

Petroleum Industry in Illinois, 1980

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Oil and Gas Developments

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Waterflood Operations

Jaclyn Rendall Elyn

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ABSTRACT

Illinois produced 22,702,000 barrels of crude oil in 1980, an increase of 4.2 percent from 1979. The value of this crude oil is estimated to be \$800 million.

New test holes drilled for oil and gas numbered 1,921—76.7 percent more than in 1979. These tests resulted in 1,043 oil wells, 7 gas wells, and 871 dry holes. In addition, 67 former dry holes were reworked or deepened and completed as producers, and 23 former producing wells were reentered and completed as producers in new pay zones. In oil and gas exploration and development, including service wells and structure tests, total footage drilled in 1980 was 5,446,761, up 79.4 percent from 1979.

Of the 1,921 newly drilled tests for oil and gas, 357 were ½ mile or more from production (wildcats) and 53 were completed as producers, a success rate of 14.8 percent. Of the wildcat tests, 99 were drilled more than 1½ miles from production (wildcat fars). They resulted in 5 producers, a success rate of 5.1 percent.

In 1980, 245 service wells (water input, salt water disposal, etc.) were reported, an increase of 28.9 percent from 1979. Of these, 145 were newly drilled wells, and 100 were old wells converted to service wells.

Only 8 structure tests were reported in connection with oil exploration and development.

Six oil fields, 42 new pay zones in fields, and 55 extensions to fields were discovered in 1980.

Five new waterflood projects were reported by their respective operators, 5 projects were abandoned, and 1 project was reactivated. New projects increased the area subject to fluid injection by 780 pay acres; however, total pay acres under fluid injection declined by 19,721 acres during 1980.

Secondary recovery production was estimated at 11,604,600 barrels of crude oil. Waterfloods accounted for 11,483,100 barrels, or 50.6 percent of the state total, and pressure maintenance projects reported 121,500 barrels, or 0.5 percent of the state total.

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Part I. Oil and Gas Developments

Jacob Van Den Berg

OIL PRODUCTION AND VALUE

Illinois oil fields produced 22,701,817 barrels of crude oil in 1980, an increase of 909,062 barrels, or 4.2 percent, over 1979.

Table 1A lists by counties the number of holes drilled, the footage drilled, and the oil production in 1980. 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 figures for the state as a whole from another. The latter source is believed to be more accurate concerning the state's total production. The discrepancy in figures from the two sources is accounted for by the 360,303 barrels of crude oil for which the field and county assignments are not known (tables 1A and 8).

Ten counties had more than 700,000 barrels of oil production in 1980. Their combined production accounted for 73.8 percent of the total production in Illinois:

County	1980 production (bbl)	Percentage of state's total
White	3,143,019	13.8
Wayne	3,109,061	13.7
Lawrence	2,063,892	9.1
Marion	1,968,444	8.7
Fayette	1,636,276	7.2
Crawford	1,405,327	6.2
Clay	980,025	4.3
Wabash	881,396	3.9
Richland	863,888	3.8
Jefferson	708,996	3.1
TOTAL	16,760,324	73.8

Fields in Illinois that produced more than 200,000 barrels of oil each in 1980 accounted for 65 percent of the state's total production:

Field*	1980 production (bbl)	Percentage of state's total
Southeastern Illinois oil field†	3,945,746	17.4
Clay City C	3,127,002	13.8
Salem C	1,812,544	8.0
Louden	1,601,643	7.1
New Harmony C	1,281,585	5.6
Sailor Springs C	544,955	2.4
Phillipstown C	517,910	2.3
Roland C	368,556	1.6
Johnsonville C	304,608	1.3
Dale C	296,962	1.3
Keenville	285,487	1.3
Mill Shoals	232,271	1.0
Storms C	219,842	1.0
Maple Grove C	209,772	0.9
TOTAL	14,748,883	65.0

*C = Consolidated

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

The estimated value of crude oil produced in Illinois in 1980 is \$800 million.

1980 DRILLING

In 1980, 2,264 wells were completed in connection with oil and gas exploration and development (table 1A), 70.5 percent more than in 1979. These wells include new holes drilled as oil and gas tests; former dry holes reworked or deepened and completed as producers, former producers reworked or deepened and completed as producers in new pay zones, new holes drilled and old holes converted to service wells, and structure tests.

In testing for oil and gas, 1,921 new holes were drilled in 1980, up 76.7 percent from the 1,087 drilled in 1979. Wells in secondary and tertiary recovery projects are included. These tests resulted in 1,043 oil wells, 7 gas wells, and 871 dry holes. In addition, 67 former dry holes were reworked or deepened and completed as producers, and 23 former producing wells were reentered and completed as producers in new pay zones. A total of 245 service wells (water input, salt water disposal, etc.) was reported in 1980, an increase of 29 percent over 1979; these include 145 new wells drilled and 100 old wells converted to service wells. Only 8 structure tests in connection with oil and gas exploration and development were reported.

Of the 102 counties in Illinois, 54 had new holes drilled in 1980. Eleven counties accounted for 72.7 percent of these new holes: Crawford (256), White (232), Wayne (202), Clay (163), Jefferson (95), Wabash (93), Edwards (91), Jasper (84), Hamilton (68), Richland (57), and Marion (55).

Total footage drilled in 1980 in connection with oil and gas exploration and development, including service wells and structure tests, was 5,446,761, an increase of 79.4 percent from 1979. For the 1,921 new holes drilled as oil and gas tests, the total footage was 5,211,907, an average of 2,713 feet per well compared with an average of 2,673 feet per well in 1979.

The increased drilling activity in Illinois in 1980 resulted from the increase in the price of crude oil.

Discoveries

Six oil fields and 42 new pay zones in fields were discovered in 1980 (fig. 1; tables 2 and 3). There were 55 extensions to fields (table 4). Two of the new fields produce from the Pennsylvanian, 3 from the Mississippian, and 1 from the Silurian. Of the 42 new pay zones, 37 are of Mississippian age and 5 are Devonian.

Nashville North in Washington County, with production from the Devonian, appears to be the best of the new fields. Four producing wells were reported by the end of the year, and more than 20 additional permits to drill had been issued. The other new fields had only one or two wells each and significant further development appears unlikely.

Exploration

Of the 1,921 new tests for oil and gas in 1980, 357 were wildcats ($\frac{1}{2}$ mile or more from production). Fifty-three of the wildcats were completed as producers, a success rate of 14.8 percent. Of the 258 wildcats drilled between $\frac{1}{2}$ and $1\frac{1}{2}$ miles from production (wildcat nears), 48 were producers, a success rate of 18.6 percent. The 99 wildcats drilled more than $1\frac{1}{2}$ miles from production resulted in 5 producers, a success rate of 5.1 percent.

Fifty of the 54 counties in which new oil and gas tests were drilled had at least one wildcat test, including wildcat nears and wildcat fars. White County led with 46 wildcats, followed by Wayne (33), Hamilton (23), Jefferson (22), Franklin (19), Marion (16), Edwards (14), Washington (14), Lawrence (13), Clay (12), Macon (12), and Jasper (12).

Deeper production was discovered in 24 oil fields in 1980: Aux Vases production in Friendsville Central; Ohara in Junction East and Sumpter West; Spar Mountain in Oak Point West; McClosky in Black River, Friendsville Central, Hunt City, and Samsville Northwest; St. Louis in Browns, Hildalgo, Lancaster Central, and West Frankfort Consolidated; Salem in Albion Consolidated, Coil North, Kell East, Maunie North Consolidated, Parkersburg West, Passport South, Pixley, and Samsville Northwest; Ullin in Albion Consolidated, Belle Rive, Johnsonville Consolidated, Maunie North Consolidated, and Phillipstown Consolidated; and Devonian in Belle Rive, Iola South, Mill Shoals, and Sailor Springs Consolidated.

Unsuccessful exploratory tests to find deeper production were drilled in 66 fields in 1980. In eight of these fields, the deepest rocks tested were St. Louis or younger. The Salem-Ullin interval was the deepest tested in 43 fields, the Ft. Payne in 2 fields, and the Trenton in 1 field.

Drilling for Salem and Ullin production continued at a good pace in 1980. A total of 558 tests bottomed in the Salem or Ullin. A total of 221 Salem and/or Ullin producers were completed in 45 fields. Twelve of the 42 new pay zones discovered in fields were Salem or Ullin.

The deepest well reported in 1980 was a Devonian test drilled to a total depth of 6,119 feet in Maunie North Consolidated field in White County (#44, table 3, fig. 1).

In Mill Shoals field in White County, a well was completed as a producer from a Dutch Creek

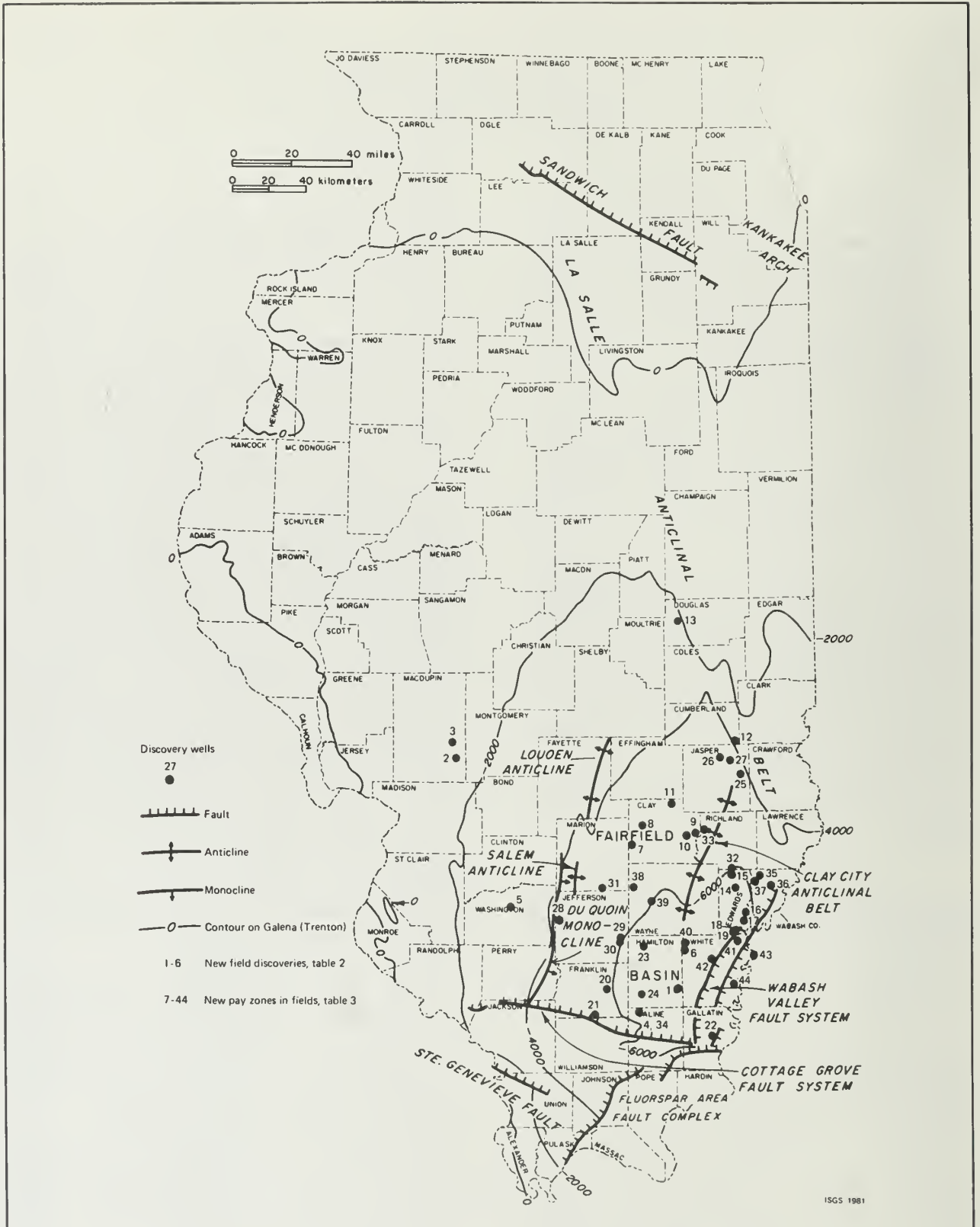


Figure 1. Major tectonic features in Illinois and their relation to the discovery wells of new fields and new pay zones in fields drilled in 1980. Numbered holes are shown in tables 2 and 3.

(Devonian) open hole at 5,380 to 5,405 feet total depth (#40, table 3, fig. 1). This is the deepest producer in Illinois.

Many wells were completed with very good production from formations—especially the Aux Vases Sandstone and Ste. Genevieve Limestone—which have been producing for many years and might have been considered thoroughly explored.

Amity South, a 5-well Ste. Genevieve field in Richland County, was discovered in 1953. In 1980, production in the field was extended with the completion of 4 Ste. Genevieve producers that had a combined initial daily production of more than 1,500 barrels of oil.

Oil was discovered in the Hidalgo area of Jasper County in 1940. Hidalgo, Hidalgo East, and Hidalgo South fields produced from a combined total of 33 Aux Vases and Ste. Genevieve wells. In 1980, production was extended in the 3 fields with the completion of 33 Ste. Genevieve producers. Initial daily production figures ranged from 2 to 114 barrels of oil and averaged 24 barrels. Permits have been issued for more than 50 additional tests in the area.

Maple Grove Consolidated field in Edwards and Wayne Counties was discovered in 1943. Production is mostly from the Aux Vases and Ste. Genevieve. In 1980, production was extended in the Wayne County portion of the field with the completion of 21 producers, all but 2 producing from the Aux Vases and Ste. Genevieve. These latter wells had initial daily production figures that averaged 124 barrels of oil per day and ranged as high as 348 barrels of oil per day for 1 Aux Vases well.

In Clay City Consolidated field, in an area extending several miles northeast from the town of Clay City in Clay County, a number of excellent wells were completed with production mostly from the Ste. Genevieve and Salem. Twenty-one of the wells had initial production rates that ranged from 100 to 400 barrels of oil per day. More significant is the fact that the oil in this area is stratigraphically trapped in a syncline. After years of domination by the anticlinal theory, much future exploration in Illinois probably will be directed toward the discovery of such pure stratigraphic traps.

Indications are that drilling in 1981 will match or exceed the pace set in 1980. Exploratory objectives mainly include deeper production in

existing fields—primarily from the Salem-Ullin interval, but also from Devonian and Silurian rocks—and the extension of old pools.

FIELDS REVIVED AND ABANDONED

Thirteen abandoned fields were revived in 1980: Belle Prairie West, Hamilton County; Beman East, Lawrence County; Calhoun East, Richland County; Dahlgren West, Jefferson County; Elba, Gallatin County; Enfield South, White County; Hunt City, Jasper County; Lancaster Central, Wabash County; Parkersburg West, Richland and Edwards Counties; Pixley, Clay County; Sailor Springs North, Clay County; Samsville Northwest, Edwards County; and Sumner South, Lawrence County.

Five fields were abandoned in 1980: Ferrin, Clinton County; Hickory Hill, Marion County; Oakley, Macon County; Ste. Marie East, Jasper County; and Zenith, Wayne County. These fields had a combined total of 30 wells and total cumulative production of 109,000 barrels of oil.

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 the top of the Precambrian basement. Pay zones are indicated on the geologic column by solid dots.

PRODUCTIVE ACREAGE

An estimated 9,270 acres were added to the area productive of oil, and an estimated 130 acres were added to the area productive of natural gas in 1980. The total area in Illinois that has been proven productive of oil is 630,200 acres, and of gas, 36,920.

In Illinois the normal spacing pattern for oil wells that produce from depths of less than 4,000 feet is 10 acres per well for production from sandstone and 20 acres per well for production from limestone. 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 1,574 million cubic feet of natural gas was produced and marketed in Illinois in 1980, compared with 1,585 million cubic feet in 1979.

Johnston City East field in Williamson County sold 0.3 million cubic feet of gas to Murphysboro, Carbondale, Benton, and Du Quoin. Raleigh field in Saline County provided 7.5 million cubic feet to cities in Saline County. Harco South field in Saline County furnished 8.0 million cubic feet to Harrisburg and Eldorado. From Mattoon field in Coles County, 450.4 million cubic feet was sold in the Effingham, Mattoon, and Paris areas. Eldorado East field in Gallatin County provided 32.9 million cubic feet to the Equality and Carmi areas. Eldorado Consolidated field in Saline County furnished 35.0 million cubic feet to Eldorado. From Waggoner field in Montgomery County, 1.0 million cubic feet was sold in the Virden area. Gas from abandoned mines in Saline County, in the amount of 97.6 million cubic feet, was sold to United Cities Gas Company in Eldorado.

From Stubblefield South field in Bond County, 18.3 million cubic feet of gas went into the Illinois Power Company system. Illinois Power Company also purchased 95.4 million cubic feet from New Athens field in St. Clair County, 115.4 million cubic feet from St. Libory field in St. Clair County, and 6.9 million cubic feet from Eden field in Randolph County for its transmission line in southwestern Illinois. From St. Jacob East field in Madison County, 5.3 million cubic feet was distributed by Illinois Power Company. Production from Fishhook field in Pike County, in the amount of 342.8 million cubic feet, was sold to Central Illinois Public Service. Grandview and Inclose fields in Edgar County provided Central Illinois Public Service with 117.0 cubic feet.

Keenville field, Wayne County, supplied 240.4 million cubic feet of gas from oil wells, which was processed and put into the Trunkline Gas Company 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 1980, 39 underground natural gas storage projects were operating, were being developed, or 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; however, the amount of this potential capacity that is likely to be used for storage depends upon the supply of gas. Ultimately, about 1.2 trillion cubic feet will be used. Approximately 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 1 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 1980

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	6	5	3	2	-	-	3,352	-	-	-	-	-	3,352	5,323
Bond	23	14	2	8	-	-	17,013	-	3	1	-	-	17,013	61,804
Brown	19	8	1	7	-	-	5,306	-	-	-	-	-	5,306	5,692
Calhoun	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Champaign	1	1	-	1	-	-	322	-	-	-	-	-	322	-
Christian	53	30	17	13	-	-	50,976	-	-	-	-	-	50,976	311,110
Clark	156	40	29	6	-	-	27,116	2	-	3	729	-	27,845	387,634†
Clay	287	184	114	49	6	2	551,751	1	8	4	900	-	552,651	980,025
Clinton	46	28	13	13	-	-	54,667	2	-	-	2,343	-	57,010	399,618
Coles	41	28	14	10	1	2	49,185	-	1	-	-	-	49,185	125,918
Crawford	577	380	199 (1)	56	5	-	308,398	104	6	1	110,502	8	426,914	1,405,327
Cumberland	14	8	1	7	-	-	17,122	-	-	-	-	-	17,122	-
De Witt	1	1	-	1	-	-	1,350	-	-	-	-	-	1,350	93,228
Douglas	10	4	-	3	1	-	4,200	-	-	-	-	-	4,200	10,153
Edgar	14	10	3 (3)	3	-	-	25,678	1	-	-	200	-	25,878	87,485
Edwards	161	103	41	50	8	1	334,661	-	2	1	-	-	334,661	487,057
Effingham	31	31	17	9	-	-	61,316	2	3	-	3,689	-	65,005	256,619
Fayette	30	19	10	3	1	-	29,790	1	4	-	1,327	-	31,117	1,636,276
Franklin	67	46	13	29	2	-	146,554	-	1	1	374	-	146,928	543,562
Gallatin	54	29	14	14	-	-	82,579	1	-	-	2,885	-	85,464	397,289
Hamilton	145	74	35	33	2	3	273,051	-	1	-	-	-	273,051	500,500
Hancock	2	1	-	1	-	-	500	-	-	-	-	-	500	1,998
Jackson	4	1	1	-	-	-	3,325	-	-	-	-	-	3,325	1,444
Jasper	192	96	56	28	6	1	225,958	2	2	1	5,265	-	231,223	608,019
Jefferson	134	105	43	52	5	3	296,930	-	1	1	-	-	296,930	708,996
Johnson	-	2	-	2	-	-	4,530	-	-	-	-	-	4,530	-
Knox	1	1	-	1	-	-	555	-	-	-	-	-	555	-
La Salle	1	1	-	1	-	-	5,800	-	-	-	-	-	5,800	-
Lawrence	116	58	27	22	2	-	108,406	6	1	-	8,914	-	117,320	2,063,892
Lee	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Livingston	-	1	-	1	-	-	520	-	-	-	-	-	520	-
Logan	1	1	-	1	-	-	1,700	-	-	-	-	-	1,700	-
McDonough	25	4	-	4	-	-	2,409	-	-	-	-	-	2,409	20,747
McLean	1	1	-	1	-	-	1,055	-	-	-	-	-	1,055	-
Macon	93	30	15	15	-	-	63,176	-	-	-	-	-	63,176	117,281
Macoupin	5	5	1	3	1	-	1,636	-	-	-	-	-	1,636	18,673
Madison	28	18	2 (1)	11	1	-	14,647	2	1	-	3,415	-	18,062	108,559
Marion	128	79	21	34	2	-	153,620	6	13	3	14,057	-	167,677	1,968,444
Monroe	29	3	1	1	-	-	1,763	1	-	-	530	-	2,293	25,418
Montgomery	3	1	-	1	-	-	650	-	-	-	-	-	650	2,095
Morgan	1	1	-	1	-	-	860	-	-	-	-	-	860	-
Moultrie	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perry	10	6	-	6	-	-	12,827	-	-	-	-	-	12,827	14,081
Piatt	3	2	-	2	-	-	2,718	-	-	-	-	-	2,718	-
Pike	14	6	-	6	-	-	3,095	-	-	-	-	-	3,095	-
Putnam	-	1	-	1	-	-	1,293	-	-	-	-	-	1,293	-
Randolph	2	2	-	2	-	-	4,391	-	-	-	-	-	4,391	45,827
Richland	129	70	30	27	6	3	195,281	-	3	1	-	-	195,281	863,888
St. Clair	16	8	-	7	-	-	8,237	1	-	-	332	-	8,569	14,117
Saline	54	34	9	24	-	-	104,511	-	-	1	-	-	104,511	181,827
Sangamon	38	40	15	25	-	-	71,537	-	-	-	-	-	71,537	217,592
Schuyler	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Shelby	16	10	2	7	-	-	19,122	-	1	-	-	-	19,122	35,415
Vermilion	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wabash	153	111	49	44	3	-	239,211	4	9	2	6,109	-	245,320	881,396
Washington	61	33	9	18	-	2	58,576	1	2	1	1,265	-	59,841	427,212
Wayne	331	220	119	83	5	2	735,009	4	6	1	13,328	-	748,337	3,109,061
White	365	260	117	115	10	4	838,986	4	5	5	10,803	-	849,789	3,143,019
Williamson	6	9	- (2)	7	-	-	24,559	-	-	-	-	-	24,559	65,868
Production, location unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	360,303
Total	3,704	2,264	1,043 (7)	871	67	23	5,251,780	145	73	27	183,758	8	5,446,761	22,701,817

*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 1980*

County	Permits issued	Total completions	Injection and withdrawal wells		Service wells		Footage drilled
			New wells	Conversions	New wells	Conversions	
Champaign	-	6	6	-	-	-	25,503
Morgan	-	4	-	-	3	1	5,573
	-	10	6	-	3	1	31,076

* In addition to the wells tabulated, 4 permits to drill structure tests were issued.

TABLE 2. Discovery wells of 6 new fields in 1980

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	Hamilton 14-6S-7E	Amalgamated Oil Co. #1 Kenneth Short	Broughton North	32/2	Aux Vases	3,217	4,330	11-4	
2	Macoupin 22-8N-6W	Gas, Oil, & Land Dev. #1 G. T. Gipson	Eagarville East	4/8	Pennsylvanian	628	628	6-18	
3	Macoupin 29-9N-6W	U.S. Water Co., Inc. #1 Wagoner	Hornsby Northwest	7/12	Pennsylvanian	617	617	6-25	OWWO, was D&A
4	Saline 27-7S-5E	Basin Energy Corp. #1 Lewis Heirs	Galatia North	105	Spar Mtn	3,397	3,397	7-1	
5	Washington 34-1S-3W	Elmer Oelze #1 Gaebe	Nashville North	130	Devonian	2,774	2,774	9-11-79	
6	White 8-4S-8E	C. E. Brehm #1 Springer	Springerton	10/80	Aux Vases	3,385	3,560	1-22	

TABLE 3. Discovery wells of 42 new pay zones in fields in 1980 (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)	Completion date	Remarks
7	Clay 19-3N-5E	Telex Oil & Gas Co. #1 Horton-Smith Comm.	Oskaloosa S	26	Devonian	4,378	4,390	9-2	OWWO, was D&A, OTD 4,603. Ext. to field.
8	Clay 14-4N-5E	K Oil Co. #6 Gibson	Iola S	16/1	Devonian	4,246	4,309	10-1	
9	Clay 26-4N-8E	Booth Res., Inc. #1 Thomann	Pixley	209	Salem	3,515	3,684	10-27	
10	Clay 32-4N-8E	P.M.C. Oil Co. #1 Frutiger	Sailor Springs E	50/50	St. Louis	3,234	3,575	10-7	Prod. from Salem also.
11	Clay 9-5N-7E	Ladd Petro. Corp. #7 A. J. Lewis	Sailor Springs C	79/375	Devonian	4,592	5,600	9-26	Prod. from Cypress also.
12	Cumberland 30-9N-11E	T & S Drlg. Co. #1 Schiver	Oak Point W	9/7	Spar Mtn	1,263	1,285	8-6	
13	Douglas 1-15N-7E	Thomas J. Logue #1-A Yoder	Bourbon C	5/5	Aux Vases	1,516	1,570	10-12-79	OWWO, was D&A.
14	Edwards 25-1N-10E	Triple C Oil Co. #1 P. Ewald	Samsville NW	35/160	McClosky Salem	3,295 3,908	4,145	9-2	OWDD, was D&A, OTD 3,335. Ext. to field.
15	Edwards 35-2N-10E	McKinney Oil Prod. #1 Densmore	Parkersburg	262/51	Salem	3,794	3,825	6-17	
16	Edwards 4-2S-14W	Ram Oil Co. #1 G. Iles et al.	Browns	13	St. Louis	3,264	3,768	7-22	OWDD, was D&A, OTD 3,073.

TABLE 3—continued

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
17	Edwards 20-2S-14W	Kendra Corp. #2 G. Siegle "A"	Albion E	17	Renault	3,009	3,208	1-22	
18	Edwards 1-3S-10E	Superior Oil Co. #A-10 J. C. Blood	Albion C	40/130	Salem Ullin	3,604 3,978	4,511	9-19	Prod. from McClosky also.
19	Edwards 14-3S-10E	Petro-Halogen Corp. #B-1 Schmittler	Albion C	16	Renault	2,996	3,090	11-4	
20	Franklin 13-6S-3E	Fred DeMier #2 U.S. Coal & Coke	Bessie	250	Salem	3,185	3,187	1-28	
21	Franklin 32-7S-3E	Joe A. Dull #1-AC Becker Heirs	West Frankfort C	37/8	St. Louis	3,163	3,925	10-23	OWDD, was D&A, OTD 3,003.
22	Gallatin 2-9S-9E	Crystal Oil Co. #1 Howard Heirs	Junction E	2/4	Ohara	2,838	2,930	11-14	Ext. to field.
23	Hamilton 1-4S-5E	Modern Explor. #1 R. Rubenacker	Belle Prairie W	21/15	Salem	4,130	4,266	2-23	
24	Hamilton 23-6S-5E	Michael Taines #1 Lockwood et al.	Dale C	100/150	Salem	3,997	4,410	1-28	Prod. from Ullin also.
25	Jasper 20-7N-14W	Edward C. Koch #1 Barker	Hunt City S	68/10	Spar Mtn	2,398	4,024	12-17-79	
26	Jasper 20-8N-10E	Glennard Bunton #1 T. Marrs	Hidalgo	18/20	St. Louis	2,645	3,204	8-1	
27	Jasper 35-8N-10E	Kendra Corp. #1 L. Newkirk	Hunt City	8/16	McClosky	2,558	2,565	8-4	Ext. to field.
28	Jefferson 20-2S-1E	Ernest Sherman #1 Boldt	Roaches	55	St. Louis	?	2,279	11-30-79	
29	Jefferson 22-3S-4E	C. E. Brehm Drlg. & Prod. #1 Foster Comm.	Belle Rive	9/75	Ullin	3,985	4,100	2-10-79	OWDD, was D&A, OTD 3,150.
30	Jefferson 27-3S-4E	C. E. Brehm Drlg. & Prod. #1 Irwin Comm.	Belle Rive	20/5	Devonian	4,946	5,200	1-10	OWWO, was D&A.
31	Marion 34-1N-3E	Kevin M. Egley #1 Sager	Kell E	26/80	Salem	3,080	3,295	12-11-79	OWDD, was D&A, OTD 3,207.
32	Richland 26-2N-10E	Steven A. Zanetis #1 Myrtle Jenner	Parkersburg W	20/80	Aux Vases	3,150	3,985	5-13	OWDD, was D&A, OTD 3,326. Prod. from McClosky also.
33	Richland 20-4N-9E	Shelby A. Britton #1 King Heirs	Passport S	2/20	Salem	?	3,625	12-6-79	
34	Saline 27-7S-5E	Basin Energy Corp. #1 Angerole	Galatia N	4/30	Aux Vases	3,221	3,221	11-25	
35	Wabash 6-1N-13W	Francis L. Beard #1 Bob Jones	Lancaster Cen	13/13	St. Louis	3,016	3,040	10-24-79	Ext. to field.
36	Wabash 23-1N-13W	Puntney Engineering #1 Wheatley et al. Unit	Friendsville Cen	5/20	Aux Vases McClosky	2,590 2,659	2,680	9-23	
37	Wabash 13-1N-14W	Melvin G. Hall #1 Carlyle et al. Unit	Gards Point C	70/15	Salem	3,383	3,623	12-23	
38	Wayne 32-1N-5E	S. C. Vaughn Oil Prod. #1 Dagg	Coil N	5	Salem	3,328	3,770	5-22	
39	Wayne 20-1S-6E	Mid-America Petro. #2 Dickey	Johnsville C	15/30	Ullin	3,938	3,938	10-31	
40	White 30-3S-8E	Moore Eng. & Prod. #8 Gray Est.	Mill Shoals	408	Dutch Creek	5,405	5,405	9-8	
41	White 30-3S-11E	Louis A. Pessina #8 E. H. Morris "A"	Phillipstown C	8	Ullin	3,990	4,100	2-12	
42	White 27-4S-9E	C. F. Rebstock #A-2 Schoeman	Sumpter W	6	Ohars	3,248	3,338	11-15	
43	White 19-4S-13W	Gene Michel #9 M. Hagedorn	Black River	125/275	McClosky	3,037	3,075	9-16	
44	White 2-6S-10E	Collins Bros. #1 Grover Hines	Maunie NC	oil well	Salem Ullin	? ?	6,119	4-15	I.P. N/A

TABLE 4. Discovery wells of 55 extensions to fields in 1980 (C, Consolidated; E, East; W, West; N, North; S, South)

County and location	Operator, well no., and farm	Field	Initial daily prod. oil/water (bbl)	New pay zones	Prod. depth (ft)	Total depth (ft)	Completion date	Remarks
Brown 33-1S-4W	Energy Sources, Inc. #1 E. McNeff	Buckhorn	1	Silurian	681	681	11-25	
Christian 1-11N-1E	Ronald A. Potech #1 Warren "B"	Pana Cen	18/5	Benoist	1,499	1,515	12-15-79	
Christian 36-12N-1E	International Prop., Inc. #1 Dale Doty	Pana Cen	6/4	Benoist	1,496	1,514	8-2	
Clay 19-3N-5E	Telex Oil & Gas Co., Inc. #1 Horton-Smith Comm.	Oskaloosa S	26	Devonian	4,355	4,390	9-2	OWWO, was D&A, OTD 4,603. New pay in field.
Crawford 21-5N-12W	L. A. Redman #1 Wilbur Wesley	Main C	2/10	Robinson	947	1,855	6-23	
Edwards 25-1N-10E	Triple C Oil Co. #1 Paul Ewald	Samsville NW	35/160	McClosky Salem	3,299 3,908	4,145	9-2	OWDD, was D&A, OTD 3,335. New pays in field.
Edwards 18-1N-11E	Glen Marks #1 Andrew Krajec	Parkersburg C	18	Salem	3,756	3,793	12-2	
Edwards 4-1S-10E	William Terrell #1 Lloyd Reid et al.	Maple Grove SC	80	Ohara	3,293	4,149	9-9	
Fayette 13-5N-4E	Robert H. Evans #1 Harville	Iola C	75	McClosky	2,499	2,528	7-22	
Franklin 12-5S-3E	C. E. Brehm Drlg. & Prdg. #2 Neal	Ewing E	70	Ullin	4,012	4,090	10-21	
Gallatin 2-9S-9E	Crystal Oil Co. #1 Howard Heirs	Junction E	2/4	Ohara	2,838	2,930	11-14	New pay in field.
Hamilton 36-3S-5E	Modern Explor. #1 Karcher	Belle Prairie	29	Ullin	4,280	4,301	10-28	
Hamilton 36-3S-5E	Modern Explor. #1 Flora Bennett	Belle Prairie	70	Ullin	4,201	4,303	6-25	
Hamilton 11-4S-7E	C. E. Brehm Drlg. & Prdg. #1 Wright "A"	Mill Shoals	80/40	Aux Vases Ohara	3,271 3,358	3,470	1-5	
Hamilton 27-5S-5E	Amalgamated Oil Co. #1 Hargrave	Rural Hill N	7/20	Ullin	4,3/2	4,489	10-7	
Hamilton 24-5S-7E	Richard W. Beeson #1 B. Mitchell Etux Comm.	Enfield	49	Ullin	4,400	4,550	2-1	
Jasper 29-8N-10E	Mason Oil Co. #1 Jerry Carr	Hidalgo S	19	McClosky	2,658	2,774	9-29	
Jasper 31-8N-10E	Parrish Prod. Co. #1 Fred Carpenter	Hidalgo S	40/50	McClosky	2,746	2,789	11-19	
Jasper 33-8N-10E	Mason Oil Co., Inc. #1 J & B Carr	Hidalgo S	20	McClosky	2,635	2,745	8-17	
Jasper 33-8N-10E	Glennard Bunton #1 Higgins	Hidalgo S	15/50	McClosky	2,690	2,749	12-10	
Jasper 35-8N-10E	Kendra Corp. #1 Lawrence Newkirk	Hunt City	8/16	McClosky	2,558	2,565	8-4	New pay in field.
Jefferson 10-4S-3E	C. E. Brehm Drlg. & Prdg. #1 Noma Comm.	Spring Garden	59	McClosky	3,060	3,120	3-1-79	
Lawrence 19-2N-13W	So. Triangle Oil Co. #1 Marjorie Wolf	Berryville C	8	McClosky	2,932	3,044	6-10	
Lawrence 18-3N-13W	Louis H. Kapp, Jr. #1 Cummins	Sumner S	8	Aux Vases	2,748	2,860	9-30	
Lawrence 35-4N-13W	Jeriel Oil Prod., Inc. #1 Jenner	Lawrence	5/60	Spar Mtn	2,144	2,262	5-9	OWWO, was D&A, OTD 2,552.
Macon 26-17N-2E	Triple "G" Oil Co. #1 Snow	Forsyth	58/2	Silurian	2,129	2,165	4-1	
Macon 36-17N-1E	Comanche Oil Corp. #1 Dingman	Harristown	40	Silurian	1,977	2,040	12-9	
Marion 36-1N-3E	Ernest Sherman #1 Gordon Hill	Divide C	Oil well	St. Louis Salem	3,228 3,276	3,335	4-29	I.P. N/A

