1				08-64		29	29	580	TAK SPR, PROU (B)	*ESTIMATED	
2619	1456	14.0			36.5	02-64		6	13	200	TAK SPR, PROU (B)	*ESTIMATED SINCE 1976	
PHILLIPSTOWN C, EDWARDS, WHITE													
4395	2685	15.0			58.5	04-61		1	3	222	PENN SU, PROU (B)	*ESTIMATED SINCE 1971	
4323	2700	10.0				06-68		1	2	30	PENN SU (A)	*ESTIMATED SINCE 1971	
	2825	6.0						1	2	30			
	2920	10.0						1	3	40			
4257	1926	16.0			56.0	12-69		2	3	40	PRODUCED (B)		
	2300	7.0				02-56		2	5	80			
4268	2690	12.0	16.0	50	56.5	3-78		3	4	130	SH SU, PROU (M)		
	3050	8.0	14.0	220	58.6								
4414	1935	15.0				11-67		4	4	90	PRODUCED (B)		
	2385	7.0				05-65		2	4	380			
4432	1350	20.0	20.0	200	36.0	11-73		5	20	150	RIVER GRAVEL (F)		
	2300	20.0	18.0	20				10	15	250			
	2850	10.0						5	5	100			
4249	1950	10.0	13.0	36	56.0	06-65		3	5	90	PENN SU, PROU (B)		
	2730	10.0						2	4	60			
*4251	1550	29.0	17.6	86	52.0	06-51	11-63	9	9	180	TAK SPR, PROU (B)	*ESTIMATED *SDU ONLY	
4349	1970	10.0	16.3	35	57.7	09-62		6	10	200	RIVER, PROU (M)		
	2300	8.0	15.0	24	55.7			2	3	70			
*4344	2820	10.0	13.0	6	56.0	11-62	01-67	1	2	30	GRAV, PROU (M)		
*4319	1824	12.0			52.8	12-64	06-71	2	4	40	TAK SPR, PROU (B)		
4298	1350	15.0	22.2	275		04-70		6	8	80	SH SU, PROU (M)	*CLARK, OEG *BETHEL, AUX VASES	
	1950	40.0	16.5	21		01-66		8	8	80		*ALL PAYS	
	2810	14.0				06-60	12-65	4	7	110			
	2920	10.0				09-60	12-65	4	7	100			
1029	3116	5.0	12.0	100	57.0	05-64		2	5	140	PENN SU, PROU (B)	*ESTIMATED SINCE 1971	
4243	1997	3.0				01-66		1	1	80	PRODUCED (B)	*ESTIMATED SINCE 1972	
	2050	6.0						1	1	50			
	2700	14.0						1	5	60			
	2803	8.0						2	3	60			
	2910	11.0						1	3	50			
	3000	12.0						1	2	60			
4245	2700	10.0				07-67		1	3	50	PURCHASED (M)	*ESTIMATED	
4343	1842	14.0	16.2	88	52.0	06-62		2	2	50	PENN SU, PROU (B)	*ESTIMATED SINCE 1972	
	2820	11.0	14.2	10				3	4	150			
*4373	2310	9.0	18.3	66	53.9	10-63	10-72	3	2	110	PENN SU, PROU (B)	*INCL PRIM PROD SINCE 10-63	
4367	1300	15.0				01-71		1	1	20	PENN SU, PROU (B)	*ESTIMATED SINCE 1976	
	1490	15.0				07-64		2	2	40			
	1970	16.0				01-67		1	2	40			
4224	1400	10.0				01-70		2	2	40	PENN SAND, PROU (B)		
	1990	16.0				12-67		7	14	191			

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * * ABO * * P.M. * * ABD & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
				TOTAL 1978	CUM. 12/78	TOTAL 1978	LUM. 12/78	TOTAL 1978	CUM. 12/78
PHILLIPSTOWN C, EDWARDS, WHITE CONTINUED									
4224 GETTY OIL CO		CLORE							
*4370 GETTY OIL CO	JENNIS "B" DEEP	BETHEL AUX VASES MCCLOSKEY	16-49-11F		127		1		14
*4277 KIRBY PETROLEUM 4264 N. C. MCBRIDE	W.P.O.S. UNIT ARNOLD	BETHEL PENN WALTENBURG AUX VASES	26,35-45-10E 6-49-14W	417	1791 3964	40.6	16.0 47	39.4	949 2653
*4250 MOBIL OIL CORP. *4252 MOBIL OIL CORP. *4369 E. M. MORRIS EST 4342 ELMER M NOVAK 4417 PAUL DETHMAN 4421 LOUIS PESSINA 4215 PHILLIPS PET. CO	GRAYVILLE U N CALVIN MORRIS A, B N CALVIN RIEHL U CECIL & GILLISUN PHILLIPSTOWN FLOOD KENN U	CYPRESS RIEHL CYPRESS RIEHL RIEHL TAR SPRINGS AUX VASES BETHEL PENN	20,29-35-14W 30,31-38-11E 19,30-38-11E 31-35-14W 19,30-35-14W 35,36-45-10E, 1,2-55-10E 19-48-11F 3U-48-11E,31-49-14W		187 1156 109.0 15* 10* 300 103	787 426.0 3.0 84.0 137.0 354.0 152.0	14.4 42.0 3.0 U.4* U.7* 11.0*	47.0 60.0 41.0 13.9	55.2 499 12.0 122.0 201.9 0 133
*4254 PHILLIPS PET. CO 4255 PHILLIPS PET. CO	LAURA PHILLIPSTOWN UNIT	BETHEL PENN	19-48-11F 3U-48-11E,31-49-14W	19	197 2126	14.6	1.6 41.8	2	51 522
*4232 SKILES OIL CURRY 4225 SUN OIL CO.	L.U. CLEVELAND CAMR-RENSHAW	TAR SPRINGS CLORE AUX VASES MCCLOSKEY	36-49-10F 18-45-14W		48	21.3	25.6	4.3	31.8
*4254 SUN OIL CO. *4270 SUN OIL CO. *4315 TEXACO, INC.	PHILLIPSTOWN U PHILLIPSTOWN PHILLIPSTOWN COOP	CLORE TAR SPRINGS BETHEL AUX VASES MCCLOSKEY	6-55-11E 6-55-11E 10-49-14W		234 58 909		11.0 1.7		5.8 251 13.9
*4253 WEST DRILLING CO 4306 WEST DRILLING CO	FLORA UNIT LAURA JOHNSON	DEGUNIA DEGUNIA AUX VASES OHANA	24-49-10P 19-49-11F		1471.0 70.0 35.0 40.0	386.0 6.8**	129.0 71.0**	100.0 145.0**	847.0**
PHILLIPSTOWN S, WHITE									
4357 REBSTOLK OIL CU,	LIVEN-BROWN	TAR SPRINGS	11-58-10F	20*	615*	0.9*	146.0	20.0	204.0
RACCOON LAKE, MARION									
*2617 TEXALO, INC. 2626 TEXACO, INC.	MOSILLARE-MCCLOSKEY U RACCOON LAKE UNIT	SPAK MTN MCCLOSKEY CYPRESS BENUIST	3-1N-1E 3-1N-1E		1844 346 3891 509		1.7 7.6 8.5		190.9 393 511.8
RALEIGH, SALINE									
*3615 WALTER DUNCAN 3617 FARRAR OIL CU. *3605 KEMANE OIL CO.	SPURLOCK RALEIGH UNIT HALEIGH U	CYPRESS CYPRESS AUX VASES	2-8S-6E 35-7S-6E, 2-8S-6E 1U,15,16-8S-6E		167.0 60.0 5041.0 1874		53.0 450.0 282		82.0 125.0 96.0
RALEIGH S, SALINE									
3627 BOPAY OIL CO 3618 MENMAN GRAHAM *3604 ILL. MID-COUNT. 3616 KK PET. CORP.	HARRISBURG NORTH U S. RALEIGH U RALEIGH UNIT LEITCH ETAL	WALTENBURG AUX VASES AUX VASES AUX VASES	27-03-6E 20-03-6E 2U-03-6E 2U,21,26,29-8S-6E		46** 165* 1246* 3U*	204** 2651.0 1246* 1505*	U.7 11.0*	6 244.0 6.0 115.0	4.0 165.0 500.0 30.0
RAYMOND E, MONTGOMERY									
*2900 WAKE PETROLEUM	FOSTER-PUGGENPUHL	PENN	13,27-10N-4W		38.0		6.0		15.0
RESERVOIR, JEFFERSON									
2030 FARRERS PETM COOP 2031 BURKELL U, MINOR	MITSON JOHNSON,MULVNY-SLEDGE	MCCLOSKEY MCCLOSKEY	21-19-3E 28,33-15-3E		10* 20*	395* 515*	U.6 4.5*	64** 87*	10* 20*
RICHVIEW, WASHINGTON									
4016 NICK BARRE 4015 N. A. BALDRIDGE 4012 C. T. EVANS 4017 E. M. SELF 4014 GEORGE THOMPSON	CANTWELL-MANTOLCLO RICHVIEW RICHVIEW UNIT SKIRINSKI THOMPSON	CYPRESS CYPRESS CYPRESS CYPRESS CYPRESS	2-2S-1W 2-2S-1W 2-2S-1W 1U-2S-14W 35-18-11W,2-2S-1W		25* 220* 570 10* 75*	409* 3053* 7720 416.0 5224*	1.7* 21.9* 7.1 U.4* 6.9*	47* 531* 444* 46* 331.0	25* 220* 215* 10* 75*
RITTEK N, RICHLAND									
*3430 ZANETIS OIL PROP	SE OLNEY U	SPAK MTN	16-3N-1E		92		5		54
ROACHES N, JEFFERSON									
*2909 TEXACO, INC.	ROACHES NORTH UNIT		5,8-2S-1F		2590		3U		2081
ROCHESTER, WABASH									
3970 ASHLAND O AND R 3972 ASHLAND O AND R 3968 YINGLING OIL, INC	NORTH ROCHESTER U ROCHESTER COOP KENNARD	PENN WALTENBURG PENN WALTENBURG	11,14-25-13W 14-2S-13W 14-2S-13W		99 409 11592**	399U 8424 11592**	1.9 1.8 1.83**	45.0 28.6 183**	7U 10U* 4385**
ROLAND C, GALLATIN, WHITE									
4314 ABSHER OIL CO 4435 N. A. BALDRIDGE	MORRIS CITY PORTER	HARRISBURG WALTENBURG CYPRESS AUX VASES	11,14-6S-8E 12-7S-8E		8* 4*	620* 522*	U.2* U.2*	65* 39*	8* 4*
4413 W. BECKER 4324 ENERGY RESOURCES 4350 ENERGY RESOURCES	CRUIZIER-MILLIMAN N ROLAND U S ROLAND U	HARRISBURG AUX VASES CYPRESS AUX VASES	36-58-8E 35-6S-8E,12-7S-8E 1U,11-7S-8E		25* 12* 991**	783* 180* 991**	2.3* U.0* *	51.0 10.0 67**	25* 12* 107**
1414 EXXON 4258 EXXON	S. ROLAND S.W. ROLAND	AUX VASES WALTENBURG AUX VASES	16,21,22-7S-8E 14,15,16-7S-8E		1583 1027	5751.9	19.8 40.4 27.91	89.8 56.0	89.8 1241.2
4264 EXXON	ROLAND AREA U I	AUX VASES CYPRESS BETHEL AUX VASES	2,11-78-8E		275	947.9	32.3	150U	682 8324
4436 FARRAR OIL CU.	MARTIN	AUX VASES AUX VASES	13-7S-8E		130*	635*	6.7*	6.0*	130* 835*