TABLE 4—continued

County and location	Operator, well no., and farm	Field	Initial daily prod. oil/water (bbl)	New pay zones	Prod. depth (ft)	Total depth (ft)	Completion date	Remarks
Marion 34-3N-4E	Louis H. Kapp, Jr. #1 Arnold	Iuka	70	Salem	3,141	3,205	12-16	
Richland 1-3N-8E	Hubert W. Rose #1 W. L. Hasler et al.	Clay City C	7/3	Salem	3,472	3,850	2-18	OWWO, was D&A.
Richland 14-4N-14W	M & H Energy Inc. #1 Delbert Baker	Amity S	264	Spar Mtn	2,897	2,920	8-12	
Saline 22-8S-6E	R. W. Beeson #1 Ben Hale et al.	Raleigh S	300	Aux Vases	2,880	2,915	9-16	
Shelby 7-11N-2E	Carl M. Hubbartt #1 Tri-County Farming	Pana Cen	2	Benoist	1,547	1,575	4-15	
Wabash 6-1N-13W	Francis L. Beard #1 Bob Jones	Lancaster Cen	13/13	St. Louis	3,016	3,040	10-24-70	New pay in field.
Wayne 20-1N-9E	Crete Oil Invest. #1-A G. Shannon	Mt. Erie N	5/100	Aux Vases	3,209	3,275	5-30	
Wayne 21-1N-9E	Van Fossan Oil Assoc. #1-A R. Glover	Maple Grove C	52	Salem	3,730	4,000	8-12	
Wayne 28-1N-9E	Van Fossan Oil Assoc. #1 George Smith	Locust Grove	30/10	Ohara	3,324	3,418	11-27	
Wayne 7-1S-5E	Joe A. Dull #1 S. Greathouse	Coil	20/10	Aux Vases	2,890	3,756	4-15	
Wayne 16-1S-6E	K. Leon Hagen #1 Weaver-White Comm.	Johnsonville C	40	McClosky	?	3,295	4-1	
Wayne 30-1S-9E	Richard W. Beeson #1 Claude Mark	Goldengate NC	75	Spar Mtn	3,321	3,378	9-28	
Wayne 13-2S-5E	Texaco Inc. #1 Cora Miller	Wayne City	6/37	Salem	4,044	4,130	10-3-79	
Wayne 14-2S-5E	Joe A. Dull #1 Conrad Edmisson	Wayne City	17/12	Salem	3,994	4,077	8-19	
Wayne 15-3S-9E	Mike Beeler Oil Co. #1 L. E. Williams	Goldengate C	2/15	McClosky	3,363	4,597	7-7-79	OWDD, was D&A, OTD 3,450.
White 21-3S-8E	Black Hawk Res. Corp. #53-21 Black	Barnhill	8/152	Aux Vases	3,324	3,461	8-31	OWWO, was D&A.
White 23-4S-8E	R K Petro. Corp. #1 McKinney et al.	Trumbull N	20	Aux Vases	3,357	3,357	2-12	
White 24-4S-8E	R K Petro. Corp. #B-1 W. R. Roser	Trumbull N	36	Aux Vases	3,362	3,362	3-11	
White 26-4S-8E	R K Petro. Corp. #1 Martin Est.	Trumbull N	16/150	Aux Vases	3,380	3,540	8-19	
White 26-4S-8E	C. E. Brehm Drlg. & Prdg. #1 Hubble	Trumbull N	10	Aux Vases	3,428	3,528	8-8	
White 9-4S-9E	Mike Beeler #1 C. Brown	Goldengate C	6/3	McClosky	3,491	3,515	9-15-79	
White 10-4S-9E	Mike Beeler #1 N. Barbre	Goldengate C	8	Ohara	3,451	4,630	11-5-78	OWDD, was D&A, OTD 3,500.
White 11-4S-9E	Mike Beeler #1 V. Barbre	Goldengate C	1/2/50	Salem	4,065	4,471	5-15-79	
White 12-4S-9E	Mike Beeler #1 Brown	Centerville E	14	McClosky	3,303	3,318	7-1-79	
White 6-6S-8E	Farmers Petro. Coop. #1 W. Healy	Enfield S	74/8	McClosky	3,394	4,336	10-21	
White 5-7S-8E	C. E. Brehm Drlg. & Prdg. #1 Delap "A"	Roland C	10/3	McClosky	3,109	3,156	8-15	
White 7-7S-8E	C. E. Brehm Drlg. & Prdg. #A-1 Morehead	Roland C	200	McClosky	3,231	3,250	10-28	

TABLE 5. Selected unsuccessful deep tests in 1980

County and location	Operator, well no., and farm	Field or wildcat	Deepeat atrata teated	Depth to top (ft)	Total depth (ft)	Comple-tion date	Remarks
Clay 18-2N-5E	C. E. Brehm Drlg. & Prdg. #1 Dean Smith	Wildcat far*	Hunton	4,554	4,760	4-28	
Clay 9-5N-7E	Ladd Petroleum Corp. #7 A. J. Lewis	Sailor Springa Conaolidated	Trenton		5,600	9-26	Comp. aa prod. in Cypreaa and Devonian.
Franklin 24-5S-3E	C. E. Brehm Drlg. & Prdg. #A-1 Bertha Ulrich	Wildcat far	Hunton	4,700	5,160	2-21	
Jasper 5-8N-9E	Charles Howe, Jr. #1 Arlie Reisner	Wildcat far	Geneva	4,277	4,286	4-8	
La Salle 30-29N-2E	Ross Prod. Co. #1 Ralph Goodwin	Wildcat far	Basement	5,775	5,800	7-15	
Wabash 17-2S-13W	Hocking Oil Co. #1 Beatrice Alka	New Harmony Consolidated	Hunton	4,506	4,825	6-3	
Wayne 13-2S-5E	Texaco Inc. #1 John Clark	Wayne City	Hunton	5,000	5,247	12-21-79	
White 1-6S-8E	W. R. & P. Becker #1 Gerald Harper	Roland Consolidated	New Albany	?	4,888	5-6	Comp. as prod. in McClosky, Salem, and Ullin.
White 2-6S-10E	Collins Bros. Oil Co. #1 Grover Hines	Maunie North Consolidated	Hunton	4,975	6,119	1978	Comp. as prod. in Salem and Ullin.
Williamson 12-8S-2E	C. E. Brehm Drlg. & Prdg. #3 Littlefair "B"	Stiritz	Devonian	?	4,669	11-2	

*Drilled more than 1½ miles from production.

TABLE 6. Underground storage facilities for liquefied petroleum gases in Illinois, January 1, 1981

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, 14	1960	1963	1963	50	5	—	Spoon Salem	sand lime	dome	gas
Brocton	URS	Douglas & Edgar 14, 15N-13, 14W 10, 11E	(potential air storage)			0	5	—	Lingle Crاند Tower	lime dolo- mite	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	9	—	Cypress Spar Mountain ("Rosiclare") Hardinsburg	sand	lens	gas
Corinth	Central Illinois Public Service	Williamson 8S-4E	1972	1972	1972	4	—	—	Hardinsburg	sand	—	gas
Crab Orchard	Central Illinois Public Service	Williamson 9S-4E	1972	1972	1972	—	—	—	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
Cillespie- Bend	Illinois Power Co.	Macoupin 8N-6W	1958	1958	1959	7	0	—	Pennsylvanian	sand	strati- graphic	gas
Clasford	Central Illinois Light Co.	Peoria 7N-6E	1960	1964	1964	33	14	—	Niagaran	dolo- mite	dome	water
Herscher Gvl.	Natural Gas Pipe- line Co.	Kankakee 30N-10E	1952	1953	1953	60	148	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	15	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 Crاند 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	20	14	—	Silurian	dolo- mite	dome	water
Loudon	Natural Gas Pipe- line Co.	Fayette 7, 8, 9N-3E	1967	1967	1969	66	84	—	Crاند Tower	lime	anti- cline	oil
Manlove	Peoples Gas Light & Coke Co.	Champaign 21N-7E	1960	1964	1966	137	12	—	Mt. Simon	sand	anti- cline	water
Media Gvl.	Mid-Continent Gas Storage Co.	Henderson 9N-4, 5W	(testing)			3	13	—	Galesville	sand	dome	water
Media Mt. S. Mills & Edwards	Egyptian Gas Stor- age Co.	Gallatin 7S-9E	1974	1975	1975	2	1	—	Mt. Simon Tar Springs	sand	dome lens	water gas
	Egyptian Gas Stor- age Co.	Gallatin 8S-8E	1974	1975	1975	1	0	—	Palestine	sand	lens	gas
Nevins	Midwestern Gas Transmission Co.	Edgar 12, 13N-11W	1961	1965	1966	13	8	—	Grand Tower	lime	drape over reef	water
Pecatonica	Northern Illinois Gas Co.	Winnebago 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	0	Galesville	sand	dome	water
Pontiac Mt. S.	Northern Illinois Gas Co.	Livingston 27, 28N-6E	1966	1968	1969	43	7	1	Mt. Simon	sand	dome	water
Richwoods	Gas Utilities Co.	Crawford 6N-11W	1966	1966	1966	4	2	—	Pennsylvanian	sand	—	gas
St. Jacob	Mississippi River Transmission Corp.	Madison 3N-6W	1963	1963	1965	10	3	1	St. Peter	sand	dome	water
Sciota	Central Illinois Public Service	McDonough 6, 7N-3, 4W	1974	1975	1975	12	9	—	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	ssnd	dome	water
Waverly St. P.	Panhandle Eastern Pipeline Co.	Morgan 13N-8W	1952	1954	1962	59	27	22	St. Peter	sand	dome	water
Waverly Gvl.	Panhandle Eastern Pipeline Co.	Morgan 13N-8W	1969	1969	1970	—	—	—	Galesville	sand	dome	water

projects in Illinois—January 1, 1981

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, 1980		Max. vol. in storage 1980 (MMcf)	1980 Peak daily	1980 Total		
							Working	Cushion					
—	12,840	2,154	290	12.3	114	170,000†	52,843†	100,313†	167,188†	657	42,670†	Ancona	
—	1,600	400	4-80	15.0	up to 3,000	3,564	1,491	1,981	3,535	25	264	Ashmore	
—	32,000	672	220	12.2	—	70,000	—	—	—	—	—	Brocton	
463	—	812	49	18.2	200	660	223	416	660	13	57	Centralia	
—	1,500	1,600	40	16.0	67	5,200	3,366	1,567	4,933	70	1,122	East Cooks Mills	
20	—	2,125	28	—	—	489	337	138	476	2	75	Corinth	
20	—	2,200	19	—	—	—	—	—	—	—	—	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	503	868	1,404	5	58	Mt. S. Eden South	
—	1,691	1,925	145	17.5	18	7,490	1,171	6,295	7,490	23	724	Elbridge	
4,222	—	350	47	21.5	216	7,151	1,699	4,634	6,990	39	1,737	Freeburg	
113	—	510	28	16.0	326	150	31	116	150	3	26	Gillespie-Benld	
—	3,200	800	120	12.0	426	12,586	5,641	6,293	12,585	46	688	Glansford	
6,750	8,000	1,750	100	18.0	467	54,700	10,556	23,283	37,152	806	17,272	Herscher Gvl.	
7,500	8,000	2,450	80	12.0	185	67,000	30,616	32,504	66,898	322	12,376	Herscher	
—	3,000	2,200	58	15.0	82	18,500	6,944	10,134	17,593	36	2,530	Mt. S. Herscher-Northwest	
4,000	—	3,150	100	16.0	250	10,129	2,849	5,912	10,129	41	1,522	Hillsboro	
414	—	1,125	28	20.3	458	1,096	587	285	1,013	27	364	Hookdale	
—	13,200	3,800	160	11.0	45	100,000†	6,463†	26,291†	35,055†	0	0	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†	101	7,833†	Lake Bloomington	
—	14,300	3,800	100	10.7	37	100,000†	7,914†	31,309†	41,746†	23	5,492†	Lexington	
—	3,000	1,300	85	12.0	250	12,174	3,233	6,696	12,174	52	2,245	Lincoln	
2,610	—	3,050	65	15.0	—	75,000	31,416	31,137	72,164	359	28,541	Loudon	
—	13,370	3,950	116	11.0	15	200,000	40,445	85,087	130,676	405	21,685	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. Mills	
—	224	2,302	18	—	—	747	69	70	139	2	90		
—	142	1,825	30	—	—	245	51	77	128	1	7	Edwards	
—	1,650	1,975	105	16.5	25	7,220	1,267	5,685	7,220	30	805	Nevins	
—	2,600	800	38	18.6	556	3,500†	896†	1,956†	3,180†	2	992†	Pecatonica	
—	—	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†	150	13,165†	Pontiac	
—	—	700	—	—	—	110	66	40	106	2	12	Mt. S. Richwoods	
550	650	2,860	100	14.0	400+	3,384	140	3,011	3,384	56	1,141	St. Jacob	
—	2,500	2,600	70	12.0	39	5,000	1,224	2,267	3,624	9	256	Sciota	
—	1,850	2,000	95	15.2	246	11,606	3,147	6,007	11,606	60	3,599	Shanghai	
—	496	1,860	91	17.3	47	5,006	1,080	3,920	5,006	14	1,052	State Line	
1,287	—	800	33	20.8	183	3,090	498	1,820	2,959	51	1,825	Tilden	
—	9,600	1,420	100	17.0	150	80,000†	30,412†	33,982†	75,515†	732	36,973†	Troy Grove	
—	—	4,000	—	—	—	15,000	1,369	7,692	9,496	22	1,198	Tuscola	
1,500	7,000	1,800	115	18.0	1,220	55,000	8,112	40,474	51,072	218	11,938	Waverly	
—	—	3,500	68	—	—	—	—	—	—	—	—	St. P. Waverly Gvl.	

* Million cubic feet. † 1977 data; 1978-1980 data not reported.

TABLE 8. Illinois oil field statistics, 1980

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, 1980

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISCOVERY (PT)	AREA PRODUCE IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			DEEPEST TEST		
				DURING 1980	TO END OF 1980	COMPLETED TO 1980	CONFINED 1980	ABANDONED 1980	PRODUCING END OF YEAR	SULFUR CONTENT PERCENT	PAY ZONE OF RUCK	THICKNESS OF URE	STRUCTURE	DEPTH (FT)	
															GR.
AB LAKE, GALLATIN, 88, 10E															
PENNSYLVANIAN		1947	80	2,5	130,2	10	0	0	3				M	MIS	2453
PALESTINE, MIS		1957	40			4	0	0	35		8	10	M		
WALTERSBURG, MIS		1954	10			1	0	0	36		8	5	MP		
RENAULT, MIS		1957	40			3	0	0	37		8	10	M		
AUX VASES, MIS		2735	20			2	0	0	35		L	8	MP		
		2770	10			1	0	0	35		8	9	MP		
AB LAKE SOUTH, GALLATIN, 98, 10E															
AUX VASES, MIS		1959	10	0,0	3,8	1	0	0	0	36		8	M	MIS	2982
AB LAKE WEST, GALLATIN, 8-98, 9-10E															
PENNSYLVANIAN		1950	450	1,7	542,0	34	1	0	16				M	MIS	4077
WALTERSBURG, MIS		1954	90			3	0	0	35		8	10	ML		
TAR SPRINGS, MIS		1956	300			19	0	0	37		8	20	ML		
CYPRESS, MIS		1958	30			2	0	0	38		8	10	ML		
AUX VASES, MIS		1954	10			1	0	0	36		8	9	ML		
MCCLOSKEY, MIS		2735	180			18	1	0	36		8	6	ML		
		2830	10			1	0	0	38		L	2	MC		
AUEN C, WAYNE, HAMILTON, 2-33, 7E															
AUX VASES, MIS		1938	2410	36,0	13526,9	128	0	1	54				A	DEV	5434
OMARA, MIS		1938	1570			64	0	0	39		8	10	A		
SPAR MTN, MIS		1943	2040			10	0	1	35		L	7	A		
MCCLOSKEY, MIS		1938	#			6	0	0	35		LB	5	AC		
SALEM, MIS		1948	#			79	0	0	35		L	4	A		
ULLIN, MIS		1948	60			9	0	0	36		L	16	AC		
LINGLE, DEV		1950	50			4	0	0	39		L	16	AC		
DUTCH CREEK, DEV		1968	10			1	0	0	8		8	10	A		
		1959	30			3	0	0	40		8	10	A		
ADEN EAST, WAYNE, 28, 7E															
MCCLOSKEY, MIS		1961	10	0,0	0,0	1	0	0	0	39		OL	6	MIS	3552
ADEN SOUTH, HAMILTON, 38, 7E															
AUX VASES, MIS		1945	350	2,4	857,7	29	0	0	6				A	DEV	5462
OMARA, MIS		1946	170			9	0	0	39		8	8	AL		
SPAR MTN, MIS		1945	350			3	0	0	37		L	7	AC		
MCCLOSKEY, MIS		1945	#			8	0	0	37		LB	8	AC		
		1945	#			17	0	0	38		L	9	AC		
ARIN, FRANKLIN, 68, 4E															
CYPRESS, MIS		1942	770	5,7	2452,9	60	0	2	12				A	MIS	4106
AUX VASES, MIS		1942	220			14	0	2	35	0,14	8	10	AL		
OMARA, MIS		1942	530			41	0	0	37	0,12	8	22	AL		
MCCLOSKEY, MIS		1943	70			4	0	0	38		L	18	AC		
		1943	#			1	0	0	38		L	9	AC		
ARIN WEST, FRANKLIN, 63, 4E															
CYPRESS, MIS		1948	120	5,8	250,9	9	0	0	7				A	DEV	5185
OMARA, MIS		1950	30			2	0	0	35		8	8	AL		
SPAR MTN, MIS		1948	70			2	0	0	37		L	10	AC		
MCCLOSKEY, MIS		1948	#			1	0	0	37		L	12	AC		
SALEM, MIS		1962	#			3	0	0	39		L	4	AC		
ULLIN, MIS		1962	10			1	0	0	38		L	10			
		1962	20			2	0	0	37		L	10			
ALBION CEN, EDWARDS, 28, 10E															
OMARA, MIS		1955	110	0,0	136,0	7	0	0	1				MIS	3510	
MCCLOSKEY, MIS		1955	110			7	0	0	37		L	5			
		1955	#			1	0	0			L	8			
ALBION C W, EDWARDS, WHITE, 1-38, 10-11E, 14W															
MANFIELDU, PEN		1940	3780	175,3	30409,2	507	12	1	178				AM	DEV	5185
BRIDGEPORT, PEN		1950	1960			7	1	1	28		8	5	MP		
BIEM, PEN		1944	#			30	0	0	29	0,10	8	15	MP		
UEGONIA, MIS		1944	10			158	0	0	37	0,16	8	15	MP		
WALTERSBURG, MIS		1949	690			2	0	0	35		8	9	MP		
TAR SPRINGS, MIS		1944	140			67	0	0	36		8	16	AL		
HARDINSBURG, MIS		1944	140			10	0	0	37		8	5	AL		
CYPRESS, MIS		1944	70			6	0	0	36		8	10	A		
BETHEL, MIS		1944	530			46	1	0	37		8	15	A		
BENJOIST, MIS		1960	970			60	2	0	36		8	14	AP		
		1960	240			18	2	0	34		8	13	AP		

(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 TM OIBC- OVERY (FT)	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTEN OF OIL			PAY ZONE	DEEPEST TEST TH (FT)	
				1980	1980	COMP- LETEO 1980	CO- MPL- 1980	A8- AND- 1980	PROO- UCING END OF YEAR	SUL- FUH PERC- API	ENT			OF GR, PERC- API
*ALBION C +, EDWARDS, WHITE, 1-38, 10-11E, 14W (CONTINUED FROM PREVIOUS PAGE)														
RENAULT, MIS		2988 1980	10			1	1	U				S	8	
AUX VASES, MIS		3045 1942	1770			122	4	0			37	S	18	AF
OHARA, MIS		3110 1943	1840			14	3	U			40	L	5	AC
SPAR MTN, MIS		3130	#			7	0	U			38	L	10	AC
MCCLOSKEY, MIS		3200 1940	#			103	2	0			37	L	12	AC
SALEM, MIS		3596 1980	10			1	1	U				L	8	
ULLIN, MIS		3968 1980	10			1	1	0				L	10	
*ALBION EAST, EDWARDS, 28, 14W														
CYPRESS, MIS		2800 1943	1320	91.8	2376.6	108	8	0		65				A MIS 3600
BETHEL, MIS		2980	300			25	0	0			32	S	7	A
BENOIST, MIS		2925	170			11	0	0			38	S	6	AL
RENAULT, MIS		3001 1980	150			20	0	U				S	10	AC
AUX VASES, MIS		3001	40			2	2	0				S	8	
OHARA, MIS		3020	330			24	2	0			34	S	17	AL
SPAR MTN, MIS		3100 1943	750			16	0	0			36	L	7	A
MCCLOSKEY, MIS		3125 1947	#			22	2	U				L	7	A
		3155	#			18	3	0				L	7	A
ALBION NORTHWEST, EDWARDS, 18, 10E														
MCCLOSKEY, MIS		3300 1967	30	1.0	38.5	3	0	0			2	L	6	MIS 3400
ALBION WEST, EDWARDS, 38, 10E														
OHARA, MIS		1953	40	1.5	12.4	3	0	0			2			MIS 3762
MCCLOSKEY, MIS		3230 1976	40			2	0	0				L	8	
		3375 1953	#			1	0	0				L	5	
*ALLENDALE, WABASH, LAWRENCE, 1-2N, 11-13W														
PLEASANTVIEW, PEN		660 1912	10020	275.1	23625.5	1190	19	9		366				AM OHO 5143
BRIDGEPORT, PEN		1070	6640			0	0	U				S	30	AM
BUCHANAN, PEN		1290	#			0	0	0				S	12	AM
BIEL, PEN		1450	#			0	0	0				S	15	AM
JORDAN, PEN		1490	#			734	6	U			33	S	20	AM
WALTERSBURG, MIS		1540	#			28	0	0				S	10	AM
TAR SPRINGS, MIS		1600	350			31	2	U			31	S	15	AM
MARIONSBURG, MIS		1780	260			23	1	U			30	S	20	AM
CYPRESS, MIS		1920	10			2	0	U			36	S	10	AM
SAMPLE, MIS		1769	1840			91	2	3			34	S	10	AM
BETHEL, MIS		2010	1290			12	0	1			35	S	X	AM
AUX VASES, MIS		2240	#			103	0	2			35	S	10	AM
OHARA, MIS		2300	180			14	0	2			37	S	12	AM
SPAR MTN, MIS		2300	1120			23	3	1				L	10	AM
MCCLOSKEY, MIS		2300	#			15	2	U				L8	5	AM
ST LOUIS, MIS		2275 1967	#			33	4	1			36	L	8	AM
SALEM, MIS		2774 1966	30			3	0	1			39	L	15	
ULLIN, MIS		2806 1966	80			7	0	0			39	L	10	
			30			2	0	U			39	L	12	
ALMA, MARION, 4N, 2E														
CYPRESS, MIS		1805 1941	60	0.0	82.0	6	0	0		U				A OEV 3692
BENOIST, MIS		1945 1942	10			1	0	U			35	S	7	AL
SPAR MTN, MIS		2085 1941	50			6	0	U			36	S	8	AL
			40			2	0	0			36	L	10	AC
AMITY, RICHLAND, 4N, 14W														
AUX VASES, MIS		3060 1942	70	1.3	59.3	5	0	0			2			MIS 3673
MCCLOSKEY, MIS		2960 1942	10			1	0	0				S	10	
			70			5	0	0			36	OL	5	MC
AMITY S, RICHLAND, 4N, 14W														
SPAR MTN, MIS		2890 1953	80	63.8	79.5	6	4	0			5 38	L	4	MIS 3050
AMITY W, RICHLAND, 4N, 14W														
AUX VASES, MIS		2925 1953	10	0.0	0.0	1	0	0			0 38	S	12	MIS 3100
ASHLEY, WASHINGTON, 2S, 1W														
BENOIST, MIS		1430 1953	210	8.4	494.9	15	0	0			13 30	S	7	OEV 3116
ASHLEY E, WASHINGTON, 2S, 1W														
BENOIST, MIS		1636 1969	60	1.1	63.8	5	0	0			5	S	6	MIS 2030

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR OF DISC- OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE			DEEPEST TEST
				OUR- ING 1980	TO END OF 1980	COM- PLET- ED TO END OF 1980	CO- MPL- ED IN 1980	AB- AND- ONE 1980	PROO- UCING END OF YEAR	SUL- FUR PERC- ENT	KING OF ROCK	THI- CK- ESS	STR- UCT- URE	UEP- TH (FT)	
ABHMORE E, COLES, 13N, 14W	PENNSYLVANIAN	415 1956	60	0,1	0,5	6	0	0	4	30	8	14	DEV	1226	
			ABU 1957, REV 1962												
ABHMORE B +, COLES, CLARK, 12N, 10-11E, 14W		1958	320	1,9	56,4	24	0	1	16				TRN	2260	
	UNNAMED, PEN	420 1958	320			23	0	1	24		8	X AL			
	MISSISSIPPIAN	475 1963	20			1	0	0	36		L	17			
ASSUMPTION CEN, CHRISTIAN, 13N, 1E	DEVONIAN	2433 1961	10	0,0	0,0	1	0	0	0	38	L	4	SIL	2566	
			ABU 1961												
ASSUMPTION C, CHRISTIAN, 13-14N, 1E		1948	2480	53,6	10438,9	189	1	0	56				ORO	3070	
	BENOIST, MIS	1050 1948	590			47	0	0	36		8	13 A			
	SPAR HTN, MIS	1170 1948	220			17	0	0	40		8	4 AL			
	LINGLE, DEV	2300 1948	2320			127	1	0	38		L	A A			
ASSUMPTION B, CHRISTIAN, 12N, 1E	LINGLE, DEV	2630 1951	50	0,5	24,1	3	0	0	1	39	L	15	BIL	2600	
AVA-CAMPBELL MILL +, JACKSON, 7S, 3-4W	CYPRESS, MIS	780 1916	140	0,0	25,0	16	0	0	0	36	8	18 A	THN	3582	
			ABU 1943, REV 1956, ARO 1957												
BALDWIN, RANDOLPH, 4S, 6W	SILURIAN	1535 1954	30	0,2	12,0	3	0	0	1	32	L	X W	THN	2234	
BANNISTEN, MARION, 2N, 3E	AUX VASE, MIS	2570 1973	10	0,0	8,6	1	0	0	0		8	5	DEV	4226	
			ARO 1978												
BARNHILL, WAYNE, WHITE, 2-3S, 8-9E		1939	2210	55,9	6368,5	188	5	0	74				DEV	5500	
	AUX VASE, MIS	3325 1943	1140			89	1	0	39		8	15 AL			
	OWARA, MIS	3370	1250			9	0	0			DL	6 AC			
	SPAR HTN, MIS	3400	0			12	1	0			LS	9 AC			
	MCCLOSKEY, MIS	3450 1939	0			79	1	0	38	0,17	DL	15 AC			
	ST LOUIS, MIS	3520	10			1	0	0	38		L	7 AC			
	SALEM, MIS	3795	240			11	2	0	39		L	8 AC			
BARTELO, CLINTON, 1-2N, 3W		1936	600	31,3	4227,8	115	1	0	47				STP	4212	
	CARLYLE (CYP), MIS	985 1936	420			76	0	0	36	0,20	8	15 J			
	SILURIAN	2420 1939	410			40	1	0	42	0,27	L	12 K			
BARTELO E, CLINTON, 1N, 3W	SILURIAN	2550 1950	210	8,4	956,8	21	0	2	16	42	L	7 W	BIL	2788	
BARTELO S, CLINTON, 1N, 3W	DEVONIAN	2475 1942	60	0,0	23,7	3	0	0	0	40	0,15	L	3 A	DEV	2652
			ARO 1962												
BARTELO W, CLINTON, 1N, 3-4W		1945	290	2,4	103,2	21	0	4	10				SIL	2600	
	CYPRESS, MIS	960 1945	290			18	0	4	36		8	15 A			
	SILURIAN	2439 1961	10			1	0	0	40		L	7 A			
BEAUCOUP, WASHINGTON, 2S, 2W		1951	260	1,7	383,3	14	0	0	10				TRN	4192	
	CLEAR CREEK, DEV	3050 1951	260			14	0	0	39		L	12 A			
	TRENTON, ORO	4095 1952	10			1	0	0	39		L	5 A			
BEAUCOUP S, WASHINGTON, 2S, 2W	BENOIST, MIS	1430 1951	260	5,5	1070,6	22	0	0	12	35	8	9 AL	ORO	4170	

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA	PRODUCTION		NUMBER OF WELLS			CHARACTER OF OIL			DEEPEST TEST				
				VEU IN ACRES	OUR-ING 1980	TO END OF 1980	COMP-LETO ENO OF 1980	CO-ETEO IN ONED 1980	AB-ONED 1980	PROO-UCING ENO OF YEAR	SUL-FUR PERC-ENT	PAY ZONE	THI-STR-UCT-URE	DEP-TM (FT)		
*BEAVER CREEK, BOND, CLINTON, 3-4N, 2-3W																
BENOIST, M18		1130 1942	180	4.1	294.7	17	0	1	4	34	0.25	8	6	A	SIL	2558
BEAVER CREEK N, BOND, 4N, 3W																
BENOIST, M18		1115 1949	80	0.0	0.7	6	0	0	0	24		3	4	A	DEV	2556
*BEAVER CREEK S, CLINTON, BOND, 3-4N, 2-3W																
CYPRESS, M18		1005 1946	390	9.9	753.0	54	1	1	25			8		A	SIL	2606
BETHEL, M18		1076 1974	20			2	0	1				3	7			
BENOIST, M18		1140 1946	10			1	0	0				3	5	A		
BECKEMEYER GAS, CLINTON, 2N, 3W																
CYPRESS, M18		1070 1956	10	0.0	0.0	1	0	0	0			3	23		SIL	2730
*BELLAIR, CRAWFORD, JASPER, 8N, 14W																
(500 FT), PEN		560 1907	2230	X	X	544	1	1	70					AM	DEV	2732
(800 FT), PEN		815	2140			315	0	0		29		3	30	AM		
(900 FT), M18		885				77	0	1		37		3	X	AM		
CYPRESS, M18		950	70			190	0	0		37		8	X	AM		
BENOIST, M18		1000	420			5	0	0		36		3	4	AM		
RENAULT, M18		830	30			6	0	0		37		8	10	AM		
AUX VASES, M18		800	220			12	1	0		38		3	X	AM		
OHARA, M18		860	30			1	0	0		37		L	4	A		
CARPER, M18		1748 1969	50			4	0	0				3	14			
SEE CLARK COUNTY DIV. FOR PRODUCTION																
BELLE PRAIRIE, HAMILTON, 4S, 6-7E																
MCCLOSKEY, M18		3420 1940	300	10.4	1103.6	17	0	0	9	36	0.12	L	6	AC	DEV	5483
BELLE PRAIRIE W, HAMILTON, 4S, 5E																
SALEM, M18		4120 1959	110	44.4	45.2	10	9	0	9			L	10		MIS	4430
ULLIN, M18		4206 1959	70			6	4	0				L	6			
*BELLE RIVE, JEFFERSON, 3S, 4E																
MCCLOSKEY, M18		3085 1943	130	5.6	411.4	8	2	0	5			L	6	AC	DEV	5200
ULLIN, M18		3981 1980	110			6	0	0		37	0.50	L	4			
DEVONIAN		4932 1980	10			1	1	0				L	4			
BELLMONT, WABASH, 1S, 13-14W																
BETHEL, M18		2650 1951	30	0.0	73.0	4	0	0	0			3	7	M	MIS	3006
OHARA, M18		2840 1951	10		11.0	1	0	0		38		S	7	ML		
*BEMAN, LAWRENCE, 3N, 11W																
AUX VASES, M18		1405 1942	530	2.5	330.6	34	0	0	8			3	20	A	DEV	3410
STE, G, M18		1850 1942	100			8	0	0		38		L	7	AC		
BEMAN E, LAWRENCE, 3N, 10W																
AUX VASES, M18		1805 1947	130	0.0	116.0	9	2	0	2			8	20	A	MIS	2519
STE, G, M18		1860 1947	30			5	2	0		38		L	7	AC		
*BENNINGTON S, EDWARDS, 1N, 10E																
MCCLOSKEY, M18		3240 1944	10	0.0	10.4	1	0	0	0	37		L	A	MC	MIS	3420
*BENTON, FRANKLIN, 6S, 2-3E																
PENNSYLVANIAN		1700 1941	2360	38.9	40067.4	268	0	6	74			8	9	A	TRN	6250
TAR SPRINGS, M18		2100 1941	20			2	0	0		33		8	10	A		
AUX VASES, M18		2752 1959	2360			249	0	4		38		8	15	A		
OHARA, M18		2804 1959	300			21	0	2		38		L	8	A		
MCCLOSKEY, M18		2906 1960	190			13	0	0				L	8	A		
ST, LOUIS, M18		2990 1960	8			5	0	0		37		OL	4	AC		
(CONTINUED ON NEXT PAGE)			10			1	0	0		38		L	6	A		

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- VEO IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL				DEEPEST 7687		
				OUR- ING 1980	TO END OF 1980	LE7EO TO 1980	MPL- CO- ETED 1980	AS- AND- ONED 1980	PROO- UCING END OF YEAR	SUL- FUR- PERC- ENT	GR, API	PAY ZONE	DEP- TH (FT)			
(CONTINUED FROM PREVIOUS PAGE)																
BENTON, FRANKLIN, 6S, 2-3E	ULLIN, MIS	3705	1960	10			1	0	0		38	L	5	A		
BENTON N, FRANKLIN, 5-6S, 2E			1941	830	23,7	3970,5	82	0	0		5			A	OLV 4750	
	CYPRESS, MIS	2460	1944	100			14	0	0		38	8	17	A		
	PAINT CREEK, MIS	2501	1962	400			15	0	0		38	8	8	A		
	BETHEL, MIS	2600	1942	#			21	0	U		38	0,15	8	20	AL	
	AUX VABES, MIS	2685		200			16	0	0		39	0,15	8	10	A	
	OHARA, MIS	2730		470			13	0	0		36	0,70	L	8	A	
	SPAR MTN, MIS	2775	1941	#			4	0	0		36	0,15	L	6	A	
	MCCLOSKEY, MIS	2800		#			20	0	0		34		L	10	A	
	87 LOUIS, MIS	3062	1979	10			1	0	0				L	10		
BERRY, SANGAMON, 15N, 3W			1961	650	7,5	597,8	44	0	U		20				SIL 1964	
	DEVONIAN	1743	1962	60			2	0	U		38	8	4			
	SILURIAN	1736	1961	590			42	0	U		38	L	35			
BERRYVILLE C, WABASH, EDWARDS, RICHLAND, LAWRENCE, 1-2N, 14W			1943	570	13,6	1647,5	33	2	1		7			M	MIS 3903	
	OHARA, MIS	2900	1943	560			6	0	U		39	L	6	MC		
	SPAR MTN, MIS	2850	1943	#			13	0	1			L	12	MC		
	MCCLOSKEY, MIS	2890	1947	#			14	2	U		36	L	10	MC		
	SALEM, MIS	3370	1975	10			1	0	U			L	10			
	ULLIN, MIS	3605	1975	10			1	0	U			L	10			
BESSIE, FRANKLIN, 6S, 3E				70	48,0	242,9	6	4	U		6	39	0,15	L	10	MC
	OHARA, MIS	2695	1943	10			1	0	0			L	10	MC	MIS 3900	
	SALEM, MIS	3159	1980	20			2	2	0			L	26			
	ULLIN, MIS	3625	1979	60			4	3	U			L	6			
BLACK BRANCH, SANGAMON, 15N, 4W	SILURIAN	1600	1967	350	4,9	602,0	24	0	1		16	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	
				ABU 1974												
BLACKLAND, MACON, CHRISTIAN, 15N, 1E-1W	SILURIAN	1935	1953	390	0,9	495,2	42	0	U		4	39	L	12	MU ORO 3780	
BLACKLAND N, MACON, 16N, 1E	SILURIAN	1948	1960	280	1,8	250,3	24	2	U		6	39	L	11	M SIL 2104	
BLACK RIVER, WHITE, 4S, 13W			1952	120	15,0	68,4	11	3	U		10				MIS 3075	
	CLORE, MIS	1865	1952	110			10	2	U		36	8	6			
	MCCLOSKEY, MIS	2973	1980	10			1	1	0			OL	3			
				ABU 1974, REY 1978												
BLAINSVILLE W, HAMILTON, 4S, 7E			1948	180	0,0	408,3	10	0	0		1			A	MIS 3507	
	AUX VABES, MIS	3250	1948	30			3	0	U							
	SPAR MTN, MIS	3345		160			1	0	0			L	6	AC		
	MCCLOSKEY, MIS	3405	1951	#			10	0	U		37	L	8	AC		
BLUFORD, JEFFERSON, 2S, 4E	MCCLOSKEY, MIS	3060	1961	30	1,2	159,8	2	0	U		1	38	OL	6	MIS 3833	
BOGOTA, JASPER, 6N, 9E			1943	190	1,0	537,0	10	0	U		1			A	MIS 3234	
	SPAR MTN, MIS	3090		190			1	0	U			L	4	AC		
	MCCLOSKEY, MIS	3110	1943	#			9	0	U		39	L	7	A		
BOGOTA N, JASPER, 6N, 9E																
(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) OVERY	AREA PRO- VEO ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST ZONE TH (FT)	
				1980	TO 1980	COMP- LETEO 1980	CO- MPL 1980	AS- AND 1980	PROO- UCING 1980	BUL- PERC- ENT	PERC- ENT			OF GR.
(CONTINUED FROM PREVIOUS PAGE)														
BOGOTA N, JASPER, 6N, 9E	MCCLOSKEY, MIB	3080 1949	20	0.0	0.0	2	0	0	1	37	L	3	MIB	3647
ABO 1950, REV 1973														
BOGOTA S, JASPER, 5-6N, 9E	MCCLOSKEY, MIB	3075 1944	300	1.8	547.9	23	0	0	3	37	L	8	MC	MIB 3712
BOGOTA W, JASPER, 6N, 9E	MCCLOSKEY, MIB	3080 1966	10	0.0	0.0	1	0	0	0	37	0	6	MIB	3655
ABO 1967														
*BONE GAP C, EDWARDS, 18, 10-13E, 14W														
		1941	1300	28.0	2674.5	76	3	1	29				A	MIB 4240
PENNSYLVANIAN		2110 1952	10			1	0	0	32		3	8	AL	
WALTERSBURG, MIB		2310 1951	170			17	0	1	35		3	20	A	
CYPRESS, MIB		2710 1947	100			7	0	0	37		8	10	A	
BETHEL, MIB		2880 1952	150			10	2	0	39		8	14	AL	
AUX VASES, MIB		3020 1947	10			1	0	0	36		3	9	AL	
OHARA, MIB		3040 1948	960			10	0	0	34		L	5	AC	
SPAR MTN, MIB		3045 1947	4			7	0	0	35		L	5	AC	
MCCLOSKEY, MIB		3200 1941	4			25	1	0	38	0.33	L	6	AC	
BONE GAP E, EDWARDS, 18, 14W														
		1951	190	10.0	106.6	15	0	0	11				M	MIB 4000
OHARA, MIB		2080 1951	70			6	0	0			L	10	MC	
MCCLOSKEY, MIB		3050	0			1	0	0	36		L	5	MC	
SALEM, MIB		3555 1974	120			9	0	0			L	4		
ABO 1956, REV 1974														
BONE GAP W, EDWARDS, 18, 10E														
STE, BEN, MIB		3290 1954	100	0.0	31.0	5	0	0	3	36	L	5	MIB	3504
ABO 1975, REV 1964														
*BOULDER +, CLINTON, 2-3N, 2W														
		1941	500	0.0	8120.0	55	0	0	0				U	TRN 3613
BENOIST, MIB		1190 1942	500			33	0	0	37		3	20	U	
GENEVA, DEV		2630 1941	470			22	0	0	20	0.33	0	7	M	
SILURIAN		2700 1963	40			1	0	0	40		L	4		
ABO 1965														
BOULDER E +, CLINTON, 3N, 1W														
DEVONIAN		2650 1955	60	11.7	244.8	6	1	0	4	39	L	5	DEV	2946
*BOURBON C, OUGLAS, 15N, 7E														
		1956	1060	6.6	1818.0	94	1	0	27					2709
AUX VASES, MIB		1512 1980	10			1	1	0			3	4		
SPAR MTN, MIB		1600 1956	1050			02	0	0	34		L3	12	MC	
MCCLOSKEY, MIB		1715 1976	0			1	0	0			L	5		
BOURBON S, OUGLAS, 15N, 7E														
SPAR MTN, MIB		1693 1960	50	0.3	8.4	3	0	0	2	34	3	12	MC	MIB 1780
ABO 1964, REV 1976														
BOHYER, RICHLAND, 5N, 14W														
		1958	20	0.0	11.7	2	0	0	0					MIB 2950
SPAR MTN, MIB		2883 1958	10			1	0	0	36		3	1		
MCCLOSKEY, MIB		2676 1971	10			1	0	0			L	5		
ABO 1967, REV 1971, ABO 1972														
*BOYU, JEFFERSON, 18, 1-2E														
		1944	1490	15.1	14931.1	127	0	0	39				A	TRN 5400
BENOIST, MIB		2060 1944	1450			114	0	0	35	0.14	3	19	A	
AUX VASES, MIB		2130 1944	660			48	0	0	37		3	15	A	
OHARA, MIB		2230 1945	30			24	0	0	39		L	1	P AC	
TRENTON, ORO		5000 1967	80			5	0	0					X	
BROUGHTON, HAMILTON, 68, 7E														
		1951	380	57.3	227.3	23	4	0	19					MIB 4446
MCCLOSKEY, MIB		3275 1951	200			11	4	0	37		L	5		
SALEM, MIB		4024 1978	20			3	0	0			L	35		
ULLIN, MIB		4190 1977	160			9	0	0			L	10		
ABO 1954, REV 1977														

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF DISC- OVERY	AREA PRO- VEO IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE	DEEPEST TEST		
				OUR- ING 1980	TO ENO OF 1980	COMP- LETEO TO 1980	CO- MPL- ETEO IN 1980	A8- AND ON&O 1980	PROD- UCING END OF YEAR	BUL- PUR PERC- API	BUL- PUR PERC- API			KIND OF ROCK	THI- CKN- ESS
BROUGHTON N, HAMILTON, 68, 7E															
AUX VASES, M18		1980	10	1.9	1.9	1	1	0	1				M18	4330	
BROUGHTON S, SALINE, 78, 7E															
TAR SPRINGS, M18		1951	20	0.0	0.1	2	0	0	0				M18	3300	
MCCLOSKY, M18		1974	10			1	0	0							
		1951	10			1	0	0		36		L	4		
ABU 1952, REV 1974, AB0 1976															
BROWN, MARION, 1N, 1E															
CYPRESS, M18		1910	120	2.5	140.5	12	0	0	10	36			M18	2036	
BROWNS, EDWARDS, WABASH, 1-28, 14W															
BIEHL, PEN		1943	1110	25.6	2840.9	72	3	0	35				A	DEV	5200
TAR SPRINGS, M18		1962	10			1	0	0							
CYPRESS, M18		1967	40			1	0	0							
BETHEL, M18		1943	380			26	0	0		36	0.18				
AUX VASES, M18		1944	80			5	0	0		39					
OMARA, M18		1965	10			1	0	0		36					
SPAR MTN, M18		1946	810			13	2	0		34					
MCCLOSKY, M18		1947	8			1	0	0							
ST LOUIS, M18		1944	8			35	0	0		38					
		1980	10			1	1	0							
BROWNS E, WABASH, 1-28, 14W															
PENNSYLVANIAN		1946	900	4.7	2969.8	77	1	0	18				M18	3729	
CYPRESS, M18		1963	10			1	0	0		32					
SPAR MTN, M18		1946	790			72	0	0		36					
SALEM, M18		1977	70			3	0	0							
		1976	50			5	1	0							
BROWNS S, EDWARDS, 28, 14W															
WALTERSBURG, M18		1943	120	5.6	137.4	11	0	0	8				M18	3670	
BETHEL, M18		1976	10			1	0	0							
AUX VASES, M18		1943	60			5	0	0		38					
OMARA, M18		1947	40			5	0	0		36					
		1976	20			2	0	0							
ABU 1968, REV 1970															
BRUBAKER, MARION, 3N, 3E															
SPAR MTN, M18		1973	180	30.3	376.1	12	1	0	10				M18	5200	
MCCLOSKY, M18		1975	50			2	0	0							
ST LOUIS, M18		1975	8			1	0	0							
SALEM, M18		1976	40			3	0	0							
DEVONIAN		1974	20			2	1	0							
		1973	70			4	0	0		34					
BUCKHORN, BROWN, 1-25, 4W															
SILURIAN		1961	50	0.0	0.0	6	1	0	5	37			M18	705	
ABU 1964, REV 1973															
BUCKNEH, FRANKLIN, 68, 2E															
AUX VASES, M18		1963	150	58.1	145.9	10	3	0	8	38			M18	3060	
BULPITT S, CHRISTIAN, 13N, 3W															
DEV-SIL		1962	60	0.0	3.4	4	0	0	0	38			M18	1990	
ABU 1969															
BUNGAY C, HAMILTON, 48, 7E															
RENAULT, M18		1941	3310	45.9	14415.9	258	2	0	75				A	DEV	5566
AUX VASES, M18		1941	550			22	0	0		39					
OMARA, M18		1941	2740			197	1	0		39	0.24				
SPAR MTN, M18		1943	390			5	0	0							
MCCLOSKY, M18		1943	8			3	0	0							
ULLIN, M18		1959	10			20	2	0		36	0.24				
			10			1	0	0		36					
BURNT PRAIRIE S, WHITE, 48, 9E															
AUX VASES, M18		1947	60	0.5	31.7	7	2	0	4	37			M18	3600	
OMARA, M18		1947	20			2	1	0							
MCCLOSKY, M18		1947	50			1	0	0		38					
			8			4	1	0							

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF UISC- (FY) OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST	
				1980	TO END OF 1980	COM- LETE TO END OF 1980	CO- MPL AND 1980	AB- AND 1980	PROD- UCING END OF YEAR	GR. API	PERC- ENT	SUR- FUR RUCK	KIND OF	THI- CK- ESS	STR- UCY- UNE	DEP- TH ZONE YH (FT)
BURNT PRAIRIE SW, WHITE, 48, SE																
		1979	360	173,7	300,3	28	7	1		27					MIS	3596
AUX VASEB, MIS		3336 1979	90			8	3	1						3	6	
OHARA, MIS		3436 1979	270			3	0	0						L	8	
SPAR MTN, MIS		3451 1979	0			2	0	0						8	4	
MCCLOSKY, MIS		3513 1979	0			16	4	0						L	4	
CALMOUN GEN, RICHLAND, 2N, 10E																
		1950	30	0,0	0,5	3	0	0		0					M	MIS
SPAR MTN, MIS		3245	30			2	0	0						L	6	MC
MCCLOSKY, MIS		3280 1950	8			1	0	0		37				L	3	MC
ABO 1952, REV AND ABO 1959																
CALMOUN C, RICHLAND, WAYNE, 2-3N, 9-10E																
		1944	1990	14,2	4169,4	112	2	1		15					A	SIL
OHARA, MIS		3140 1944	1980			22	0	0		39				OL	9	A
SPAR MTN, MIS		3160	8			25	0	0		37				OL	6	A
MCCLOSKY, MIS		3180 1944	8			66	2	1		39	0,15			OL	10	A
BY LOUIS, MIS		3370 1967	10			1	0	0		30				L	9	
SALEM, MIS		3730 1967	20			2	0	0		39				L	8	
CALMOUN E, RICHLAND, 2N, 10-11E																
		1950	160	1,1	331,7	10	1	0		1	39			L	5	MC
MCCLOSKY, MIS		3265														MIS
ABO 1977, REV 1980																
CALMOUN N, RICHLAND, 3N, 10E																
		1944	60	1,8	86,6	4	0	0		1					A	MIS
SPAR MTN, MIS		3155 1944	60			1	0	0						LS	10	A
MCCLOSKY, MIS		3170 1944	8			4	0	0		36				OL	11	A
CALMOUN S, WAYNE, RICHLAND, EDWARDS, 1-2N, 9E																
		1953	570	10,8	731,2	34	0	0		12						MIS
AUX VASEB, MIS		3175 1953	20			2	0	0		36				L	5	
OHARA, MIS		3232 1963	550			4	0	0						L	8	
SPAR MTN, MIS		3224 1962	8			17	0	0						L	5	
MCCLOSKY, MIS		3209 1961	8			20	0	0		37				OL	6	
ABO 1953, REV 1961																
CARLINVILLE W, MACOUPI, 9N, 7W																
		1909	40	0,0		8	0	0		2	26			3	4	A
UNNAMED, PEN		380														MIS
ABO 1925, REV 1942																
CARLINVILLE N W, MACOUPTN, 10N, 7W																
		1941	100	0,0	1,0	16	0	0		0	20	0,35		3	10	THN
POTTSVILLE, PEN		440														1970
ABO 1954																
CARLINVILLE S, MACOUPI, 9N, 7W																
		1958	10	0,0	0,0	1	0	0		0	26			8	4	PEN
PENNSYLVANIAN		539														1020
ABO 1964																
CARLYLE, CLINTON, 2N, 3W																
		1911	1310	23,2	4255,7	204	0	0		31					A	STP
GOLCONDA, MIS		900 1952	10			7	0	0		35				L	10	AC
CARLYLE(CYP), MIS		1035 1911	1300			202	0	0		35	0,26			3	20	AL
CARLYLE E, CLINYON, 2N, 2W																
		1963	30	0,2	0,6	2	0	0		1	34			3	4	MIS
BENOIST, MIS		1197														1245
ABO 1972, REV 1978																
CARLYLE N, CLINTON, 3N, 3W																
		1950	530	11,4	954,8	45	0	0		31	34			8	6	AL
BENOIST, MIS		1150														OEY
2550																
CARLYLE S, CLINYON, 1N, 3W																
		1951	20	0,0	2,0	2	0	0		0	35			3	4	MIS
CYPRESS, MIS		1075														1194
ABO 1953																
CARRI, WHITE, 58, 9E																
		1940	250	2,8	404,5	21	0	0		3					M	MIS
PENNSYLVANIAN		1210	10			1	0	0		32				3	10	ML
CYPRESS, MIS		2800	100			4	0	0		38				8	15	ML
AUX VASEB, MIS		3145	50			5	0	0		37				8	8	ML
MCCLOSKY, MIS		3150 1940	110			4	0	0		35				OL	6	MC
ABO 1949, REV 1952																

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OEP- TH (FT)	AREA PRD- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL		PAY ZONE			DEEPEST TEST		
				OUR- ING 1980	TO END OF 1980	COM- TO 1980	CO- MPL 1980	AS- AND- 1980	PROD- UCING END OF YEAR	SUL- FUR PERC- ENT	KIND UP ROCK	THI- CKN- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)			
CARMEL N, WHITE, 58, 9E																		
CYPRESS, MIS		1942	80	2.1	300.4	6	0	0		3						MIS	3452	
SAMPLE, MIS		3080 1954	20			1	0	0		38	8				13	AF		
AUX VASES, MIS		3270 1942	10			1	0	0		37	8				12	AF		
			60			5	0	0		36	0.14	8			14	AF		
CABEY, CLARK, 10-11N, 14W																		
UPPER GAS, PEN		1906	3040	X	X	516	1	0	U	228						AM	TWN	2608
LOWER GAS, PEN		265	2730			43	0	0		32	8				X	AM		
CABEY, PEN		300	#			90	1	0		30	8				X	AM		
CAMPER, MIS		445	#			373	0	0		35	8				10	AM		
		1300	250			20	0	0		38	8				50	AM		
SEE CLARK COUNTY DIV FOR PRODUCTION																		
CENTERVILLE, WHITE, 48, 9E																		
AUX VASES, MIS		1940	190	0.6	534.1	13	0	0		1					N	MIS	3919	
OHARA, MIS		3240 1953	10			1	0	0		37	8				6	ML		
SPAR MTN, MIS		3310	190			6	0	0		38	L				10	NC		
MCCLOSKEY, MIS		3370	#			2	0	0			L				8	NC		
		3370 1940	#			6	0	0		37	0.17	OL			4	NC		
CENTERVILLE E, WHITE, 3-4S, 9-10E																		
PALESTINE, MIS		1941	1310	35.4	8554.9	140	4	0		64					A	MIS	4442	
TAN SPRINGS, MIS		2225 1950	20			2	0	0		35	8				3	ALF		
HARDINGSBURG, MIS		2500	820			35	0	0		38	0.20	8			24	ALF		
CYPRESS, MIS		2615 1950	40			1	0	0		36	8				22	ALF		
BETHEL, MIS		2915 1941	650			48	1	0	U	37	8				6	ALF		
AUX VASES, MIS		2990 1942	220			20	0	0		38	8				20	ALF		
OHARA, MIS		3075	530			39	1	0		37	8				21	ALF		
SPAR MTN, MIS		3175	350			5	1	0		36	OL				5	ACF		
MCCLOSKEY, MIS		3185	#			1	0	0			L8				6	ACF		
		3230	#			17	1	0	U	37	OL				7	ACF		
CENTERVILLE N, WHITE, 38, 10E																		
BETHEL, MIS		2990 1947	10	0.0	0.0	1	0	0		0	36	8			13	ML	MIS	3532
			A80 1948															
CENTERVILLE N E, WHITE, 38, 10E																		
BETHEL, MIS		3055 1955	10	0.0	5.6	1	0	0		0	38	8			14		MIS	3407
			A80 1959															
CENTRAL CITY, MARION, 1N, 1E																		
PENNSYLVANIAN		026 1964	130	3.0	81.1	13	0	0		11	33	8			10		MIS	1942
CENTRALIA, CLINTON, MARION, 1-2N, 1E, 1W																		
PETRO, PEN		1937	2980	126.5	57725.2	1021	0	1		234					A	OND	4170	
CYPRESS, MIS		765 1958	30			4	0	0		32	8				X	A		
BENOIST, MIS		1200	1530			57	0	1		37	0.20	8			12	A		
DEVONIAN		1355 1937	2510			577	0	0		38	0.17	8			20	A		
TRENTON, OND		2870 1939	2610			319	0	0		40	0.38	L			9	A		
		3930 1940	1100			59	0	0		40		L			22	A		
CENTRALIA N, CLINTON, 1N, 1W																		
CYPRESS, MIS		1940	90	0.7	422.1	10	0	0		1					N	DEV	3021	
BENOIST, MIS		1308 1940	10			1	0	0		35	8				4	N		
		1440 1940	90			9	0	0		36	0.17	8			9	N		
CHESTERTONVILLE, DOUGLAS, 15N, 7E																		
SPAR MTN, MIS		1780 1956	50	0.1	36.5	5	0	0		1	39	L8			8	ML	MIS	1829
CHESTERTONVILLE E, DOUGLAS, 14-15N, 7-8E																		
SPAR MTN, MIS		1720 1957	400	0.0	1164.4	41	0	0		0	39	8			10	NC	MIS	1785
			A80 1974															
CHRISTOPHER S, FRANKLIN, 7S, 1E																		
AUX VASES, MIS		1964	30	0.0	9.9	3	0	0		0							MIS	2620
OHARA, MIS		2620 1964	30			3	0	0		38	8				8			
		2690 1964	10			1	0	0		37	L				10			
			A80 1969															
CLAREMONT, RICHLAND, 3N, 14W																		
SPAR MTN, MIS		1950	100	0.0	20.2	8	0	0		0							MIS	4065
		3200 1950	100			5	0	0			8				5			

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA	PRODUCTION		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST	
				PRO- VEO IN ACRES	OUH- IN INCH	COMP- LETTED TO 1980	CO- MPL- IN 1980	AS- AND 1980	PROD- UCING END OF YEAR	SUL- FUR PERC- ENT	API	MINI- UP KUCK			THI- CN- ESS
	NAME AND AGE	DEP- TH (FT)	UIISC- OVERY	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	(FT)
CLAREMONT, RICHLAND, 3N, 14W (CONTINUED FROM PREVIOUS PAGE)															
MCCLOSKEY, MIB		3218	1969	#				3	U	U			L	#	
				ARU	1971										
CLARK COUNTY DIV, CLARK, COLES, CRAWFORD, CUMBERLAND, JASPER															
		1900		26990	327,5	86934,1	5857	27	2	1643				OKO	4519
				INCL	BELLAIR	CABEY	JUMNSON	N,8	MARTINSVILLE	BIGGING	WESTFLY	YONK			
CLARKSBURG, SHELBY, 10N, 4E															
AUX VASES, MIB		1770	1946	50	5,2	100,6	5	0	0	2	36		S	6	A DEV 3206
CLAY CITY C, CLAY, WAYNE, RICHLAND, JASPER, 1-7N, 1-28, 6-11E															
		1937		97290	3127,0	320346,9	6678	146	67	2387				A	PC 11614
WALTERSBURG, MIB		2175	1952	10			1	0	U		36		S	6	AL
TAR SPRINGS, MIB		2560	1949	130			A	0	0		38		S	15	AL
CYPRESS, MIB		2635	1937	8240			579	2	1		36		S	15	AL
BETHEL, MIB		2800		310			28	5	U		39		S	15	AL
AUX VASES, MIB		2940	1942	31740			2159	37	21		36		S	15	AL
OHARA, MIB		3020		67090			254	4	2		36		OL	5	AC
SPAR MTN, MIB		3030		#			660	8	9		36		LB	8	AC
MCCLOSKEY, MIB		3050	1937	#			3181	59	30		39		OL	10	AC
ST. LOUIS, MIB		3025	1949	2940			246	11	4		36		L	3	A
SALEM, MIB		3590	1950	6680			402	53	6		39		L	10	A
ULLIN, MIB		3600	1952	380			29	5	1		40		L	17	A
CARPER, MIB		3606	1979	50			2	1	U		35		S	6	
LINGLE, DEV		4350	1949	20			1	0	U		39		L	10	A
CLEAR LAKE E, SANGAMON, 16N, 4W															
SILURIAN		1596	1970	40	0,4	24,4	2	0	U		1	25		L	12 31L 1653
CLIFFORD, WILLIAMSON, 8S, 1E															
AUX VASES, MIB		2380	1957	40	0,0	15,0	2	0	U		0				MIB 2625
SPAR MTN, MIB		2470	1957	20			1	0	U		36		S	7	
MCCLOSKEY, MIB		2540	1957	#			1	0	U		36		L	5	
				ARU	1965										
COIL, WAYNE, 18, 5E															
AUX VASES, MIB		2910	1942	540	61,2	3165,7	38	3	U		26			A	MIB 3756
MCCLOSKEY, MIB		3065	1942	370			25	3	U		39	0,12	S	10	A
ST LOUIS, MIB		3021	1967	100			1	0	U		36		UL	15	AC
SALEM, MIB		3510	1977	90			8	0	U				L	9	
													L	14	
COIL W, JEFFERSON, 18, 4E															
AUX VASES, MIB		2720	1944	580	38,9	1240,7	53	4	0		23			A	MIB 3666
OHARA, MIB		2790	1942	180			15	0	U		39		S	15	AL
SPAR MTN, MIB		2805		220			11	0	U				L	7	AC
MCCLOSKEY, MIB		2880	1942	#			2	0	U				L	8	AC
ST LOUIS, MIB		3040	1967	160			15	0	U		39		L	7	
SALEM, MIB		3546	1961	220			16	4	U		37		L	10	A
COLLINSVILLE, MADISON, 3N, 8W															
SILURIAN		1305	1909	40	0,0	1,0	6	0	U		U	37		L	20 HL STP 2177
				ARU	1921										
COLMAN-PLYMOUTH, HANCOCK-MCDONOUGH, 4-5N, 4-5W															
MOING, DEV		450	1914	2520	22,7	5046,5	505	0	U		67	35	0,38	S	14 AL SHK 1095
CONCORD C, WHITE, 6S, 10E															
TAR SPRINGS, MIB		2270	1945	2060	142,4	8563,2	194	6	U		76			A	DEV 5313
HAROLDSBURG, MIB		2510	1954	350			26	0	0		36		S	11	AL
CYPRESS, MIB		2625	1944	350			30	0	U		36		S	7	A
AUX VASES, MIB		2905	1942	270			19	0	U		37		S	10	AL
OHARA, MIB		2930	1943	670			49	0	U		36	0,15	S	14	AL
SPAR MTN, MIB		3035		1080			2	0	U				L	8	AC
MCCLOSKEY, MIB		2990		#			3	0	0				L	8	AC
ST LOUIS, MIB		3370	1976	220			56	0	0		37		L	10	AC
ULLIN, MIB		3900	1975	360			16	0	U				L	7	
							20	6	U				L		
CONCORD E C, WHITE, 6-7S, 10E															
		1942		420	2,8	696,9	39	0	0		12			A	MIB 3125
(CONTINUED ON NEXT PAGE)															

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (# SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND ABE	YEAR DEP- TH (FT)	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST
				DUR- ING 1960	TO END OF 1960	COM- PLET- ED 1960	CU- R- ED 1960	AB- AND- ONED 1960	PROD- UCING END OF YEAR	GR. API	SUL- FUR PERC- ENT	KIND OF RUCK	THI- CK- NESS	STR- UC- TURE	ZONE
(CONTINUED FROM PREVIOUS PAGE)															
CONCORD E C, WHITE, 6-78, 10E															
WALTERSBURG, MIS		2140	40			4	0	0		33	8	10	A		
TAR SPRINGS, MIS		2175	70			5	0	0		36	8	4	A		
CYPRESS, MIS		2540	190			18	0	0		38	8	6	A		
RENAULT, MIS		2800	20			2	0	0		36	L	6	A		
AUX VASES, MIS		2825	70			7	0	0		36	8	12	A		
OMARA, MIS		2895	120			3	0	0			L	6	AC		
SPAR MTN, MIS		2895	#			5	0	0			8	5	AC		
MCCLOSKEY, MIS		2965	#			3	0	0		37	L	2	AC		
#COOKS MILLS C #, COLES, DOUGLAS, 13-14N, 7-8E															
		1961	3150	13.3	3095.6	255	7	0		60				A	DEV 3059
CYPRESS, MIS		1600 1955	10			1	0	0		39	8	20	A		
AUX VASES, MIS		1765 1961	10			2	0	0		37	8	15	A		
SPAR MTN, MIS		1800 1946	3090			240	6	0		37	8	9	A		
MCCLOSKEY, MIS		1840 1955	#			2	1	0			L	4	A		
CAHPER, MIS		2700 1963	20			1	0	0		38	8	5			
DEVONIAN		2867 1963	40			5	1	0		37	L	3			
#CORDES, WASHINGTON, 33, 3W															
BENOIST, MIS		1260 1939	1630	37.7	10306.4	155	0	1		35 36	0.19	8	14	A	TNN 3680
CORINTH, WILLIAMSON, 88, 4E															
		1957	310	9.6	535.0	20	0	0		18				MIS	3550
AUX VASES, MIS		2885 1957	290			18	0	0		38	8	10			
OMARA, MIS		2929	50			2	0	0		38	L	X			
SPAR MTN, MIS		2985 1957	#			2	0	0		38	L	10			
CORINTH E, WILLIAMSON, 88, 4E															
MCCLOSKEY, MIS		3035 1957	10	0.0	10.6	1	0	0		0 38		L	10	MIS	3113
			ABU 1960												
CORINTH N, WILLIAMSON, 88, 4E															
AUX VASES, MIS		2935 1957	10	0.0	3.7	1	0	0		0 36		8	16	MIS	3180
			ABU 1960												
CORINTH S, WILLIAMSON, 98, 4E															
CYPRESS, MIS		2350 1972	10	0.5	8.5	1	0	0		1		8	A	MIS	2820
			ABU 1975												
COTTAGE GROVE, SALINE, 98, 7E															
OMARA, MIS		2770 1955	10	0.0	12.5	1	0	0		0 38		L	X	MIS	2977
			ABU 1963												
COULTERVILLE N, WASHINGTON, 38, 5W															
SILURIAN		2290 1958	50	1.7	40.3	5	0	0		3 42		L		ORD	3204
#COVINGTON S, WAYNE, 28, 6E															
		1943	940	8.6	496.5	21	2	0		5				AC	DEV 5300
MCCLOSKEY, MIS		3310 1943	450			14	1	0		36	0.18	L	5	AC	
ST. LOUIS, MIS		3361 1962	10			1	0	0		36		L	4		
ULLIN, MIS		4148 1960	90			6	1	0		36		L	12	AC	
CRAIG, PERRY, 48, 4W															
TRENTON, ORD		3650 1948	10	0.0	2.9	2	0	0		0 35		L	20	A	OND 3750
			ABU 1951, REV 1965, ABU 1967												
CRAVAT, JEFFERSON, 18, 1E															
BENOIST, MIS		2070 1939	120	0.6	385.1	11	0	0		6 34	0.23	8	10	A	DEV 3850
CRAVAT W, JEFFERSON, 18, 1E															
		1956	140	1.5	139.2	15	0	0		14				MIS	2390
PENNSYLVANIAN		1045 1956	130	1.5	137.7	14	0	0		32		8	10		
BETHEL, MIS		2070 1960	10	0.0	0.0	1	0	0				8	10		
CROSSVILLE, WHITE, 48, 10E															
		1946	110	0.0	16.0	11	0	0		0				M	MIS 4100
BETHEL, MIS		2880 1946	40			3	0	0		38		8	9	ML	
AUX VASES, MIS		3030 1956	30			3	0	0		37		8	20	ML	
OMARA, MIS		3100	80			1	0	0				L	3	MC	