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER				
FIELD, COUNTY					NO. OF WELLS					SOURCE TYPE				
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	PUR (%)	PERM (MO)	OIL GRAV (API)	DATE FIRST INJ.	DATE ABD.	INJ.	PRD.	ACRES UNDER INJ.	SU = SAND GM = GRAVEL SH = SMALL ON	PKOU = PRODUCTION PRUD = PROD (M) PRUF = FRESH PRUK = URKINE PRUM = MIXED	REMARKS	
PHILLIPSTOWN C, EDWARDS, WHITE														
CONTINUED														
4224	2035	6.0				12-67		3	4	60				
•4370	2845	15.0			34.0	05-71	07-72	2	2	37	PENN SU, PKOU (B)			
	2930	25.0						2	2	37				
	3040	23.0						2	2	37				
•4277	2640	11.0	15.5	150	38.0	06-56	12-63	9	12	270	PENN SU, PKOU (B)			
4264	1500	25.0	16.5	166		11-67		2	3	70	PENN SAND, PRUD (B)			
	2290	5.0						2	1	30				
	2900	10.0	18.0	100				2	3	70				
•4250	2650	27.4	19.4	64		06-54	07-64	2	4	60	PRODUCED (B)			
•4252	1630	11.0			32.8	05-51	02-61	9	9	60	SH SU, PKOU (M)		*INCL PRIM PRUD 1951-1961	
•4369	2700	10.0				06-63	12-63	3	4	40	SH SU (F)		*NO DATA SINCE 1964	
4342	1600	25.0	17.7		32.0	6-63		3	3	30	PRODUCED (B)		*ESTIMATEU	
4417	1830	20.0			34.0	06-72		1	6	40	PRODUCED (B)		*ESTIMATEU	
4421	1630	15.0				02-68		5	17	240	PRODUCED (R)		*ESTIMATEU	*INCL TO ACTV WF SINCE 1964
4215	2380	13.0			36.0	03-68		1	2	30	WELL, PRUD (M)		*ESTIMATEU 1978 DATA	
	2950	18.0	20.0	60				2	4	90				
•4254	2600	10.0	15.0	46	37.0	03-52	01-64	2	2	40	PRODUCED (B)			
4255	1650	47.0				06-71		1	5	60	PRODUCED (B)			
	2600	18.0				10-57		6	2	80				
	2930	24.0				10-57		2	5	60				
•4232	2300	12.0				11-55	01-56	1	2	30	PENN SAND (R)			
4225	2015	20.0			36.0	01-68		•	3	40				*INJ. WELLS ARE LINE WELLS
	2695	18.0						•	1	20				
	3040	8.0						•	2	60				
•4256	2000	10.0				12-55	04-60	1	5	50	PRODUCED (B)			
•4270	2246	10.0			34.5	01-53	06-54	1	9	10	PRODUCED (B)			
•4315	2600	17.0	14.2	7	36.3	03-69	01-72	4	3	70	PRODUCED (B)			
	2900	10.0	14.2	31				4	3	70				
	3050	10.0						4	4	80				
•4253	2000	15.0	19.0	100	37.0	09-53	06-74	2	5	70	PRODUCED (B)		*ESTIMATEU	
4306	1980	20.0				06-69		1	2	40	PRODUCED (B)		*ESTIMATEU	*INCL ALL PAYS
	2940	9.0						1	2	40				
	3035	10.0						1	1	30				
PHILLIPSTOWN S, WHITE														
4357	2320	12.0	18.1	33		12-62		2	3	60	SH SU (F)		*ESTIMATEU	
RACLOON LAKE, MARION														
•2617	1900	6.9	14.0	199	36.0	07-61	12-74		3		PRODUCED (B)			
	1925	5.2	11.0	292										
2626	1650	15.0			35.0	03-65		2	0	120	PRODUCED (B)			
	1730	15.0					09-69	1	1	70				
RALEIGH, SALINE														
•3615	2550	10.0			32.0	05-64	12-74	1	1	20	PENN SU, PKOU (R)		*ESTIMATEU	
3617	2553	14.0			33.7	05-62		18	14	350	CYPRESS, PKOU (R)		*ESTIMATEU SINCE 1969	
•3605	2945	10.0	24.0	472	39.0	10-60	12-66	3	4	70	PAINT CK, PRUD (B)			
RALEIGH S, SALINE														
3627	2050	13.0				01-75		1	2	60	PENN (B)		*SUBSURFACE INJ. + ESTIMATEU	
3619	2640	12.5	18.4	130	38.0	06-64		3	4	80	PENN SU, PKOU (R)		*ESTIMATEU	
•3604	2650	15.0		176	40.4	12-60	01-70	1	3	40	PENN SU, PKOU (B)		*ESTIMATEU 1964-1969	
3616	2650	15.0	15.0		36.0	03-64		3	1	110	PRODUCED (B)		*ESTIMATEU	
RAYMOND E, MONTGOMERY														
•2900	595	6.0			34.1	06-59	12-67	2	2	20	PENN SU, PKOU (R)		*ESTIMATEU	
RESERVOIR, JEFFERSON														
2030	2720	14.0				10-64		1	2	50	PRODUCED (R)		*EST. + INCL. PRIM SINCE 64	
2031	2740	12.0				6-66		1	3	50	PRODUCED (R)		*EST. + INCL. PRIM SINCE 66	
RICHVIEW, WASHINGTON														
4016	1500	20.0				09-71		1	6	70	TAK SPR, PRUD (B)		*ESTIMATEU	
4015	1440	20.0				03-70		4	10	140	TAK SPR (R)		*ESTIMATEU	
4012	1485	13.0	21.0	117	39.0	10-66		5	9	97	TAK SPR, PRUD (B)		*INCL PRIM PRUD SINCE 3-66	
4017	1480	25.0				01-71		•	2	20			*ADJ TO ACTIVE WF, DATA EST	
4014	1477	20.0				09-63		1	7	100	TAK SPR, PRUD (B)		*ESTIMATEU	
RITTER W, RICHLAND														
•3430	3190	4.0			38.8	09-64	12-65	1	3	160	PENN SAND, PRUD (B)			
RUACHES N, JEFFERSON														
•2009	1930	10.7	14.8	134	37.2	08-60	10-73	4	18	460	PRODUCED (R)			
ROCHESTER, WABASH														
3970	1285	12.0	19.0	100	40.1	07-60		2	3	80	GRAVEL BED (F)			
	1960	20.0	18.9	100				2	5	90				
3972	1285	12.0			50.5	01-60		3	2	70	GRAV, PRUD (M)		*ESTIMATEU 1977 DATA	
3968	1350	30.0	17.0	150	33.0	07-60		5	8	60	SH SU, GRAV (F)		*ESTIMATEU	*NO DATA SINCE 1975
	1950	20.0	18.0	200	37.0			5	5	60				
ROLAND L, GALLAITN, WHITE														
4314	2575	8.0	16.0	30	36.6	10-69		5	4	110	SH SAND (F)		*ESTIMATEU SINCE 1972	
4435	2190	12.0				01-62		1	2	30	PRODUCED (R)		*ESTIMATEU	
	2600	18.0						1	2	40				
	2900	10.0						1	2	40				
4413	2636	14.0	17.0	106	38.0	03-63		2	3	280	PRODUCED (B)		*ESTIMATEU	
4324	2450	10.0				06-70		2	6	130	PENN SU (R)		*ESTIMATEU SINCE 1972	
4350	2650	8.0				04-70		2	4	60	PENN SU (R)		*ESTIMATEU SINCE 72; *NO DATA 78	
	2450	10.0						2	4	60				
•4148	2420	15.0	16.2	61	40.0	06-59	01-76	2	2	120	PENN SU (R)		*NO INJ SINCE 1975	
4258	2175	14.0	19.5	275	31.0	06-55		13	19	560	PENN SU, PRUD (R)			
	2900	12.0			39.0			2	4	110				
4266	2700	20.0	16.6	65	31.6	06-66		14	12	450	PENN SU, PRUD (B)			
	2775	9.0	12.4	16				1	4	130				
	2400	6.0	13.8	14				8	15	910				
4436	2870	16.0				06-73		1	3	40	PRODUCED (R)		*ESTIMATEU	

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR • = A&O • = P,M, • = A&O & P,M.	PROJECT U = UNIT	PAT NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION		
				TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78	
ROLAND C, GALLATIN, WHITE CONTINUED										
4396	FEAR AND DUNCAN	MOBLEY-GNEER	TAR SPRINGS	25-6S-8E	65*	551*	2.9*	68*	65*	478*
4361	F. J. FLEMING	JOERNEK UNIT W/	WALTERSBURG	12,13-7S-8E		1458	80			888
4262	T. W. GEORGE EST.	PINKLEY-MUDKREMEAD UNIT	CYPRESS	17,20-7S-8E		55				
*4259	HUMBLE O AND R	STUKES U	MARJINSBURG	5,8-AS-9F		755	543			1270
4375	LOOK OIL CO	ATCMLEY	CLONE	17-6S-9E	30*	623*	1.0*	37*	30*	579*
*4347	E. F. HOKMAN, INC	NORRIS CITY	CYPRESS	33-6S-8E		771	15			
			BETHEL							
1446	MURVIN OIL CO,	ROLAND POOL U	BETHEL	24-7S-8E		1307	57*			521*
4419	MURVIN OIL CO,	ROLAND	CYPRESS	13,14,24-7S-8E	100*	1798*	5.7*	172*	100*	1503*
			AUX VASES							
*4407	NAPCO	HUGHES FLOOD	CYPRESS	4,9-AS-9E		458	14			164
4403	NATIONNAIVE ENERGY	ROLAND U	CYPRESS	1,12,13-7S-6E	220*	3435*	12.1*	259*	220*	1494*
			BETHEL							
			AUX VASES							
4418	DENNIS PAINE	COLLINS-ANDREWSUN	BETHEL	16-7S-8E		193	42*			81*
4422	PETRU INTERNATIONAL	GENTRY & LOWRY	TAR SPRINGS	13-6S-8E	120*	1633*	7.5**	132*	120*	1155*
			CYPRESS							
4310	WEBSTOCK OIL CO,	GEN AMER LIFE	CLONE	1-7S-8E	180*	3037*	5.7*	140*	180*	2316*
			WALTERSBURG							
			CYPRESS							
			BETHEL							
			AUX VASES							
*1413	KOYALCO, INC,	OMAHA U	WALTERSBURG	20,21,28,29-7S-8F		12070	593			3696
4318	KOYALCO, INC,	E, ROLAND	AUX VASES	2,3-7S-8F		170	10*			425
4261	SMELL OIL CO,	IRON UNIT	MARJINSBURG	23,24,25-6S-8E		1851	2654			9380
4322	JOE SIMPKTNS OIL	ROLAND POOL U	WALTERSBURG	10,11-7S-8E	80*	1967*	4.3*	135*	80*	1097*
			BETHEL							
			AUX VASES							
4214	SUN OIL CO,	ROLAND POOL U AREA II	CLONE	1,2,11,12,13,14-7S-8E	4444	47720	72.2	5404	2562	23135
			WALTERSBURG	36-6S-8E						
			TAR SPRINGS							
			CYPRESS							
			BETHEL							
			AUX VASES							
4244	SUN OIL CO,	ROLAND WEST U	CYPRESS	4,9-7S-8E	482	5375	26.1	524	346	5143
			BETHEL							
			AUX VASES							
*4260	UNION OIL CALIF,	STUKES-HOHNSVILLE II	SPARK MTN			16366		2290		9607
			MARJINSBURG	36-5S-8E,31,32-5S-9E, 1,11,12-6S-8E,6-6S-9E						
4385	UNION OIL CALIF,	WALNUT GROVE U	TAR SPRINGS	7,8,17,18,19-6S-9E	1672	27126	71.1	2724	1501	14253
			CYPRESS							
			PAINT CHECK							
			BETHEL							
			AUX VASES							
			OMAHA							
			SPARK MTN							
*1455	MAUSAU PET, CORP	WDSSETI	MCCLOSKEY			693		81		125
			CYPRESS	19,20-7S-8E 18-7A-8E						
RUARK, LAWRENCE										
2267	MEPCO, INC,	MUARK WF U	PENN	7-2N-12W	65*	950*	3.3*	150*	65*	444*
2245	ULUS OIL & CHEM,	KING UNIT	BETHEL	8-2N-12W	17	37	1.3	2	5	8
RUARK W, LAWRENCE										
2204	LITTS SERVICE	W, RUARK U	BETHEL	12,13-2N-13W	135	6595	5.5	683	125	4181
2293	E D KEYNULUS EST.	WINTH	BETHEL	13-2N-13W				34		200*
2240	JOE WILLIAMS	W W PRUIT	BETHEL	12-2N-13W				32		
RURAL MILL N, HAMILTON										
*1515	ACME CASING	MOURE UNIT	CYPRESS	34,35-5S-5E		1539		210		544
ST FRANCISVILLE, LAWRENCE										
2263	MAHOLD BRINKLEY	PEPPLE AND MUDDY	BETHEL	19,20-2N-11W		787*		24*		516*
*2278	LOGAN OIL CO,	WILSON #2	BETHEL	20-2N-11W		31				
*2228	OIL RECOVERY, INC	ST FRANCISVILLE	BETHEL	20-2N-11W		90				
ST. FRANCISVILLE E, LAWRENCE										
*2218	BAUER BROTHERS	ALL STATES LIFE	BETHEL	22-2N-11W		3526		247		1145
ST JACOB, MADISON										
2506	BELLAIN OIL	ELLIS WF	TRENTON	27-3N-6W	60*	2216*	5.6*	129*	60*	1196*
2503	WARRIOR OIL CO,	TRENTON LINE UNIT	TRENTON	15,16,21,27-3N-6W	374	8248	12.3	623	299	5118
2505	WARRIOR OIL CO,	S, ST. JACOB UNIT 1,	TRENTON	27-3N-6W	226	2963	5.7	96	180	2535
ST JAMES, FAYETTE										
1238	M. A. BALDINGE	WILLIAM SMAIL	CYPRESS	25,36-6N-2F	85*	1946*	4.6*	235*	85*	2634*
1245	W. L. BELDEN	ST JAMES	CARPER	25-6N-2E,30-6N-3E	27	940	5.2*	73**	27*	480*
1250	M. L. BELDEN	ST JAMES NURTH	CARPER	19,30-6N-3E	218	2460	5.0*	177*	210*	2460*
1253	M-S-C- CURP	SMITH-STEPHENS	CYPRESS	31-6N-3E	350*	9568*	22.6*	623*	350*	9568*
1240	MAKATHUN OIL CO,	ST. JAMES 1-C	CYPRESS	36-6N-2E, 30,31-6N-3E	380	9924	44.0	1431	466	7215
1222	HENRY ROSENTHAL	WASHBURN	CYPRESS	30-6N-3E		1000		198*		1000*
1251	HENRY ROSENTHAL	WASHBURN	CARPER	30-6N-3E	300*	3474*	8.1*	97*	300*	1265*
1239	TEXACO, INC,	ST. JAMES WF	CYPRESS	25-6N-2E,30,31-6N-3E	556	7074	10.9	487	537	7080
STE MARIE, JASPER										
*1912	MURVIN OIL CO.	STE. MARIE	SPARK MTN	7-5N-11E		*		12*		*
*1905	J. R. RANDOLPH	STE. MARIE WF	MCCLOSKEY	5,6,7,8-5N-14W		1900		191		62
*1923	S AND M OIL CO,	STE MARIE U	MCCLOSKEY	1-5N-10E; 6-5N-11E		1620		76		527
1920	C. R. WINN	WAUE 2	MCCLOSKEY	5,6-5N-14W	5*	657*	0.1*	31*	5*	475*
SALOM SPRINGS C, CLAY, EFFINGHAM, JASPER										
585	ARGO OIL OP,	CAILTEAUX-MEULRY	CYPRESS	12-3N-7E	30*	600*	4.1*	94**	30*	600*
			SPARK MTN							
593	ABSMER OIL CO	OUFF	CYPRESS	12-3N-7E	20*	520*	2.4*	52**	20*	320*