(CONTINUED ON NEXT PAGE)

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	PRODUCTION		NUMBER OF WELLS			CHARACTER		PAY ZONE			DEEPEST TEST
			AREA PRO- VED IN ACRES	M BBLs UR- ING 1980	CO- TO END OF 1980	COM- PLET- ED 1980	CO- AS- AND 1980	PRD- UCING YEAR	GR, PERC- ENT	SUL- FUR KIND MUCK	THI- OF CEN- TRES	STR- UCT- URE	
(CONTINUED FROM PREVIOUS PAGE)													
CROSSVILLE, WHITE, 48, 10E	MCCLOSKEY, MIS	3120 1946	#	#	4	0	0	38	L	S	MC		
ABO 1952, REV 1956, ASU 1958													
*CROSSVILLE W, WHITE, 48, 10E	CYPRESS, MIS	2410 1932	240	0,0	375,5	17	0	0	U	S	18	M	MIS 3500
	AUX VASES, MIS	3030 1952	130			9	0	0	37	S	8	ML	
	OHARA, MIS	3110 1956	150			1	0	0	37	L	X	M	
	SPAR MTN, MIS	3150 1956	#			3	0	0		L	X	M	
	MCCLOSKEY, MIS	3185 1956	#			7	0	0	38	L	X	MC	
ABO 1953, REV 1956, ABO 1975													
DAHLGREN, HAMILTON, 38, 5E	MCCLOSKEY, MIS	3300 1941	620	1,0	1216,9	45	0	0	2	37	0,16	L	11 A
	ULLIN, MIS	4110 1956	10			1	0	0	39	L	15	A	DEV 5299
DAHLGREN W, JEFFERSON, 48, 4E	ULLIN, MIS	4019 1960	30	0,7	31,2	3	1	0	1 38	L	6		DEV 5245
ABO 1966, REV 1980													
*DALE C, FRANKLIN, HAMILTON, 5-7E, 9-7E	TAR SPRINGS, MIS	2430 1940	18960	297,0	100293,7	1635	12	2	205	36	S	25	A
	MAHONSBURG, MIS	2480 1943	480			41	0	0	36	S	10	A	PC 13051
	CYPRESS, MIS	2700 1940	1570			126	0	0	39	S	15	A	
	BETHEL, MIS	2975	3460			285	0	0	38	0,14	S	18	A
	AUX VASES, MIS	3150 1945	16600			1310	0	1	37	0,15	S	20	A
	OHARA, MIS	3110	3870			109	2	0	38	0,22	L	10	A
	SPAR MTN, MIS	3130	#			14	0	0	38	LS	7	A	
	MCCLOSKEY, MIS	3150 1940	#			151	2	1	36	0,19	L	7	A
	ST, LOUIS, MIS	3163 1965	100			11	4	0	39	L	X	A	
	SALEM, MIS	3991 1960	80			5	5	0		L	6		
	ULLIN, MIS	4168 1978	60			6	2	0		L	10		
UAHSON, SANGAMON, 16N, 3W	SILURIAN	1636 1971	10	0,0	0,0	1	0	0	U	L	10		SIL 1705
ABO 1972													
DECATUR, MACON, 16-17N, 2E	SILURIAN	2000 1953	110	0,0	15,0	6	0	0	U 37	L	7	MU	OMO 2600
ABO 1959													
DECATUR N, MACON, 17N, 3E	SILURIAN	2200 1954	10	0,0	0,1	1	0	0	U 36	L	10	MU	SIL 2240
ABO 1955													
*DEERING CITY, FRANKLIN, 7S, 3E	AUX VASES, MIS	2810 1957	110	1,8	325,5	8	0	0	6				MIS 3146
	MCCLOSKEY, MIS	2913 1963	30			2	0	0	34	S	20		
										OL	4		
DEERING CITY E, FRANKLIN, 7S, 3E	MCCLOSKEY, MIS	2965 1974	10	1,1	9,7	1	0	0	1	L	7		MIS 3117
*DIVIDE C, JEFFERSON, 18, 3-4E	AUX VASES, MIS	2620 1943	4580	177,3	11555,8	314	24	6	160	S		A	DEV 4700
	OHARA, MIS	2700 1944	170			11	1	0	38	S	10	AL	
	SPAR MTN, MIS	2700 1945	2630			8	0	0	37	L	10	AC	
	MCCLOSKEY, MIS	2750 1943	#			20	0	2	38	LS	6	A	
	ST, LOUIS, MIS	2840 1955	360			160	2	0	37	0,21	L	6	AC
	SALEM, MIS	3190 1960	2020			36	3	0	37	L	7	AC	
						133	26	5	37	L	10	AC	
DIVIDE S, JEFFERSON, 28, 3-4E	MCCLOSKEY, MIS	2680 1948	300	0,0	497,2	16	0	0	1 37	L	5		MIS 3560
DIVIDE S, JEFFERSON, 18, 2E	SENDIST, MIS	1950 1941	20	0,0	13,4	2	0	0	0 35	S	8	N	MIS 2283
ABO 1946													

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR DEP. OF TH DISC. OVERY	AREA PRO. VED IN ACRES	PRODUCTION M BBL		NUMBER OF WELLS			CHARACTER OF OIL			DEEPEST TEST				
				1980	TO 1980	COMPLETED TO END OF 1980	MPL. AB- PRODUCING	SULFUR PERCENT	PAY ZONE	THICKNESS	STR. UCT.	ZONE	DEPTH (FT)			
														1980	1980	1980
(CONTINUED FROM PREVIOUS PAGE)																
*ELDORADO C +, BALINE, 88, 6-7E																
SAMPLE, MIS		2680 1954	70			6	0	0		37	8	18	AL			
BENDIST, MIS		2778 1962	#			1	0	0			8	10				
AUX VABES, MIS		2900 1954	910			66	0	U		37	8	12	AL			
OHARA, MIS		2900	90			3	0	0			L	5	AC			
SPAR MTN, MIS		2900	#			2	0	0			L8	4	AC			
MCCLOSKY, MIS		2975 1941	4			2	0	0		39	0.14	L	5	AC		
*ELDORADO E +, BALINE, 88, 7E																
		1953	440	1.5	431.7	31	0	U		6			A	MIS	3666	
PALESTINE, MIS		1915 1954	30			2	0	0		36	8	10	AL			
TAR SPRINGS, MIS		2190 1954	40			3	0	0		35	8	10	AL			
CYPRESS, MIS		2515 1954	90			6	0	0		37	3	20	AL			
AUX VABES, MIS		2685 1953	340			20	0	U		38	3	6	AL			
SPAR MTN, MIS		2975 1954	10			1	0	U		38	L	4	AC			
ELDONAHO W +, BALINE, 88, 6E																
		1955	50	0.0	46.0	6	0	0		1				MIS	3138	
PALESTINE, MIS		1940 1956	40			3	0	U		30	8	18				
MENAUT, MIS		2910 1955	20			2	0	0		37	L	6				
AUX VABES, MIS		2960 1955	20			2	0	U		36	L	6				
ELK PRAIRIE, JEFFERSON, 48, 2E																
		1938	20	0.0	41.1	2	0	0		0				MIS	3470	
MCCLOSKY, MIS		2735 1938	20			2	0	U		37	L	7				
SALEM, MIS		3076 1960	10			1	0	0		37	L	8				
ABU 1940, REV 1960, AND 1970																
ELKTON, WASHINGTON, 28, 4W																
BAILEY, DEV		2340 1955	40	0.0	2.6	2	0	0		U	40	L	30	DEV	2485	
ABU 1960																
ELKTON N, WASHINGTON, 28, 4N																
MARDIN, DEV		2320 1971	160	2.7	76.8	9	0	0		9	8	7	ORD	3275		
ELKVILLE, JACKSON, 78, 1W																
BENDIST, MIS		2000 1941	10	0.0	4.0	1	0	U		1	36	0.22	8	10	81L	3914
*ELLERY E, EDWARDS, 28, 10E																
		1952	430	6.8	1020.6	35	0	1		7				M	MIS	4227
AUX VABES, MIS		3180 1953	240			23	0	0		36	8	35	ML			
OHARA, MIS		3255 1952	260			11	0	1		37	L	6	MC			
SPAR MTN, MIS		3255	4			3	0	U			L	4	MC			
MCCLOSKY, MIS		3260 1978	4			1	0	0			L	6				
ULLIN, MIS		4218 1979	10			1	0	1			L	9				
ELLERY N, EDWARDS, WAYNE, 28, 9-10E																
		1942	120	3.2	81.5	10	0	U		4				M	DEV	5425
BETHEL, MIS		3100 1954	20			2	0	0			8	35	ML			
AUX VABES, MIS		3230 1954	40			2	0	0			8	12	ML			
OHARA, MIS		3300 1972	90			2	0	0			L	4				
SPAR MTN, MIS		3345	#			4	0	0			8	8	ML			
MCCLOSKY, MIS		3420 1942	4			2	0	0		37	0.19	L	7	MC		
ST LOUIS, MIS		3438	10			1	0	U			L	6				
ABU 1943, DEV AND ABU 1951, DEV 1954																
ELLERY S, EDWARDS, 2-38, 10E																
		1943	140	2.5	178.9	14	3	U		5				M	MIS	4311
AUX VABES, MIS		3200 1947	50			7	2	U		36	8	15	ML			
MCCLOSKY, MIS		3300 1943	90			7	2	U		38	L	9	MC			
ULLIN, MIS		4136 1978	10			1	0	0			L	10				
ABU 1952, REV 53, ABU 59, REV 8 AND 60, DEV 78																
ELLIOTTSTOWN, EFFINGHAM, 7N, 7E																
SPAR MTN, MIS		2730 1947	10	0.0	13.7	1	0	0		0	39	8	8	ML	MIS	2884
ABU 1951																
ELLIOTTSTOWN E, EFFINGHAM, 7N, 7E																
		1954	90	2.2	132.6	7	0	0		1				M	MIS	3292
CYPRESS, MIS		2485 1954	10			1	0	0		35	8	5	ML			
SPAR MTN, MIS		2750 1962	80			3	0	U			L	10				
MCCLOSKY, MIS		2771 1962	4			3	0	U		37	L	8				
ABU 1956, DEV 1962																

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* RECONOARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OEP- TM O18C- (?7) OVERY	PRODUCTION M BBLB		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST			
			PRO- VEO ACRES	OUR- ING 1980	TO END OP 1980	COMP- LETEO 1980	CO- MPL 1980	AB- ETEO 1980	PROO- UCING END OP YEAR	SUL- PUC API	PUR- KIND ROCK			THI- UP EBB	STP- UCT- UNE	TH (FT)
ELLIOTTSTOWN N, EPPINGHAM, 7N, 7E																
		1953	310	0,7	270,7	19	0	0	4					MIS	3350	
	CYPRESS, MIS	2430 1953	20			2	0	0		36		8	4	HL		
	AUX VASEB, MIS	2710 1966	10			1	0	0		37		8	2			
	SPAR MTN, MIS	2666 1964	270			2	0	0				L	3			
	MCCLOSKY, MIS	2738 1964	#			14	0	0		37		OL	17			
	ABU 1958, REV 1964															
ENERGY, WILLIAMSBURG, 9S, 2E																
	AUX VASEB, MIS	2354 1968	110	6,7	193,6	9	0	0	9			8	16	MIS	2694	
ENFIELD, WHITE, 5S, 8E																
		1950	520	26,6	1251,6	34	1	2	11					A	MIS	4657
	AUX VASEB, MIS	3250 1950	320			21	0	1		30		3	10	AL		
	OMARA, MIS	3310	170			4	0	0				L	4	AC		
	MCCLOSKY, MIS	3385 1950	#			5	0	0		37		L	8	AC		
	ULLIN, MIS	4320 1977	30			4	1	1				L	19			
	ABU 1951, REV 1952															
ENFIELD N, WHITE, 5S, 8E																
		1976	260	48,9	324,2	20	0	0	12					MIS	4500	
	AUX VASEB, MIS	3320 1976	230			16	0	0				3	12			
	OMARA, MIS	3400 1976	20			3	0	0				L	6			
	ULLIN, MIS	4385 1977	10			1	0	0								
ENFIELD S, WHITE, 6S, 8E																
		1961	40	2,3	2,3	3	1	0	1					MIS	4336	
	AUX VASEB, MIS	3174 1961	10			1	0	0		39		3	2			
	MCCLOSKY, MIS	3277 1961	40			3	1	0		38		L	6			
	ABU 1963, REV 1980															
EVERS, EPPINGHAM, 8N, 7E																
		1948	80	0,8	129,3	6	0	0	2					A	ORD	5370
	SPAR MTN, MIS	2610	70			3	0	0		39		L	7	AL		
	MCCLOSKY, MIS	2660 1948	#			2	0	0				L	4	AC		
	SALEM, MIS	3126 1975	10			1	0	0				L	4			
	ABU 1949, REV 1953															
EVERS S, EPPINGHAM, 7N, 7E																
	SPAR MTN, MIS	2650 1948	10	0,0	2,4	1	0	0	0	36		L8	8	AC	MIS	2783
	ABU 1951															
EWING, FRANKLIN, 5S, 3E																
		1944	200	2,0	535,7	10	0	0	2					A	MIS	3951
	AUX VASEB, MIS	2835 1947	40			3	0	0		36		8	8	AL		
	MCCLOSKY, MIS	2970 1944	160			7	0	0		36		L	7	A		
	ABU 1971, REV 1976															
EWING E, FRANKLIN, 5S, 3E																
		1956	210	40,5	165,5	16	1	0	14					ORD	9511	
	OMARA, MIS	3010 1956	10			1	0	0		36		L	10			
	ST LOUIS, MIS	3265 1976	10			1	0	0				L	8			
	SALEM, MIS	3546 1978	20			2	0	0				L	14			
	ULLIN, MIS	3680 1976	190			13	1	0				L	6			
	REV 1976															
EXCHANGE, MARION, 1N, 3E																
		1943	50	6,2	77,4	5	1	0	3					M	SIL	4908
	OMARA, MIS	2695	30			1	0	0		37		L	10	MC		
	MCCLOSKY, MIS	2730 1943	#			2	0	0		37		L	8	MC		
	ST LOUIS, MIS	2951 1978	10			1	0	0				L	5			
	SALEM, MIS	3171 1975	30			3	1	0				L	15			
	ABU 1967, REV 1975															
EXCHANGE E, MARION, 1N, 4E																
		1955	230	1,7	544,4	17	0	0	2					MIS	3531	
	OMARA, MIS	2775 1955	220			1	0	0				L	14			
	SPAR MTN, MIS	2780	#			8	0	0		37		L	11			
	MCCLOSKY, MIS	2840 1955	#			6	0	0				L	4			
	ST LOUIS, MIS	2940 1955	10			1	0	0		38		L	8			
EXCHANGE N C, MARION, 1N, 3-4E																
		1951	230	12,2	829,2	24	0	0	15					MC	MIS	3390
	SPAR MTN, MIS	2682 1967	200			1	0	0				L	3			
	MCCLOSKY, MIS	2763 1951	#			21	0	0		37		L	6	MC		
	ST LOUIS, MIS	2946 1972	20			1	0	0				L	6			
	SALEM	3080 1967	30			2	0	0		37		L	11	MC		
	ABU 1952, REV 1955, ABU 1959, REV 1965															

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST	
				DEP- TH (FT)	DISC- OF VERY	OUR- ING	TO END OF	COMP- LETED TO	CO- MPL- IN	AB- AND- ONED	PROO- UCING END OF	GR, PERC- API			SUL- FUR ENT
*EXCHANGE N, MARION, 1N, 3E															
	OMARA, MIS	1957	310	5.4	276.0	25	0	0	7					MIS	3008
	SPAR MTN, MIS	2570 1966	230	#		1	0	0					L	7	
	MCCLOSKEY, MIS	2650 1957	#			10	0	0					S	6	
	87 LOUIS, MIS	2720 1967	130	#		11	0	0		37			L	6	
						8	0	0		38			L	11	
*FAIRMAN, MARION, CLINTON, 3N, 1E, 1W															
	BENOIST, MIS	1939	610	9.6	2130.8	61	0	0	18					ORO	4100
	TRENTON, ORO	1435 1939	480			44	0	0		38	0.27	8	10	A	
		1950 1957	280			18	0	0		40		L	20	A	
FANCHER, SHELBY, 10N, 4E															
	BENOIST, MIS	1749 1962	10	0.0	0.0	1	0	0	0	34		3	3	MIS	1889
			ARD 1962												
FEHRER 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	1	0					ORO	3956
	TRENTON, ORO	2840 1976	10			1	0	1				L	7		
		1930 1976	10			1	0	0				L	18		
			ABO 1980												
FICKLIN, DOUGLAS, 16N, 8E															
	SPAR MTN, MIS	1470 1969	70	2.0	34.5	5	0	0	5			8	8	CAM	5301
FITZGERRELL, JEFFERSON, 4S, 1E															
	BENOIST, MIS	1944	10	0.0	16.0	1	0	0	0					MIS	3012
	AUX VASES, MIS	2760 1944	10			1	0	0		37		8	5		
		2800	10			1	0	0		37		8			
			ABO 1952												
*FLORA S, CLAY, 2N, 6E															
	MCCLOSKEY, MIS	2985 1946	60	0.0	168.0	4	0	0	0	39		L		AC	DEV
			ABO 1961												
FLORA SE, CLAY, 2N, 6E															
	MCCLOSKEY, MIS	3073 1972	100	5.3	54.9	8	0	0	7			L	5	MIS	3700
FURBYTH, MACON, 17N, 2E															
	SILURIAN	2118 1963	440	72.5	155.3	31	8	0	26	38		L	14	81L	2220
FRANCIS HILLS, SALINE, 7S, 7E															
	CYPRESS, MIS	2675 1952	10	0.2	97.5	1	0	0	1	36		3	5	MIS	3238
FRANCIS HILLS S, SALINE, 7S 7E															
	OMARA, MIS	1955	20	0.0	5.6	2	0	0	0					MIS	3180
	SPAR MTN, MIS	3010 1955	20			2	0	0				L	11		
		3042 1962	#			1	0	0		37		L	6		
			ABU 1957, REV AND ARD 1962												
FREEBURG +, 87, CLAIR, 1-28, 7W (NOW FREEBURG GAS STORAGE PROJECT)															
	CYPRESS, MIS	380 1955	20	0.0	X	2	0	0	0	30		8	30	ORO	2008
FREEHANSBUR, WILLIAMSON, 8S, 2E															
	AUX VASES, MIS	2500 1968	60	0.0	4.0	3	0	0	0			8	13	MIS	2779
			ABO 1971, REV 1975, ABO 1979												
FRIENDSVILLE CEN, WABASH, 1N, 13W															
	BETHEL, MIS	1946	200	7.6	153.9	15	2	1	5					MIS	2797
	AUX VASES, MIS	2330 1946	50			5	0	0		35		3	15	HC	
	OMARA, MIS	2585 1980	10			1	1	0				L	5		
	SPAR MTN, MIS	2597 1972	150			6	1	0				L	8		
	MCCLOSKEY, MIS	2629 1972	#			3	0	1				S	4		
		2656 1980	#			1	1	0				DL	3		
			ARD 1956, REV 1972												

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA	PRODUCTION M BBL2		NUMBER OF WELLS				CHARACTER UP OIL		PAY ZONE				DEEPEST TEST	
				PRU-VEO IN ACRES	DUR-ING 1980	TO END OF 1980	COMP-LETO 1980	CU-ETEO IN 1980	AB-AND-ONED 1980	PROD-UCING ENDO OF YEAR	SUL-FUR PERC-AGE	MINU-UP RUCK	THI-CKN-ESS	STR-UCT-UNE	ZONE		DEP-TH (FT)
*FRIENDSVILLE N, WABASH, IN, 12-13N																	
MIEM, PEN		1946	220	1,5	278,5	20	0	U							MC	M18	2676
BETHEL, M18		2308 1946	220			19	0	U		34	3	12		MC			
		2308 1959	10			1	0	0		35	8	11		M			
*FROGTOWN, CLINTON, 2N, 3-4W																	
CARLYLE(CYP), M12		950 1918	90	0,0	X	14	0	U		0	32	8		ML	TRN	3290	
ABU 1933, REV 1949, AND 1956																	
*FROGTOWN N, CLINTON, 2-3N, 3-4W																	
2T, LOUIS, M18		1951	440	10,6	2136,1	37	0	U		22				U	SIL	2456	
DEV-21L		1200 1951	60			5	0	0		35	L	10		O			
		2250 1951	410			32	0	U		35	L	8		R			
*GALATIA N, BALINE, 7S, 5E																	
AUX VASE2, M12		1980	20	2,8	2,8	2	2	0		2					M18	4544	
2PAR MTN, M18		3216 1980	10			1	1	0			8	5					
		3391 1980	10			1	1	U			8	6					
*GARDS POINT C, WABASH, IN, 14W																	
OHARA, M18		1951	700	14,7	1075,9	40	1	2		22					M18	4205	
MCCLOSKY, M18		2870 1951	680			38	0	2		40	L	6		MC			
SALEM, M18		2905 1976	8			1	0	U			OL	4					
ULLIN, M18		3375 1920	10			1	1	U			L	8					
		3698 1975	10			1	0	0			L	8					
*GAY2, MOULTRIE, 12N, 6E																	
AUX VASE8, M18		1946	90	2,0	108,9	6	0	0		1					DEV	3305	
CARPER, M18		2963 1963	10			1	0	U		36	8	5		ML			
DEVONIAN		3205 1955	10			1	0	0		37	8	16					
ABU 1950, REV 1955																	
*GERMANTOWN E, CLINTON, 1-2N, 4W																	
SILURIAN		2350 1956	380	12,2	1495,8	27	0	U		24	40	L	30	R	TRN	3310	
*GILA, JAZPEN, 7-8N, 9E																	
MCCLOSKY, M18		2850 1957	490	0,3	1048,4	34	0	0		2	39	OL	3	MC	M18	2971	
*GILLESPIE-WYEN, MACOUPIN, 8N, 6W																	
UNNAMED, PEN		650 1915	70	1,4	X	23	0	U		2	28	2	X	T	ORD	2560	
*GLENARM, SANGAMON, 14N, 5W																	
SILURIAN		1680 1955	130	0,5	60,2	9	0	U		1	40	L	9		SIL	1821	
ABU 1957, REV 1959, AND 1960, REV 1961																	
*GOLDENGATE C, WAYNE, WHITE, EDWARDS, 2-42, 9-10E																	
CYPRESS, M18		1939	7740	176,3	18222,6	559	15	5		217					DEV	5522	
BETHEL, M18		2942 1960	90			4	0	0		36	8	8		A			
AUX VASE2, M18		3110 1951	350			22	0	U		37	8	11		ML			
OHARA, M12		3180 1944	3790			202	0	2		40	0,14	8	15	AL			
2PAR MTN, M12		3250 1943	4880			59	3	0		39		OL	6	AC			
MCCLOSKY, M12		3275	8			88	3	2		38		L2	7	AC			
2T, LOUIS, M18		3310 1939	8			183	8	3		36	0,19	OL	7	AC			
SALEM, M12		3430 1952	30			4	0	0		40		L	10	ML			
ULLIN, M12		4130 1975	190			13	3	U				L	30				
OUTCH CREEK, DEV		4125 1961	200			12	2	0		39		L	9	A			
		5346 1961	350			16	0	0		39		8	10				
*GOLDENGATE E, WAYNE, 32, 9E																	
OHARA, M12		1951	30	0,9	22,4	2	0	0		1					M12	3420	
2PAR MTN, M12		3290 1951	20			1	0	0		37	L	3					
		3340 1976	10			1	0	0			8	4					
ABU 1957, REV 1962																	
*GOLDENGATE N C, WAYNE, 1-22, 8-9E																	
BETHEL, M18		1945	780	17,1	681,6	58	2	0		41				M	M12	4383	
AUX VASE8, M12		3095 1952	10			2	0	0		32	2	3		ML			
OHARA, M12		3235 1948	400			34	1	0		39	2	25		ML			
2PAR MTN, M12		3300 1945	530			10	0	U		37	L	4		MC			
		3325 1945	8			19	1	0		37	L	5		MC			

(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 DISC- (FT) OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST	
				1950	1960	COMPL- ETED 1950	AS- PROD- UCING 1950	PERC- ENT API	SUL- FUR ROCK	KIND OF	THI- STR- UCT- URE			ZONE
(CONTINUED FROM PREVIOUS PAGE)														
*GOLDENGATE N C, WAYNE, 1=28, 8-9E	MCCLOSKEY, M18	3350	0			21	0	0	39	L	6	MC		
GRANVIEW +, EDGAR, 12-13N, 13W	PENNSYLVANIAN	560 1945	10	0,3	7,3	7	0	0	5 30	8	10	M	OKD	269A
GRAYSON, SALINE, 88, 7E														
	CYPRESS, M18	1957	30	0,0	22,9	3	0	0	0				M18	3045
	AUX VASES, M18	2515 1957	10			1	0	0	37	8	6			
	MCCLOSKEY, M18	2913 1961	10			1	0	0	38	L	4			
		2920 1957	20			1	0	0	37	L	6			
			ABU 1972											
GREENVILLE GAS +, BOND, 5N, 3W	LINDLE, DEV	2240 1957	10	0,0	0,0	1	0	0	0 38	L	5	A	TNN	3184
			ABU 1954											
HADLEY, HIGHLAND, 4N, 14W	SPAR MTN, M18	2970 1976	230	2,4	14,5	13	1	0	12	8	10		M18	3750
*HALF MOON, WAYNE, 18, 9E														
	AUX VASES, M18	1947	1260	5,5	3279,6	68	0	2	17				M	DEV 5369
	OHARA, M18	3190 1951	20			1	0	0	38	8	18	ML		
	SPAR MTN, M18	3280	1240			39	0	1	40	L	11	MC		
	MCCLOSKEY, M18	3280 1947	8			11	0	0		L	4	MC		
	SALEM, M18	3300 1947	8			22	0	1	37	L	10	MC		
		3485 1977	10			1	0	0		L	6			
*MARCQ +, SALINE, 83, 5E														
	MARDINSBURG, M18	1954	1140	22,2	1903,1	94	0	2	35				M18	342A
	CYPRESS, M18	2330 1956	30			1	0	0	36	8	6			
	SAMPLE, M18	2618 1959	50			4	0	0	38	8	8			
	AUX VASES, M18	2675 1954	30			4	0	1	39	8	8			
	OHARA, M18	2860 1955	990			75	0	1	41	8	15			
	SPAR MTN, M18	2965 1956	220			6	0	0		L	10			
		2970 1956	8			8	0	0	39	L6	10			
*MARCQ E +, SALINE, 88, 5E														
	CYPRESS, M18	1955	330	3,2	358,3	30	0	0	8				M18	3421
	AUX VASES, M18	2575 1955	120			12	0	0	38	8	20			
	OHARA, M18	2865 1956	220			13	0	0	38	8	8			
		2880 1955	40			4	0	0	39	L	14			
*HARRISBURG +, SALINE, 88, 6E														
	WALTERSBURG, M18	1952	140	0,0	252,3	10	0	0	0				M18	2430
	TAR SPRINGS, M18	2020 1955	90			9	0	0	38	8	1A			
		2115 1952	10			1	0	0	37	8	6			
			ABU 1971											
HARRISBURG 8, SALINE, 98, 6E	CYPRESS, M18	2300 1955	10	0,0	0,0	1	0	0	0 37	8			M18	2352
			ABU 1956											
HARRISBURG W, SALINE, 98, 6E	TAR SPRINGS, M18	1944 197A	30	0,0	7,3	3	0	0	1	8	18		M18	2903
HARRISTOWN, MACON, 16N, 1E	SILURIAN	2050 1954	300	23,2	216,4	21	5	0	11 39	L	3	MU	SIL	2117
HARRISTOWN S, MACON, 16N, 1E	SILURIAN	2140 1975	90	18,9	110,5	7	0	0	6	L	20		SIL	2203
HAYES, DOUGLAS, CHAMPAIGN, 16N, 8E	TRENTON	893 1963	480	0,0	154,7	43	0	0	5 31	L	90		CAM	3430
HELENA, LAWRENCE, 2N, 13W	ST. LOUIS, M18	2978 1969	10	0,0	0,0	1	0	0	0	L	5		M18	3600
			ABU 1973											

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF DISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST		
				OUR- ING 1980	TO END OF 1980	COM- LETED END OF 1980	CO- ETED IN 1980	AS- ANO- 1980	PROO- UCING END OF YEAR	SUL- FUM PERC- ENT	OF	KIND			THI- STR- UCT-	
																ZONE
*HERALD C +, WHITE, GALLATIN, 6-88, 9-10E																
	PENNSYLVANIAN	1940	6500	195,3	17405,4	568	9	1	218				A	DEV	5285	
	PENNSYLVANIAN	1060	390			1	0	0		29		8	10	AL		
	PENNSYLVANIAN	1500	#			23	0	0		36		8	15	AL		
	PENNSYLVANIAN	1750	#			5	0	0		29		8	14	AL		
	OEGONIA, MIS	1920	80			3	0	0		36		8	12	AL		
	CLORE, MIS	1965	60			2	0	0		36		8	10	AL		
	PALESTINE, MIS	1940	10			2	0	0		34		8	20	AL		
	HALTERSBURG, MIS	2240	530			46	0	0		33		8	10	A		
	TAH SPRINGS, MIS	2260	740			60	0	1		38	0,24	8	13	A		
	CYPRESS, MIS	2660	2020			169	9	0		35	0,22	8	14	A		
	BETHEL, MIS	2790	190			20	0	0		37		8	11	AL		
	AUX VASES, MIS	2920	3090			232	3	1		38		8	6	AL		
	UMARA, MIS	2965	540			8	0	0		37		L	6	AC		
	SPAR MTN, MIS	3005	#			7	0	0				L	4	AC		
	MCCLOSKEY, MIS	3010	#			26	0	0		35		L	10	AC		
	SALEM, MIS	3870	10			1	0	0				L	5			
	ULLIN, MIS	3960	10			1	0	0				L	12			
*MERRIN, WILLIAMSON, 88, 2E																
	CYPRESS, MIS	2221	10	0,0	2,0	1	0	0		0	38	8	9	MIS	2682	
*MICKORY HILL, MARION, 1N, 4E																
	CYPRESS, MIS	1964	80	0,2	25,5	6	0	1		0				MIS	3500	
	BENOIST, MIS	2478	10			1	0	0		36		8	10			
	SPAR MTN, MIS	2645	20			2	0	0		37		8	7			
		2633	30			3	0	1		37		8	6			
*MIOALGO, JASPER, 8N, 10E																
	MCCLOSKEY, MIS	1940	150	5,0	32,0	14	9	0		10				DEV	4246	
	ST LOUIS, MIS	2575	140			13	8	0		37	0,20	L	4	MC		
		2641	10			1	1	0				L	4			
*MIOALGO E, JASPER, 8N, 10E																
	AUX VASES, MIS	1966	650	72,3	123,3	43	20	0		43				MIS	3048	
	SPAR MTN, MIS	2264	40			3	0	0				8	4			
	MCCLOSKEY, MIS	2342	610			1	0	0				8	4			
		2467	#			41	20	0		37		U	6			
*MIOALGO N, CUMBERLAND, 9N, 9E																
	SPAR MTN, MIS	1946	220	1,1	87,4	16	0	0		10				MIS	2607	
	MCCLOSKEY, MIS	2655	220			11	0	0		37		8	12			
		2676	#			8	0	0		37		DL	9			
*MIOALGO S, JASPER, 8N, 10E																
	MCCLOSKEY, MIS	2628	160	37,8	40,4	11	6	0		7	37	0	4	MIS	3040	
*HIGHLAND, MADISON, 4N, 5W																
	MARION, DEV	1941	10	0,0	0,0	1	0	0		0	37	8	7	U	DEV	1983
*MILL, EFFINGHAM, 6N, 6E																
	AUX VASES, MIS	1943	80	3,5	55,7	7	0	0		3				MIS	2963	
	SPAR MTN, MIS	2530	20			2	0	0				8	8			
	MCCLOSKEY, MIS	2547	70			1	0	0				8	4			
		2565	#			4	0	0		39		L	5	N		
*MILL E, EFFINGHAM, 6N, 6E																
	CYPRESS, MIS	1954	500	3,4	1304,5	39	1	0		4				MIS	3293	
	AUX VASES, MIS	2460	290			26	0	0		37		8	8			
	SPAR MTN, MIS	2650	10			1	0	0		37		8	10			
	MCCLOSKEY, MIS	2660	260			2	0	0				L	5			
	ST. LOUIS, MIS	2700	#			10	1	0		40		L	7			
		2929	10			1	0	0				0	14			
*HILLSBURG, MONTGOMERY, 9N, 3W																
	LINGLE, DEV	2012	30	0,0	0,2	3	0	0		0	36	8	8	DEV	2153	
*HOFFMAN, CLINTON, 1N, 2W																
	CYPRESS, MIS	1939	360	6,7	846,6	94	0	0		31				DEV	2914	
		1190	190			16	0	0		36		8	11	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 DEP. OF TM DISC- (FT) UVERY	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			DEEPEST TEST			
			AREA PRO- VED IN ACRES	OUR- ING 1980	TO END OF 1980	COMP- LETEN TO 1980	CO- MPL- ETEO 1980	AS- AND- ONED 1980	PROO- UCING YEAR	SUL- FUR PERC- API	PAY ZONE KIND THI- RUCK	STR- UCT- LSS	ZONE UME	DEP- TH (FT)	
(CONTINUED FROM PREVIOUS PAGE)															
HOFFMAN, CLINTON, 1N, 2W	BENDIST, M10	1320 1939	240			39	0	0		33	0.21	0	7	A	
HOLLIDAY, FAYETTE, 9N, 3E	DEVONIAN	3150 1977	10 ABU 1978	0.0	0.0	1	0	0		0			0	6	
MOODYVILLE E, HAMILTON, 5S, 7E	MCCLOSKEY, M10	3365 1944	40 ABU 1944	0.0	0.0	2	0	0		0	37		L	3	
MORO, CLAY, 5N, 6E	AUX VASES, M10	1950	270	2.0	593.3	19	0	0		2				M	
	STE, GEN, M10	2702 1959	70			6	0	0		36			S	10	
		2800 1950	270			13	0	0		37			L	5	
MORO N, EFFINGHAM, 6N, 6E	CYPRESS, M10	1958	60	3.3	189.0	6	0	0		4				M	
	AUX VASES, M10	2430 1958	40			3	0	0		33			S		
		2633 1959	30			3	0	0		38			S	10	
MORO S C, CLAY, 5N, 6E	AUX VASES, M10	1942	380	1.2	1801.8	28	0	3		5				M	
	STE, GEN, M10	2735 1955	20			2	0	0		37			S	8	
		2790 1942	380			26	0	3		36			L	7	
			ABU 1945, REV 1951												
MORNSBY NW, MACOUPIN, 9N, 6W	PENNSYLVANIAN	587 1960	10	0.0	0.0	1	1	0		1			0	30	
MORNSBY S, MACOUPIN, 8N, 6W	PENNSYLVANIAN	640 1956	50 ABU 1957, MEY 1959, ABU 1960	0.0	0.0	4	0	0		0	26		S	1	
MUYLETON W, WASHINGTON, 10, 2W	CLEAR CREEK, DEV	2895 1955	10 ABU 1964	0.0	3.7	1	0	0		0	39		L	12	
MUEY, CLINTON, 2N, 2W	BENDIST, M10	1260 1945	80 ABU 1974	0.0	5.4	7	0	0		0	34		S	4	
MUEY S, CLINTON, 1-2N, 2-3W	CYPRESS, M10	1953	310	3.2	261.9	23	0	0		15				SIL	
	SILURIAN	1080 1953	190			17	0	0		34			S	5	
		2585 1956	110			6	0	0		40			L	10	
MUNT CITY, JASPER, 7N, 10E	SPAR MTN, M10	1945	20	0.4	1.2	2	1	0		1				M	
	MCCLOSKEY, M10	2540 1945	20			1	0	0		37			S	10	
		2525 1980	#			1	1	0					OL	33	
			ABU 1950, REV 1980												
MUNT CITY E, JASPER, 7N, 14W	FREONIA, M10	1952	90	0.0	20.9	8	0	0		1				SIL	
	ST. LOUIS, M10	2000 1952	90			8	0	0		40			L	6	
		2187 1966	10			1	0	0		39			0	20	
			ABU 1954, REV 1965												
MUNT CITY S, JASPER, 7N, 14W	SPAR MTN, M10	1966	110	1.4	16.5	7	4	0		0				DEV	
	MCCLOSKEY, M10	2392 1980	30			1	1	0					S	6	
		2341 1966	4			6	3	0		38			L	4	
MUTTON, COLES, 11N, 10E	PENNSYLVANIAN	530 1939	20 ABU 1946	0.0	15.0	2	0	0		0	30		S	15	
ILLIOPOLIS, SANGAMON, 16N, 2W	SILURIAN	1765 1977	60	4.6	9.2	2	1	0		2			L	3	

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART 11)	PAY ZONE	YEAR DEP- TH OF UIBC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE	DEEPEST TEST			
				1980	1980	COMP- LETO	CO- MPL	AB- ETED	AND- ONED	PROO- UCING	GR, PERC-			SUL- FUR	PAY ZONE KIND	THI- STR- UCT- URE

*INA, JEFFERSON, 48, 2-3E																
RENAULT, MIS		1938	430	0,0	747,7	28	0	0		U			A	MIS	3521	
AUX VASES, MIS		2725 1934	150			7	0	0		U	36	8	14	AL		
SPAR MTN, MIS		2682 1958	30			3	0	0		U	36	8	26	A		
MCCLOSKY, MIS		2775 1957	110			3	0	0		U	35	8	10	A		
ST, LOUIS, MIS		2775	#			4	0	0		U	37	L	10	A		
SALEM, MIS		3000 1938	90			8	0	0		U	37	0,20	L	4	AC	
		3210 1957	40			4	0	0		U	37	L	9	A		
ABU 1946, REV 1954, ABU 1977																

*INA N, JEFFERSON, 48, 3E																
MCCLOSKY, MIS		2940 1949	10	0,0	0,7	1	0	0		U	35	L	4	MIS	3689	
ABU 1950																

*INCLOSE #, EDGAR, CLARK, 12N, 13-14W																
ISABEL, PEN		345 1941	110	0,2	X	15	0	0		U	4	30	9	AL	MIS	1600

*INGHAM, CLAY, 4N, 8E																
TAR SPRINGS, MIS		1942	680	4,0	1009,6	47	0	1		U			M	MIS	3702	
AUX VASES, MIS		2332 1949	10			1	0	0		U		8	8	A		
SPAR MTN, MIS		2915	80			6	0	0		U	38	8	15	ML		
MCCLOSKY, MIS		3000	620			34	0	1		U	37	0,21	L	7	MC	
		3075 1942	#			4	0	0		U	37	0,21	L	8	MC	
ARO 1942, REV 1943, ABU 1944, REV 1950, ABU 1968, REV 1969																

*INMAN E C, WALLATIN, 7-8S, 10E																
PENNSYLVANIAN		1940	4770	73,4	22317,4	453	6	1		158			A	DEV	5100	
PENNSYLVANIAN		780	80			5	1	0		U	38	8	10	AP		
UEGONIA, MIS		1450	#			2	0	0		U	37	8	4	AP		
CLURE, MIS		1690	90			4	0	0		U	37	8	10	AP		
PALESTINE, MIS		1725 1942	50			6	0	0		U	36	8	8	AP		
WALTERSBURG, MIS		1840 1942	90			4	0	0		U	35	8	13	AP		
TAR SPRINGS, MIS		1980 1942	1230			85	2	0		U	37	8	18	AP		
HAROINSBURG, MIS		2080 1940	1870			160	0	1		U	37	0,24	8	13	AP	
CYPRESS, MIS		2135 1943	280			17	0	0		U	34	8	10	AP		
RENAULT, MIS		2390	2410			166	0	0		U	37	0,23	8	14	AP	
AUX VASES, MIS		2675 1967	20			2	0	0		U	36	8	5	AP		
OMARA, MIS		2715	760			50	3	0		U	37	8	8	AP		
SPAR MTN, MIS		2795 1947	160			2	0	0		U	L	5	AP			
MCCLOSKY, MIS		2790	#			1	0	0		U	L	7	AP			
ST, LOUIS, MIS		2800	#			8	0	0		U	39	L	8	AP		
		2960 1957	40			6	0	0		U	38	L	10	AP		

*INMAN W C, WALLATIN, 7-8S, 9-10E																
PENNSYLVANIAN		1940	3920	92,7	9277,9	353	3	3		175			T	MIS	4154	
PENNSYLVANIAN		925	190			5	0	0		U		8	8	NL		
BIEM, PEN		1630	#			4	0	0		U		8	5	NL		
PALESTINE, MIS		1750	#			7	0	0		U	35	8	12	NL		
WALTERSBURG, MIS		1765 1947	40			4	0	0		U	35	8	13	NL		
HAROINSBURG, MIS		2080	130			8	0	0		U	37	8	10	TL		
TAR SPRINGS, MIS		2140 1943	1340			93	0	1		U	36	8	8	TL		
CYPRESS, MIS		2300 1947	300			22	0	0		U	32	8	10	TL		
SAMPLE, MIS		2475 1942	2210			170	0	2		U	37	8	10	T		
RENAULT, MIS		2610	50			1	0	0		U	36	8	30	T		
AUX VASES, MIS		2775 1949	30			3	0	0		U	37	L	7	I		
OMARA, MIS		2790 1949	930			75	2	0		U	37	8	15	TL		
SPAR MTN, MIS		2815	290			6	0	0		U	L	12	TC			
MCCLOSKY, MIS		2815 1940	#			4	0	0		U	38	L	8	TC		
ST LOUIS, MIS		2940 1941	#			14	2	1		U	38	0,19	L	6	TC	
		3180 1967	10			1	0	0		U	39	L	6			

*IOLA CEN, CLAY, 5N, 5E																
CYPRESS, MIS		1954	220	7,1	84,6	19	1	0		10				MIS	2800	
BENOIST, MIS		2277 1972	150			12	1	0		U		8	15			
		2420 1954	60			6	0	0		U	36	8	5			
ABU 1957, REV 1965																

*IOLA C, CLAY, EFFINGHAM, 5-6N, 5-6E																
TAR SPRINGS, MIS		1939	3470	129,7	14404,5	309	2	3		207			A	DEV	4227	
CYPRESS, MIS		1890	20			1	0	0		U	35	8	9	AL		
BETHEL, MIS		2125 1943	780			52	0	0		U	35	8	15	A		
BENOIST, MIS		2255 1942	60			5	0	1		U	36	8	10	AL		
RENAULT, MIS		2290	1260			87	0	0		U	36	0,14	8	12	A	
AUX VASES, MIS		2320	10			1	0	0		U	L	X	AC			
OMARA, MIS		2325 1939	2420			195	0	2		U	36	0,25	8	10	A	
SPAR MTN, MIS		2410 1963	1490			1	0	0		U	L	6	A			
MCCLOSKY, MIS		2430	#			69	1	1		U	37	L8	7	A		
		2425 1940	#			56	1	0		U	38	OL	10	A		

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DEPTM DIOC-OVERY (FT)	AREA PRO-YEU IN ACRES	PRODUCTION M BBL		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST	
				OUR-ING 1960	TO ENO OF 1960	COMP-LETO ENO OF 1960	GD-ETEO IN 1960	AB-AND-ONEO IN 1960	PROD-UCING ENO OF YEAR	GR, PERC-OF API ENT	SUL-FUR KIND OF RUCK	TM1-OP EOB			STR-UCT-URE
IOLA S, CLAY, 4N, SE															
BENOIST, M18		1947	380	4.7	536.2	30	3	0		12			A	81L	5075
SPAR MTN, M18		2490	180			12	1	0		36		L	10	AL	
MCCLOSKEY, M18		2590	240			8	0	0				L	6	AC	
CARPER, M18		2650	8			9	1	0		37		L	3	AC	
DEVONIAN		3900	10			1	0	0		38		8	7		
		4238	20			1	1	0				8	8		
IOLA W, CLAY, 5N, SE															
MCCLOSKEY, M18		2495	10	0.0	0.5	1	0	0		0	37	L	11	HC	M18 2613
ABO 1945															
*IRVINGTON, WASHINGTON, 10, 1W															
BEECH CREEK, M18		1940	1420	87.2	9604.3	143	2	0		94				A	OND 4440
CYPRESS, M18		1525	10			1	0	0		38		L	3	AC	
BENOIST, M18		1380	420			36	1	0		36		8	12	A	
CLEAR CREEK, DEV		1535	1040			45	0	0		37	0.16	8	12	A	
TRENTON, ORD		3090	350			22	3	0		39	0.27	L	12	A	
		4275	110			6	0	0		39		L	90	A	
*IRVINGTON E, JEFFERSON, 10, 1E															
PENNSYLVANIAN		1951	340	16.2	1130.8	27	0	0		25				M18	2222
CYPRESS, M18		1030	40			5	0	0		32		8	15		
BENOIST, M18		1750	120			7	0	0		37		8	15		
		1950	200			18	0	0		37		8			
IRVINGTON N, WASHINGTON, 1N, 10, 1W															
CYPRESS, M18		1953	310	14.3	1435.0	28	0	0		26				A	OND 4334
BENOIST, M18		1340	60			5	0	0		37		8	16	AL	
		1470	250			22	0	0		39		8	6	AL	
IRVINGTON W, WASHINGTON, 10, 1W															
CYPRESS, M18		1460	50	1.2	12.9	3	0	0		1	36	8	20	M18	1909
*IUKA, MARION, 2N, 4E															
AUX VAGES, M18		1947	800	31.5	1129.3	56	7	0		28				M	DEV 4375
OHARA, M18		2528	40			3	0	0		37		8	11	M	
SPAR MTN, M18		2650	600			7	0	0				L	5	MC	
MCCLOSKEY, M18		2660	8			6	0	0				L	15	MC	
ST. LOUIS, M18		2750	8			29	1	0		39		L	10	MC	
SALEM, M18		2775	230			11	2	0		37		L	5	MC	
		2999	100			7	6	0				L	7		
IUKA S, MARION, 2N, 4E															
MCCLOSKEY, M18		2680	230	18.9	414.0	13	1	0		10		L	5	M18	3160
IUKA W, MARION, 2N, 3-4E															
MCCLOSKEY, M18		2700	60	0.9	67.2	5	0	0		2	37	L	5	M18	3309
JACKSONVILLE GAS S, MORGAN, 15N, 9W															
GAS, PEN, M18		1910	90	0.0	2.0	11	0	0		1				HL	ORD 1390
MCCLOSKEY, M18		330	80			9	0	0		37		L8	5	HL	
SALEM, M18		272	10			1	0	0				L	29		
		294	20			2	0	0				L	19		
ABO 1937, REV 1967, ABO 1969, REV 1972															
*JUNBON N, CLARK, 9-10N, 14W															
KICKAPOO, PEN		1907	2490	X	X	646	5	1		280				AM	ORD 4519
CLAYPOOL, PEN		315	2390			34	0	0				8	X	AM	
CASEY, PEN		415	8			305	0	0				8	X	AM	
UPPER PARTLOW, PEN		465	8			202	5	0		32		8	X	AM	
MCCLOSKEY, M18		535	8			51	0	0				8	X	AM	
CARPER, M18		556	60			X	0	1		35		OL	6	AM	
DEVONIAN		1325	290			11	0	0		37		8	X	AM	
TRENTON, ORD		1720	10			1	0	0				L	45		
		2900	180			4	0	0				L	60		
SEE CLARK COUNTY DIVISION FOR PRODUCTION															
*JOHNSON S, CLARK, 9N, 14W															
CLAYPOOL, PEN		1907	2080	X	X	668	6	0		170				AM	DEV 2030
CASEY, PEN		390	2060			39	0	0				8	X	AM	
UPPER PARTLOW, PEN		490	8			61	1	0		30		8	X	AM	
		490	8			433	2	0		31		8	48	AM	

(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 DISC- OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE	DEEPEST TEST				
				OUR- ING 1980	TO END OF 1980	COMP- LETED TO END OF 1980	CO- MPL- ETED IN 1980	AS- AND UNED 1980	PROD- UCING END OF YEAR	GR, API	SUL- FUR PERC- ENT		KIND UP ROCK	THI- CKN- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)
(CONTINUED FROM PREVIOUS PAGE)																	
#JOHNSON S, CLARK, 9N, 18W																	
LOWER PARTLO, PEN		600	#			185	3	0		29		S	X	AM			
AUX VASES, MIS		717	1961	40		1	0	0		35		S	21	A			
CARPER, MIS		1740	1971	20		1	0	0				S	22				
DEVONTIAN		1920	1975	20		1	0	0				L	X				
SEE CLARK COUNTY DIVISION FOR PRODUCTION																	
#JOHNSONVILLE C, WAYNE, 1N, 18, 6-7E																	
BETHEL, MIS		1940	9330	304,6	53852,6	501	13	7	194					A	TRN	6460	
AUX VASES, MIS		2950	30			3	0	0		36		S	12	AL			
OHARA, MIS		3020	3070			171	1	3		38	0,14	S	20	AL			
SPAR MTN, MIS		3120	1963	8280		30	0	1		38		OL	10	AC			
MCCLOSKEY, MIS		3150	#			10	1	U		38		OL	8	AC			
ST. LOUIS, MIS		3170	1940	#		451	7	3		38	0,17	OL	15	AC			
SALEM, MIS		3256	1961	110		10	0	U		38		L	14	A			
ULLIN, MIS		3933	1980	20		2	2	0		39		L	5	AC			
#JOHNSONVILLE N, WAYNE, 1N, 6E																	
OHARA, MIS		1943	180	1,7	93,5	10	2	0	2	38	0,17	OL	3	A	MIS	3858	
SPAR MTN, MIS		1943	180			1	0	0				L	4	AC			
MCCLOSKEY, MIS		3220	#			9	2	U				L	4	AC			
		3250	1943	#		1	0	0		38	0,17	OL	3	AC			
ABU 1966, REV 68, ABU 69, REV 80																	
#JOHNSONVILLE S, WAYNE, 1S, 6E																	
AUX VASES, MIS		1942	1170	113,2	1683,7	96	7	U	58			S	15	A	MIS	4160	
OHARA, MIS		1942	370			29	0	U		38		L	5	A			
SPAR MTN, MIS		3160	1977	450		4	1	U				L	4	AC			
MCCLOSKEY, MIS		3160	#			5	0	0				L	5	AC			
ST LOUIS, MIS		3200	1942	#		20	1	0		38		L	6	AC			
SALEM, MIS		3290	1977	20		2	0	0				L	6	AC			
		3772	1975	690		45	7	0				L	30				
#JOHNSONVILLE W, WAYNE, 1N, 18, 5-6E																	
BETHEL, MIS		1942	880	6,3	2314,5	71	0	2	21					M	MIS	3900	
AUX VASES, MIS		2925	1952	40		1	0	0		37		S	7	ML			
OHARA, MIS		2900	1943	440		37	0	1		37		L	6	ML			
SPAR MTN, MIS		2930	1942	390		5	0	U				L	6	MC			
MCCLOSKEY, MIS		3015	#			10	0	0				L	4	MC			
ULLIN, MIS		3100	1942	#		19	0	0		40		L	7	MC			
		3823	1978	10		1	0	1				L	19				
#JOHNSTON CITY E, WILLIAMSON, 8S, 3E																	
CYPRESS, MIS		1959	290	30,1	1139,4	20	0	U	13					M	MIS	2997	
BETHEL, MIS		1959	130			9	0	U		37		S	20				
AUX VASES, MIS		1975	10			1	0	U				S	5				
OHARA, MIS		2620	1962	260		12	0	U		36		S	10				
SPAR MTN, MIS		2660	1975	20		1	0	U				L	5				
MCCLOSKEY, MIS		2660	1963	#		2	0	U				L	7				
		2680	1963	#		1	0	0		38		OL	12				
#JOHNSTON CITY N E, WILLIAMSON, 8S, 3E																	
AUX VASES, MIS		1969	50	3,7	231,1	4	0	0	4			S	16	MIS	3014		
#JUNCTION, GALLATIN, 9S, 9E																	
PENNSYLVANIAN		1939	380	2,1	698,7	32	0	U	7					M	MIS	3600	
WALTERSBURG, MIS		1947	30			4	0	U		35		S	7	ML			
HARROSBURG, MIS		1750	300			24	0	U		37		S	14	ML			
CYPRESS, MIS		2120	1949	30		1	0	U		34		S	5	ML			
MCCLOSKEY, MIS		2275	1954	20		2	0	U		37		S	12	ML			
		2730	1955	10		1	0	U		37		L	9	MC			
#JUNCTION E, GALLATIN, 8-9S, 9E																	
WALTERSBURG, MIS		1953	170	5,1	137,2	10	1	0	7					M	MIS	2970	
TAR SPRINGS, MIS		2000	1953	140		8	0	0		37		S	14				
OHARA, MIS		2119	1973	10		1	0	U				S	25				
		2630	1980	20		1	1	0				L	8				
#JUNCTION N, GALLATIN, 8-9S, 9E																	
PENNSYLVANIAN		1946	270	1,6	255,4	24	0	U	10					M	MIS	2983	
WALTERSBURG, MIS		1947	100			10	0	0		36		S	16	ML			
CYPRESS, MIS		1990	80			5	0	U				S	20	ML			
AUX VASES, MIS		2450	1954	30		3	0	0		37		S	10	ML			
		2725	1946	40		3	0	0		36		S	4	ML			

(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 DISC- (FT) OVR&RY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			DEEPEST TEST		
				OUR- ING 1980	TO END OF 1980	COM- PLETED TO END OF 1980	CO- MPL- ED AND UNED 1980	AB- AND- UCING 1980	PROD- UCING END OF YEAR	SUL- FUR PERC- ENT	PAY ZONE KIND OF ROCK	THI- CK- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)
(CONTINUED FROM PREVIOUS PAGE)															
KENNER N, CLAY, 3N, 0E															
	BENOIST, MIS	2755 1947	390			31	0	0		37	S	8	A		
	MCCLOSKEY, MIS	2970 1947	80			5	0	0		37	L	6	AC		
KENNER S, CLAY, 2N, 5E															
	BENOIST, MIS	2730 1950	40	0.0	20.6	4	0	0		U				MIS 3602	
	AUX VASES, MIS	2768 1971	10			1	0	0		U	S	6			
	MCCLOSKEY, MIS	2870 1950	30			4	0	0		U	L	10	AC		
ARD 1952, REV 1967, ARD 1978															
KENNER W, CLAY, 3N, 5E															
	CYPRESS, MIS	2600 1947	410	3.7	2116.9	35	0	0		U	S	26	A	DEV 4800	
	BENOIST, MIS	2705 1947	350			27	0	0		U	S	9	A		
	RENAULT, MIS	2802 1960	230			16	0	0		U	S	10	A		
	AUX VASES, MIS	2837 1960	10			1	0	0		U	S	10	A		
	MCCLOSKEY, MIS	2870 1947	110			8	0	0		U	S	24	A		
			20			2	0	0		U	L	4	A		
KEYESPORT, CLINTON, 3N, 2W															
	BENOIST, MIS	1180 1949	180	0.6	176.7	20	0	0		U	13	35	S	8 AL MIS 1358	
KINCAID C, CHRISTIAN, 13-14N, 3W															
	CEGAR VALLEY, DEV	1800 1955	2620	109.8	5499.9	148	0	0		200	38	08	19	MU 311 1971	
	SILURIAN	1874 1959	2620			147	0	0		U	38	0	7		
			10			1	0	0		U	38	0	7		
KING, JEFFERSON, 3-4S, 3E															
	RENAULT, MIS	2718 1942	1430	7.2	3736.3	112	0	0		32	39	8	A	ORD 6015	
	AUX VASES, MIS	2725 1942	10			1	0	0		U	39	0.17	8	15 AL	
	OHARA, MIS	2765 1942	1380			104	0	0		U	L	10	AC		
	SPAR MTN, MIS	2815	320			11	0	0		U	40	0.16	18	10 AC	
	MCCLOSKEY, MIS	2840 1942	8			7	0	0		U	L	5	AC		
			8			4	0	0		U	L	5	AC		
KINMUNDT, MARION, 4N, 2-3E															
	BENOIST, MIS	1915 1950	40	1.3	94.4	7	0	0		3				DEV 3650	
	SALEM, MIS	2430	20			2	0	0		U	34	8	3 A		
	CAMPER, MIS	3384 1962	10			1	0	0		U	36	L	7 A		
			50			4	0	0		U	37	8	17		
ARD 1960, REV 1962															
KINMUNDT N, MARION, 4N, 3E															
	BENOIST, MIS	2050 1953	10	0.0	2.9	2	0	0		U	34	8	6	MIS 2301	
ARD 1954, REV 1951, ARD 1974															
LACLEDE, FAYETTE, 5N, 4E															
	BENOIST, MIS	2335 1943	50	0.6	34.0	6	0	0		U	1	36	0.18	8	15 A MIS 2608
LAKEWOOD, SHELBY, 10N, 2-3E															
	BENOIST, MIS	1690 1941	120	2.1	279.9	12	0	0		3				SIL 3127	
	AUX VASES, MIS	1720 1941	70			7	0	0		U	30	8	7 AL		
			50			5	0	0		U	32	0.23	8	8 AL	
LANCASTER, WABASH, LAWRENCE, 1-2N, 13W															
	TAR SPRINGS, MIS	1940 1940	1970	31.9	5305.1	148	0	0		54				DEV 4555	
	BETHEL, MIS	2050 1959	10			0	0	0		U	31	8	3 A		
	OHARA, MIS	2540	980			0	0	0		U	36	8	14 AL		
	SPAR MTN, MIS	2670 1944	1000			0	0	0		U	L	10	AC		
	MCCLOSKEY, MIS	2649 1964	8			9	0	0		U	L	6			
		2690 1940	8			51	0	0		U	40	0.28	L	7 AC	
LANCASTER GEN, WABASH, 1N, 13W															
	OHARA, MIS	2750 1946	250	2.3	379.1	17	1	0		1				MIS 3607	
	SPAR MTN, MIS	2810 1946	240			5	0	0		U	L	7	MC		
	MCCLOSKEY, MIS	2815 1947	8			10	0	0		U	37	L	7 MC		
	ST LOUIS, MIS	3010 1980	8			3	0	0		U	L	8	MC		
			10			1	1	0		U	L	6			
ARD 1961, REV 72, ARD 76, REV 80															
LANCASTER E, WABASH, 2N, 13W															
		1944	70	0.0	76.3	6	0	0		1				MIS 2750	

(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 PRU- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	OEEPEST TEST ZONE TH (FT)				
				OUR- ING 1980	TO END OF 1980	COMP- LETED END OF 1980	CO- HPL- 1980	ANU- AB- 1980	PROO- UCING END OF YEAR	SUL- FUR PERC- ENT	KINU OF ROCK			THI- STR- UCT- UKE			
				7M (FT)	OF DISC- OVERY	70 END OF 1980	70 END OF 1980	ANU- AB- 1980	UCING END OF YEAR	API	ENT			OF ROCK	UCT- UKE		
(CONTINUED FROM PREVIOUS PAGE)																	
LANCASTER E, WABASH, 2N, 13W																	
BRIDGEPORT, PEN		1310 1976	60			1	0	0				8	13				
SUCHMANAN, PEN		1410 1976	8			1	0	0				8	5				
BIEML, PEN		1745 1944	8			1	0	0			31	8	10	HL			
SPAR MTN, MIS		2660 1947	10			1	0	0			39	L	6	MC			
48U 1975, REV 1976																	
LANCASTER S, WABASH, 1N, 13W																	
		1946	330	12.0	500.5	2A	2	0		18				M	MIS	3489	
BETHEL, MIS		2520 1949	280			19	1	0		36		S	6	HL			
OHARA, MIS		2670	80			4	1	0				L	6	MC			
MCCLOSKEY, MIS		2720 1946	8			1	0	0		39		L	12	MC			
LANGENSCHMUESTER, MARION, 1N, 1E																	
		1910	120	1.5	39.4	16	0	U		1				N	DEV	3509	
UNNAHEU, PEN		795 1951	10			2	0	0		32		S	X	N			
CYPRESS, MIS		160U 1910	110			14	0	0		35		S	X	N			
LAWRENCE, LAWRENCE, CRAWFORD, 2-3N, 11-13W																	
		1906	36270	X	X	7030	19	23		2666					CAM	9261	
TRIVOLI, PEN		290	11010			19	0	U		28		S	X	A			
CUBA, PEN		450	8			5	0	U				S	X	A			
BRIDGEPORT, PEN		800	8			1371	1	3		36		S	40	A			
PENNSYLVANIAN		950	8			23	0	0				S	15	A			
SUCHMANAN, PEN		1250	8			579	0	5		33		S	15	A			
RIDGLEY		1300	8			X	0	U				S	X	A			
TAR SPRINGS, MIS		1410	70			8	0	U		34		S	10	A			
HARDINBURG, MIS		1570	110			12	0	U		33		S	10	A			
JACKSON, MIS		1370	1510			325	0	2		33		S	15	A			
CYP(KINKWOOD), M		1400	22270			4330	7	5		40		S	30	A			
SAMPLE, MIS		1600	9850			180	U	2		35		S	8	A			
BETH(TRACEY), MIS		1650	8			1015	1	1		38		S	20	A			
BENDIST, MIS		1695	8			99	0	1		37		S	7	A			
AUX VABES, MIS		1775	770			58	1	U		38		S	8	A			
OHARA, MIS		1750	12560			15	0	U				L	8	A			
SPAR MTN, MIS		1860	8			81	5	U		33		L8	4	A			
MCCLOSKEY, MIS		1860	8			1158	5	5		40		L	10	A			
ST. LOUIS, MIS		1860	310			14	0	U		35		L	10	A			
SALEM, MIS		1955	150			9	2	1		36		L	2	A			
DEVONIAN		2934 1975	60			14	0	2		39		L	12				
TRENTON, ORD		AA92 1978	80			1	0	U				L	40				
SEE LAWRENCE COUNTY DIVISION FOR PRODUCTION																	
LAWRENCE COUNTY DIVISION, LAWRENCE, CRAWFORD																	
		1900	37220	1937,A	383285.5	7119	19	23		2698					CAM	9461	
TOTALS FOR LAWRENCE AND ST. FRANCISVILLE POOLS																	
LAWRENCE W, LAWRENCE, 3N, 13W																	
		1952	960	12.4	536.9	79	0	1		A2					MIS	3059	
PAINT CREEK, MIS		1978 1962	700			9	0	1		35		S	13				
BETHEL, MIS		2050 1952	8			42	0	U		33		S	15				
AUX VABES, MIS		2110 1953	70			7	0	U		36		S	8				
OHARA, MIS		2214 1968	260			1	0	U				L	16				
SPAR MTN, MIS		2193 1963	8			6	0	U				L	2				
MCCLOSKEY, MIS		2225 1953	8			16	0	0		40		L	11				
LEXINGTON, WABASH, 18, 14W																	
		1947	160	0.0	477.9	15	0	0		3					DEV	5020	
CYPRESS, MIS		2585 1953	10			1	0	0		32		S	10	4L			
BENDIST, MIS		2733 1978	20			2	0	0				S	4				
OHARA, MIS		2912 1968	130			1	0	U				L	3				
MCCLOSKEY, MIS		2970 1947	8			12	0	U		38		L	8	AC			
LEXINGTON N, WABASH, 18, 14W																	
		1951	20	0.0	6.4	2	0	U		0	38		L	A	MC	MIS	3045
48U 1958																	
LILLYVILLE, CUMBERLAND, EFFINGHAM, 8-9N, 6-7E																	
		1946	190	9.7	645.7	15	0	0		9					DEV	4000	
SPAR MTN, MIS		2A33 1968	200			1	0	0				S	6				
MCCLOSKEY, MIS		2A25 1946	8			13	0	0		36		L	10	A			
LILLYVILLE N, CUMBERLAND, 9N, 7E																	
		1974	80	27.6	503.9	5	0	U		5					ORD	6500	
SPAR MTN, MIS		8405 1974	80			3	0	U				S	7				
MCCLOSKEY, MIS		2440 1974	8			5	0	0				L	20				
SALEM, MIS		2840 1974	60			4	0	0				L	5				