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER				
FIELD, COUNTY					NO. OF WELLS					SOURCE TYPE			REMARKS	
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE ADO.	INJ.	PRD.	ACRES UNDER INJ.	SD = SAND	GR = GRAVEL		(F)=FRESH
ROLAND C, GALLATIN, WHITE														
CONTINUED														
4396	2332	10,0	23,9	77		02-62		1	2	80	PRODUCED (B)		*ESTIMATED SINCE 1970	
*4361	2200	15,0	18,0		31,0	06-62	01-68	4	4	80	PENN SD, PRD (B)		*ESTIMATED	
*4262	2620	20,0	14,0	16		10-56	12-58	2	2	40	TAR SPR, PRD (B)		*ESTIMATED, O.F.	
*4259	2530	11,6	18,8	256	35,8	07-58	12-66	7	10	170	PRODUCED (B)			
4375	1991	12,0			38,0	08-67		2	1	20	PALESTINE, PRD (B)		*ESTIMATED	
*4347	2685	5,0				07-66	10-68	2	2	40	PENN SAND (F)			
	2800	30,0						4	4	80				
*1446	2750	18,0	14,0	35	38,0	01-70	06-74	8	11	200	PENN SD (B)		*ESTIMATED	
4419	2590	8,0				04-69		2	3	50	PRODUCED (B)		*ESTIMATED	
	2750	8,0						2	3	50				
	2860	15,0						6	16	260				
*4407	2740	14,0			37,0	04-65	01-72	3	2	60	PRODUCED (B)			
4403	2600	10,0	15,2	38		01-67		7	10	230	TAR SPRING (B)		*ESTIMATED SINCE 1971	
	2800	15,0				03-69		2	6	80				
	2920	9,0				01-70		1	1	20				
*4418	2795	15,0				02-68	04-75	1	2	30	PRODUCED (B)		*NO PRODUCTION, 1975	
4422	2310	15,0				01-71		3	4	70	PRODUCED (B)		*EST +INCL PRIM PRD	
	2710	10,0						3	3	60				
4310	1960	6,0	18,7	150		10-68		2	1	30	FRESH, PRD (M)		*ESTIMATED SINCE 1973	
	2185	12,0	19,8	264				4	4	80				
	2620	5,0						1	1	20				
	2800	8,0	13,3	73				4	4	80				
	2900	8,0	12,0	70				1	1	20				
*1413	1695	14,0	19,0	225	37,2	03-53	04-73	16	17	336	PRODUCED (B)			
*4318	2935	20,0	14,2	4	35,6	12-61	07-69	8	8	260	SH SD, PRD (M)			
*4261	2500	25,0	17,6	152	37,0	12-50	08-66	20	24	440	CYPRESS, PRD (B)			
*322	2150	15,0				07-69		4	6	160	PENN SAND (B)		*ESTIMATED	
	2740	10,0						4	6	160				
	2870	15,0						6	8	180				
4214	1900	9,0				04-68		4	7	120	WELL, PRD (M)			
	2200	12,0						16	25	440				
	2250	7,0						2	6	90				
	2500	11,0						13	25	400				
	2750	14,0						21	32	550				
	2900	21,0						4	31	150				
4244	2620	14,0	14,0	34	37,0	02-66		7	12	200	PENN SD (B)			
	2725	9,0	11,0					5	12	180				
	2925	15,0	16,5	55				6	9	160				
	3000							1	1	40				
*4260	2628	15,0	17,0	106		08-55	08-67	38	31	1142	PENN SD, PRD (B)			
4385	2300	12,4				02-67*		16	14	300	PRODUCED (B)		*UNIT EFFECTIVE 7-66	
	2640	10,5	18,0	60				14	13	302				
	2790	10,0	17,0	50				5	5	100				
	2680	22,0						23	20	449				
	2900	10,0						14	13	278				
	2940	3,0						5	5	100				
	2970	3,0						19	5	200				
	3060	1,3						2	2	63				
*1435	2550	12,0	18,5	80	38,0	07-64	05-70	3	7	100	PENN SD, PRD (B)			
RUARK, LAWRENCE														
2267	1640	8,0	16,0	105	33,8	04-63		1	2	56	SH SD (F)		*ESTIMATED SINCE 1973	
2295	1503	7,0			33,0	4-77		1	1	40	SH,SD			
RUARK W, LAWRENCE														
2284	2250	17,0	16,0	100	38,0	08-65		20	15	370	TAR SPR, PRD (B)			
2293	2234	11,0				08-65	07-72	*	2	20			*EST. WINDOW IN ACTIVE WF	
*2290	2260	10,0				01-67	1-77	*	2	30			*ADJ ACTIVE WF, NO INJ *EST	
RURAL HILL N, HAMILTON														
*1515	2400	10,0	13,8	22	35,5	05-60	01-69	3	2	140	PRODUCED (B)			
ST FRANCISVILLE, LAWRENCE														
2263	1840	12,0			41,0	04-62		2	5	80	GRAV, PRD (M)		*NO DATA SINCE 1973	
*2278	1850	10,0	18,5	65		11-64	12-66	1	1	30	CYPRESS (B)			
*2228	1865	12,0	17,5	43	38,0	12-50	06-54	2	1	30	SH SD, PRD (M)			
ST. FRANCISVILLE E, LAWRENCE														
*2218	1740	27,0	17,0	40	36,5	11-57	11-72	6	9	160	RIVER GRAVEL (F)			
ST JACOB, MADISON														
2506	2340	20,0	6,0		35,6	11-65		4	7	230	SH SD, PRD (M)		*ESTIMATED SINCE 1972	
2503	2351	15,7	9,6	11	37,0	08-62		12	12	442	AUX VABES, PRD (B)			
2505	2320	18,0	9,6		36,0	11-65		2	5	180	AUX VABES, PRD (B)			
ST JAMES, FAYETTE														
1238	1560	16,0	20,0	150		07-63		3	6	50	PRODUCED (B)		*ESTIMATED SINCE 1971	
1245	3130	42,0			37,4	12-65		1	5	60	PRODUCED (B)		*INCL PRIM PRD SINCE 1-66 *E87	
1250	3100	20,0				01-66		1	6	180	PRODUCED (B)		*EST +INCL PRIM PRD	
1253	1600	10,0				01-61		3	16	175	PRODUCED (B)		*ESTIMATED	
1240	1600	22,0	18,0	230		08-63		11	26	588	PRODUCED (B)			
*1222	1595	20,0			34,0	03-54	12-62	3	9	100	PRODUCED (B)		*1959-1962 ESTIMATED	
1251	3090	49,0	11,0			04-68		1	5	90	PRODUCED (B)		*ESTIMATED 1978 DATA	
1239	1600	13,4	19,6	76	37,0	05-63		3	10	200	PRODUCED (B)			
STE MARIE, JASPER														
*1912	2910	10,0			36,2	11-61	12-65	2	6	160	CYPRESS (B)		*O.F., UNKNOWN; *DATA ESTIMATED	
*1905	2860	7,0				10-48	12-60	1	14	400	CYPRESS (B)			
*1923	2850	8,0	15,0	300	39,0	04-68	12-72	2	7	140	GRAVEL BED (F)			
1920	2822	5,0			37,0	01-66		1	2	60	RIVER GRAVEL (F)		*ESTIMATED	
SAILOR SPRING C, CLAY, EFFNGHAM, JASPER														
385	2600	12,0				6-58		1	5	60	PRODUCED (B)		*EST, +INCL PRIM SINCE 66	
	2970	8,0						1	2	30			*+INCL PRIM SINCE 66	
393	2625	12,0				6-55		1	4	50			*EST, +INCL PRIM SINCE 58	

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY	PROJECT NO., OPERATOR	PROJECT U & UNIT	PAY NAME	LOCATION S - T - R	WATER		OIL		WATER	
					INJECTION	PHOOCTION	PRODUCTION	PRODUCTION	TOTAL	CUM.
* ABO	* P.M.				1978	12/78	1978	12/78	1978	12/78
SAILOR SPRINGS C, CLAY, EFFNGHAM, JASPEK CONTINUED										
* 318	ASHLANU U AND R	E, FLOKA	MCCLOSKEY	16,21=3N=7E		2173		195		2605
* 377	ASHLANU U AND R	E N KECK LEASE	MCCLOSKEY	35=4N=7E		181*		39		217
345	BANGERT CASING	STASER U	CYPRESS	12,13,14=3N=7E	10*	2687*		4,6	192*	1094*
370	BANGERT CASING	ARMSTRONG U	CYPRESS	3,10=3N=7E		210*		1,4*	16*	139*
386	BANGERT CASING	OUFF	CYPRESS	12=3N=7E		640*		2,9*	58**	640*
1106	W.M. BECKER	ROSICLARE LIME UNIT	SPAK MTN	5=5N=7E, 32=6N=7E 13=5N=7E	156*	7552*		4,7*	971*	5252*
* 309	CITIES SERVICE	WYATT	AUX VASES SPAR MTN			871		40		406
359	WALTER OUNCAN	GOULD UNIT	CYPRESS	15=5N=7E	300*	4006*		16,1*	1248*	3590*
388	WALTER OUNCAN	M.O. LEWIS	CYPRESS	9=5N=7E	*	*		10,4*	198*	65*
1102	WALTER OUNCAN	ORINK	CYPRESS	34=6N=7E	60*	2624*		2,6*	540*	1867*
1116	WALTER OUNCAN	KLUTHE	CYPRESS	33=6N=7E	60*	850*		4,4*	302*	60*
374	J. C. FRANKLIN	NW CLAY	CYPRESS	2=3N=7E/35=4N=7E	50*	617*		3,0*	76*	50*
			AUX VASES							
389	J. C. FRANKLIN	UICKEY	CYPRESS	3=3N=7E	*	*		1,1**	50**	10*
1114	J. C. FRANKLIN	REINHART, STURTZUM	CYPRESS	22=6N=7E	72*	1792*		4,7*	193*	54*
* 310	GULF OIL CO	K. KECK	CYPRESS	26=4N=7E		65			11	37
* 339	GULF OIL CO	SAILOR SPRINGS UNIT	CYPRESS	26=4N=7E		315			49	70
1118	GULF OIL CO	F M KLUTHE	CYPRESS	33=6N=7E	*	*		39,7	179	67
328	C.O. MAWAN	SAILOR SPRINGS	TAP SPRINGS	26=4N=7E	30*	3234*		1,4*	172*	30*
			CYPRESS							
356	JET OIL CO.	BIBLE GROVE UNIT	CYPRESS	10=5N=7E	608	10784		13,0	1313	168
* 1107	JET OIL CO.	BLUNT LOMM U	MCCLOSKEY	17,20=6N=7E		970			102	655
329	JUNIPEK PETROLEUM C	N SAILOR SPRINGS	CYPRESS	2=4N=7E,35=5N=7E	47	4426		3,0	216	47
			AUX VASES							
			SPAK MTN							
1100	KEN-TEX	BIBLE GROVE	SPAK MTN	28,29=6N=7E	38*	4708*		2,1*	442*	36*
			SPAK MTN							
			MC CLUSKY							
* 1103	KINGWOOD OIL CO.	NAULER AND JUEKGENS	CYPRESS	28=6N=7E		1634			101	888
			SPAK MTN							
319	LAUD PETROLEUM	SAILOR SPRINGS U	CYPRESS	13=5N=7E	106	2530		5,6	164	38
367	LAUD PETROLEUM	A.J. LEWIS	CYPRESS	9=5N=7E	*	*		11,7*	204*	70*
1117	LAUD PETROLEUM	J MADRE	CYPRESS	33=6N=7E	*	*		5,2*	195*	
1109	HEKMAN LOEB	BIBLE GROVE U, 60, U.	CYPRESS	22,27,28,30=6N=7E	300*	7625*		7,2*	1196*	240*
352	MAC OIL COMPANY	BIBLE WF UNIT	CYPRESS	9=4N=7E	73	1877		6,6	290	73
391	MAC OIL COMPANY	CARTER	CYPRESS	24=5N=7E	45*	945*		3,0**	62**	49**
* 312	M. C. MCBRIDE	GOLDSBY=UICKEY	CYPRESS	34=4N=7E		622			31	142
* 313	M. C. MCBRIDE	UUFF=KECK	CYPRESS	26,35=4N=7E		1845			140	681
* 314	M. C. MCBRIDE	BOHMWELL	CYPRESS	14=3N=7E		96			5	
* 344	M. C. MCBRIDE	DEHART	CYPRESS	9,10=3N=7E		989*			81*	703*
364	M. C. MCBRIDE	GOLDSBY=HILSON	CYPRESS	34=4N=7E	252	3163		14,2	184	271
			AUX VASES							
375	M. C. MCBRIDE	PATTON=SMITH U	CYPRESS	11=3N=7E	43	281		2,4	30	50
* 311	MCCOLM, KINCAID	SAILOR SPRINGS	CYPRESS	14,15,23=4N=7E		6979			1023	3203
* 336	MCCOLM, KINCAID	NORTH HOUSIER UNIT	CYPRESS	10=4N=7E		2174			465	1221
355	MCCOLM, KINCAID	BIBLE GROVE WF UNIT	CYPRESS	15,22=5N=7E	234	5408*		16,1	1160*	211
* 382	MCCOLM, KINCAID	HAROLD	CYPRESS	10=5N=7E		300*			36*	300*
383	MCCOLM, KINCAID	CHLORS=HALL=HARD=HARM	CYPRESS	9,10=5N=7E	51	401*		9,9	50*	51
* 366	MCKINNEY, FUNDERB	SPAPLIN	CYPRESS	3=5N=7E		174			46	136
* 340	MOBIL OIL CORP.	NORTH HOUSIER U	CYPRESS	15=4N=7E		1608			274	864
321	BERNARDU PODOLSKY	BUCK CREEK U	MCCLOSKEY	8,9,16,17=3N=7E	359	4116		10,5	216	371
* 333	BERNARDU PODOLSKY	C. BUNKER	MCCLOSKEY	13=3N=7E		231			44	182
371	BERNARDU PODOLSKY	E FLUPA	MCCLOSKEY	9=3N=7E	65	985		1,2	16	50*
* 343	KAY=UBER OIL CO.	HASTINGS	CYPRESS	23=4N=7E		116*			7*	
368	C U NEED	MCCOLLUM	CYPRESS	9,16=4N=7E	60*	1046*		2,9*	100*	60*
369	E B REYNOLDS EST.	STURCK	CYPRESS	5=5N=7E	95*	1118*		5,1*	87*	1095*
379	ROBERTSON OIL CO.	BATEMAN, GRUUSE, WURKMN	CYPRESS	24,25=5N=7E	25*	65*		10,0*	30*	25*
361	HUBERT RUSE	BATEMAN UNIT	CYPRESS	25,26,35=5N=7E	90*	2291*		3,1*	107*	90*
350	SHARPSPEAKE UFL	STANFORD UNIT	SPAK MTN	22,27=3N=7E	1	443		10*	29	1
* 315	SHULMAN BROTHERS	COLCLASURE AND HAROY	CYPRESS	10=5N=7E		1177			28	496
* 316	SHULMAN BROTHERS	NEFF	MCCLOSKEY	16=3N=7E		99			3	
* 325	SHULMAN BROTHERS	LEWIS=CYPRESS	CYPRESS	13=5N=7E		84			5	84
* 367	SO. TRIANGLE CO.	SAILOR SPRINGS	CYPRESS	11,12,13,14=4N=7E		510			10	201
360	TEXACO, INL.	NORTH BIBLE GROVE U	CYPRESS	3,4,5,8,9,10=5N=7E, 32=6N=7E	3139	41540		55,2	3716	2643
365	TEXACO, INC.	M W LANOWEHR	CYPRESS	9=5N=7E	*	1988*		6,5	108	49
392	TEXACO, INC.	MASCHER	CYPRESS	9=5N=7E	*	*		7,0*	98*	100*
1115	M. O. WILSON II	KLUTHE=STORTZUM=LAKE	CYPRESS	15,22=6N=7E	65*	545*		10,5*	236*	65*
SALEM C, JEFFERSON, MAPION										
2615	T. L. CLARK	PHELPS=WALNUT HILL U.	SPAR MTN	26,33=1N=2E	20*	2767*		2,2*	229*	20*
* 2612	EGU OIL CO	SEBASTIAN	BENOIST	21=1N=2E		319**			33**	319**
2624	EGU OIL CO	LUTTKELL	SPAR MTN	15=1N=2E	15*	173**		1,5*	70**	15*
2633	EGU OIL CO	BURKE	SPAR MTN	31=1N=2E	20*	146**		2,7*	17**	20*
* 2006	EXXON	DIX R. AND PM.	BENOIST	3,4,9,10,15,16=1S=2E	1118	31382		137,6	15281	929
2010	EXXON	SALEM CONS	AUX VASES	3,4,10=1S=2E	682	29815		22,3	1199	622
* 2604	TEXACO, INC.	ROSICLARE SAND UNIT	SPAR MTN	15=1N=2E		1913			96	207
2605	TEXACO, INC.	SALEM UNIT	BENOIST	T1,2N=R2E	4195	532245		189,6	42229	12424
2606	TEXACO, INC.	SALEM UNIT	BENOIST	T1,2N=R2E	46064	401440		1146,3	14138	43570
2607	TEXACO, INL.	SALEM UNIT	MCCLOSKEY	T1,2N=R2E	12021	460592		42,7	23542	11265
2608	TEXACO, INC.	SALEM UNIT	AUX VASES	T1,2N=R2E	28669	548621		341,6	33961	17254
2636	TEXACO, INC.	SALEM U	SALEM	T1,2N=R2E	3207	23972		74,8	1108	1410
* 2637	TEXACO, INL.	SALEM U	TRENTUN	1=2N=2E		806			4	15
SAMSVILLE N, EDWARDS										
* 1010	ASHLANU U AND R	WEST SALEM	RETHEL	30=1N=14W		319			7	
SCHNELL, RICHLAND										
3439	UNION OIL CALIF.	SCHNELL CONSUL	MCCLOSKEY	7=2N=9E	1	858		0,9	41	1
SEMINARY, RICHLAND										
* 3410	R. JOHNSON	SEMINARY	MCCLOSKEY	17=2N=10F		889			25	290
LESSER C, FRANKLIN										
1343	M. A. BALOKIDGE	GALLOWAY	AUX VASES	20=5S=2E	100*	715*		8,6*	136*	100*
1318	W.M. BECKER	OLD BEN COAL FLOOD	AUX VASES	13,14,23,24=6S=1E	330*	7502*		16,1*	751*	330*