(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 OF DISCOVERY	AREA PRODUCE IN ACRES	PRODUCTION M BBLs			NUMBER OF WELLS				CHARACTER OF OIL			DEEPEST TEST
				1980	1980	END OF 1980	COMPLETED TO 1980	CUMULATIVE TO 1980	ABANDONED AND UNPRODUCING	PRODUCING	SULFUR CONTENT	PAY ZONE	PERCENTAGE OF ROCK	
(CONTINUED FROM PREVIOUS PAGE)														
LILLYVILLE N, CUMBERLAND, 9N, 7E	GENEVA, DEV	3825 1974	30				3	0	0			0	10	
L18, JASPER, 7N, 9E	SPAR MTN, M18	3022 1964	10 ABU 1967	0,0	0,5		1	0	0	0	37	3	5	M18 3050
LITCHFIELD, MONTGOMERY, 8-9N, 5W	UNNAME, PEN	660 1886	150 ABU 1904, REV 1962, ABU	0,0	24,0		18	0	0	0	23	0,24	3	U 8TP 3000
LITCHFIELD S, MONTGOMERY, 8N, 5W	PENNSYLVANIAN	610 1967	60	0,0	0,0		7	0	0	5	23	3	3	DEV 1920
LIVINGSTON, MADISON, 6N, 6W	PENNSYLVANIAN	535 1948	490	8,7	732,6		66	0	1	24	35	3	15	ML 040 2378
LIVINGSTON S, MADISON, 5-6N, 6W	PENNSYLVANIAN	530 1950	660	17,9	597,6		60	2	0	57	35	3	7	ML 81L 1735
LOCUST GROVE, WAYNE, 1N, 9E	AUX VASES, M18 OHARA, M18 MCCLOSKEY, M16	1951 3215 1951 3240 1951 3280 1951	160 110 50 #	0,2	252,5		14 4 5 1	1 0 1 0	0 0 0 0	2 36 37		3 L L	10 4 6	M18 4190
LOCUST GROVE S, WAYNE, 18, 9E	OHARA, M18 SPAR MTN, M18 MCCLOSKEY, M18	1953 3248 1958 3300 1953 3286 1958	180 180 # #	0,0	114,9		11 2 6 4	0 0 0 0	0 0 0 0	0 39 37 39		L L L	6 10 4	M18 3413
ABU 1971, REV 72, ABU 74, REV 78, ABU 79														
LOGAN, FRANKLIN, 78, 3E	AUX VASES, M18 SPAR MTN, M18 MCCLOSKEY, M18	1966 2920 1968 3028 1966 3082 1966	30 10 20 #	0,4	85,9		3 1 1 1	0 0 0 0	0 0 0 0	2 34		S L L	8 4 8	M18 3176
LONG BRANCH, SALINE, HAMILTON, 75, 6E	PALESTINE, M18 CYPRESS, M18 AUX VASES, M18 MCCLOSKEY, M18	1950 2070 1950 2745 1951 3095 3220 1950	70 20 20 40 20	0,5	333,5		12 2 3 6 2	0 0 0 0 0	0 0 0 0 0	3 37 37 37		S S S L	8 13 9 5	A AL AL AL AC
LONG BRANCH S, SALINE, 83, 6E	CYPRESS, M18	2660 1955	10 ABU 1971	0,0	8,9		1	0	0	0		8	8	M18 3210
LOUGEN, FAYETTE, EFFINGHAM, 6-9N, 2-4E	CYPRESS, M18 BETHEL, M18 BENOIST, M18 AUX VASES, M18 MCCLOSKEY, M18 CARPER, M18 GENEVA, DEV TRENTON, ORO	1937 1500 1540 1550 1937 1600 1785 1955 2430 1952 3000 1937 3905 1955	25690 21680 9200 7120 610 30 30 3550 20	1601,6	370621,8		2468 1620 389 737 16 2 4 151 2	24 17 4 1 3 0 0 6 0	18 14 4 0 0 0 1 0	1277 36 38 38 37 37 36 28	0,25 0,24 0,20 0,17	3 8 8 3 L S 0 0	30 15 10 6 4 9 15 12	A A A AL AC AL AL A A
LOUISVILLE, CLAY, 4N, 6E	AUX VASES, M18 RENAULT, M18 SPAR MTN, M18 MCCLOSKEY, M18 SALEM, M18 ULLIN, M18	1974 2800 1974 2735 1978 2860 1974 2872 1974 3386 1974 3530 1974	520 40 10 520 # 20 10	50,9	237,6		41 4 1 9 29 2 1	5 0 0 1 4 0 0	3 0 0 0 3 0 0	25		8 8 3 0 L L	6 6 10 6 4 4	DEV 4665

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP. OF TH OVERY (FT)	AREA PRO. IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST TH (FT)	
				VEU IN 1980	TO END OF 1980	COMP. LETEO TO END OF 1980	CO. MPL. ETEO IN 1980	AB- ANO- ONED END OF 1980	PROO- UCING YEAR	SUL- FUR GR. API	PERC- ENT	KIND OF RUCK	IMI- ESS	STR- UHE		ZONE
*LOUISVILLE N, CLAY, 4N, 6E																
AUX VASES, MIS		1953	110	0,0	56,3	8	0	0	1							
SPAR MTN, MIS		2755 1953	40			2	0	0	37							
		2612 1961	70			6	0	0	37							
ABO 1956, REV 1962, ABO 1973, REV 1974																
*LOUISVILLE S, CLAY, 3N, 6E																
AUX VASES, MIS		1960	20	0,0	1,5	2	0	0	0							
OHARA, MIS		2823 1960	10			1	0	0	36							
		2893 1960	10			1	0	0	36							
ABO 1967, REV 1976, ABO 1979																
*LYNCHBURG, JEFFERSON, 3S, 4E																
MCCLOSKEY, MIS		3045 1951	60	1,1	327,2	3	0	0	1	36						
*MCKINLEY, WASHINGTON, 3S, 4W																
BENOIST, MIS		1940	250	0,0	747,2	30	0	0	5							
SILURIAN		1050 1940	180			17	0	0	41	0,18						
		2240	190			12	0	0	40							
*MACEONIA, FRANKLIN, 5S, 4E																
SALEM, MIS		1961	30	0,7	8,5	2	0	0	1							
ULLIN, MIS		4124 1978	20			1	0	0								
		4097 1961	10			1	0	0	37							
ABO 1965, REV 1978																
*MAIN C, CHAMFORD, LAWRENCE, JASPEK, 5-8N, 10-14W																
CUBA, PEN		1906	62830	1405,3	232385,0	12097	202	46	3489							
UNNAMED, PEN		510	60820			75	0	0	32							
ROBINSON, PEN		750	8			4	0	0	8							
PENNSYLVANIAN		950	8			10497	177	44	35							
BARLOW, MIS		1250	8			51	5	0	8							
CYPRESS, MIS		1201 1968	10			1	0	0	OL							
PAINT CREEK, MIS		1480 1954	660			43	0	1	34							
BETHEL, MIS		1280	5110			1	0	0	36							
RENAULT, MIS		1400	8			161	4	0	36							
AUX VASES, MIS		1564 1979	20			2	1	1	8							
SPAR MTN, MIS		1430	3480			173	22	1	35							
MCCLOBLONG, MIS		1515	710			2	0	0	3							
SALEM, MIS		1400	8			152	2	0	35							
DEVONIAN		1815 1947	240			14	0	0	37							
TRENTON, OND		2795 1941	510			17	1	1	40							
		3900 1976	430			25	0	1								
*MAPLE GROVE C, EDWARDS, WAYNE, 1-2N, 9-10E																
AUX VASES, MIS		1943	2680	209,8	4857,9	164	22	1	67							
OHARA, MIS		3145 1943	860			60	11	1	38							
SPAR MTN, MIS		3230 1945	1930			10	4	0	27							
MCCLOSKEY, MIS		3250	8			8	2	0	L							
ST LOUIS, MIS		3260 1943	8			93	8	0	41							
SALEM, MIS		3500 1977	10			1	0	0	L							
ULLIN, MIS		3660 1967	110			8	1	0	39							
		4057 1976	30			3	1	0	L							
*MAPLE GROVE S C, EDWARDS, IN, 10E																
OHARA, MIS		1945	240	30,5	274,5	19	2	0	11							
SPAR MTN, MIS		3260 1951	190			4	1	0	40							
MCCLOSKEY, MIS		3275	8			2	0	0	L							
SALEM, MIS		3275	8			10	1	0	36							
ULLIN, MIS		3650 1976	40			3	0	0	L							
		4170 1977	10			1	0	0	L							
*MARCUE, JEFFERSON, 3S, 2E																
SPAR MTN, MIS		1938	20	2,3	18,6	2	0	0	2							
MCCLOSKEY, MIS		2700 1976	10			1	0	0								
		2745 1938	20			2	0	0	25	0,54						
*MARINE, MADISON, 4N, 6W																
DEVONIAN		1700 1943	2470	55,3	12074,2	148	0	1	113	35	0,28					
*MARINE W, MADISON, 5N, 7W																
DEVONIAN		1653 1965	100	0,0	25,2	6	0	0	0	35						
ABO 1978																

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR O&P- TH UIBC- OF UVER- (FT) YERY	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE			DEEPEST TEST	
			PRO- VEU ACRES	OUR- ING 1980	TO END OF 1980	CUM- LETED 1980	CU- MPL- 1980	AR- AND- 1980	PRUO- UCING YEAR	SUL- FUM PERC- API	KINU OF ROCK	TMI- CN- LBS	STR- UCT- UKE	UPE- TH (FT)		
MARION, WILLIAMSON, 98, 3E																
AUX VASEB, MIS		1950	20	0,2	0,6	2	0	0	1	40	8	5		MIS	2560	
OHARA, MIS		2385 1930	10			1	0	0								
		2470 1975	10			1	0	0			L	8				
			ABU 1951, REV 1975													
MARION E, WILLIAMSON, 98, 3E																
BETHEL, MIS		2295 1959	10	0,0	1,1	2	0	0	0	37	8	8		MIS	2642	
			ARD 1963													
MARISSA W +, BT, CLAIR, RANDOLPH, 3-48, 7W																
CYPRESS, MIS		215 1960	70	0,0	0,0	3	0	0	0	25	8	3		OH	2413	
			ABU 1966													
MARKHAM CITY, JEFFERSON, 2-38, 4E																
STE, GEN, MIS		3070 1942	340	3,0	1611,5	19	0	0	4	38	0,08	L	10	A	MIS	4050
MARKHAM CITY N, JEFFERSON, WAYNE, 28, 4-5E																
AUX VASEB, MIS		1943	310	6,4	1464,3	23	0	0	8					A	MIS	3450
MCCLOSKEY, MIS		2950 1944	120			9	0	0	38		8	6	AL			
		3075 1943	310			16	0	0	37	0,24	L	8	AC			
MARKHAM CITY W, JEFFERSON, 2-38, 4E																
AUX VASEB, MIS		1945	500	0,7	2387,8	40	0	0	2					A	MIS	3906
MCCLOSKEY, MIS		2905 1945	310			19	0	0	39		8	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																
SMALLOW, PEN		255	2600			392	4	0	164					STP	3411	
CASEY, PEN		500	2290			10	0	0			8	X	U			
MARTINSVILLE, MIS		480	#			99	0	0			8	X	U			
CARPER, MIS		1340	930			29	1	0			L	A	U			
DEVONIAN		1550	1040			86	2	0	37		L	40	U			
TRENTON, OH		2700	700			45	0	0	38		L	A	U			
			520			36	1	0	40		L	X	U			
			SEE CLARK COUNTY DIVISION FOR PRODUCTION													
MASON N, EFFINGHAM, 6N, 5E																
BENOIST, MIS		1951	240	3,2	415,3	16	0	0	9					A	MIS	2553
AUX VASEB, MIS		2290 1951	160			11	0	0	38		8	13	AL			
SPAR MTN, MIS		2355 1951	10			1	0	0	36		8	5	AL			
MCCLOSKEY, MIS		2390 1951	90			4	0	0			L	18	AC			
		2475	#			3	0	0	37		L	5	AC			
MASON N, EFFINGHAM, 6N, 5E																
OHARA, MIS		3255 1946	70	0,0	91,2	3	0	0	0	37	L	6	HC	MIS	3472	
			ARD 1953													
MASON N, EFFINGHAM, 6N, 5E																
OHARA, MIS		3315 1947	10	0,0	0,8	1	0	0	0	37	L	9	HC	MIS	3441	
			ARD 1947													
MATTOON, COLES, 11-12N, 7-8E																
CYPRESS, MIS		1959	6250	110,3	20433,0	577	9	7	233					A	STP	4915
AUX VASEB, MIS		1750 1959	3400			264	3	3	39	0,16	8	13	A			
SPAR MTN, MIS		1900	580			29	0	0	32		8	15	AL			
MCCLOSKEY, MIS		1950 1944	4870			396	2	2	38	0,21	8	12	A			
SALEM, MIS		2236 1977	#			9	1	1	37		L	5	AC			
CARPER, MIS		2950 1955	60			4	0	0			L	6				
DEVONIAN		3162 1970	480			27	3	1	39		8	10	A			
			30			4	0	2	34			9				
MATTOON N, COLES, 13N, 7E																
SPAR MTN, MIS		1902 1960	160	1,5	370,5	12	0	0	3	40	8	12	A	MIS	1978	
MATTOON S, CUMBERLAND, 11N, 7E																
CARPER, MIS		3035 1962	50	0,0	4,7	3	0	0	0	38	8	10		MIS	3337	
			ARD 1966													
MAUNIE E, WHITE, 68, 11E																
TAR SPRINGS, MIS		1951	80	0,3	64,9	6	0	0	1					AP	MIS	3088
		2280 1962	10			1	0	0	35		8	8				

(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 OF U18C- (FT) OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE	DEEPEST TEST	
				1960	1980	COM- PLETED 1980	CO- TO 1980	AS- UCING 1980	PROO- ANO- UCING YEAR	SUL- FUR PERC- ENT	PAY ZONE			DEEPEST TEST
(CONTINUED FROM PREVIOUS PAGE)														
MAUNIE E, WHITE, 68, 11E	AUX VABES, M18	2870 1951	70			5	0	0		35		8	20	AF
			ABO 1952, REV 1955											
*MAUNIE N C, WHITE, 5-68, 10-11E, 14W														
	PENNSYLVANIAN	1941	2130	14,9	5038,0	178	1	0		46			A	DEV 6119
	WALTERSBURG, M18	2305 1952	130			1	0	0		34		8	20	AL
	TAR SPRINGS, M18	2350	160			10	0	0		37		8	12	AL
	HAROLDSBURG, M18	2565	10			10	0	0		35		8	10	AL
	SAMPLE, M18	2830	480			2	0	0		36		8	10	A
	BETHEL, M18	2820 1941	#			30	0	0		35		8	13	AL
	RENAULT, M18	2935	10			1	0	0		35		8	13	AL
	AUX VABES, M18	2930 1943	870			93	0	0		35		L	2	AC
	OMARA, M18	2995 1944	890			8	0	0		37		L	8	AC
	SPAR MTN, M18	3025 1947	#			24	0	0		36		L	6	AC
	MCCLOSKY, M18	3035 1945	#			24	0	0		33		L	10	AC
	SALEM, M18	3874 1980	40			1	1	0				L		
	ULLIN, M18	3950 1980	40			1	1	0				L		
*MAUNIE SOUTH C, WHITE, 68, 10-11E														
	BRIDGEPORT, PEN	1941	1750	33,9	7452,6	175	0	0		54			A	DEV 4908
	BIEM, PEN	1849 1959	8			11	0	0		24		8	7	AL
	UEGONIA, M18	1900 1942	120			3	0	0		31		8	A	AL
	PALESTINE, M18	2010 1941	640			13	0	0		35		8	10	AL
	WALTERSBURG, M18	2210	20			54	0	0		35		8	17	AL
	TAR SPRINGS, M18	2270 1942	830			2	0	0		37		8	19	AL
	CYPRESS, M18	2590	390			53	0	0		35		8	16	AF
	BETHEL, M18	2735	10			30	0	0		36		8	10	AL
	AUX VABES, M18	2845 1941	180			1	0	0		37		8	X	AL
	SPAR MTN, M18	2900	40			14	0	0		37		8	12	AL
	MCCLOSKY, M18	2920	#			1	0	0				L	8	AC
	ST LOUIS, M18	3293 1975	10			4	0	0		35		L	6	AC
	SALEM, M18	3874 1973	10			1	0	0				L	9	
	ULLIN, M18	3964 1975	10			1	0	0				L	6	
MAYBERRY, WAYNE, 2-38, 6E														
	MCCLOSKY, M18	1941	280	27,6	483,2	23	4	1		16			A	DEV 5377
	SALEM, M18	3850 1941	210			15	3	1		39	0,16	L	8	AC
	ULLIN, M18	3840 1977	50			3	1	0				L	8	
		4300 1977	70			7	0	0				L	25	
MAYBERRY N, WAYNE, 28, 6E														
	MCCLOSKY, M18	3330 1948	10	0,0	1,4	1	0	0		0	39	L	2	M18 3463
			ABO 1950											
MECHANICSBURG, SANGAMON, 16N, 3W														
	SILURIAN	1734 1972	150	14,8	206,8	11	0	0		9		L	16	SIL 1800
*MELROBE, CLARK, 9N, 13W														
	ISABEL, PEN	840 1953	180	3,8	X	16	0	0		5	35	8	10	PEN 914
*MELROBE S, CLARK, 9N 13W														
	ISABEL, PEN	865 1953	20	0,0	0,0	2	0	0		0	35	8	7	PEN 888
			ABO 1959, MEY 1964, ARD 1969											
*MILETUS, MARION, 4N, 4E														
	BENOIST, M18	1947	220	1,6	370,3	16	0	0		4			A	DEV 3950
	AUX VABES, M18	2140 1947	130			8	0	0		35		8	7	A
	MCCLOSKY, M18	2200 1947	140			8	0	0		36		8	7	A
		2350 1947	50			3	0	0		36		L	5	A
MILLERSBURG, BOND, 4N, 4W														
	DEVONIAN	2130 1967	20	0,0	10,3	2	0	0		0	38	8	2	DEV 2180
			ABO 1971											
*MILL SHOALS, WHITE, HAMILTON, WAYNE, 2-48, 7-8E														
	AUX VABES, M18	1939	3340	232,3	12158,5	274	22	1		94			A	DEV 5500
	OMARA, M18	3245	2750			204	4	0		36	0,14	8	11	AC
	SPAR MTN, M18	3320	1100			9	0	0				OL	11	AC
	MCCLOSKY, M18	3345	#			15	1	0				OL	8	AC
	ST. LOUIS, M18	3375 1939	#			42	2	0		36		OL	5	AC
	SALEM, M18	3546 1960	10			1	0	0		39		L	10	AC
	ULLIN, M18	3970 1961	310			20	17	1		38		L	4	A
		4110 1959	30			3	2	0		38		L	10	A

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST	
				1980	1980	COM- PLET- ED TO 1980	CD- ANU- 1980	AS- PROD- UCING 1980	BUL- FUM KIND OF WELL	PERC- ENT	API ENT			HT- BTH- UCT- ZONE
(CONTINUED FROM PREVIOUS PAGE)														
*MILL SHOALS, WHITE, HAMILTON, WAYNE, 2-48, 7-8E														
OUTCH CREEK, DEV		1980	20			2	2	0				B	25	
MILLS PRAIRIE, EDWARDS, 1N, 14W														
OHARA, MIS		1948	10	0.0	1.9	1	0	0	0	37	L	5	MC	MIS 3010
			ARU 1952											
MILLS PRAIRIE N, EDWARDS, 1N, 14W														
OHARA, MIS		1953	30	0.0	4.9	2	0	0	0	37	L	5	MC	MIS 3003
			ARU 1956											
MITCHELLSVILLE, SALINE, 108, 6E														
UEGONIA, MIS		1955	30	0.3	25.7	3	0	0	1					MIS 2452
WALTERSBURG, MIS		1330 1955	10			1	0	0		35	S	6		
CYPRESS, MIS		1505 1955	10			1	0	0		38	S	9		
		2107 1973	10			1	0	0			S	20		
*MODE, SHELBY, 10N, 4E														
BETHEL, MIS		1961	360	9.1	347.3	19	0	0	14					DEV 3265
BENOIST, MIS		1682 1961	140			9	0	0		35	S	12		
AUX VASES, MIS		1742 1961	360			13	0	0		34	S	8		
		1772 1961	10			2	0	0		37	S	8		
MONTROSE, EFFINGHAM, 8N, 7E														
MCCLOSKEY, MIS		1968	80	2.6	135.7	6	0	0	3		L	7		MIS 3005
MONTROSE N, CUMBERLAND, 9N, 7E														
MCCLOSKEY, MIS		1969	20	0.1	20.1	2	0	0	2		OL	10		DEV 3980
MT, AUBURN C, CHRISTIAN, 15N, 1-2W														
SILURIAN		1943	7300	49.4	6760.5	437	4	0	121	37	0.28	L	15	MIS 2577
MT, CARMEL ++, WABASH, 1N, 18, 12W														
BRIDGEPORT, PEN		1939	4760	167.7	18808.4	556	9	12	184					DEV 4237
BIEM, PEN		1370 1946	1190			6	0	0		34	S	20	AL	
JORDAN, PEN		1470	#			70	2	0		36	0.28	S	20	AL
PALESTINE, MIS		1520	#			6	0	0			S	15	AL	
WALTERSBURG, MIS		1580	60			5	0	1		35	S	10	AL	
TAN SPRINGS, MIS		1690	30			3	0	0		36	S	10	AL	
JACKSON, MIS		1790 1939	430			35	0	1		36	S	13	AL	
CYPRESS, MIS		2020 1945	10			1	0	1			S	25	AL	
SAMPLE, MIS		2025 1940	3720			342	6	10		38	0.17	S	15	AL
BETHEL, MIS		2095	180			4	0	0		37	S	7	AL	
OHARA, MIS		2110	#			13	0	0		35	S	16	AL	
SPAR MTN, MIS		2320	1360			23	0	1		35	OL	5	AC	
MCCLOSKEY, MIS		2350	#			14	0	0		39	0.26	S	5	AL
SALEM, MIS		2360	#			67	1	0		37	0.42	OL	6	AC
ULLIN, MIS		2696 1966	90			6	0	0			L	14		
FT PAYNE, MIS		3097 1978	10			1	0	0			L	10		
		3561 1979	10			1	0	0			L	61		
MT, ERIE N, WAYNE, 1N, 9E														
AUX VASES, MIS		1944	210	0.0	390.7	15	1	0	2					MIS 4100
OHARA, MIS		3110 1944	120			6	1	0		40	S	8	HL	
MCCLOSKEY, MIS		3170 1949	130			2	0	0			L	6	MC	
		3240 1944	#			5	0	0		37	L	5	MC	
			ARU 1966, DEV 1967											
MT, OLIVE +, MONTGOMERY, 8N, 5W														
POTTSVILLE, PEN		1942	80	0.5	X	7	0	0	5	33	0.16	S	6	A 31L 1678
MT, VERNON, JEFFERSON, 38, 3E														
AUX VASES, MIS		1943	250	5.2	398.4	18	0	1	6					MIS 3262
OHARA, MIS		2665 1943	70			5	0	0		36	S	8	A	
MCCLOSKEY, MIS		2750 1943	180			2	0	0			L	6	AC	
		2800 1943	#			13	0	1		39	0.18	L	7	AC
MT, VERNON N, JEFFERSON, 28, 3E														
MCCLOSKEY, MIS		1956	20	0.0	65.6	2	0	0	2	38	L	6		MIS 2751

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		
				PRD YED IN ACRES	OUR IN 1980	TO ENO OF 1980	COMP LETED TO ENO OF 1980	CO MPL ETEO AND IN 1980	AS ANO UCING ENO OF 1980	PRODUCING YEAR	SULFUR PERCENT	KIND OF ROCK			THICKNESS	STRUCTURE
MURDOCK, DOUGLAS, 16N, 10E	PENNSYLVANIAN	370 1955	10	0,0	0,0	3	0	0	0	36	8	16	PEN	424		
			ARD	1957, REV	1961, ARD	1968										
NASHVILLE, WASHINGTON, 28, 3W	DEVONIAN	2625 1973	490	74,0	930,0	36	0	0	26				ORO	3776		
	SILURIAN	2650 1973	480			34	0	0	41		L	40 R				
NASHVILLE N, WASHINGTON, 1-28, 3W	DEVONIAN	2750 1979	60	88,5	99,6	4	4	0	4		L	X	DEV	2776		
NASON, JEFFERSON, 3-48, 2E	OHARA, MIS	2758 1943	30	0,5	54,8	3	0	0	1				HL	MIS	3925	
	SPAR MTN, MIS	2790 1943	8			2	0	0	37		8	12	HL			
NEW BAOEN E, CLINTON, 1N, 5W	SILURIAN	1935 1958	290	7,3	274,4	23	0	0	12	39	L	15	H	SIL	2200	
NEW BELLAIN, CHAWFORD, 8N, 13W	ISABEL, PEN	650 1942	140	0,0	10,1	10	0	0	2				H	DEV	2632	
	CYPRESS	1165 1942	70			5	0	0	29	0,30	8	10	HL			
	AUX VASES, MIS	1280 1956	60			3	0	0	8		8	20	H			
			ARD	1948, REV	1952, ARD	1954, REV	1956									
NEW CITY, SANGAMON, 14N, 4W	SILURIAN	1730 1954	440	3,3	223,6	39	0	0	8	39	L	11	HU	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, BOND, 6N, 5W	PENNSYLVANIAN	640 1957	20	0,0	3,4	2	0	0	0	32	8	7	PEN	705		
			ARD	1960												
NEW HARMONY C ++, WHITE, WABASH, EDWARDS, 1N, 1-58, 13-14W	JAMESTOWN, PEN	720 1939	26370	1281,6	163180,2	2740	35	8	1063				A	SMK	7682	
	BRIDGEPORT, PEN	1340	1910			4	0	0	32		3	13	AL			
	MANSFIELD, PEN	X	#			11	2	2			8	7	AL			
	SIEML, PEN	1050	#			135	2	2	33		8	20	AL			
	JORDAN, PEN	1760	4			0	0	0			8	X	AL			
	DEGONIA, MIS	1925	140			11	0	0	34		3	10	AL			
	CLURE, MIS	1980	100			11	0	0	36		8	10	AL			
	PALESTINE, MIS	2000	270			23	0	0	25		8	10	AL			
	WALTERSBURG, MIS	2155	1360			134	1	0	36	0,40	8	20	AL			
	TAR SPRINGS, MIS	2215	2590			221	2	2	35	0,19	8	26	ALF			
	MARONSBURG, MIS	2290 1958	20			1	0	0	35		L	10	ALF			
	CYPRESS, MIS	2570	11120			1085	3	1	35		8	20	ALF			
	SAMPLE, MIS	2660	11260			61	1	1	36		8	20	ALF			
	BETHMEL, MIS	2700	#			898	7	3	37	0,24	8	27	ALF			
	RENAULT, MIS	2761	10			1	0	0	34			8				
	AUX VASES, MIS	2800	8440			628	0	0	37	0,19	8	15	ALF			
	OHARA, MIS	2900	5430			60	4	0	39		OL	6	AC			
	SPAR MTN, MIS	2910	#			50	0	0	38		L6	10	AC			
	MCCLOSKEY, MIS	2925	4			296	4	1	37	0,33	OL	8	AC			
	ST. LOUIS, MIS	3153 1953	680			45	8	1	36		L	X				
	SALEM, MIS	3364 1959	430			30	5	0	37		L	16	AC			
	ULLIN, MIS	3755	180			14	4	0	36		L	6	AC			
	FORT PAYNE, MIS	4500 1978	710			28	1	0			L					
NEW HARMONY S (ILL), WHITE, 58, 14W	WALTERSBURG, MIS	2250 1941	90	0,0	113,3	8	0	0	1		35	8	18	AF	MIS	3207
	TAR SPRINGS, MIS	2350	10			1	0	0	36		8	16	AF			
	CYPRESS, MIS	2670 1951	10			1	0	0	35		8	8	AF			
	BETHMEL, MIS	2815	20			2	0	0	36		8	10	AF			
	AUX VASES, MIS	3005 1949	10			1	0	0	37		8	7	AF			
	MCCLOSKEY, MIS	3010	20			1	0	0	37		L	5	AF			

TABLE 8--continued

WELL LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR OF DISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST		
				1980	END OF 1980	COM- PLET- ED TO END OF 1980	CO- MPL- ETED IN 1980	AB- AND UNED 1980	PROO- UCING END OF YEAR	SUL- FUR PERC- ENT	KIND OF ROCK			THI- CK- NESS	STR- UCT- URE
NEW HARMONY S (IND) **, WHITE, S8, 14W															
UEGONIA, MIS	1850	1940	50	0,0	446,4	6	0	0	1					MIS	3068
PALESTINE, MIS	1955		20			2	0	0		35	8	8	TF		
HALTERSBOURG, MIS	2120		50			1	0	0		24	3	10	TF		
			50			3	0	0		37	8	30	TF		
NEW HAVEN C **, WHITE, 78, 10-11E															
UEGONIA, MIS	1789	1941	780	56,4	2747,5	6A	1	0	41				A	MIS	3900
TAM SPHINGS, MIS	2105	1941	10			1	0	0			8	6			
MAHOINSBOURG, MIS	2245		330			25	0	0		38	0,27	8	12	AP	
CYPRESS, MIS	2445	1949	10			1	0	0		36	3	8	AP		
AUX VASES, MIS	2720		480			25	1	0		39	8	12	AP		
UMARA, MIS	2799	1959	130			11	0	0		37	8	15	AP		
SPAR MTN, MIS	2828	1960	140			2	0	0				12	A		
MCCLOSKEY, MIS	2820		#			2	0	0				15	A		
			#			6	0	0		35	OL	6	AC		
NEW HEBRON E **, CRAWFORD, 6N, 12W															
AUX VASES, MIS	1555	1954	50	0,0	0,3	4	0	0		U 35	8	4		MIS	1571
			ABU 1965												
NEW MEMPHIS, CLINTON, 1N, 16, 5W															
SILURIAN	1980	1952	800	58,8	2692,1	51	6	0	49	41	L		H	TMN	2900
NEW MEMPHIS N, CLINTON, 1N, 5W															
DEVESIL	2050	1954	120	27,0	146,4	9	2	1	8	40	L	14		ORO	2915
NEW MEMPHIS S, CLINTON, WASHINGTON, 1S, 5W															
SILURIAN	2000	1952	20	0,0	0,7	2	0	0		U 41	L	25		ORO	2914
			ABU 1952, REV 1956, ABU 1961												
NEWTON, JASPER, 6N, 9E															
STE. GEN, MIS	2950	1944	50	1,1	112,2	6	0	0	1	37	L	6	MC	MIS	3040
			ABU 1962, REV 1969												
NEWTON N, JASPER, 7N, 10E															
MCCLOSKEY, MIS	2655	1945	100	0,2	9,0	7	0	0	1	37	L	5	MC	MIS	2968
			ABU 1948, REV 1960, ABU 1966, REV 1976												
NEWTON W, JASPER, 6-7N, 9E															
SPAR MTN, MIS	1947		560	3,8	318,6	38	3	0	13					MIS	3425
MCCLOSKEY, MIS	2912	1962	560			14	2	0				5			
	3000	1947	#			30	1	0	36		L	7	MC		
			ABU 1947, REV 1952, ABU 1953, REV 1961												
NOBLE W, CLAY, 3N, 8E															
MCCLOSKEY, MIS	3035	1951	50	4,7	15,5	5	3	0	4					MIS	3712
BALEM, MIS	3646	1979	30			3	1	0		36	L	8			
ULLIN, MIS	3695	1979	30			3	2	0			L	13			
			10			1	0	0			L	5			
			ABO 1959												
NORRIS CITY W, WHITE, 68, 8E															
ULLIN, MIS	4204	1978	10	0,6	2,0	1	0	0	1		L	14		MIS	4460
OAKDALE, JEFFERSON, 2S, 4E															
AUX VASES, MIS	1956		450	3,3	878,7	34	0	0	4					MIS	3600
MCCLOSKEY, MIS	2660	1956	370			26	0	0		38	8	35			
	2985	1956	90			9	0	0		37	L	5			
OAKDALE N, JEFFERSON, 2S, 4E															
MCCLOSKEY, MIS	2932	1960	170	2,8	686,6	13	0	0	6	37	OL	5		MIS	3630
OAKLEY, MACON, 16N, 3E															
GEDAR VALLEY, DEV	2285	1954	170	0,0	22,9	10	0	1	0	37	L	5		DEV	2335
			ABO 1965, REV 74, ABU 80												
OAK POINT, CLARK, JASPER, 8-9N, 14W															
ISABEL, PEN	1952		790	3,5	576,4	64	1	0	30				H	DEV	2691
AUX VASES, MIS	560	1955	10			1	0	0			8	10	ML		
	1185	1955	690			56	1	0	37		8	17			

(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	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF DIL		PAY ZONE			DEEPEST TEST
				DUR- ING 1980	TO END OF 1980	COMP- LETED 1980	CD- MPL EYE 1980	AB- ANU- ONE 1980	PROD- UCING END OF YEAR	BUL- FUR PERC- ENT	KIND OF ROCK	THI- CKN- ESS	STR- UC7- UNE	ZONE	DEP- TH (FT)
				DEP- TH (FT)	UI8C- OVERY										
DAR POINT, CLARK, JASPER, 8-9N, 14W															(CONTINUED FROM PREVIOUS PAGE)
CAMPER, MIS		2220 1952	90			7	0	0				8	X	ML	
DAR POINT W, CLARK, CUMBERLAND, 9N, 11E, 14W															
AUX VASES, MIS		1955	130	0,3	18,4	11	1	0		7					MIS 1560
SPAR MTN, MIS		X 1980	120			10	0	0				8	X		
UCONEE, SHELBY, 10N, 1E															
LINGLE, DEV		2850 1975	70	1,4	23,8	4	0	0		3		8	6	DEV 3139	
MODIN, MARION, 2N, 1-2E															
CYPRESS, MIS		1945	350	3,3	1877,4	34	0	2		23				A	DEV 3597
BENDIST, MIS		1750 1945	340			30	0	2				8	13	AL	
MCCLOSKEY, MIS		1912 1963	10			1	0	0				8	3		
		2085 1957	30			4	0	0				8	12	A	
DRAHVILLE, WASHINGTON, 18, 4W															
SILURIAN		2325 1951	50	0,0	63,3	4	0	0		0 4U		L	3	K	SIL 2603
DRAHVILLE NC, WASHINGTON, 13, 4W															
DEV-SIL		2200 1955	220	5,6	183,8	17	0	0		11 4U		L			DRD 3070
DULO RIPLEY, BOND, 5N, 4W															
PENNSYLVANIAN		1954	490	9,6	563,2	87	0	0		65					DEV 2221
AUX VASES, MIS		600 1954	880			86	0	0		34		8	17	A	
		941 1964	10			1	0	0		36		8	19		
DULO RIPLEY N, BOND, 5N, 4W															
HARDIN, DEV		1991 1962	20	0,0	3,0	1	0	0		0 35		8	1		DEV 2040
DOLNEY C, HIGHLAND, JASPER, 4-5N, 10															
AUX VASES, MIS		1938	3940	29,0	8431,2	230	0	1		28				A	MIS 4030
OMARA, MIS		2918 1960	90			6	0	0		37		8	X	A	
SPAR MTN, MIS		3005 1943	3870			15	0	0		37	0,19	L	6	A	
MCCLOSKEY, MIS		3050 1946	#			77	0	1		37	0,19	L	5	A	
		3100 1938	#			140	0	0		37	0,19	L	6	A	
DOLNEY S, HIGHLAND, 3N, 10E															
OMARA, MIS		1937	1040	6,6	1092,4	63	2	0		19				H	DEV 4910
SPAR MTN, MIS		3142 1962	1040			1	0	0				L	4		
MCCLOSKEY, MIS		3100	#			39	1	0		36		L	4	MC	
		3115	#			38	2	0		37		L	3	MC	
DOMAMA S, GALLATIN, 7-8S, 8E															
JAKE CREEK, PEN		1940	1760	89,6	6352,0	161	0	3		82				U	DEV 5320
PENNSYLVANIAN		385	350			15	0	1				8	20	U	
BIEML, PEN		580	#			5	0	0		19		8	10	U	
PALESTINE, MIS		1335 1948	#			6	0	0		22		8	10	U	
TAR SPRINGS, MIS		1700 1940	410			27	0	0		26	0,24	8	15	U	
HARDINSBURG, MIS		1400	170			9	0	0		27		8	15	U	
CYPRESS, MIS		2179 1961	80			6	0	0		29		8	18	U	
PAINT CREEK, MIS		2402 1959	150			12	0	0		35		8	12	U	
BETHEL, MIS		2450 1961	40			1	0	0		37		8	10	U	
AUX VASES, MIS		2570 1955	#			3	0	1				8	18	U	
OMARA, MIS		2730 1955	890			67	0	2		40		8	20	U	
SPAR MTN, MIS		2734 1958	350			18	0	0		39		L	18	U	
MCCLOSKEY, MIS		2722 1958	#			5	0	0				8	8	U	
		2800 1961	#			6	0	0				L	X	U	
DOMAMA E, GALLATIN, 8S, 8E															
CYPRESS, MIS		1946	1130	0,0	61,2	11	0	0		1				M	MIS 3007
AUX VASES, MIS		2530 1957	30			3	0	0		41		8	6	M	
OMARA, MIS		2790	10			1	0	0		38		8	X	M	
SPAR MTN, MIS		2855 1966	90			3	0	0		37		L	8	HCF	
MCCLOSKEY, MIS		2982 1960	#			1	0	0				L	9	HCF	
		2884 1958	#			3	0	0		38		L	10	HCF	

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 GR, PERC- ENT	PAY ZONE			DEEPEST TEST DEPTH (FT)		
				OUR- ING 1960	TO END OF 1960	COM- PLET- ED 1960	CO- MPL- ED 1960	AB- AND 1960		PROO- UCING END OF YEAR	SUL- FUR- ENT	KIND OF ROCK		THI- CK- NESS	STR- UCT- URE
*OMAHA 8, GALLATIN, SALINE, 38, 7-SE															
		1951	140	0.0	94.3	9	0	U	1					MIS	3035
	CYPRESS, MIS	2535 1953	90			5	0	U	36		8	15	NL		
	AUX VASES, MIS	2870 1955	40			3	0	U	38		8	11	N		
	SPAR MTN, MIS	2865 1951	10			1	0	U	37		L	1	NC		
ABU 1965, REV 1969															
*OMAHA W, SALINE, GALLATIN, 7-88, 7-SE															
		1950	160	8.2	441.3	14	0	U	12					MIS	3025
	CYPRESS, MIS	2600 1950	70			6	0	U	38		8	14	AL		
	SAMPLE, MIS	2600 1967	80			6	0	U	38		8	12			
	AUX VASES, MIS	2800 1950	20			2	0	U	37		8	30	AL		
	MCCLOSKEY, MIS	2910	10			1	0	U	36		L	8	AC		
OMEGA, MARION, 3N, 4E															
		1946	30	0.9	27.4	7	0	U	1					MIS	3200
	BENOIST, MIS	2280 1963	10			1	0	U	38		8	3			
	MCCLOSKEY, MIS	2490 1946	70			5	0	U	38		L	10	U		
	SALEM, MIS	2742 1979	10			1	0	U			L	4			
ABU 1949, REV 1963, ABU 1968, REV 1977															
OPDYKE, JEFFERSON, 3S, 4E															
		1961	60	1.0	9.0	4	1	U	2					MIS	3976
	UMARA, MIS	3016 1962	60			1	0	U			L	8			
	MCCLOSKEY, MIS	3074 1961	8			4	1	U	37		OL	20			
ABU 1967, REV 1979															
*ORCHARDVILLE C, WAYNE, 1N, 5E															
		1950	390	49.5	703.4	32	5	2	20					MIS	4000
	SAMPLE, MIS	2655 1958	10			1	0	U	36		8		A		
	AUX VASES, MIS	2800 1951	310			24	1	2	36		8	16	AL		
	UMARA, MIS	2880	120			5	2	U	37		L	3	AC		
	MCCLOSKEY, MIS	2905 1950	8			6	1	U			L	5	AC		
	SALEM, MIS	3320 1980	10			1	1	U			L	8			
ORCHARDVILLE N, WAYNE, 1N, 5E															
		1956	20	0.1	24.8	2	0	U	1					DEV	4684
	PAINT CREEK, MIS	2655 1956	10			1	0	U			8	6			
	AUX VASES, MIS	2780 1971	10			1	0	U			8	4			
ABU 1966, REV 1971															
*ORIENT, FRANKLIN, 78, 2E															
		1965	40	2.0	198.8	4	0	U	4	36	8	24		MIS	2850
	AUX VASES, MIS	2660 1965													
ORIENT N, FRANKLIN, 78, 2E															
		1967	10	0.0	0.3	1	0	U	U	38	8	4		MIS	3049
	AUX VASES	2680 1967													
ABU 1972															
*OSKALOUSA, CLAY, 5-6N, 5E															
		1950	500	5.1	2629.0	45	1	U	10					DEV	4510
	BENOIST, MIS	2595 1950	450			40	0	U	37		8	15	A		
	AUX VASES, MIS	2643 1958	150			11	0	U	37		8	8	A		
	MCCLOSKEY, MIS	2755 1957	290			15	1	U	36		L	5	A		
*OSKALOUSA E, CLAY, 3N, 5-6E															
		1947	30	0.0	35.2	2	0	U	U					MIS	3397
	AUX VASES, MIS	2820 1947	20		7.0	1	0	U	37		8	5	AL		
	MCCLOSKEY, MIS	2895 1951	10		28.0	1	0	U	33		L	4	AC		
ABU 1954															
OSKALOUSA S, CLAY, 3N, 5E															
		1951	140	1.0	90.9	12	1	3	3						
	STE GENEVIEVE, MIS	2770 1951	130			11	0	3	35		L	4	AC	ORD	5848
	DEVONIAN	4356 1980	10			1	1	0			L	16			
*PANA, CHRISTIAN, 11-12N, 1E															
		1951	140	32.9	185.7	12	0	0	10	37	8	8		DEV	2847
	BENOIST, MIS	1470 1951													
*PANA CEN, CHRISTIAN, 11N, 1E															
		1978	240	24.3	31.1	17	13	U	17		8	5		MIS	1661
	BENOIST, MIS	1528 1978													

TABLE 8--continued

POOL, COUNTY, LOCATION 87 TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF TH U18C- UVERT	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST ZONE TH (FT)			
				TO 1980	END OF 1980	COMP- LETED TO 1980	CO- MPL- ETEU 1980	AS- AND- 1980	PROD- UCING END OF YEAR	SUL- FUR API	PERC- ENT	KING- UP ROCK			THI- CK- ESS	STR- UCT- URE	
				1980	1980	1980	1980	1980	1980	1980	1980	1980			1980	1980	

PANA 8, CHRISTIAN, 11N, 1E																	
	DEVONIAN	2881	1974	130	0,0	0,1	6	0	0	3			L	9	DEV	2929	

PANAMA 4, BOND, MONTGOMERY, 7N, 3-4W																	
			1940	60	0,3	23,5	6	0	0	1			L	12	A	ORO	2950
	WOLCONUA, MIS	705		40			4	0	0		31		L	12	A		
	BENOIST, MIS	865		30			3	0	0		28		S	12	A		

PANKEYVILLE, SALINE, 98, 6E																	
			1956	30	0,0	6,1	2	0	0	0						MIS	2742
	CYPRESS, MIS	2250	1956	20		6,1	2	0	0		37		S	12	A		
	AUX VASES, MIS	2511	1961	10			1	0	0		38		S	12	A		
				ABO 1957, REV 1961, ABO 1961													

PANKEYVILLE E, SALINE, 9S, 7E																	
			1956	10	0,0	0,0	1	0	0	0						MIS	2604
	CYPRESS, MIS	2250	1956	10			1	0	0		37		S	12	A		
	PAINT CREEK, MIS	2360	1956	10			1	0	0		36		S	13			
				ABO 1957													

PARKERSBURG C, RICHLAND, EDWARDS, 1-3N, 10-11E, 14W																	
			1941	5590	65,3	11223,3	350	18	2	87					A	DEV	5128
	PENNSYLVANIAN	2100	1967	1000			1	0	0		36		S	18			
	WALTERSBURG, MIS	2430	1950	150			12	0	0		39		S	10	A		
	TAR SPRINGS, MIS	2440	1967	10			1	0	0		36		S	2	A		
	CYPRESS, MIS	2630	1942	200			12	0	0		36		S	12	A		
	BETHEL, MIS	2930	1942	350			24	3	0		35		S	12	A		
	AUX VASES, MIS	3070		40			2	0	0		37		S	20	A		
	OHARA, MIS	3100		4870			7	0	0				L	10	A		
	SPAR MTN, MIS	3150	1945	#			57	0	1		36	0,34	L	10	A		
	MCCLUSKY, MIS	3175	1941	#			211	5	1		36	0,31	L	10	A		
	SALEM, MIS	3796	1978	210			17	12	1				L	4			
	ULLIN, MIS	3966	1978	10			1	0	0				L	4			

PARKERSBURG 8, EDWARDS, 1N, 14W																	
			1948	100	0,7	104,7	9	0	0	3						MIS	3695
	PENNSYLVANIAN	1400	1950	70			6	0	0		35		S	10			
	CYPRESS	2750	1954	10			1	0	0		36		S	1			
	BETHEL, MIS	2815	1948	20			3	0	0		35		S	5			

PARKERSBURG 4, RICHLAND, EDWARDS, 2N, 10E																	
			1943	360	3,1	240,1	22	3	0	3					A	MIS	4132
	AUX VASES, MIS	3142	1960	10			1	1	0				S	8			
	OHARA, MIS	3220	1945	350			2	0	0				L	5	AC		
	MCCLUSKY, MIS	3260	1943	#			18	1	0		36		L	6	AC		
	SALEM, MIS	3789	1960	30			2	2	0				L	5			
				ABO 1962, REV 64, ABO 65, REV 76, ABO 78, REV 80													

PARNELL, DEWITT, 21N, 4E																	
			1963	610	13,7	224,6	39	0	0	36						TAN	1971
	SONORA, MIS	671	1963	590			36	0	0		32		S	12			
	DEVONIAN	1100	1964	20			3	0	0		37		S	12			

PASSPORT, CLAY, 4-5N, 8E																	
			1945	990	22,3	3432,8	66	1	0	17					A	MIS	3631
	AUX VASES, MIS	2924	1964	20			5	0	0		36		S	6			
	SPAR MTN, MIS	3005	1945	970			2	0	0		38		L	5	AC		
	MCCLUSKY, MIS	3020		#			60	1	0		37		L	10	A		

PASSPORT N, RICHLAND, 5N, 9E																	
			1959	60	1,4	75,2	5	0	0	2	36		S	10		MIS	3564
	AUX VASES, MIS	2940	1959														

PASSPORT 8, RICHLAND, CLAY, 4N, 8-9E																	
			1948	140	0,1	172,0	12	1	0	2					A	MIS	3692
	TAR SPRINGS, MIS	2368	1962	10			1	0	0		37		S	9			
	CYPRESS, MIS	2665	1948	80			7	0	0		38		S	15	AL		
	AUX VASES, MIS	2957	1960	10			1	0	0		36		S	8	A		
	SPAR MTN, MIS	3025	1948	40			1	0	0				L	6	AC		
	MCCLUSKY, MIS	3030		#			2	0	0		38		L	8	AC		
	SALEM, MIS		1960	10			1	1	0				L				

PASSPORT W, CLAY, 4N, 8E																	
(CONTINUE ON NEXT PAGE)																	

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA	PRODUCTION		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		DEEPEST TEST	
				PRODUCTION	M RBL	CUM- LATEO	CUM- MPL	AB-	PRUD-	SUL-	PAY ZONE	DEEPEST TEST				
(• SECONDARY RECOVERY SEE PART II)	NAME AND AGE	DEF- OF TH DIAC- (FT) OVERY	ACRES	OUR- IN 1980	TO END OF 1980	TO END OF 1980	IN UNED IN 1980	AND- DCING YEAR	API	PERC- OF GR.	FUK- ENT	KIND UP RUCK	THI- CKN- DCT- ZONE	STR- UME	DEP- TH (FT)	
(CONTINUED FROM PREVIOUS PAGE)																
PASOPORT W, CLAY, 4N, 8E	STE, GEN, MIS	3030 1954	150	0.0	69.4	11	0	0	0	37	L	5	AC	MIS	3570	
			ABO 1967, REV 1971, ABO 1974													
PATOKA, MARION, CLINTON, 3-4N, 1E, 1W																
	CYPRESS, MIS	1280 1937	1560	27.3	14751.1	242	0	1	104					U	OH	4056
	BENOIST, MIS	1410 1937	1000			180	0	0		37	0.16	S	2T	U		
	AUX VASES, MIS	1459 1970	40			3	0	0						U		
	SPAR MTN, MIS	1550	910			15	0	0		39	0.31	S	9	U		
	GENEVA, DEV	2835 1943	30			3	0	0		40	0.28	O	10	D		
	TRENTON, OH	3950 1956	630			34	0	1		42		L	25	U		
PATOKA E, MARION, 4N, 1E																
	CYPRESS, MIS	1340 1941	570	54.6	9830.8	65	0	0	35					U	OH	4176
	BENOIST, MIS	1465	50			5	0	0		36	0.23	S	16	U		
	MCCLOSKEY, MIS	1635 1953	40			3	0	0		34		L	8	U		
	GENEVA, DEV	2950 1952	20			2	0	0		35		U	30	H		
PATOKA S, MARION, 3N, 1E																
	CYPRESS, MIS	1350 1953	1060	38.3	2540.0	82	0	1	67					A	OH	4041
	BENOIST, MIS	1461 1959	230			20	0	0		37		S	15	A		
	SPAR MTN, MIS	1624 1959	50			2	0	0						A		
	DEVONIAN	2978 1979	40			1	0	0				L	10			
	TRENTON, OH	3990 1973	200			6	0	0		43		L	18			
PATOKA W, FAYETTE, 4N, 1W																
	BENOIST, MIS	1360 1950	200	0.0	303.6	20	0	0	0	32		S	6	A	MIS	1735
			ABO 1965													
PHILLIPSTOWN C, WHITE, EDWARDS, 3-5S, 1D-11E, 14W																
	ANVIL ROCK, PEN	795 1939	7410	517.9	31648.3	494	10	0	347					A	DEV	5350
	CLARK-BRDGPT, PEN	1350 1943	1440			1	0	0		36		S	10	AP		
	PENNSYLVANIAN	1450				14	0	0		36		S	10	AP		
	BUCHANAN, PEN	1550				17	0	0		36		S	10	AP		
	BIEL, PEN	1875				26	0	0		30		S	15	AP		
	KINKAID, MIS	1954 1961	10			86	0	0		33	0.24	S	15	AP		
	DEGONIA, MIS	1975 1943	810			1	0	0				S	17	AP		
	CLORE, MIS	2010 1942	170			66	0	0		38		S	15	AP		
	PALESTINE, MIS	2050 1942	140			16	0	0		34		S	12	AP		
	WALTERSBURG, MIS	2280 1943	270			14	0	0		32		S	11	AP		
	TAN SPRINGS, MIS	2295 1943	1440			25	0	0		34		S	11	AP		
	CYPRESS, MIS	2720 1943	430			116	2	0		35		S	15	AP		
	PAINT CREEK, MIS	2780 1944	1560			54	1	0		36		S	12	AP		
	BETHEL, MIS	2810 1943	4			7	0	0		37		S	9	AP		
	AUX VASES, MIS	2880 1939	1230			113	0	0		36		S	15	AP		
	OHARA, MIS	3010 1943	2260			96	2	0		37		S	15	AP		
	SPAR MTN, MIS	2960				34	2	0		36		L	10	ACF		
	MCCLOSKEY, MIS	3000 1939				40	3	0		38	0.21	LS	10	ACF		
	ST LOUIS, MIS	3120 1976	20			81	3	0		34	0.21	L	6	ACF		
	SALEM, MIS	3794 1978	10			2	0	0				L	20			
	ULLIN, MIS	3982 1980	20			1	0	0				L	8			
						2	2	0				L	8			
PINKSTAFF, LAWRENCE, 4N, 11W																
	MCCLOSKEY, MIS	1735 1951	10	0.0	0.1	1	0	0	0	37		L	4	MIS	2490	
			ARD 1951													
PINKSTAFF E, LAWRENCE, 4N, 11W																
	STE GEN, MIS	1640 1955	130	1.9	X	9	0	2	5	35		L	6	MIS	2250	
			ABO 1961, REV 1975													
PITTSBURG N •, WILLIAMSON, 8S, 3E																
	BETHEL, MIS	2459 1972	40	3.7	78.6	4	0	0	3					MIS	3070	
	AUX VASES, MIS	2578 1964	30			1	0	0				S	8			
						3	0	0				S	8			
PIXLEY, CLAY, 4N, 8E																
	CYPRESS, MIS	2680 1959	30	0.0	0.0	3	1	0	1	35		S	9	MIS	3684	
	SALEM, MIS	3538 1960	10			2	0	0				L	3			
			ARD 1960, REV 1980													
PLAINVIEW •, MACDOPIN, 9N, 8W																
(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			PAY ZONE	DEEPEST TEST				
				OUR- ING 1980	TO END OF 1980	CUM- LETEN TO 1980	CO- MPL- ETO 1980	AS- ANU- 1980	PROD- UCING END OF YEAR	GR, API	SUL- FUR PERC- ENT			KIND OF RUCK	THI- CKN- ESS	STR- UCT- URE	DEP- TH (FT)
(CONTINUED FROM PREVIOUS PAGE)																	
PLAINVIEW 4, MACOUPIN, 9N, 8W PENNSYLVANIAN		410 1942	10	0,0	2,0	1	0	0	0	34		8	5	PEN	563		
PLAINVIEW 8, MACOUPIN, 8N, 8W PENNSYLVANIAN		444 1959	10 ABU 1962	0,0		X	1	0	0	0	34		8	8	PEN	642	
POSEN, WASHINGTON, 38, 2W TRENTON, ORD		3900 1952	50	2,1	119,7	4	0	0	1	37		L	25	A	ORD	3954	
POSEN N, WASHINGTON, 38, 2W TRENTON, ORD		4015 1953	10 ABU 1959	0,0	3,9	1	0	0	0	37		L	15	AC	ORD	4112	
POSEN 8, WASHINGTON, 38, 2W BENOIST, MIS		1255 1955	50 ABU 1959	0,0		X	4	0	0	0	34		8	7	MIS	1300	
POSEY, CLINTON, 1N, 2W CYPRESS, MIS DEVONIAN		1941 1105 1941 2675 1959	330 320 10	14,5	539,6	30 29 1	0 0 0	0 U U	26		36 0,18 38		8 5 L	M M M	BIL	2798	
POSEY E, CLINTON, 1N, 2W DEV-BIL		2740 1952	480	14,8	683,9	29	2	0	25	36		L	A	DEV	2805		
POSEY W, CLINTON, 1N, 3W DEVONIAN		2585 1954	20 ABU 1954, REV 1977	0,5	2,8	2	0	0	1	37		L	15	BIL	2670		
PRENTICE 4, MORGAN, 16N, 8W PENNSYLVANIAN		270 1953	30	0,0	0,0	3	0	0	0	30		S	10	ORD	1513		
PYRAMID, WASHINGTON, 28, 1W DEVONIAN		3109 1962	100 ABU	0,0	44,1	6	0	0	0	36		S	6	DEV	3255		
RACCOON LAKE, MARION, 1N, 1E CYPRESS, MIS BENOIST, MIS OHARA, MIS SPAR MTN, MIS MCCLOSKEY, MIS DEV-BIL		1949 1625 1949 1715 1957 1885 1949 1930 1949 1950 1949 3330 1951	380 240 20 190 # # 270	7,3	3439,4	47 18 2 1 11 13 15	0 0 0 0 0 0 0	U U U U U U U	13		34 37 # 36 36 40		8 S L 8 L D	10 15 5 12 10 10	U U UL UC UC H	BIL	3530
RALEIGH, SALINE, 7-88, 6E TAR SPRINGS, MIS CYPRESS, MIS PAINT CREEK, MIS AUX VASES, MIS OHARA, MIS SPAR MTN, MIS MCCLOSKEY, MIS		1953 2235 1954 2550 1953 2738 1958 2905 1953 3054 1959 3025 1957 3045 1974	630 20 450 10 100 50 # #	3,6	2259,6	55 2 39 1 11 1 2 1	0 0 U U 0 U U U	0 U U U U U U U	11		35 34 34 38 # 38 #		S S S 8 L L OL	A 20 12 5 5 3 10 4	A A A A A A A A	DEV	5511
RALEIGH 8 4, SALINE, 88, 5-6E WALTERSBURG, MIS BETHEL, MIS AUX VASES, MIS MCCLOSKEY, MIS		1955 2046 1959 2739 1958 2860 1955 2960 1974	480 60 10 390 20	52,1	1479,8	42 4 1 38 2	7 0 0 0 1	0 U U 0 0	19		39 37 40		S S 8 OL	10 A 16 13	MIS	3455	
RAYMOND, MONTGOMERY, 10N, 4-5W POTTSVILLE, PEN		590 1940	60	0,6	32,2	10	0	0	3	35	0,22	S	10	ML	DEV	2049	
RAYMOND E, MONTGOMERY, 10N, 4W PENNSYLVANIAN		595 1951	60	0,7	33,2	5	0	0	2	34		S	10	MIS	1008		

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	PRODUCTION M BBLs			NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE			DEEPEST TEST
			PRO- VED IN ACRES	UN- ING 1980	TO END OF 1980	COMP- LETED TO END OF 1980	CO- MPL- IN 1980	AB- AND 1980	PROD- UCING YEAR	SUL- FUR ENT	KIND OF ROCK	THI- CK- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)	
RAYMUND S, MONTGOMERY, 10N, 4W	UNNAMED, PEN	603 1959	10 ABO 1959	0.0	0.0	1	0	0	0	34	8	6	PEN	680		
RESERVOIR, JEFFERSON, 1S, 3E		1950	350	6.0	606.7	22	2	0	9				MC	MIS	3211	
SPAR MTN, MIS		2443 1959	330			2	0	0			8	7	M			
MCCLOSKEY, MIS		2700 1950	#			19	1	0		37	L	6	MC			
SALEM, MIS		3034 1961	20			2	1	0		39	L	12	M			
RICHVIEW, WASHINGTON, 2S, 1W	CYPRESS, MIS	1500 1946	700	35.6	3027.3	85	1	3	59	39	8	12	AL	MIS	3291	
RIOGHAY, GALLATIN, 8S, 8E		1946	20	0.0	0.1	2	0	0	0				MC	MIS	2938	
PALESTINE, MIS		1730 1955	10			1	0	0		30	S	18	ML			
MCCLOSKEY, MIS		2840 1946	10		0.1	1	0	0		38	L	6	MC			
			ABO 1946, REV 1955, ARO 1956													
RIFPLE, CLAY, 4N, 6E	SPAR MTN, MIS	2735 1948	80 ABU 1961	0.0	80.9	5	0	0	0	36	L	7	MC	MIS	2848	
RINARD C, WAYNE, 2N, 7E		1937	310	1.7	378.0	24	0	1	5				M	MIS	3950	
OHARA, MIS		3132 1977	300			1	0	0			L	6				
SPAR MTN, MIS		3135	#			1	0	0			L	6	MC			
MCCLOSKEY, MIS		3140 1937	#			21	0	0	39		L	5	MC			
SALEM, MIS		3561 1976	10			2	0	1			L	25				
RINARD S, WAYNE, 1N, 6E	SPAR MTN, MIS	3268 1965	10 ABO 1966	0.0	0.8	1	0	0	0	39	L	4		MIS	3863	
RITTER, RICHLAND, 3N, 10-11E	STE. GEN, MIS	3215 1950	110 ARO 1960, REV 1961	1.5	265.9	6	0	0	1	38	L	5		MIS	3925	
RITTER N, RICHLAND, 3N, 11E		1951	180	0.0	161.3	11	0	0	0					MIS	3288	
OHARA, MIS		3203 1960	180			1	0	0	34		L	6				
SPAR MTN, MIS		3215 1952	#			8	0	0			L	6				
MCCLOSKEY, MIS		3205 1951	#			3	0	0			L	5				
			ABO 1967													
RIVERTON S, BANGAMON, 15N, 4W	SILURIAN	1590 1965	40	0.7	93.1	3	0	0	3	38	0	8		SIL	1670	
NOACHES, JEFFERSON, 2S, 1E		1938	310	24.1	651.9	22	5	0	9				A	DEV	3040	
BENDIST, MIS		2000	40			6	3	0		36	S	X	AL			
OHARA, MIS		2170 1942	260			4	0	0		37	0.22	L	5	AC		
SPAR MTN, MIS		2190 1938	#			11	0	0		37	0.22	L	12	AC		
MCCLOSKEY, MIS		2250 1938	#			6	0	0		37	0.22	L	4	AC		
ST LOUIS, MIS		1980	10			2	2	0			L	X				
NOACHES N, JEFFERSON, 2S, 1E		1944	420	4.2	1133.6	37	2	0	4				A	7RN	4996	
BENDIST, MIS		1925 1944	420			32	0	0	37		S	7	A			
SPAR MTN, MIS		2115 1944	100			6	2	0	34		L	8	AC			
TRENTON		4852 1962	10			1	0	0	42		L	40				
NOBY, BANGAMON, 15N, 3W	SILURIAN	1775 1949	370 ABO 1951, REV 1954	11.1	408.4	26	0	0	14	38	L	5	HU	SIL	1905	
ROBY E, CHRISTIAN, BANGAMON, 15N, 2-3W		1970	1660	179.6	1489.1	106	15	1	71					SIL	1923	
DEVONIAN		1757 1971	20			2	0	0			S	2				
SILURIAN		1840 1970	1570			105	15	1			L	20				

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP. OF TH OVERY	AREA PRO- VEO IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL				PAY ZONE	DEEPEST TEST ZONE TH (FT)
				1980	1980	COMPL- ETED TO END OF 1980	CO- MPL- ANO 1980	AS- PROO- UCING END OF YEAR	PROO- UCING END OF YEAR	SUL- FUR GR.	PERC- ENT	PAY ZONE	DEEPEST TEST ZONE TH (FT)		
ROBY N, BANGAMON, 16N, 3W	SILURIAN	1999 1962	60	0,1	19,1	5	0	0	1	38	L	4	TRN	2300	
			ABU 1964, REV 71, ABU 73, REV 79												
ROBY W, BANGAMON, 15N, 3W	MISSOURI, OEV	1655 1957	40	0,2	6,5	4	0	0	3	37	8	5	TRN	2259	
			ABU 1963, REV 1967												
ROCHESTER #, WABASH, 28, 13W	PENNSYLVANIAN	1300 1948	390	1,7	2559,1	53	0	0	21	32	8	16	M	MIS	3450
			WALTERSBURG, MIS 1940 1948 220 29 0 0 8 20 ML												
			SALEM, MIS 3210 1977 20 2 0 0 8 30												
ROLAND C #, WHITE, GALLATIN, 5-78, 8-9E	PENNSYLVANIAN	1410 1939	11490	368,6	58799,1	1010	24	0	318	36	8	10	A	OEV	5266
			DEGONIA, MIS 2065 40 4 0 0 35 S Y A												
			CLORE, MIS 1993 90 6 0 0 36 S 4												
			PALESTINE, MIS 2085 40 4 0 0 34 S 2 A												
			WALTERSBURG, MIS 2200 1870 121 0 0 31 0,25 8 15 AL												
			TAR SPRINGS, MIS 2300 740 50 0 0 35 8 15 AL												
			HANOINSBURG, MIS 2550 2030 161 8 0 37 0,30 3 20 AL												
			GOLCONDA, MIS 2505 10 1 0 0 35 8 5 A												
			CYPRESS, MIS 2700 2510 161 1 0 36 0,12 8 15 AL												
			PAINT CREEK, MIS 2800 2330 40 0 0 37 8 12 AL												
			BETHEL, MIS 2800 88 0 0 37 0,20 3 12 AL												
			AUX VASES, MIS 2880 4360 271 0 0 39 0,12 8 13 AL												
			OMARA, MIS 3020 2680 32 1 0 36 OL 6 AC												
			SPAR MTN, MIS 3050 34 1 0 38 L 6 AC												
			MCCLOSKEY, MIS 3070 121 10 0 38 0,20 L 6 AC												
			ST. LOUIS, MIS 3250 100 7 2 0 37 L 6 AC												
			SALEM, MIS 4089 150 10 4 0 38 L 19												
			ULLIN 4050 280 9 4 0 38 L 4												
ROLAND W, SALINE, 73, 7E	AUX VASES, MIS	2935 1950	10	0,0	22,3	1	0	0	0	40	8	15	ML	MIS	3161
			ABU 1959												
ROBE MILL, JASPER, 8N, 9E	MCCLOSKEY, MIS	2695 1966	10	0,0	7,3	1	0	0	0	39	L	10	MIS	3052	
			ABU 1976												
RUARK, LAWRENCE, 2N, 12-13W	PENNSYLVANIAN	1600 1941	480	5,0	2655,6	54	0	0	19	33	8	10	A	MIS	2442
			BETHEL, MIS 2075 90 8 0 0 36 S 11 AL												
			AUX VASES, MIS 2145 30 3 0 0 37 S 7 AL												
			OMARA, MIS 2275 10 1 0 0 37 L 5 AC												
RUARK W C, LAWRENCE, 2N, 13W	WALTERSBURG, MIS	1780 1947	740	10,8	1533,9	64	0	3	27	38	8	10	M	MIS	3112
			CYPRESS, MIS 2165 50 7 0 0 35 S 9 ML												
			BETHEL, MIS 2220 580 45 0 1 36 8 20 ML												
			OMARA, MIS 2350 300 4 0 0 L 5 MC												
			SPAR MTN, MIS 2390 8 2 0 0 L 5 MC												
			MCCLOSKEY, MIS 2400 19 0 2 38 L 3 MC												
RURAL MILL N, HAMILTON, 5S, 5E	CYPRESS, MIS	2930 1949	150	8,2	250,5	12	1	0	4	35	8	10	M	MIS	4489
			OMARA, MIS 3330 20 1 0 0 L 6												
			SPAR MTN, MIS 3325 8 1 0 0 37 L 8 MC												
			ST LOUIS, MIS 3640 10 1 0 0 L 7												
			SALEM, MIS 3860 20 1 0 0 L 35												
			ULLIN, MIS 4220 30 3 1 0 L 7												
			ABU 1950, REV 1956, ABU 1969, REV 1976												
RUSHVILLE, SCHUYLER, 2N, 1W	DEV-SIL	743 1966	10	0,0	0,0	1	0	0	0	37	L	22	TRN	975	
			ABU 1969												
RUSHVILLE NW, SCHUYLER, 2N, 2W	SILURIAN	669 1960	30	0,0	0,5	3	0	0	0	36	L	3	AC	TRN	1038
			ABU 1976												