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78					INJECTION WATER			REMARKS	
FIELD, COUNTY					NU. OF WELLS		SOURCE			TYPE				
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	PUR (X)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE 2ND INJ.	ACRES UNDR INJ.	SH = SAND GM = GRAVEL PM = PRODUCED SM = SHALLOW	F = FRESH (b) = BRINE (M) = MIXED				
SAILOR SPRINGS C, CLAY, EFFINGHAM, JASPER														
CONTINUED														
* 318	2450	6.0	16.0	800	36.7	11-56	12-66	3	9	160				
377	2961	10.0			37.0	12-72		1	4	80	PRODUCED (B)			
348	2620	20.0	16.0	20		06-65		6	4	100	PENN SU, PHOD (R)		*ESTIMATED SINCE 1977	
370	2600	10.0				07-71		2	3	110	PENN SU, PHOD (R)		*INJ CURT, 5-74 TO 5-77; EST	
386	2625	15.0				7-55		2	4	60	PRODUCED (A)		*EST. INCL. PRIM. SINCE 55	
1106	2600	10.0			38.5	06-61		6	9	550	GRAV, PROD (M)		*EST. NOV. AND DEC. DATA FOR 78	
* 309	2770	9.2	17.0	50	39.0	09-53	12-61	2	2	40	PENN SU, PHOD (B)			
	2845	10.0				01-61	01-62	1	1	20				
359	2500	15.0	16.0	130		01-66		5	9	130	PENN SU (B)		*ESTIMATED SINCE 1973	
388	2525	12.0				1-65*		+	8	80	PRODUCED (B)		*EST. + ADJ TO ACTIVE WF 3458363	
1102	2530	18.0				12-57		2	5	90	PENN SU, PHOD (B)		*ESTIMATED SINCE 1973	
1116	2520	15.0				05-69		1	5	60	PRODUCED (B)		*ESTIMATED SINCE 1973	
374	2600	12.0				12-70		2	4	80	PRODUCED (B)		*ESTIMATED	
	2840	12.0						2	4	80				
389	2590	10.0				01-36*		+	3*	30*	+		*EST. + ADJ. TO 3648312 SINCE 55	
1114	2560	6.0				06-67		4*	7*	130*	PRODUCED (b)		*ESTIMATED	
* 310	2602	10.0				09-57	03-60	1	1	20	PRODUCED (B)			
* 339	2600	20.0	16.0	10	37.6	06-63	07-66	3	3	60	PRODUCED (B)			
1118	2510	10.0				01-66		0	5	40			*AFFECTED BY PROJ. 360	
328	2300	7.0	20.0		32.7	04-58		1	10	150	PRODUCED (R)		*ESTIMATED SINCE 1971	
	2600	7.0	19.0					1	7	100				
356	2440	20.0	20.0	70	38.0	01-66*		12	13	430	PENN SAND (M)			
*1107	2680	5.0				11-62	06-69	3	5	80	LAKE, PROD (M)			
329	2560	8.0			36.0	11-56		3	4	100	PENN SU, PHOD (B)			
	2800	15.0						3	2	80				
	2880	6.0						4	3	140				
1100	2850	5.0			37.0	07-54		1	1	40	CYP, T, S, PROD (B)		*ESTIMATED SINCE 1971	
	2870	4.0						3	3	180				
*1103	2856	9.0				06-55	07-65	1	1	20	CYPRESS, PHOD (B)			
	2863	6.0						3	3	100				
319	2600	12.0			36.5	07-67		2	9	320	CYPRESS SD (B)			
387	2475	25.0				1-67*		+	6	70	PRODUCED (B)		*EST. + ADJ. TO ACTIVE WF SINCE 67	
1117	2500	25.0				06-68		+	3	60			*ADJ. TO ACTIVE WF +EST	
1109	2520	7.0			38.0	01-65		12	11	385	SM SU, PHOD (M)		*ESTIMATED 1977 DATA	
352	2600	20.0	18.0	24	37.7	09-63		3	9	160	PENN SU, PHOD (B)			
391	2540	9.0				7-64		1	2	30	PRODUCED (B)		*EST. + INCL PRIM SINCE 64	
* 312	2580	15.0	15.4	17	38.0	09-55	10-64	1	2	50	PRODUCED (b)			
* 313	2600	12.0	19.0	60	38.0	07-53	09-66	2	5	120	PRODUCED (B)			
* 314	2650	10.0	19.0	20	36.0	08-56	12-59	1	1	20	PRODUCED (b)			
* 344	2610	15.0	17.5	50		11-64	12-77	1	3	60	PENN SU, PHOD (B)		*ESTIMATED 1977 DATA	
364	2585	12.0				01-69		10	12	160	PENN SU, PHOD (B)			
	2830	6.0						3	3	60				
375	2575	10.0			37.5	05-72		3	3	90	PENN SU, PHOD (B)			
* 311	2600	15.1	17.3	48	37.0	07-54	01-69	11	18	350	CYP SU, PHOD (B)			
* 336	2580	15.0	17.0	50	36.0	12-62	06-70	10	12	220	PENN, PROD (B)			
355	2500	18.0	18.0	80		12-65		7	13	200	PENN SU, PHOD (B)		*ESTIMATED	
* 382	2475	10.0				1-66*	8-75	1	1	10			*EST. WINDOW IN PROJ. 356	
383	2580	18.0				07-75		1	3	50	PRODUCED (B)		*CUMS ADJUSTED	
* 366	2510	8.0				07-69	1-76	1	1	60	PRODUCED (B)			
* 340	2600	12.0	18.7	40	37.0	08-62	12-68	10	5	140	PENN SU (R)			
321	2980	7.8			37.7	12-70		3	13	340	CYPRESS (B)			
* 333	3000	6.0	10.0	500	36.0	09-61	04-66	1	3	40	PRODUCED (B)			
371	2950	7.0			35.0	02-71		1	4	150	PURCHASED (M)		*ESTIMATED	
* 343	2600	16.0	17.0	56	37.4	10-63	12-66	1	1	40	PENN SU, PHOD (B)		*1969-1966 ESTIMATED	
368	2620	15.0				06-69		1	6	70	PRODUCED (R)		*ESTIMATED	
369	2500	15.0				06-69		2	4	60	PRODUCED (B)		*ESTIMATED	
379	2575	13.0				09-75		1	3	40	LAKE AND PRODUCED		*ESTIMATED	
361	2570	11.0	17.0	31		01-66		2	3	240	PRODUCED (B)		*ESTIMATED	
350	2990	10.0				12-65		2	2	40	SM SU, PROD (M)			
* 315	2620	15.0	16.4	16	36.0	07-57	06-65	1	1	80	PRODUCED (B)			
* 316	3000	5.0			36.0	01-57	12-59	2	1	80	TAR SPRINGS (B)			
* 325	2510	8.0			36.0	01-66	09-67	1	1	30	PRODUCED (b)			
* 367	2620	12.0	17.2	75	36.0	09-70	12-72	5	6	120	PENN SU (R)			
360	2475	30.0	16.3	67	37.0	07-66		29	28	1320	PENN SU (B)			
365	2450	10.0	16.0	113	37.0	01-69		1	2	80	PRODUCED (b)		*INJ. SUSP. 10-76	
392	2480	24.0				1-67*		+	2	30	+		*EST. + ADJ. TO 360 SINCE 66	
1115	2580	12.0	19.5	190	38.0	04-69		2	6	90	PRODUCED (b)		*ESTIMATED SINCE 1976	
SALEM C, JEFFERSON, MARION														
2618	2102	7.0	12.0		39.2	06-63		4	11	260	PENN SU, PHOD (B)		*ESTIMATED SINCE 1974	
2612	1927	8.0			34.6	01-59	01-76	1	2	10	PRODUCED (B)		*ESTIMATED; +INACTIVE 1975	
2624	2100	15.0				01-67		1	2	30	PRODUCED (B)		*ESTIMATED; +INACTIVE 1975	
2633	2110	8.0				01-71		1	4	40	PRODUCED (B)		*ESTIMATED; +INACTIVE 1975	
*2006	1950	19.0	16.7	130	38.0	01-48		4	30	2078	PENN SU, PHOD (B)			
2010	2000	16.0	14.0	26	38.0	08-60		27	22	1090	PENN SU, PHOD (B)			
*2604	2093	14.0	11.5	43	36.5	04-50	08-62	3	5	100	PRODUCED (B)			
2605	1770	28.0	17.9	150	37.0	10-50		31	56	8247	LAKE, PROD (M)			
2606	3400	19.0	16.8	300	36.5	10-50		57	72	5414	UPPER SU, PROD (B)			
2607	1950	20.0	15.8	700	37.0	04-51		62	67	7712	LAKE, PROD (M)			
2608	1625	26.0	16.3	28	37.0	10-50		120	82	4881	LAKE, PROD (M)			
2636	2175	25.0	10.5	35	37.5	01-71		14	12	840	PROD, FRESH (M)			
*2637	4520	49.0	7.2	27	40.7	09-67	01-74	3	2	160	PROD, FRESH (M)			
SAMSVILLE N, EDWARDS														
*1010	2930	5.0				09-54	02-59	1	1	20	PRODUCED (B)			
SCHNELL, RICHLAND														
3439	2986	15.0			39.5	08-68		1	1	103	PRODUCED (B)			
SEMINARY, RICHLAND														
*3410	3000	8.0			36.0	02-54	04-57	2	4	120	CYPRESS (B)			
SESSEX C, FRANKLIN														
1343	2670	12.0				01-70		1	7	80	PRODUCED (b)		*ESTIMATED	
1318	2600	18.0			40.0	07-64		8	18	410	PENN SU, PHOD (B)		*ESTIMATED SINCE 1973	

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO + = P.M. # = ABO & P.M.		PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
					TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
SESSER C, FRANKLIN CONTINUED										
1318	WM, BECKER		CLEAR CREEK							
1325	FARRAR OIL CO.	SESSER UNIT	AUX VASES	26,35-55=1E/2=6S-1E	100*	2324*	18.7*	94*	100*	1025*
1330	FARRAR OIL CO.	CHRISTOPHER U	RENAULT	24,25-6S-1E1	30*	535*	7.6*	81*	30*	219*
*1306	WILL I LEWIS EST	SESSER U	AUX VASES	19,30=6S-2E		1574		173		75
1339	JOE SIMPKINS OIL	SOUTH SESSER UNIT	RENAULT	17,19,20=5S-2E	110*	532*	5.8*	76*	110*	417*
SHATTUC, CLINTON										
410	T. M. CONREY, JR	SHATTUC WF	CYPRESS	27,28-2N=1W	170*	1344*	8.7*	149*	170*	839*
SHAWNEETOWN N, GALLATIN										
*1416	SUN OIL CO.	L. MILLER	AUX VASES	7-9S=10E		357		48		163
SIGGINS, CLARK, CUMBERLAND										
* 216	ACME CASING	UNION GROUP	2ND SIGGINS	18=10N=11E		23839		2721		21092
700	BELL BROTHERS	FLOOD 1	2ND SIGGINS	13=10N=10E	65	1082	2.3	28U	65	1096
* 701	COCHONOUR, CLARK	VEVAY PARK	2ND SIGGINS	25=10N=10E		255		2		103
702	MARATHON OIL CO.	SIGGINS	2ND SIGGINS	13,14=10N=10E, 7,11,12=10N=11E	1910	107164	72.9	13279	2381	25230*
* 215	UMER M. UOLE	SIGGINS	SIGGINS	7=10N=14W 7=10N=11E		50*		9*		50*
707	CLIFFORD A. PERRY	REEDER	2ND SIGGINS	24=10N=10E	10*	112*	1.2*	13*	10*	112*
SORENTO C, BONO										
7	JACK COLE	YOUNG & VONBERG U.	PENN	32=6N=4W	9*	249*	0.6*	11*	9*	94*
* 5	JOE A. DULL	SORENTO SOUTH	LINGLE	29=6N=4W		88		4		57*
STAUNTON W, MACGUPIN										
2400	MAY E. MUELL	UEHNE	PENN	16=7N=7W	*	16*	*	1*	*	2*
STEWARSON, SHELBY										
3800	W. L. BELDEN	CRAFFEE-HAMPER-WABASH	AUX VASES	27=10N=5E	99	2596	10.6*	402**	99*	2596*
3801	UDNALO W. GESELL	HORT MURAN	AUX VASES	27=10N=5E	94	2109*	2.1	157*	94	1599*
STORMS C, WHITE										
4431	ATLAS DRILLING	MS & GP MANNA	TAR SPRIN	28=5S=10E		1000		58		1000*
4204	C. E. BREHM	Red U	WALTEBSBURG	12,13=6S=9E	281	4195	13.7	514		
4438	C. E. BREHM	C.S. AUSTIN	WALTEBSBURG	22=6S=9E	*	*	32.2*	291*	48U*	556U*
4241	JACK BROOKOVER	W. S. MANNA	PENN	26=5S=10E	31	516	1.7	33	31	451
4263	JIM HALEY	STURMS POOL UNIT	WALTEBSBURG	2,11=1S,22=24=6S=9E	575*	126902**	22.9*	3086*	575*	77784**
4457	JIM HALEY	ARMSTRONG&MALL=MYEKS	AUX VASES	WALTEBSBURG	*	*	6.1*	185*	33*	1035*
*4271	MABEL PET, CORP.	STORMS	WALTEBSBURG	22=6S=9E		90				
4451	MURVIN OIL CO.	FERGUSON	BIEML	32=5S=10E	*	*	1.6*	104*	1U*	810*
4450	U H AND F OIL CO	LAND	CLONE	32=5S=10E/15=6S=10E	50*	65U*	4.7*	125*	5U*	65U*
4248	UENNIS PAINE	ALURIDGE	WALTEBSBURG	12=6S=9E	110*	4516*	3.0*	323*		
4380	UENNIS PAINE	TRAINOR	AUX VASES	TAR SPRINGS	*	68U**	6.2*	96*	*	680**
4449	UENNIS PAINE	FECMTER=HICE	CLONE	22=5S=10E	8*	66*	0.4*	11*	8*	68*
*4296	BEHNRU PODDLSKY	MCQUEEN	PALESTINE	32=5S=10E		1873		21U		721
4240	QUASAR, INC.	POHERDY	AUX VASES	WALTEBSBURG	15*	476*	0.9*	28*	15*	203*
4415	SO. TRIANGLE CO.	STURMS UNIT (WILSON)	WALTERSBURG	22=6S=9E	600*	5689*	30.1*	584*	600*	2369*
4234	SUN OIL CO.	S STORMS EXTENSION	WALTEBSBURG	12,13=6S=9E	728	11510*	26.6*	62*	669	8764*
4399	SUN OIL CO.	N STORMS EXT CUOP	WALTEBSBURG	1,12=6S=9E/16=6S=10E	1237	19213*	28.8	1010*	1296	16966*
4295	TAMARACK PET.	MANNA	CLONE	32=5S=10E		1754		322		815*
*4327	TAMARACK PET.	CALVERT	CLONE	32=5S=10E		402		2		19
4366	TAMARACK PET.	MANNA "A"	BIEML	29=5S=10E	38	868	1.2	76	44	703
*4372	TAMARACK PET.	MANNA	BIEML	32=5S=10E		424		*		*
4283	TANTAN OIL CO.	FERGUSON=RUOOLPH	PENN	22=5S=10E	15*	457*	0.7*	15*	15*	223*
STRINGTOWN, RICHLAND										
*3411	N. C. DAVIES	STRINGTOWN	STE GEN	31=5N=14W		257		19		289
*3412	MELMERICH, PAYNE	STRINGTOWN WF	STE GEN	31=5N=14W		171		5		57
*3413	SKELLY OIL CO.	PETER VON ALMEN	STE GEN	31=5N=14W		324		59		242
SUMPTER E, WHITE										
4361	DEE DRILLING	BONO=HENDERSON	OMARA	20,29=4S=10E	*	1167**	*	6U**	*	652**
4420	UEE DRILLING	W CROSSVILLE S UNIT	OMARA	20,29,30=4S=10E	70*	302U*	3.4*	155**	70*	1580*
4408	EAGLE SUPPLY CO	CAMI	AUX VASES	12=5S=9E		787		292		336*
4231	T. W. GEORGE EST.	SUMPTER E	SPAR MTN	29,31,32=4S=10E/ 5,6=5S=10E	60	4041	11.0	326	51	1244
4425	HERTZING PROD. CORP.	CHERRY SHOALS UNIT	SPAR MTN	5S=10E						
4424	BLAGTEN PRODUCING	W CROSSVILLE U	CYPRESS	17,20,21=4S=10E	40*	990*	1.9*	50**	40*	700*
			OMARA	20,29=4S=10E	200*	3600*	9.1*	193**	200*	2155*
SUMPTER N, WHITE										
4221	SHAKESPEARE OIL	SUMPTER NORTH U	AUX VASES	20,29=4S=9E	154	2228	4.7	148	96	804
4423	WARRIOR OIL CO.	MORRILL	AUX VASES	21=4S=9E	54	207	6.4	92	54	207
SUMPTER S, WHITE										
4430	FRMEKS PLTR COUP	SOUTH SUMPTER	TAR SPRINGS	34,35=4S=9E/2,3=5S=9E	8U	498	17.6	137	8U*	219*
4437	W. C. HCBRIDE	JOSEPH JACOBS	TAR SPRINGS	34=4S=9E	7	288	1.8	18	17	169
*4345	SO. TRIANGLE CO.	SUMPTER SOUTH UNIT	AUX VASES	2,3=5S=9E		859		81		371
*4346	SO. TRIANGLE CO.	SUMPTER NORTH UNIT	AUX VASES	34,35=4S=9E		642		44		214
TAMARUA, PERRY										
3100	FRMEKS PLTR COUP	TAMARUA	CYPRESS	14,23=4S=1W	70*	2828*	3.3	120*	70*	2074*

RESERVOIR STATISTICS (AVG. VALUE)					DEVELOPMENT AS OF 12-31-78				INJECTION WATER			REMARKS
FIELD, COUNTY		NET PAY (FT)	POR (%)	PERM (MD)	OIL GRAV (API)	DATE FIRST INJ.	DATE ABO.	NO. OF WELLS INJ. PROD.	ACRES UNDER INJ.	SOURCE SU = SAND GR = GRAVEL PROD = PRODUCED SH = SHALLOW	TYPE (F) = FRESH (B) = BRINE (M) = MIXED	
PROJ. NO.	DEPTH (FT)											
BESSEMER C, FRANKLIN												
CONTINUED												
1318	4375	20.0			40.0			1 2	60			
1325	2600	15.0	18.0	10	38.0	05-65		6 14	360	CYPRESS, PROD (B)		*ESTIMATED SINCE 1977
1330	2570	10.0						1 9	60	CTTY WATER (F)		*ESTIMATED SINCE 1976
	2600	6.0						3 5	80			
*1304	2690	5.0			39.4	08-58	01-70	6 6	220	LAKE, PROD (M)		
1339	2610	15.0				10-74		2 4	140	PRODUCED (B)		*ESTIMATED
SHATTUCK, CLINTON												
410	1285	6.0			34.6	07-59		3 4	110	TAR SPR, PROD (B)		*ESTIMATED
	1436	9.0			35.0	01-64		2 2	40			
SHAWNEETOWN N, GALLATIN												
*1416	2750	15.0			37.0	11-59	09-66	2 1	30	PENN SU (B)		
SIGGINS, CLARK, CUMBERLAND												
* 216	404	31.0	18.0	51	36.0	12-46	01-72	92 84	459	GRAV, PROD (M)		
700	320	14.9	18.9	73	35.9	09-50		9 15	80	SURFACE (M)		
* 701	600	16.0	20.3	349	30.1	12-50	12-56	2 4	14	LAKE, PROD (M)		
702	400	32.0	17.5	56	36.4	06-42		454 471	2019	GRAV, PROD (F,B)		*SINCE 1970
* 215	450	36.0	21.5	40	33.8	04-52	01-74	30 27	135	PRODUCED (B)		*ESTIMATED SINCE 1965
707	520	30.0				09-68		1 4	90	WELL, PROD (M)		*ESTIMATED
SORENTO C, BONO												
7	592	14.0	17.6	175	33.0	11-69		4 2	70	PENN SAND (B)		*ESTIMATED SINCE 1972
* 5	1850	4.5	12.2	50	38.0	10-62	10-64	1 3	50	PENN SU, PROD (B)		*1964 DATA ESTIMATED
STAUNTON W, MACCOPPIN												
2400	490	10.0			32.0	05-60		2 7	40	PRODUCED (B)		*NO DATA SINCE 1962
STEWARTSON, SHELBY												
3800	1750	20.0				09-59		1 17	160	PRODUCED (B)		*EST +INCL PRIM PROD
3801	1950	9.0				06-62		3 4	70	PRODUCED (B)		*ESTIMATED
	2035	10.0						2 2	40			
STURMS C, WHITE												
*4431	2350	15.0				06-58	12-71	2 8	100	PRODUCED (B)		*ESTIMATED
4204	2250	20.0				03-66		5 5	100	PENN SU, PROD (B)		
4438	2260	14.0				10-67		4 4	40			*ADJ TO ACTIVE WF, *ESTIMATED
4241	1319	9.0			28.0	04-63		1 1	20	TAR SPR, PROD (B)		
4263	2240	10.0	19.0	250	34.0	03-56		73 41	1100	RIVER, PROD (M)		*ESTIMATED/ *ADJUSTED
	2980	15.0				01-64		17 18	350			
4457	2410					1-66*		+	2	+		*EST, *ADJ, TO 4399 SINCE 66
*4271	2240	15.0				07-51	06-53	1 2	40	PENN SU, PROD (B)		*EST, *ADJ, TO PROJS, 4372&4395
4451	1650	4.0						+	3	+		
	2100	11.0						+	3	+		
4450	2100	15.0				6-67		1 3	50	PRODUCED (B)		*EST, *INCL PRIM SINCE 1958
4248	2275	15.0	18.4	173		06-64		3 3	75	PURCHASED (M)		*ESTIMATED SINCE 1973
	2990	16.0	17.1	47				3 4	60			
4380	2250	12.0				03-69		1 7	90	PRODUCED (B)		*DATA EST; *INJECTION SUSP 1975
4449	2085	6.0				6-70		1 3	40	PRODUCED (B)		*ESTIMATED
	2155	6.0						1 4	50			
*4296	2550	6.0				06-60	01-66	5 5	100	SM SU, PROD (M)		
	2580	12.0						6 7	150			
4240	2750	12.0	16.5	54	36.0	06-66		4 2	80	SM SU, PROD (M)		*ESTIMATED
4415	2250	22.0	19.5	225	34.8	07-67		5 12	200	PENN SU, PROD (M)		*ESTIMATED SINCE 1973
4234	2250	19.0				07-66		9 11	280	RIVER GRAV, PROD (M)		*ESTIMATED
4344	2290	20.0	20.0	200	38.0	06-64		14 15	300	PENN SU, PROD (M)		*ESTIMATED
	2590	10.0	18.5	100				2 2	40			
	2980	15.0	18.0	30				13 16	280			
*4295	2100	10.0	18.0	190	34.8	08-60	01-71	3 3	120	PENN SU, PROD (B)		*INCL 4372
*4327	2100	10.0	18.0	150		08-60	12-64	1 1	20	SM SU, PROD (M)		
4366	1830	7.0	18.6	170		02-68		3 3	70	PRODUCED (B)		
*4372	1826	14.0	20.1	289	34.8	12-62	09-71	3 3	40	SM SU, PROD (M)		*INCL WITH 4295
4285	1480	27.0	20.0	200	34.0	12-68		3 1	40	SM SU (F)		*ESTIMATED
STRINGTOWN, RICHLAND												
*3411	3000	10.0	18.0			12-53	09-58	2 3	80	TAR SPRINGS (B)		
*3412	3026	7.0			38.0	10-54	12-57	2 2	70	CYPRESS, PROD (B)		
*3413	3002	12.0			36.0	12-53	12-63	1 2	80	PENN SU, PROD (B)		
SUMPTER E, WHITE												
4361	3140	14.0				02-66		3 7	70	PENN SU, PROD (B)		*ESTIMATED/ *INJ. SUSP. 1978
4420	3150	11.0				04-70		3 12	220	GRAVEL & PROD (M)		*EST +INCL PRIM
*4408	3090	15.0				07-65	01-76	3 3	50	RIVER GRAV, PROD (M)		*INJ TERMINATED 1974; *ESTIMATED
	3165	8.0					12-66	1 1	20			
4231	3020	20.0	19.7	57	37.0	10-65		4 12	395	RIVER GRAV, PROD (M)		
	3100	10.0	10.5	15	37.0			4 7	140			
4425	2830	25.0				04-67		2 10	150	SM SU, PROD (M)		*EST +INCL PRIM
4424	3170	10.0				06-67		3 4	140	PENN SU, PROD (B)		*EST +INCL PRIM PROD
SUMPTER N, WHITE												
4221	3170	10.3				06-66		5 7	180	SM SU, PROD (M)		
4423	3175	20.0				11-58		1 3	40	PRODUCED (B)		
SUMPTER S, WHITE												
4430	2550	6.5	15.4	55	34.7	11-72		3 8	80	ONE WATER SUP WELL (F)		*ESTIMATED
4437	2550	10.0				3-74		2 1	20	PRODUCED (B)		
*4345	3240	10.7	19.0	55	36.2	09-63	07-70	5 4	100	SM SU, PROD (M)		
*4346	3240	11.7	19.0	55	36.2	10-63	07-70	4 3	70	PENN SU (F)		
TAMARCA, PERRY												
3100	1140	10.0	24.3	349	31.5	12-61		3 4	180	POND, PROD (M)		*ESTIMATED SINCE 1973

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY PROJECT NO., OPERATOR * = ABO + = P.M. # = ABO & P.M.	PROJECT U = UNIT	PAY NAME	LOCATION S = T = R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION	
				TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78	TOTAL 1978	CUM. 12/78
TAMARCA S, PERRY 3101 N. A. BALDRIDGE	BAGWELL	CYPRESS	28-4S-1W	50*	724*	2.5*	43*	50*	724*
THACKERAY, HAMILTON 1551 MARATHON OIL CO. 1570 ROYALCO, INC.	THACKERAY S-A W THACKERAY UNIT	AUX VASES AUX VASES	10,11,15-5S-7E 9,16-5S-7E	159 350*	13139 2701*	2.0 17.5*	968 913*	199 350*	8608 1989*
THOMPSONVILLE E, FRANKLIN #1302 C. E. BREHM	E THOMPSONVILLE	AUX VASES	12-7S-4E, 17-7S-5E		362		156		1417
THOMPSONVILLE N, FRANKLIN #1305 BARBARA BRAGASSA 1331 DUNCAN LSE+ROY #1304 FAIRFIELD SALV. #1303 HUMBLE O AND R	THOMPSONVILLE U N THOMPSONVILLE U THOMPSONVILLE U N THOMPSONVILLE U	AUX VASES AUX VASES AUX VASES AUX VASES	10,15-7S-4E 10-7S-4E 3,9,10-7S-4E 3,9,10-7S-4E		1032* 840 1786 2211		125* 113 381 365		80* 360 600
TONTI, MARION 2638 LEIDERMAN ESTATE 2621 TEXACO, INC.	TONTI FLOOD PROJ TONTI UNIT	MCCLOSKEY BENOIST AUX VASES SPAR MTN MCCLOSKEY	33-3N-2E 4-2N-2E	150* 1769	1860* 15338	20.0* 53.0	224* 643	150* 2379	3072* 23386
2622 TEXACO, INC. 2609 SAMUEL C. WILSON	M. McMACKIN BRANCH	SPAR MTN BENOIST MCCLOSKEY	34-3N-2E 4-2N-2E		109 4966		1 207**		109 3297*
TRUMBULL C, WHITE 4362 ABBMER OIL CO 4297 AUTUMN OIL CO 4301 AUTUMN OIL CO 4367 COY OIL CO	TRUMBULL H. SIMMONS SEVEN MILE FLATS TRUMBULL U	CYPRESS CYPRESS OMAHA AUX VASES OMAHA	24-5S-9E, 18-5S-9E 25,26-5S-8E 23,24-5S-8E 13,14,23-5S-9E	20* 85* 12* 460*	3438* 861* 772* 4657*	1.6* 5.4* 0.4* 50.8*	275* 66* 47* 500*	20* 85* 12* 460*	396* 830* 591* 2447*
4429 UEL DRILLING 4336 FEAR AND DUNCAN	460-SOUTH MOORE-NIBLING UNIT	AUX VASES MCCLOSKEY MCCLOSKEY	14-5S-8E 7-9S-9E	100* *	698* *	3.2* 0.6*	42* 34*	100* 8*	698* 420*
TRUMBULL N, WHITE #4406 SHULMAN BROTHERS	STUCKE	AUX VASES MCCLOSKEY	24-4S-9E		36		1		5
VALIEK, FRANKLIN 1324 EBER MCKENDRUE	RMEN-REA	AUX VASES	8-6S-2E	50*	347*	3.0*	59**	50*	347*
WALPOLE, HAMILTON 1552 HEKMAN GRAHAM #1518 TEXACO, INC. #1546 TEXACO, INC. 1573 TEXACO, INC.	WALPOLE WEST U WALPOLE UNIT WALPOLE EAST UNIT WALPOLE STEWEN UNIT	AUX VASES AUX VASES AUX VASES SPAR MTN MCCLOSKEY AUX VASES	28,33-6S-6E 22,26,27,34,35-6S-6E 28,35-6S-6E 28,27-6S-6E	35* 21248 1225 284	2207* 2342 170 1695	1.6* 2.542 170 179	296* 2542 170 179	35* 11723 586 170	1305* 11723 586 905
1517 UNIVERSAL OPKTING	WALPOLE UNIT	AUX VASES	3-7S-6E		1486		79		977
WAMAC, CLINTON, MARION, WASHINGTON #2610 MINERAL REC. INC #2611 UWEY STINSON	WAMAC WATERFLOOD WAMAC UNIT	PETRO PETRO	19,30-1N-1E 19,30-1N-1E		4 531		7 35		11 221
WAMAC W, CLINTON 4021 G. JACASUN 414 JET OIL CO. 418 JET OIL CO.	JACKSON, MAMOUN-MUDDUS WAMAC W. BENOIST U WAMAC W CYPRESS U	CYPRESS BENOIST CYPRESS	29-1N-1W 22-1N-1W 20,21-1N-1W	70* 320 47	1689* 6421 580	3.3** 0.2* 13.3	86** 343** 270	70* 243 12	1689* 4687 179*
WEST FRANKFURT C, FRANKLIN #1307 CONYERS OIL WELL	MOHN-DIMOND *B*	OMAHA MCCLOSKEY	24,25-7S-2E		613*		100*		467*
1301 FARRAR OIL CO. #1308 FARRAR OIL CO. 1313 KILLION MCCLLEM, #1322 KILLION MCCLLEM, 1333 KILLION MCCLLEM,	W FRANKFURT U ORIENT U TEW-SINKS BONER-MERJMAN U SW FRANKFURT U	TAR SPRINGS TAR SPRINGS AUX VASES AUX VASES TAR SPRINGS	18,19-7S-3E 12-7S-2E 19,20,29-7S-3E 31-7S-3E 28,25-7S-2E		4792 476 2190 287 1635		561 29 544 60 164		3021 444 760 49 736
1342 KILLION MCCLLEM, 1356 KK P/LT. CORP. #1340 S ANU M OIL CO. #1315 TEXAS AMERICAN	HANSON W FRANKFURT U GARDNER-OIAMUND POND CREEK	AUX VASES AUX VASES OMAHA TAR SPRINGS	19,30-7S-3E 1-7S-2E/6-7S-3E 13,24-7S-2E 25-7S-2E	30 50*	66 423* 350* 1031	14.6 8.5*	43 96 19*	68 50*	79* 331* 350* 336
WEST SEMINARY, CLAY # 346 SHULMAN BROTHERS	WEST SEMINARY UNIT	AUX VASES MCCLOSKEY	5,6,8-2N-7E		4701		378		2636
WESTFIELD, CLARK, COLES 221 ASHLEY OIL CO. 231 ASHLEY OIL CO. 200 FOREST OIL CO. 222 FOREST OIL CO. 224 FRAZIER ENT. 502 GEN. OPERATIONS	WESTFIELD TRENTON U SMERWOOD STEAM FLOOD WESTFIELD POUL PARKER APEX JOHNSON	TRENTON CASEY GAS WESTFIELD CASEY GAS PENN CASEY GAS	5,6,7,8,11,15-11N-14W 32-11N-14W 17-11N-14W 30-11N-14W 4-11N-14W 7,18,19-11N-11E 18-11N-14W	274 1*	1413* 1* 3956 663 24*	19.6 1*	63* 1 15 34 1*	20 6	62* 6
WESTFIELD E, CLARK 206 JUDITH NEUMAN	MORRILL	PENNSYLVANIN	12-11N-14W	35*	523*	2.4*	53*	35*	366*
WHITTINGTON, FRANKLIN 1329 T. W. GEORGE EST.	WILCOX	HARPOINSBURG CYPRESS	20,29-5S-3E	2	172	0.3	23	2	82
1338 M & W OIL CO 1341 M & W OIL CO 1337 JUNIPER PETROLEUM C	STEEL-LAKE WHITTINGTON SOUTH U SE WHITTINGTON	CYPRESS HARPOINSBURG CYPRESS OMAHA MCCLOSKEY	19-5S-3E 29,30-5S-3E 21,28,29,32,33-5S-3E	13* 200* 270	929* 1530* 1725	8.2* 13.6*	96* 131*	13* 200*	980* 1355*

RESERVOIR STATISTICS (AVG. VALUE)				DEVELOPMENT AS OF 12-31-78				INJECTION WATER				REMARKS
FIELD, COUNTY		NET PAY (FT)	PUR (X)	OIL PERM (MO)	DATE FIRST INJ.	DATE ADD.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE		
PROJ. NO.	DEPTH (FT)			GRAV (API)			INJ.	PROD.	SU = SAND GM = GRAVEL SM = SHALLOW	(F)=FRESH (B)=BRINE (M)=MIXED		
TAMAROA S, PEKRY												
3101	1125	12.0		27.6	01-62		1	4	60	PRODUCED (B)	*ESTIMATEU	
THACKERAY, HAMILTON												
1551	3368	15.0	24.0	270	04-64		9	6	420	CYP, PROD (B)		
1570	3350	16.0	20.3	174	12-69		3	6	120	CYPRESS (A)	*ESTIMATEU SINCE 1976	
THOMPSONVILLE E, FRANKLIN												
*1302	3200	18.0	21.1	98	58.0	07-54	01-71	3	3	60	PRODUCED (B)	
THOMPSONVILLE N, FRANKLIN												
*1305	3120	16.0	19.5	50	38.6	03-54	01-64	7	3	176	LAKE, PROD (M)	*NO DATA SINCE 1962
1331	3100	15.0				11-68		2	6	120	PENN SU, PROD (B)	
*1304	3020	15.0	21.0	115	37.0	01-56	12-64	7	7	236	LAKE, PROD (M)	
*1303	3075	25.0	22.0	170	37.5	10-55	04-62	3	5	100	CYP, PROD (B)	
TONTI, MAHION												
2634	2152	10.0			36.0	02-67		1	4	50	PRODUCED (B)	*ESTIMATEU SINCE 1975
2621	1940	18.0				05-75		2	3	80		
	2010	20.0			56.0	05-75		2	4	120		
	2110	8.0	17.3	169		02-64		3	3	140		
	2140	18.0	14.1	196		02-64		6	3	140		
*2622	2108	8.0	17.3	169	36.0	03-64	12-65	1	2	30	PRODUCED (B)	
2609	1950	6.0			36.2	04-59		2	3	60	PRODUCED (B)	*ESTI +INCL PRIM PROD SINCE 4-59
	2122	7.0						1	2	40		
TRUMBULL C, WHITE												
4362	2848	12.0	16.0	40	35.0	11-62		6	4	180	SM SU (F)	*ESTIMATEU SINCE 1972
4297	2000	8.0				06-65		1	2	30	PRODUCED (B)	*ESTIMATEU
4301	3180	8.0				01-66		2	7	90	PRODUCED (B)	*ESTIMATEU
4367	3150	11.0	18.0		38.4	01-71		6	19	300	SAND (M)	*ESTIMATEU SINCE 1973
	3200	16.0						1	5	60		
4429	3120	15.0				10-69		1	2	50		*ESTIMATEU
	3230	8.0						1	2	30		
4336	3285	5.0	12.8	136	37.0	11-61		1	1	40	TAR SPH, PROD (B)	*D.F., UNKNOWN +ESTIMATED
TRUMBULL N, WHITE												
*4406	3320	10.0			36.0	09-65	09-66	1	1	20	CYPRESS (B)	
	3468	7.0						1	1	40		
VALIER, FRANKLIN												
1324	2670	8.0			39.2	11-64		1	1	70	PRODUCED (B)	*ESTIMATEU +INCL PRIM PROD
WALPOLE, HAMILTON												
1532	3200	15.0	22.1	190	39.0	07-62		4	4	160	PENN SU, PROD (B)	*ESTIMATEU SINCE 1971
*1518	3100	15.4	18.3	106	36.2	12-60	04-69	14	19	1440	PENN SU, PROD (B)	
*1546	3100	17.0	15.4	18	36.7	09-63	01-69	4	3	160	PENN SU, PROD (B)	
1573	3200	12.0	12.0		37.6	03-73		4	3	280	PROD SUPPLY (B)	
	3250	18.0	10.0					4	3			
*1517	3180	18.0	20.3	134	37.4	01-60	09-66	4	3	80	PENN SU, PROD (B)	*EST FOR 1964-1966
WAMAC, CLINTON, MARION, WASHINGTON												
*2610	765	18.0	21.3	220	35.0	05-54	10-65	6	15	120	CITY WATER (F)	
*2611	750	20.0	20.3	183	30.0	07-57	12-60	6	13	50	CITY WATER (F)	
WAMAC W, CLINTON												
4021	1300	7.5				11-66		1	5	70	PRODUCED (B)	*EST, +INCL, PRIM PROD SINCE 1966
414	1450	18.6				11-62		5	9	140	LAKE, PROD (M)	*INCL PRIM PROD SINCE 11-62 +EST
418	1290	8.8				10-65		3	6	90	PENN SU, PROD (B)	*ESTIMATEU
WEST FRANKFORT C, FRANKLIN												
*1307	2760	10.0	15.0	205	38.0	07-59	12-72	1	2	60	PRODUCED (B)	*ESTIMATEU SINCE 1967
	2845	7.0						1	2	60		
*1301	2050	11.3	17.1	155	40.3	11-57	07-65	6	6	141	CYPRESS, PROD (B)	
*1308	2050	12.1			40.1	09-59	12-63	4	3	70	CYPRESS, PROD (B)	
1313	2730	12.0			38.0	09-62		2	1	120	LAKE, PROD (M)	*INACTIVE:SWO SINCE 1973
*1322	2750	12.0			38.0	08-65	12-73	2	2	70	PENN SU, PROD (B)	
1333	2050	40.0			38.0	02-71		3	23	60	LAKE & PROD (M)	
1342	2735	15.0			38.0	12-76		1	6	60	LAKE (F)	*ESTIMATEU
1336	2720	8.0				10-71		1	3	40	LAKE (F)	*ESTIMATEU
*1340	2750	11.0				11-66	10-72	4	10	210	PRODUCED (B)	*ESTIMATEU=NO DATA RECEIVED
*1315	2060	10.0	17.1		38.0	08-62	12-67	2	3	70	PRODUCED (B)	
WEST SEMINARY, CLAY												
*346	2970	9.0	19.0		37.2	03-64	12-68	15	8	290	PENN SU, PROD (B)	
	3080	9.0						4	5	180		
WESTFIELD, CLARK, COLES												
241	2350	60.0	4.0		39.0	01-75		13	37	1000		*ADJUSTED
*231	250	20.0	20.0	250	25.0	02-64	04-64	2	1	10	CITY WATER (F)	*ONE TON OF STEAM, STEAM SOAK
*200	290	15.0	19.0	17	34.0	01-66	03-70	20	9	30	GRAVEL BED (F)	
*222	270	25.0	17.9	153	28.1	06-50	04-61	9	12	20	GRAVEL BED (F)	
224	340	60.0			34.8	03-67		6	5	40	CAMPER, WELL (M)	*NO DATA SINCE 1968
*502	320	35.0	21.5	86	29.0	06-51	12-62	30	14	60	LAKE, PROD (M)	
WESTFIELD E, CLARK												
206	370	20.0	22.0	400	34.9	01-66		4	10	60	PRODUCED (M)	*ESTIMATEU
WHITTINGTON, FRANKLIN												
1329	2300	10.0				04-67	12-66	1	1	40	LAKE, PROD (M)	
	2530	10.0				07-64		3	3	30		
1338	2530	10.0				12-71		2	4	60	PRODUCED (B)	*ESTIMATEU
1341	2300	10.0				07-72		4	12	180	PRODUCED (B)	*ESTIMATEU
1337	2500	8.0				10-71		1	5	60	LAKE, PROD (M)	
	2810	8.0						2	9	160		
	2900	5.0						2	9	160		

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)									
FIELD, COUNTY PROJECT NO., OPERATOR * A B D * P, M, * A B D & P, M,		PROJECT U = UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION					
					TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78	TOTAL 1978	CUM, 12/78				
WHITTINGTON, FRANKLIN CONTINUED														
1334	MILL I LEWIS EST	WHITTINGTON	HARUNSBURG CYPRESS	20=53=3E	208	1707	7.4	104	145	771				
WHITTINGTON W, FRANKLIN *1344 JOHN C. BOWERS *1312 KEWANEE OIL CO,					PLAINS PL. PLAINS	RENAULT RENAULT	12=53=2E 1,2,11,12,14=53=2E		760* 3375	137* 363	760* 1137			
WILBERTON, FAYETTE 1246 W. L. BELOEN					ST PETER AREA	CARPEK	11,12,13=5N=2E/ 7,17,18,19=5N=3E		155	12176	24.8*	927**	155*	9465*
WILLIAMS C, JEFFERSON 2019 N. A. BALDRIDGE					WILLIAMS SOUTH UNIT	AUX VASES	10,11=3S=2E		35*	1948*	1.4*	524**	35*	1166*
2028	WALTER DUNCAN	HODGE	BENUIST AUX VASES	2=3S=2E	20*	470*	1.3*	24*	20*	470*				
2033	PEP DRILLING CO,	LEFFLER MCLAUGHLIN	AUX VASES BENUIST	35=2S=2E/2=3S=2E 2=3S=2E	41	1241*	5.1*	144**	41*	1241*				
2032	BEHNRAD PODOLSKY		AUX VASES		10*	310*	2.0*	28**	10*	310*				
WUBURN C, BUND 3 HOMEIER OIL ENT. * E. E. JENNEMAN					BLANKENSHIP AREA SPINULLER LSE	OLVONIAN BENUIST	34=7N=2W 10=6N=2W		25*	263*	1.3*	40*	25*	455*
								194	11	194				
WOODLAWN, JEFFERSON 2005 W. C. MCBRIOL 2024 MOBIL OIL CORP. *2023 TEXACO, INC.					HOPPA KAMINSKI ESTATE WALKER 7	CYPRESS BENUIST CYPRESS BENUIST	2=3S=1E 2=3S=1E 2=3S=1E		182 191	2424 1586	10.9 12.5	187 347	181 168	2078 1687
2034	CHARLES P. WOOD	BURKHARDT	BENUIST	35=2S=1E	10*	1010*	0.7**	276**	10*	1010*				
YORK, CLARK, CUMBERLAND * 706 C. KEYSER * 703 TRANS-SOUTHERN					CUMBERLAND UNIT YORK	ISABEL ISABEL	1=9N=10E 6=9N=11E			37 604		20		3 290
ZEIGLER, FRANKLIN 1316 V. R. GALLAGHER 1320 V. R. GALLAGHER					BENO LEASE PLUMFIELD U	AUX VASES AUX VASES	20=7S=2E 13,24,25=7S=1E/ 18=7S=2E		25*	299*	5.2*	252**	25*	94*
								19*	3996*	13.1*	1401**	19*	1857*	
ZENITH E, WAYNE *4090 NAPCO					OURKEE	SPAK MTN	4=1N=6E			800*		160**		800*
ZENITH N, WAYNE *4150 T. W. GEORGE EST. *4137 MOBIL OIL CORP.					ZENITH N MCGREW ZENITH N FIELD U	SPAK MTN SPAK MTN	21=2N=6E 21=2N=6E			112 501		9 58		130 206

RESERVOIR STATISTICS (AVG. VALUE)				DEVELOPMENT AS OF 12-31-78				INJECTION WATER				REMARKS		
FIELD, COUNTY		NET PAY (FT)	POH (%)	PERM (MO)	OIL GRAV (API)	DATE FIRST INJ.	DATE ABD.	NO. OF WELLS INJ.	NO. OF WELLS PROD.	ACRES UNDER INJ.	SOURCE		TYPE	
PROJ. NO.	DEPTH (FT)	(FT)	(%)	(MO)	(API)	INJ.	ABD.	INJ.	PROD.	INJ.	SH	SM	GH	(F)=FRESH (B)=BRINE (M)=MIXED
WHITTINGTON, FRANKLIN														
CONTINUED														
1334	2300	10.0				08-71		3	6	90				PRODUCED (B)
	2500	8.0						3	6	90				
WHITTINGTON W, FRANKLIN														
*1344	2740	11.0				03-62	07-71	1	5	70				PRODUCED (B) *ESTIMATED
*1312	2675	10.0	13.0	13	38.0	02-61	05-67	7	8	270				PENN SU, PROD (B)
WILBERTON, FAYETTE														
1246	3250	25.0				10-65		18	33	1000				WENOIST, PROD (B) *EST +INCL PRIM PROD
WILLIAMS C, JEFFERSON														
2019	2555	11.0	17.6	50	37.0	10-64		2	3	119				PENN SU, PROD (B) *PARTIAL WF SINCE 1-53 *DATA SINCE 10-64; *ESTIMATED
2028	2500	7.0				06-67		1	1	20				PRODUCED (B) *ESTIMATED
	2550	10.0						1	1	20				
2033	2580	20.0				5-60		1	4	40				PRODUCED (B) *EST, +INCL, PRIM, SINCE 1960
2032	2525	10.0				7-66		1	1	20				*EST, +INCL, PRIM, SINCE 66
	2596	10.0						1	4	50				
MOBURN C, BOND														
3	2260	20.0			35.5	11-67		1	2	40				PRODUCED (B) *TEMP ABD 1972-75; *EST SINCE 76
*4	1006	14.0				09-51	08-56	1	4	30				PRODUCED (B)
WOODLAWN, JEFFERSON														
2005	1760	10.0				09-68		2	5	20				PRODUCED (B)
2028	1950	17.0				01-65		1	3	40				PRODUCED (B)
*2023	1790	10.0	14.0	225	35.9	03-64	12-65	1	2	40				PRODUCED (B) *DISC AS WF, SWU ONLY
	1950	27.0						1	2	40				
2034	1965	22.0				11-52		2	5	70				PRODUCED (B) *EST +INCL PRIM, SINCE 1952
YUKA, CLARK, CUMBERLAND														
*706	556	11.0	17.8	80	33.8	06-61	12-63	1	2	30				PENN SU (B)
*703	590	10.0	21.9	231	30.3	10-50	12-58	3	7	15				PRODUCED (B)
ZEIGLER, FRANKLIN														
1316	2020	12.0	21.5	75	38.9	10-68		1	2	40				PENN SAND, PROD. (B) *EST, +INCL PRIM, SINCE 10-68
1320	2650	15.0	21.5	75	38.9	02-65		6	16	350				PENN SU, PROD (B) *SINCE POOL DISCOVERY 7-12-63 *ESTIMATED SINCE 1976
ZENITH E, WAYNE														
*4090	3180	8.0				02-67	12-72	2	10	220				PRODUCED (B) *EST, +INCL PRIM 1966-72
ZENITH N, WAYNE														
*4150	3100	15.0	14.0		38.0	08-68	12-70	2	5	90				PENN SU (B)
*4137	3100	12.9	15.3		38.0	03-59	02-68	2	4	140				CYP, PROD (B)

TABLE 12. Illinois waterfloods for 1978 by counties

County	Number of active projects	Number of abandoned projects	Wells		Acres in waterflood projects*		Water injection (M bbl)		Oil production (M bbl)		Water production† (M bbl)	
			Water input	Producers	Subject to injection	Total productive	Total 1978**	Cumulative 12-31-78**	Total 1978**	Cumulative 12-31-78**	Total 1978**	Cumulative 12-31-78**
Bond	4	3	19	27	360	570	76	2,489	3.4	202	76	1,556
Christian	8	0	49	101	2,640	4,700	4,318	50,608	153.7	5,454	3,247	25,109
Clark	7	21	593	583	4,999	12,577	924	201,465	56.2	9,543	505	81,331
Clay	50	41	494	762	21,468	23,268	9,620	280,416	470.7	27,585	8,559	171,778
Clinton	15†	6	272	363	7,284	7,550	3,231	87,519	166.0	17,400	3,188	155,808
Coles	11	15	199	265	5,755	5,945	1,030	75,219	42.5	5,982	1,030	38,820
Crawford	44	48	1,640	1,945	23,844	29,518	21,214	1,013,313	675.5	56,965	16,711	545,992
Cumberland	5	3	474	510	2,448	2,479	2,095	111,738	82.8	13,905	2,541	27,715
Douglas	0	3	34	56	1,220	1,310	0	12,532	0.0	1,631	0	1,977
Edgar	7	1	24	62	780	760	455	16,726	67.8	1,536	455	16,526
Edwards	25‡	16	156	296	7,141	7,815	3,723	119,684	211.3	14,316	3,135	72,918
Effingham	18	4	108	209	4,525	4,923	3,242	72,004	227.3	7,905	2,352	45,846
Fayette	47	8††	1,614	1,844	40,028	40,869	55,511	1,639,096	1,677.7	187,942	43,798	1,015,756
Franklin	26	18	199	367	9,763	10,654	2,948	290,457	237.7	31,506	3,037	199,981
Gallatin	29	30	423	580	11,368	12,576	3,222	153,511	230.2	21,977	2,553	63,713
Hamilton	29	48	658	824	27,326	27,961	9,500	488,547	283.4	37,426	9,150	308,781
Jasper	15	16	154	312	10,827	11,480	4,367	104,051	285.0	8,109	4,007	52,776
Jefferson	24‡	13	140	262	10,140	10,493	4,280	209,931	271.8	26,879	3,750	145,674
Lawrence	66	27	2,496	2,839	29,488	31,797	40,282	998,031	2,144.2	104,284	36,021	706,993
Macon	0	1	1	2	80	80	0	6	0.0	0	0	4
Macoupin	1	0	2	7	40	40	0	16	0.0	1	0	2
Madison	7	3	42	71	1,722	2,544	1,092	18,494	38.9	1,151	949	12,504
Marion	28	12	503	601	32,897	41,097	99,034	2,133,270	2,200.8	130,454	90,801	1,247,901
Montgomery	0	1	2	2	20	40	0	38	0.0	6	0	15
Perry	2	0	4	8	240	320	120	3,552	5.8	163	120	2,798
Richland	23	26	226	400	16,740	16,810	8,125	271,375	271.4	16,611	7,882	217,004
Saline	16	11	103	191	4,200	4,740	3,158	87,676	133.9	7,850	2,460	37,410
Shelby	3	1	10	30	630	660	203	5,236	13.2	899	203	4,736
Wabash	83	70	768	1,096	21,598	23,644	8,610	375,954	474.0	42,127	6,850	195,271
Washington	25	2	81	235	4,179	4,226	4,249	97,564	189.1	11,400	3,662	89,826
Wayne	91	61	997	1,295	58,068	62,601	20,926	694,762	837.4	59,579	17,041	354,550
White	153	105	2,009	2,554	54,894	61,359	37,455	975,419	1,771.3	103,374	25,259	525,326
Williamson	5	0	11	32	530	680	575	4,724	93.3	980	228	1,114
TOTAL	867	614	14,505	18,731	417,242	466,086	353,585	10,595,423	13,316.3	955,142	299,570	6,367,511

* Acreage data are incomplete in a few counties.

** Projects not reporting in 1978 are included as of last reporting date.

† Not all projects reported produced water.

‡ Includes 1 active pressure maintenance project.

†† Includes 1 abandoned pressure maintenance project.

TABLE 13. Illinois oil fields having active waterfloods during 1978

Field	Number of active projects	Number of abandoned projects	Wells		Acres in waterflood projects*		Water injection (M bbl)		Oil Production (M bbl)		Water production† (M bbl)	
			Water input	Producers	Subject to injection	Total in production	Total 1978**	Cumulative 12-31-78**	Total 1978**	Cumulative 12-31-78**	Total 1978**	Cumulative 12-31-78**
Aden C	2	2	41	37	3,380	3,940	668	34,305	17.0	1,882	668	10,573
Akin	3	2	11	29	510	510	20	3,543	2.8	506	20	767
Albion C	20	10	121	224	5,150	5,714	3,390	114,453	134.0	13,128	2,679	67,778
Albion East	1	0	6	18	420	420	160	1,030	57.5	307	160	990
Allendale	17	21	139	192	2,893	3,333	960	92,499	51.2	7,477	646	34,064
Ashley	1	0	4	14	180	180	145	3,960	7.2	255	145	3,960
Ashley E	1	0	2	4	60	60	35	880	1.7	55	35	880
Assumption C	5	0	27	49	1,670	1,930	1,177	40,713	45.9	4,963	876	20,033
Barnhill	2	5	36	52	900	1,050	0	16,477	2.7	2,017	15	3,559
Bartelso	1	2	22	27	320	320	50	6,799	2.3	1,150	50	4,778
Beaucoup	1	0	3	2	280	367	93	1,336	0.9	17	20	697
Beaucoup S	2	0	8	11	257	257	545	10,329	9.0	475	500	8,830
Beaver Creek	1	1	2	5	60	90	32	457	1.2	41	32	341
Beaver Creek S	2	0	4	15	180	180	150	2,377	7.7	306	150	2,331
Bellair	2	1	106	130	717	747	430	95,726	15.9	2,692	430	42,727
Belle Prairie	1	0	1	8	160	160	60	560	9.4	124	60	560
Beman	1	1	6	9	280	280	60	1,235	1.4	62	60	919
Benton	2	0	37	45	3,390	3,390	952	230,391	31.1	21,211	1,277	169,621
Benton N	1	2	30	47	910	1,100	0	8,372	0.0	1,319	0	4,011
Berryville C	1	2	4	6	241	320	72	1,701	4.3	406	72	812
Bone Gap C	2	0	2	12	220	270	147	3,435	8.9	613	137	3,110
Boyd	1	0	7	18	2,133	2,133	240	77,137	8.0	4,328	180	46,959
Brown	1	0	1	3	40	40	22	458	0.6	28	11	229
Browns	3	0	23	26	930	950	216	5,848	29.6	753	159	1,959
Browns E	1	3	31	33	673	1,010	81	5,167	3.3	1,645	169	1,791
Bungay C	7	5	53	91	2,510	2,640	510	44,220	30.7	4,072	510	29,375
Calhoun S	1	0	1	4	80	80	50	276	9.0	155	50	276
Carlyle N	1	0	1	7	80	100	60	1,070	3.7	99	60	493
Carmi	1	0	1	2	60	60	25	295	1.9	78	25	199
Carmi N	1	0	1	4	80	80	15	1,005	1.3	75	15	765
Centerville	1	1	2	2	40	40	14	430	0.7	18	14	172
Centerville E	4	1	98	99	2,160	2,160	610	38,350	30.4	3,643	610	28,358
Central City	1	0	1	5	60	60	13	352	0.7	27	13	352
Centralia	5	2	195	219	4,704	4,824	1,714	45,650	77.0	12,240	1,783	126,409
Clay City C	103	54	1,129	1,632	65,028	68,565	27,571	794,498	1,234.5	62,303	23,668	481,284
Coil	3	0	9	13	400	400	323	6,569	53.3	1,333	266	3,150
Coil W	1	2	9	13	285	310	75	2,634	4.9	290	44	1,227
Concord C	3	12	62	89	1,733	1,970	135	24,952	8.4	2,568	108	14,110
Concord E C	1	2	8	10	190	190	15	1,430	0.9	116	15	1,237
Cordes	2	0	19	30	1,115	1,115	794	33,237	28.1	6,612	677	36,410
Corinth	1	0	1	4	90	180	64	228	13.0	75	0	0
Dale C	19	36	546	692	21,616	21,831	8,207	403,203	225.0	28,421	7,938	253,492
Deering City	1	0	1	4	50	50	18	522	0.9	120	18	442
Divide C	5	1	23	44	1,535	1,535	1,376	35,599	39.6	1,991	1,210	26,205
Dubois C	5	1	15	49	680	680	240	4,015	17.5	403	240	3,356
Dudley	7	0	12	50	480	460	455	4,726	67.8	936	455	4,526
Edinburgh W	1	0	5	20	230	230	1	1,059	3.7	155	1	691
Eldorado C	6	4	42	70	2,120	2,290	2,162	54,617	77.7	4,573	1,521	23,166
Energy	1	0	1	9	130	130	225	1,172	5.9	83	225	1,073
Exchange N C	1	0	4	9	280	280	296	2,916	5.0	470	89	1,038
Exchange W	1	0	2	10	150	150	81	1,007	12.2	171	24	341
Frogtown N	1	0	3	8	140	140	0	0	6.4	80	0	0
Gard's Point	2	0	2	11	220	260	150	1,455	11.5	113	150	1,220
Germantown E	1	0	2	13	300	300	140	4,585	10.1	1,220	140	4,585
Goldengate C	5	13	131	120	4,689	5,010	444	35,416	30.9	3,014	444	14,540
Goldengate N C	2	1	6	7	140	140	65	1,307	3.4	170	35	640
Half Moon	2	0	13	19	1,110	1,360	270	12,945	10.2	936	160	5,469
Harco	2	0	8	16	310	310	270	4,437	13.2	301	260	2,387
Herald C	16	10	110	172	3,661	4,551	1,220	41,041	117.5	5,070	998	17,803
Hill E	2	1	5	27	380	380	34	8,411	2.7	505	34	6,326
Hord	1	0	2	3	50	70	10	189	0.2	38	10	123
Ingraham	1	1	10	22	437	692	37	2,712	5.4	843	2	1,551
Inman E C	7	5	202	229	4,380	4,515	437	63,688	37.3	9,997	435	20,657
Inman W C	12	9	113	144	2,729	2,950	1,077	31,286	70.2	3,730	915	16,717
Iola C	9	3	104	167	3,330	3,450	3,102	63,563	164.2	3,854	2,203	41,711

TABLE 13—continued

Field	Number of active projects	Number of abandoned projects	Acres in waterflood projects*				Water injection (M bbl)		Oil production (M bbl)		Water production† (M bbl)	
			Wells	Pro-ducers	Subject to injection	Total in production	Total 1978**	Cumulative 12-31-78**	Total 1978**	Cumulative 12-31-78**	Total 1978**	Cumulative 12-31-78**
Irvington	7	0	16	84	1,090	1,130	1,427	25,145	83.4	2,097	1,427	24,590
Irvington E	3	0	4	21	250	250	115	3,515	13.1	553	115	3,515
Iuka	1	0	1	3	270	270	0	0	4.6	102	16	496
Johnson N	2	4	136	140	764	1,045	400	34,775	21.5	2,513	400	22,638
Johnson S	1	3	92	104	1,343	1,343	165	114,721	10.0	3,284	0	33,226
Johnsonville C	7	3	123	153	12,400	12,660	6,237	181,939	192.7	14,771	5,753	117,574
Johnsonville W	2	2	11	19	520	620	400	6,978	9.0	881	196	2,939
Johnston City E	2	0	8	15	260	320	283	3,283	69.2	672	0	0
Johnston City N	1	0	1	4	50	50	3	41	5.2	150	3	41
Junction E	1	0	4	5	100	100	95	890	4.8	62	95	696
Keensburg S	2	1	9	14	280	450	172	6,648	11.6	579	169	3,781
Kincaid C	1	0	16	30	700	2,500	3,120	8,801	100.0	329	2,350	4,350
King	2	2	8	14	360	360	47	3,610	2.7	400	47	2,122
Lancaster	3	0	27	45	840	1,015	169	7,940	8.8	1,919	150	2,474
Lancaster S	2	0	3	12	150	150	85	915	13.2	166	85	558
Lawrence	57	19	2,421	2,740	27,355	29,345	39,775	975,715	2,114.4	101,604	35,567	694,117
Lawrence W	1	1	12	19	447	447	30	1,501	1.4	208	30	595
Lexington	1	0	2	1	50	280	30	2,592	1.3	66	30	760
Lillyville	1	0	3	6	160	160	110	2,381	6.4	300	85	872
Livingston S	3	0	8	22	310	310	130	2,403	10.1	234	110	1,469
Louden	40	7	1,574	1,734	37,785	38,136	53,500	1,591,420	1,549.7	183,866	41,720	974,522
Main C	42	47	1,534	1,815	23,127	28,771	20,784	917,587	659.6	54,273	16,281	503,265
Maple Grove C	2	3	13	30	720	870	50	2,754	1.8	432	50	2,054
Marine	1	0	3	7	240	964	300	2,454	5.2	36	300	2,386
Mason N	1	0	3	4	130	130	100	2,457	6.0	177	100	2,493
Mattoon	10	9	140	204	4,575	4,615	1,000	64,043	40.9	5,263	1,000	32,373
Mattoon N	1	0	5	8	160	160	30	1,640	1.6	164	30	1,500
Maunie N C	5	6	66	96	1,740	2,510	70	17,408	9.5	2,975	95	9,829
Maunie South C	2	4	69	64	1,444	1,450	500	25,467	34.7	3,249	502	17,420
Miletus	1	0	1	1	20	20	25	294	1.5	17	25	289
Mill Shoals	9	7	65	85	2,402	2,583	610	39,095	30.8	2,860	647	20,376
Mode	1	0	3	5	330	350	10	521	0.5	336	10	531
Montrose	1	0	1	1	40	40	0	103	0.0	11	0	9
Mt. Carmel	16	16	128	207	4,455	4,529	1,685	52,438	102.4	5,793	1,489	29,462
New Harmony C	79	44	1,031	1,320	27,116	28,647	21,868	506,177	854.9	63,167	11,776	267,354
New Haven C	2	3	22	31	733	950	98	4,143	20.2	1,408	90	1,068
New Memphis	1	0	3	23	580	640	580	7,965	30.6	390	580	5,645
Oakdale N	1	0	4	7	170	170	108	1,495	4.6	343	108	1,354
Oak Point	1	1	20	14	360	480	50	4,153	2.5	212	50	3,840
Odin	1	0	14	22	230	290	140	8,278	0.5	1,323	87	174
Old Ripley	1	0	10	11	110	110	10	1,238	0.3	95	10	415
Olney C	1	8	33	44	2,238	2,418	70	17,857	3.5	1,590	70	11,149
Omaha	5	2	30	84	1,711	2,178	1,295	24,278	90.4	4,840	790	13,078
Omaha W	1	0	1	7	100	100	140	2,278	9.1	156	140	2,073
Orchardville	2	0	4	6	110	230	54	541	5.2	127	30	120
Orient	1	0	1	3	40	40	55	493	4.9	202	55	214
Oskaloosa	1	1	15	10	596	596	25	2,188	1.0	1,354	25	4,155
Pana	1	0	1	2	40	40	20	35	4.1	7	20	35
Passport	3	0	8	9	505	505	45	14,100	5.9	871	45	7,844
Patoka	3	2	80	88	1,713	1,713	438	89,156	17.9	9,054	438	69,312
Patoka E	3	1	11	33	380	580	769	11,899	44.0	912	604	9,837
Patoka S	3	0	35	46	860	980	414	14,397	26.5	1,516	434	9,859
Phillipstown C	23	15	194	323	5,864	7,191	3,672	60,177	393.4	13,418	2,882	34,820
Phillipstown S	1	0	2	3	60	60	20	615	0.9	146	20	204
Raccoon Lake	1	1	3	8	190	190	346	6,244	7.6	272	393	7,027
Raleigh	1	2	22	19	440	590	60	7,082	3.0	1,285	60	1,771
Raleigh S	3	1	8	10	310	490	241	5,606	12.8	429	199	3,246
Reservoir	2	0	2	5	100	100	30	910	5.1	151	30	910
Richview	5	0	11	34	427	367	900	16,822	38.0	1,399	548	9,262
Rochester	3	0	17	23	400	480	508	24,006	3.7	1,525	170	8,323
Roland C	18	13	405	527	11,820	12,940	8,874	200,117	292.1	18,261	6,633	99,989
Ruark	2	0	2	3	96	140	82	995	4.6	152	70	452
Ruark W	1	2	20	19	420	420	135	6,593	5.5	749	123	4,381
St. Francisville	1	2	5	7	140	150	0	908	0.0	29	0	318
St. Jacob	3	0	18	24	852	950	662	13,429	23.6	850	539	8,649

TABLE 13—continued

Field	Number of active projects	Number of abandoned projects	Wells		Acres in waterflood projects*		Water injection (M bbl)		Oil production (M bbl)		Water production (M bbl)	
			Water input	Producers	Subject to injection	Total in production	Total 1978**	Cumulative 12-31-78**	Total 1978**	Cumulative 12-31-78**	Total 1978**	Cumulative 12-31-78**
St. James	7	1	26	83	1,443	1,753	1,916	36,391	105.4	3,271	1,983	32,160
Ste. Marie	1	3	6	29	760	820	5	4,177	0.1	312	5	864
Sailor Springs C	40	21	215	361	8,965	9,863	6,536	144,836	317.5	17,885	5,828	92,235
Salem C	10	3	348	367	30,862	38,827	96,211	2,036,196	2,161.3	131,857	87,529	162,917
Schnell	1	0	1	1	103	103	1	858	0.9	41	1	327
Sesser C	5	1	28	63	1,410	1,550	670	13,187	57.0	2,151	670	7,436
Shattuc	1	0	5	10	150	150	170	1,344	8.7	169	170	839
Siggins	3	3	588	605	2,797	2,928	1,985	132,502	76.4	16,304	2,456	47,683
Sorento C	1	1	5	5	120	190	9	337	0.6	15	9	151
Stanton W	1	0	2	7	40	40	0	16	0.0	1	0	2
Stewardson	2	0	6	23	270	280	193	4,705	12.7	559	193	4,195
Storms C	16	6	180	189	3,925	4,370	3,688	183,487	181.4	7,757	4,028	119,023
Sumpter E	5	1	23	60	1,185	1,230	370	13,605	25.4	1,076	361	6,647
Sumpter N	2	0	6	10	220	418	208	2,435	11.1	240	150	1,011
Sumpter S	2	2	14	12	270	310	87	2,287	19.4	280	97	973
Tamaroa	1	0	3	4	180	260	70	2,828	3.3	120	70	2,074
Tamaroa S	1	0	1	4	60	60	50	724	2.5	43	50	724
Thackeray	2	0	12	12	540	540	509	15,840	19.5	1,881	549	10,797
Thompsonville N	1	3	21	21	632	726	55	5,869	16.3	984	0	1,040
Tonti	3	1	18	24	660	710	2,079	22,273	78.3	1,075	2,689	29,864
Trumbull C	6	0	18	42	780	830	677	10,426	42.0	964	685	5,382
Valier	1	0	1	1	70	70	50	347	3.0	59	50	347
Walpole	2	3	34	35	2,320	2,380	319	27,861	11.9	3,066	205	15,498
Wamac W	3	0	9	20	300	300	437	8,690	22.8	899	325	6,555
West Frankfort C	4	6	27	61	961	1,371	391	11,863	60.5	1,567	332	6,573
Westfield	2	4	80	78	1,160	7,850	274	6,262	19.8	127	20	143
Westfield E	1	0	4	10	60	60	35	523	2.4	53	35	366
Whittington	5	0	21	55	890	890	693	6,063	42.9	488	571	4,265
Wilberton	1	0	18	33	1,000	1,180	155	12,176	24.8	927	155	9,465
Williams C	4	0	7	14	269	322	106	3,969	9.8	725	106	3,187
Woburn C	1	1	2	6	70	180	25	457	1.3	51	25	649
Woodlawn	3	1	7	17	210	270	383	5,275	24.1	817	359	4,952
Zeigler	2	0	7	18	420	420	44	4,295	18.3	2,153	44	1,951

*Acreage data are incomplete in a few fields.

**Projects not reporting in 1978 are included as of last reporting date.

†Not all projects reported produced water.

TABLE 14. Summary of waterflood statistics, 1949-1978

Year	No. of active projects	Water injection (M bbl)		Reported waterflood oil production (M bbl)		Estimated dump flood production (M bbl)		Total oil prod. (M bbl)	Waterflood prod. % of total prod.**	No. wells in flood projects		Productive acreage		% of total acreage under flood	Cumulative waterflood recovery per acre subjected to injection (bbl)	Cumulative injected water/ cumulative produced oil
		Annual	Cumulative*	Annual	Cumulative*	Annual	Cumulative*			Inj.	Prod.	Subj. to inj.	Total			
1949	33	20,612	50,983	2,511	10,313	1,500	5,000	64,501	6.2	946	1,055	8,450	375,985	2.2	1,230	4.9
1950	63	44,053	99,040	3,107	13,826	1,500	6,500	62,028	7.4	1,097	1,197	14,123	397,685	3.6	979	7.2
1951	84	57,147	148,279	6,672	21,890	1,500	8,000	60,244	13.4	1,620	5,230	17,646	412,050	4.3	1,241	6.8
1952	131	72,951	221,078	8,752	29,000	2,000	12,000	60,071	17.9	2,160	5,114	31,330	425,025	7.4	926	7.6
1953	167	118,409	335,727	10,086	39,800	2,250	14,600	59,025	20.9	2,849	5,298	37,854	434,100	8.7	1,051	8.4
1954	232	176,012	512,202	15,985	55,687	2,129	17,900	67,000	27.0	3,597	6,686	59,027	500,130	11.8	943	9.2
1955	284	224,579	745,573	24,585	81,131	1,978	19,800	81,131	32.7	4,407	7,163	72,832	521,200	14.0	1,114	9.2
1956	333	271,270	1,014,900	29,600	111,700	1,700	21,500	82,314	38.0	5,307	7,687	92,350	539,315	17.1	1,210	9.1
1957	382	295,750	1,310,000	35,442	147,142	1,750	23,250	76,649	48.5	5,734	7,814	112,000	550,305	20.4	1,316	8.9
1958	443	317,153	1,606,500	40,833	187,338	2,040	25,290	80,779	53.1	6,647	8,567	122,500	562,535	21.8	1,529	8.6
1959	499	345,098	1,954,200	41,360	238,512	2,436	27,720	76,727	57.1	7,327	9,306	136,976	574,625	23.8	1,741	8.1
1960	559	376,563	2,324,200	44,789	283,862	1,750	29,470	77,341	60.2	8,062	9,855	152,823	585,045	26.1	1,857	8.2
1961	658	390,093	2,753,361	50,412	334,716	1,270	30,740	77,478	66.7	8,565	10,521	171,825	602,665	28.5	1,948	8.2
1962	717	467,318	3,144,893	49,078	379,977	1,245	31,985	78,796	63.9	8,875	10,660	186,785	612,995	30.5	2,034	8.2
1963	779	438,191	3,631,514	50,092	471,345	902	32,887	74,796	66.9	9,048	11,690	194,900	621,735	31.4	2,616	7.7
1964	848	467,691	4,099,133	47,977	520,886	660	33,547	70,168	69.3	9,731	11,497†	240,163†	629,055	45.4	1,825†	8.7
1965	938	479,347	4,526,211	43,729	531,102	500	34,047	63,708	69.4	10,091	13,651†	292,928†	635,455	46.2	1,810†	8.5
1966	929	505,583	5,281,790	43,319	612,692	200	34,247	61,982	68.3	11,194	13,912†	307,200†	641,165	47.9	1,980†	8.6
1967	896	512,808	5,745,583	43,496	666,239	None	34,247	60,115	71.6	12,893	15,427	338,100	724,600	46.7	1,970	8.6
1968†	880	518,581	6,184,083	41,260	668,907	None	34,247	56,391	73.4	13,107	15,572	347,499	729,400	47.7	1,920	9.2
1969†	882	496,763	6,747,362	37,083	699,808	None	34,247	50,724	73.1	13,326	15,953	369,730	732,429	50.5	1,895	9.6
1970†	855	457,527	7,010,480	30,880	733,045	None	34,247	43,747	70.6	13,498	16,004	372,588	751,855	49.6	1,967	9.6
1971†	869	442,543	7,470,871	27,758	754,602	None	34,247	39,084	71.0	13,873	16,842	388,426	756,265	51.4	1,940	9.9
1972†	873	441,963	7,926,055	25,381	793,442	None	34,247	34,874	72.8	13,610	16,657	389,365	760,555	51.2	2,038	10.0
1973†	863	413,456	8,321,161	21,655	815,650	None	34,247	30,669	70.6	13,797	16,854	392,385	763,925	51.4	2,079	10.2
1974†	862	384,015	8,839,803	19,193.2	843,757	None	34,247	27,553	69.7	13,944	17,145	395,634	769,415	51.4	2,133	10.5
1975†	870	370,472	9,184,065	17,579.9	872,405	None	34,247	26,067	67.4	14,364	17,989	399,823	774,945	51.6	2,182	10.5
1976†	854	376,589	9,420,804	16,607.9	873,310	None	34,247	26,272	63.2	14,585	18,243	405,089	783,065	51.7	2,131	10.8
1977†	862	364,645	9,854,794	15,046.8	898,356	None	34,247	25,608	58.7	14,544	18,575	410,439	789,175	52.0	2,189	11.0
1978†	864	342,227	10,343,389	13,163.4	915,699	None	34,247	23,362	56.3	14,490	18,620	411,864	797,835	51.6	2,223	11.3

*Current volume plus previous cumulative does not equal current cumulative because of yearly revisions.
 **Waterflood oil includes estimated dump flood production. All other figures exclude dump flood production.
 †Includes abandoned acreage with waterfloods and pressure maintenance.
 ‡Does not include pressure maintenance data.

ILLINOIS
GEOLOGICAL SURVEY | 75 YEARS
Geologic research and service for the citizens of Illinois since 1905