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART 11)	PAY ZONE	YEAR	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		DEEPEST TEST	
			PRU- YED IN ACRES	OUR- ING 1980	TO ENO OF 1980	COMP- TO ENO OF 1980	CO- MPL- 1N 1980	AB- ONO- 1980	PROO- UCING YEAR	SUL- FUR- IN GR.	PERC- OF API	KINU OF ROCK	THI- CKN- LBB		STR- UCT- URE
RUBSELLVILLE GAS •, LAWRENCE, 4-SN, 10-11W															
MCCLOSKEY, MIS		1560 1937	40	0,1	12,9	4	0	0	2	35		L	7	AC	OEV 3133
			ABU 1958, REV 1977												
RUBSELLVILLE W, LAWRENCE, 4N, 11W															
SPAR MTN, MIS		1565 1955	10	0,0	2,0	1	0	0	0	37		L	22		MIS 1646
			ABU 1957												
•ST, FRANCISVILLE, LAWRENCE, 2N, 11W															
BETHEL, MIS		1845 1900	950	X	X	69	0	0	32	32		S	6	ML	MIS 2465
			SEE LAWRENCE COUNTY DIVISION FOR PRODUCTION												
•ST, FRANCISVILLE E, LAWRENCE, 2N, 11W															
PENNSYLVANIAN		1260 1954	450	0,5	726,5	34	0	0	17			S	A	A	MIS 1960
WALTERSBURG, MIS		1300	60			6	0	0		30		S	A	AL	
HARDINSBURG, MIS		1460 1950	10			1	0	0		37		S	6	AL	
CYPRESS, MIS		1605	40			3	0	0		35		S	6	AL	
BETHEL, MIS		1750 1941	60			3	0	0		36		S	15	AL	
SPAR MTN, MIS		1822 1963	320			25	0	0		40	0,21	S	20	A	
			10			1	0	0		36		L	5		
•ST, JACOB, MAUISON, 3N, 6W															
TRENTON, OHO		2260 1942	1050	24,4	4199,9	55	0	0	28	40	0,23	L	17	A	PC 5019
•ST, JACOB E, MAUISON, 3N, 6W															
HARDIN, OEV		1840 1955	50	2,3	5,8	4	1	0	3			S	X	U	OHO 2600
TRENTON, OHO		2556 1979	20			1	0	0	23			L	4		
			ABU 1957, REV 1979												
•ST, JAMES, FAYETTE, 5-6N, 2-3E															
GOLCONOA, MIS		1555 1938	2280	110,8	20891,2	263	0	1	138			L	15	A	OEV 3470
CYPRESS, MIS		1580 1938	10			1	0	0		34		L	16	A	
BENOIST, MIS		1746 1959	1900			200	0	1		37	0,31	S	16	A	
SPAR MTN, MIS		1860 1954	10			1	0	0		36		S	8	A	
CARPER, MIS		3070 1961	100			10	0	0		38		L	14	A	
			670			52	0	0		37		S	35	A	
•ST, PAUL, FAYETTE, 5N, 3E															
BENOIST, MIS		1900 1941	380	7,4	1051,3	36	0	0	19			S	9	A	OEV 3575
SPAR MTN, MIS		2080	240			18	0	0		34	0,23	S	6	A	
CARPER, MIS		3288 1963	10			1	0	0		38		L	6	A	
			290			19	0	0		36		S	28		
•STE, MARIE, JASPER, 5N, 10-11E, 14W															
STE, GEN, MIS		2900 1941	1210	7,8	2097,4	72	0	4	4	37	0,14	L	8	AC	MIS 3470
•STE, MARIE E, JASPER, 6N, 14W															
ST, GEN, MIS		2685 1949	70	0,6	35,6	8	0	1	0	38		L	10	MC	MIS 3191
			ABU 1951, REV 66, ABU 80												
•STE, MARIE W, JASPER, 5-6N, 10E															
AUX VASES, MIS		2720 1949	410	5,4	473,7	21	0	0	12			S	25	ML	MIS 3225
STE GEN, MIS		2815 1949	10			1	0	0		37		L	6	MC	
			410			21	0	0		40		L	6	MC	
•SAILOR SPRINGS C, CLAY, EFFINGHAM, JASPER, 3-6N, 6-8E															
TAR SPRINGS, MIS		2340 1941	20050	545,0	59556,4	1510	33	14	636			S	12	A	OEV 5600
GLEN OGAN, MIS		2390 1943	810			58	0	0		37	0,17	S	12	A	
JACKSON, MIS		2550 1976	10			1	0	0		38		L	8	A	
CYPRESS, MIS		2550 1942	10			1	0	0		37		S	10	A	
BETHEL, MIS		2740 1946	10410			767	18	6		38	0,28	S	12	A	
AUX VASES, MIS		2825 1942	710			42	0	1		37		S	20	A	
OMARA, MIS		2900 1947	2830			210	9	2		37		S	13	A	
SPAR MTN, MIS		2900 1945	8110			17	0	0		37		OL	8	A	
MCCLOSKEY, MIS		2925 1938	•			197	2	4		33		LS	8	A	
ST LOUIS, MIS		3310 1967	•			342	2	5		40		OL	8	A	
SALEM, MIS		3260 1978	70			10	2	1		39		L	11	A	
DEVONIAN		4586 1980	70			6	2	0				L	12		
			20			2	2	0					6		
SAILOR SPRINGS E, CLAY, 4N, 8E															
		1944	210	3,5	86,7	18	3	0	4				U	MIS	3776

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA PRO- VEU	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL		PAY ZONE	DEEPEST TEST
				TO ING	END OF 1980	COMP- LETEO TO	CO- MPL- IN	AS- ANO- 1980	PROD- UCING END OF YEAR	SUL- FUR PERC- ENT		
(CONTINUED FROM PREVIOUS PAGE)												
SAILOR SPRINGS E, CLAY, 4N, 8E												
CYPRESS, MIS		2695 1944	110			10	0	0		36	S	8 U
MCCLOSKY, MIS		3020 1955	60			6	1	0		37	L	7 U
ST LOUIS, MIS		3228 1980	10			1	1	0			L	6
SALEM, MIS		3550 1967	40			3	2	0		38	L	6
ABU 1952, REV 1955, ARO 1956, NEV 1960, ARO 1961, NEV 1966												
SAILOR SPRINGS N, CLAY, 4N, 8E												
SPAR MTN, MIS		2985 1948	80	0.1	4.9	6	1	0	1		L	M MIS 3126
MCCLOSKY, MIS		3030	80			4	1	0			L	2 MC
ABU 49, REV 50, ARO 51, REV 55, ABU 56, REV 57, ABU 60, REV 80												
SALEM C, MARION, JEFFERSON, 1-2N, 18, 1-2E												
BENOIST, MIS		1780 1938	13670	1812.5	372011.8	2876	9	10	1277			A PC 9210
AUX VASES, MIS		1825	10830			628	5	9		37	S	40 A
OMARA, MIS		2075	7590			822	0	0		37	0.21	8 40 A
SPAR MTN, MIS		2100	4580			2	0	0		37	L	3 A
MCCLOSKY, MIS		2050	#			151	0	0		37	L8	15 A
ST. LOUIS, MIS		2100	#			896	4	0		35	L	17 A
SALEM, MIS		2160 1939	210			19	0	0		37	L	17 A
DEVONIAN		3440 1939	1400			279	0	0		37	L	17 A
TRENTON, DNO		4500 1941	6000			662	0	1		42	0.28	L 40 A
			1920			151	0	0		37	L	50 A
SAMBVILLE, EDWARDS, 1N, 11E												
WALTERSBURG, MIS		2420 1942	70	0.0	1.0	5	0	0	0	38	S	7 A MIS 3303
ABU 1952, REV 1974, ARO 1977												
SAMBVILLE N, EDWARDS, 1N, 14W												
BETHEL, MIS		2900 1945	200	1.3	260.5	16	0	0	0	38	S	6 A MIS 4040
ABU 1976												
SAMBVILLE NW, EDWARDS, 1N, 10E												
OMARA, MIS		3190 1955	30	0.3	4.5	3	1	0	1			MIS 4145
SPAR MTN, MIS		3301 1970	20			1	0	0		38	L	4
MCCLOSKY, MIS		3290 1980	#			1	0	0			L	10
SALEM, MIS		3872 1980	10			1	1	0			OL	5
ABU 1956, REV 70, ABU 72, REV 80												
SANDOVAL, MARION, 2N, 1E												
CYPRESS, MIS		1400 1909	500	25.4	6303.1	155	1	0	11			U STP 5023
BENOIST, MIS		1540 1909	20			1	0	0		37	S	10 U
GENEVA, DEV		2920	480			124	0	0		35	S	20 U
NEV 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
ABU 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
ABU 1947												
SCHMELL, RICHLAND, 2N, 9E												
AUX VASES, MIS		2956 1938	190	4.3	377.5	15	0	0	9			MIS 3690
SPAR MTN, MIS		3090 1974	130			8	0	0			S	10
MCCLOSKY, MIS		3000 1938	10			1	0	0			S	15
			80			7	0	0		39	0.19	OL 5 AC
SCHMELL E, RICHLAND, 2N, 9E												
SPAR MTN, MIS		3101 1954	170	19.8	36.3	12	3	2	9			MIS 3776
MCCLOSKY, MIS		3115 1954	170			6	1	1			S	5
			#			7	2	1		36	L	4 AC
ABU 1954, REV 1976												
SCIOTA, MCCONOUGH, 7N, 3W												
DEVONIAN		519 1960	10	0.0	0.0	1	0	0	0	28	L	16 SIL 760
ABU 1960												
SEMINARY, RICHLAND, 2N, 10E												
MCCLOSKY, MIS		3195 1945	120	0.0	228.4	8	0	0	0	38	L	MC MIS 3475
ABU 1966												

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF UISC- (FT) OVERY	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL			PAY ZONE			DEEPEST TEST DEPTH (FT)			
				1980	1980	COMP- LETD	CO- MPL	AB- AND	PROO- UCING	SUL- FUR	KINU UP	THI- CKN	STR- UCT	ZONE	UET- TH					
*BESSER C, FRANKLIN, 5-08, 1-2E																				
CYPRESS, MIS		1942	1690	67.9	3690.0	111	1	0		70							DEV	4688		
RENAULT, MIS		2455 1953	50			3	0	0			38									
AUX VASES, MIS		2690	340			26	0	0			37	0.17								
OMARA, MIS		2700 1942	1270			75	1	0			38	0.17								
SPAR MTN, MIS		2675 1951	110			2	0	0												
MCCLOSKEY, MIS		2810 1944	#			5	0	0												
ST. LOUIS, MIS		2840	#			5	0	0			39									
CLEAR CREEK, DEV		3002 1957	10			1	0	0			37									
		4360 1949	140			9	0	0			40									
SHARPSBURG, CHRISTIAN, 14N, 2W																				
DEVONIAN		1972 1975	40	0.0	0.1	3	0	1		2								81L	2062	
SILURIAN		1990 1974	10			1	0	0												
*SHATTUC, CLINTON, 2N, 1W																				
CYPRESS, MIS		1280 1945	280	10.6	819.2	36	0	0		16								ONO	4078	
BENOIST, MIS		1420 1947	150			15	0	0			36									
TRENTON, ORD		4020 1948	80			7	0	0			35									
			180			15	0	0			40									
SHATTUC N, CLINTON, 2N, 1W																				
BENOIST, MIS		1445 1961	10	0.0	2.4	1	0	0		0	36							THN	4134	
			ARD 1964																	
SHANNEETOWN, GALLATIN, 9S, 9E																				
PALESTINE, MIS		1720 1945	80	0.0	16.9	4	0	0		0								MIS	2637	
WALTERSBURG, MIS		1900 1955	40			2	0	0			35									
FAN SPRINGS, MIS		1960 1955	10			1	0	0			37									
CYPRESS, MIS		2375 1956	60			3	0	0			37									
BETHEL, MIS		2400 1968	10			1	0	0			38									
AUX VASES, MIS		2650 1945	10			1	0	0			38									
			ARD 1950, DEV 1955, ARD 1960, REV 1968, ARD 1969																	
SHANNEETOWN E, GALLATIN, 9S, 10E																				
WALTERSBURG, MIS		1855 1952	30	0.0	18.3	4	0	0		2								MIS	2630	
BETHEL, MIS		2480 1955	10			2	0	0			37									
AUX VASES, MIS		2660 1952	10			1	0	0			38									
			ARD 1953, DEV 1955, ARD 1966																	
*SHANNEETOWN N, GALLATIN, 9S, 10E																				
AUX VASES, MIS		2750 1948	50	0.0	104.9	4	0	0		0								MF	MIS	3131
MCCLOSKEY, MIS		3045 1948	40			3	0	0			38									
			10			1	0	0			36									
			ARD 1953, DEV 1955, ARD 1966																	
*SHELBYVILLE C, SHELBY, 11N, 4E																				
AUX VASES, MIS		1860 1946	110	1.1	47.9	9	0	0		1	34							MIS	3301	
SHUMWAY, EFFINGHAM, 9N, 5E																				
MCCLOSKEY, MIS		2223 1965	10	0.0	3.4	1	0	0		0	37							MIS	2273	
			ARD 1969																	
SICILY, CHRISTIAN, 13N, 4W																				
SILURIAN		1860 1956	70	0.0	49.4	4	0	0		0	39							SIL	1884	
			ARD 1967																	
*SIGGINS, CUMBERLAND, CLARK, 10-11N, 10-11E, 14W																				
1ST (UP) SIGGINS, PEN		400	4030	X	X	1127	0	0		437								U	THN	3341
2ND (LO) SIGGINS, PEN		460	#			98	0	0			36							U		
3RD, 4TH SIGGINS, PEN		580	#			95	0	0			36							U		
TRENTON, ORD		3013 1972	10			209	0	0			37							U		
			10			1	0	0			40							U		
			SEE CLARK COUNTY DIVISION FOR PRODUCTION																	
SILOAM, BROWN, 2S, 4W																				
SILURIAN		605 1959	280	5.7	249.3	26	0	1		10	37							AC	SIP	1115
*SORENTO C, MONO, 6N, 4W																				
PENNSYLVANIAN		570 1938	700	2.6	1935.1	58	0	0		5								A	THN	2684
		(CONTINUED ON NEXT PAGE)	80			6	0	0			31							A		

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a 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			DEEPEST TEST						
				DUR- ING 1980	TN END OF 1980	COMP- LETED TO END OF 1980	CO- MPL- IN 1980	AS- AND ONED 1980	PRIO- UCING END OF YEAR	SUL- FUR PERC- ENT	PAY ZONE KIND UP ROCK	STR- UCT- URE	ZONE	DEP- TH (FT)				
(CONTINUED FROM PREVIOUS PAGE)																		
*SORENTO C, BOND, 6N, 4W	LINGLE, DEV	1875	1938	640			52	0	U		35	8	8	A				
SORENTO W, BOND, 6N, 4W	DEVONIAN	1880	1956	10 ABU 1956	0.0	0.0	1	0	U		U	37	L	X	ORO	2706		
SPARTA +, RANDOLPH, 4-58, 5-6W	CYPRESS, MIS	850	1888	20 ABU 1900	0.0	X	2	0	U		0	35	8	7	U	TRN	3130	
SPARTA 8, RANDOLPH, 58, 5W	CYPRESS, MIS	880	1949	10 ABU 1950	0.0	0.0	1	0	0		0	35	8	A	A	MIS	409	
SPRINGERTON, WHITE, 48, 8E	AUX VASES, MIS	3376	1900	10	1.0	1.0	1	1	0		1		8	X		MIS	3560	
SPRINGERTON 8, WHITE, 48, 8E			1976	820	114.2	788.4	63	4	2		55					MIS	4500	
	AUX VASES, MIS	3325	1977	710			54	2	1				8	8				
	OHARA, MIS	3424	1978	130			1	0	0				L	4				
	SPAR MTN, MIS	3440	1976	#			4	0	U				S	9				
	MCCLOSKEY, MIS	3494	1978	4			4	2	U				L	6				
	SALEM, MIS	4290	1977	10			1	0	U				L	5				
	ULLIN, MIS	4385	1977	20			2	0	1				L	6				
SPRINGFIELD E, BANGAMON, 15N, 4W			1960	230	4.8	335.5	22	0	U		5					M	81L	1705
	MIBBARD, DEV	1625	1960	10			1	0	0		37		8	A	U			
	SILURIAN	1600	1960	220			22	0	U		39		U	12	M			
SPRING GARDEN, JEFFERSON, 48, 3E	MCCLOSKEY, MIS	3090	1977	240	84.0	328.1	15	2	2		13		OL	10		MIS	3942	
*STAUNTON +, MACOUPIN, 7N, 7W	PENNSYLVANIAN	515	1952	50	0.0	4.1	2	0	U		1	35	8	11	A	OKO	2371	
*STAUNTON W, MACOUPIN, 7N, 7W	PENNSYLVANIAN	505	1954	260	5.9	136.3	27	0	U		16	35	8	10		81L	1512	
*STEWARSON, SHELBY, 10N, 5E			1939	350	16.0	962.1	28	0	1		22					DEV	3614	
	AUX VASES, MIS	1945	1939	330			27	0	1		36	0.16	8	9	A			
	SPAR MTN, MIS	2021	1958	70			5	0	U		37		8	4	A			
STEWARSON E, SHELBY, 9-10N, 6E			1963	30	0.6	20.7	3	0	U		2					MIS	2280	
	AUX VASES, MIS	2177	1963	10			1	0	0		38		8	6				
	SPAR MTN, MIS	2197	1963	50			3	0	0		37		8	6				
STEWARSON W, SHELBY, 10N-5E	BENIGBT, MIS	1920	1970	10 ABD 1971	0.0	0.0	1	0	U		0		8	5		MIS	2102	
STIRITZ, WILLIAMSON, 86, 2E				110	9.7	194.3	7	0	U		5					DEV	4669	
	BETHEL, MIS	2470	1976	40			2	0	0				8	A				
	AUX VASES, MIS	2525	1971	70			5	0	U				8	6				
*STONMS C +, WHITE, 5-68, 9-10E			1939	4700	219.8	21326.0	437	0	2		165					AM	DEV	5308
	PENNSYLVANIAN	1320	1954	340			10	0	0		29		8	10	A			
	BIHEL, PEN	1840	1951	4			16	0	1		35		8	4	AP			
	DEGONIA, MIS	2090	1954	160			13	0	U		35		8	7	AL			
	CLORE, MIS	2100	1954	250			30	0	U		35		8	10	AL			
	PALESTINE, MIS	2150	1941	70			6	0	0		35		8	12	AL			
	WALTERSBURG, MIS	2230	1939	2720			248	0	0		32	0.28	8	15	AL			

(CONTINUED ON NEXT PAGE)

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA	PRODUCTION		NUMBER OF WELLS			CHARACTER		PAY ZONE	DEEPEST TEST		
				M BBL	TH	COMPL- LTD	CO- PL- AR-	PROD- UCING	SUL-	PERC-				
	NAME AND AGE	DEP- TH	PRU- VED	UN- ING	TH END OF	END OF	IN	END OF	YEAR	API	ENT	UP	STR- ZONE	DEP- TH
		(FT)	ACRES	1980	1980	1980	1980	1980				ROCK	UCT-	(FT)
(CONTINUED FROM PREVIOUS PAGE)														
*STORMS C *, WHITE, S-68, 9-10E														
TAR SPRINGS, MIS		2340 1966	300			28	0	U		37	S	10	MF	
MARIONSBURG, MIS		2476 1959	20			2	0	U		37	S	9	MF	
CYPRESS, MIS		2700 1966	330			22	0	1		34	S	10	MF	
BETHMEL, MIS		2810	40			4	0	U		37	S	8	MF	
RENAULT, MIS		2990	20			2	0	U		39	L	5	A	
AUX VASES, MIS		3000 1966	1020			76	0	1		35	S	13	AF	
OHARA, MIS		3095	290			9	0	U		35	L	10	AC	
SPAR MTN, MIS		3115 1950	#			9	0	U		34	L	2	AC	
MCCLOSKEY, MIS		3055	#			9	0	U			L	5	MC	
SALEM, MIS		3738 1966	10			1	0	U			L	6		
*STRINGTOWN, RICHLAND, 4-5N, 11E, 14W														
STE, GEN, MIS		3025 1941	550	0,0	1608,6	37	0	U		0 40	0,24	OL	8	AC
			ARU 1975										MIS	3651
*STRINGTOWN E, RICHLAND, 4N, 14W														
MCCLOSKEY, MIS		3010 1948	10	0,0	2,0	1	0	U		37	L	4		MIS
			ARU 1950											3175
*STRINGTOWN S, RICHLAND, 4N-14W														
SPAR MTN, MIS		3117 1970	30	0,0	0,2	3	0	U			S	R		MIS
			ABU 1976											3186
*TUGGLEFIELD S *, MONROE, 4N, 3W														
		1955	130	19,2	70,8	11	1	U		9				DEV
PENNSYLVANIAN		540 1974	40			3	0	U			S	15		2455
CYPRESS, MIS		985 1955	10			1	0	U		35	S	4		
DEVONIAN		2185 1963	100			7	1	U		37	L	8		
			ABU 1956, REV 1963, ABU 1965, REV 1974											
SUMNER, LAWRENCE, 4N, 13W														
MCCLOSKEY, MIS		2260 1944	20	0,7	16,6	2	0	U		1 39	L	4	MC	MIS
			ARU 1953, REV 1979											2365
SUMNER GEN, LAWRENCE, 4N, 13W														
SPAR MTN, MIS		2544 1966	10	0,0	0,0	1	0	U		0 37	L	5		MIS
			ARU 1968											3100
SUMNER S *, LAWRENCE, 3N, 13W														
AUX VASES, MIS		2620 1964	70	0,0	0,0	5	1	U		1 36	S	8		MIS
			ARU 1969, REV 1980											2990
SUMPTER, WHITE, 4S, 9E														
		1945	370	12,1	433,8	26	1	U		14				ORO
DEGONIA, MIS		2140 1975	10			1	0	U			S	5		7852
CLORE, MIS		2195 1975	20			2	1	U			S	5		
TAR SPRINGS, MIS		2575 1945	290			20	1	U		37	S	14	AF	
MARIONSBURG, MIS		2655 1951	10			1	0	U		36	S	14	AF	
CYPRESS, MIS		2660 1948	70			5	0	U		37	S	15	AF	
OHARA, MIS		3222 1960	10			1	0	U		36	L	6	A	
*SUMPTER E, WHITE, 4-5S, 10E														
		1951	1610	56,4	2876,5	101	3	U		38				MIS
CYPRESS, MIS		2795	220			14	0	U		37	S	16	AL	4204
BETHMEL, MIS		2922 1960	20			2	0	U		35	S	12	A	
AUX VASES, MIS		3020 1952	420			28	1	U		39	S	15	AL	
OHARA, MIS		3115 1951	1110			46	2	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	4,9	649,7	20	0	U		9				DEV
AUX VASES, MIS		3185 1952	240			16	0	U		37	S	3	NL	5500
MCCLOSKEY, MIS		3312 1974	10			1	0	U			OL	4		
ULLIN, MIS		4230 1975	30			3	0	U			L	30		
*SUMPTER S, WHITE, 4-5S, 9E														
		1948	250	17,2	940,3	29	0	U		8				MIS
TAR SPRINGS, MIS		2580 1948	120			13	0	U		34	S	R	AF	3430
BETHMEL, 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														
		1952	30	2,0	26,7	3	1	U		2				MIS

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

POOL, COUNTY, LOCATION AND RANGE (+ SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA	PRODUCTION		NUMBER OF WELLS			CHARACTER OF OIL				DEEPEST TEST				
				PRODUCTION IN 1980	TO END OF 1980	COMPLETED TO 1980	CO-PRODUCED IN 1980	ABANDONED IN 1980	PRODUCING YEAR	GULF PUM PERCENT	KIND OF ROCK	THICKNESS OF STRATA		PAY ZONE			
NAME AND AGE	DEPT. OF DISCOVERY (PT)	OVERY	ACRES	1980	1980	1980	1980	1980	YEAR	API	ENT	OF ROCK	EST	ZONE	DEPTH (PT)		
(CONTINUED FROM PREVIOUS PAGE)																	
BUMPTER W, WHITE, 4S, 9E	AUX VASES, MIS	1952	20			2	0	0		37				5	NL		
	OHARA, MIS	1960	10			1	1	0					4				
ABU 1964, REV 1969																	
TAMAROA, PERRY, 4S, 1W	CYPRESS, MIS	1942	340	3.9	453.0	22	0	1		8				TRN	4287		
	TRENTON, ORD	1942	230			17	0	0		30	0.12		13	AL			
		1964	110			6	0	1		38			40				
*TAMAROA S, PERRY, 4S, 1W	CYPRESS, MIS	1957	250	6.9	334.3	20	0	0		12	28		7	MIS	1385		
TAMAROA W, PERRY, 4S, 2W	CYPRESS, MIS	1956	20	0.0	2.5	3	0	0		1	34		5	DEV	2902		
TAYLOR HILL, FRANKLIN, 5S, 4E	OHARA, MIS	1949	180	16.5	157.0	16	1	0		10				MIS	4100		
	SALEM, MIS	1949	80			6	1	0		37		L	4				
	ULLIN, MIS	1979	10			1	0	0				L	6				
		1961	160			9	0	0		38		L	15				
ABU 1968, REV 1977																	
TEUTUPULIS, EPPINGHAM, 8N, 6E	SPAR MTN, MIS	1966	170	10.0	153.1	12	1	2						MIS	2645		
	MCCLOSKEY, MIS	1966	170			11	0	2				L	5				
	ST LOUIS, MIS	1967	4			2	1	0		38		OL	4				
		1967	40			3	0	0		39		L	4				
TEUTUPULIS S, EPPINGHAM, 8N, 6E	SPAR MTN, MIS	1968	50	0.1	19.9	3	0	0		2				MIS	2950		
	MCCLOSKEY, MIS	1968	50			2	0	0					4				
		1968	9			2	0	0				OL	5				
*THACKERAY, HAMILTON, 5S, 7E	CYPRESS, MIS	1944	840	22.9	4420.3	76	1	0		30				DEV	5611		
	AUX VASES, MIS	1944	30			3	1	0		36		S	24	A			
	OHARA, MIS	1946	120			68	0	0		37		S	15	AL			
	MCCLOSKEY, MIS	1946	9			1	0	0		37		L	5	AC			
						6	0	0				L	10	AC			
THOMPSONVILLE, FRANKLIN, 7S, 4E	OHARA, MIS	1940	400	7.3	402.4	38	1	3		10				DEV	5400		
	SPAR MTN, MIS	1967	330			8	1	1				L	4				
	MCCLOSKEY, MIS	1940	4			1	0	0				L	8	A			
	ST LOUIS, MIS	1967	80			19	0	0		38	0.16	L	10	A			
						10	0	2		39		L	10				
ABU 1947, REV 1967																	
*THOMPSONVILLE E, FRANKLIN, 7S, 4E	AUX VASES, MIS	1949	180	4.7	629.0	14	0	0		1	38		8	NL	MIS	3371	
*THOMPSONVILLE N, FRANKLIN, 7S, 4E	CYPRESS, MIS	1944	870	18.8	3820.8	87	0	0		12				MIS	3498		
	AUX VASES, MIS	1944	20			1	0	0		37			10	AL			
		1944	860			86	0	0		35			20	AL			
TILDEN, HANCOCK, 4S, 5W	SILURIAN	1952	610	37.3	4539.2	35	0	0		30	40		L	60	N	ORD	3093
TILDEN N, ST CLAIR, WASHINGTON, HANCOCK, 3-4S, 5-6W	SILURIAN	1968	500	26.6	872.9	31	0	0		32	42		L	70	N	ORD	2810
TOLIVER E, CLAY, 5N, 6-7E	CYPRESS, MIS	1943	180	9.2	281.1	14	0	0		6				MIS	3519		
	AUX VASES, MIS	1955	10			1	0	0		36			14	M			
	SPAR MTN, MIS	1967	50			4	0	0		36			4				
		1967	110			4	0	0		36		L	6	MC			

(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 BBL		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE			DEEPEST TEST
				PRO- VEU IN ACRES	OUR- ING END OF 1980	TO END OF 1980	COMP- TO END OF 1980	CU- MPL- EYED 1980	AB- ANU- 1980	PROO- UCING YEAR	SUL- FUM ENT	KIND OF MUCK	THI- CKN- ESS	STR- UCT- URE	
(CONTINUED FROM PREVIOUS PAGE)															
TOLIVER E, CLAY, 3N, 6-7E	MCCLOSKEY, M18	2840	1943	0			5	0	0		35	OL	8	MC	
TOLIVER S, CLAY, 4N, 6E	AUX VASES, M18	2765	1953	70	0,0	57,6	4	0	U	0				M	M18 2415
	MCCLOSKEY, M18	2875	1956	10		21,0	1	0	U	36	8			MC	
				60		37,0	3	0	0	34	L	5	MC		
				ABU 1964											
*TONTI, MARION, 2-3N, 2E	BENEDICT, M18	1930	1939	570	86,2	14235,4	107	0	U	63				U	ORD 4900
	AUX VASES, M18	2005	1939	140			18	0	U	36	5	20	U		
	SPAR MTN, M18	2125		180			26	0	U	37	5	30	U		
	MCCLOSKEY, M18	2130	1939	630			16	0	U		L6	12	U		
	DEVONIAN	3500		#			73	0	U	38	0,21	OL	15	U	
				80			7	0	U	37		U	7	M	
TUVEY, CHRISTIAN, 13N, 3W	BILURIAN	1050	1955	10	0,0	28,0	1	0	U	0	38	L	10	SIL	1881
				ABU 1973											
*TRUMBULL C, WHITE, 58, 8-9E	PENNSYLVANIAN	430	1974	1520	43,8	3625,0	115	0	0	56				A	M18 4285
	TAR SPRINGS, M18	2528	1962	10			1	0	U		5	12	U		
	CYPRESS, M18	2645	1944	30			2	0	0	35	5	5			
	BETHEL, M18	2955	1959	420			32	0	0	36	5	10	A		
	AUX VASES, M18	3170	1946	50			2	0	U	37	8	9	A		
	OHARA, M18	3230		520			42	0	U	36	5	9	A		
	SPAR MTN, M18	3270	1946	690			19	0	U	36	L	15	AC		
	MCCLOSKEY, M18	3290	1947	#			13	0	U		L	6	AC		
	ULLIN, M18	4110	1978	10			1	0	U		L	20			
*TRUMBULL N, WHITE, 48, 8E	AUX VASES, M18	3325	1961	230	69,1	77,3	17	13	U	14				M18 3630	
	OHARA, M18	3420	1979	180			12	11	U	36	5	6			
	MCCLOSKEY, M18	3466	1961	50			1	0	U		L	8			
				#			4	2	0	37	UL	16			
				ABU 1964, REV 1979											
TURKEY BEND, PERHY, 48, 2W	TRENTON, ORD	3940	1957	30	3,3	57,4	2	0	U	2	39	L	1	ORD	4044
*VALIER, FRANKLIN, 6S, 2E	AUX VASES, M18	2685	1963	110	7,2	121,6	6	0	U	2				M18 2900	
	MCCLOSKEY, M18	2715	1942	100			5	0	U	39	5	7			
				10			1	0	0	39	L	12	HL		
				ABU 1945, REV 1963											
VERGENNES, JACKSON, 7S, 2W	DEVONIAN	3300	1975	80	1,4	12,3	5	1	0	5	39	L	10	ORD	7094
VIRDEN W, MACOUPIN, 12N, 7W	DEVONIAN	1361	1963	30	0,0	0,0	2	0	0	0	38	L	20	DEV	1390
				ABU 1971											
WAGBONER S, MONTGOMERY, 11N, 5W	POTTSVILLE, PEN	610	1940	40	0,0	12,0	7	0	0	1	28	0,21	8	10	SIL 1945
				ABU 1949, REV 59, ABU 60, REV 63, ABU 64, REV 77											
WAKEFIELD, JASPER, 5N, 9E	SPAR MTN, M18	3100	1946	40	0,0	1,7	2	0	U	0	36	L	5	M18 3207	
				ABU 1947, REV 1953, ABU 1954											
WAKEFIELD N, JASPER, 5N, 9E	MCCLOSKEY, M18	3000	1953	10	0,0	23,2	1	0	U	0	37	L	6	M18 3204	
				ABU 1956											
WAKEFIELD S, RICHLAND, 5N, 9E	MCCLOSKEY, M18	3040	1955	80	0,0	7,2	5	0	U	0	37	L	4	M18 3650	
				ABU 1955, REV 1969, ABU 1974											

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE		DEEPEST TEST		
				DEP- TH (FT)	OF UISC- OVERY	UN- ING 1980	TO ENO OF 1980	COM- LETED TO ENO OF 1980	CO- MPL- IN 1980	AS- AND- ONED 1980	PROO- UCING ENO OF YEAR	GR, API	SUL- FUR ENT		KIND OF RUCK	THI- ESS
WALPOLE, HAMILTON, 6-7B, 6E																
TAN SPRINGS, MIS		1941	2180	14,7	10542,7	134	0	0	59					A	DEV	5325
BENOIST, MIS		2465	110			7	0	U	37		8	15	AL			
AUX VASES, MIS		2962	10			1	0	0			8	8				
OHARA, MIS		3070	2060			121	0	0	37	0,13	8	20	A			
SPAR MTN, MIS		3152	200			1	0	0	37		L	4	A			
MCCLOSKEY, MIS		3195	8			3	0	0			L	7	AC			
ST. LOUIS, MIS		3162	8			11	0	0	37		OL	7	AC			
SALEM, MIS		3544	20			2	0	0	38		L	8	AC			
		4058	10			1	0	0			L	14				
WALPOLE S, HAMILTON, 7B, 6E																
AUX VASES, MIS		3120	40	0,0	123,3	2	0	0	0	37	S	6	AL	MIS	3362	
WALTUNVILLE, JEFFERSON, 3B, 2E																
BENOIST, MIS		1943	60	1,3	142,6	5	0	U	3				A	MIS	3375	
ST. LOUIS, MIS		2460	50			4	0	U	38	0,14	8	9	A			
		2767	10			1	0	U	37		L	14				
WAMAC, MARION, CLINTON, WASHINGTON, 1N, 1E, 1W																
PETRO, PEN		1921	310	0,0	692,3	119	0	0	1				UP	ORO	4160	
DEVONIAN		720	300			117	0	0	36		S	20	UP			
		3015	10			1	0	0	38		L	9	UP			
WAMAC E W, MARION, 1N, 1E																
ISABEL, PEN		645	140	1,3	53,3	11	0	1	3	30	S	15	ML	DEV	3405	
WAMAC W, CLINTON, 1N, 1W																
CYPRESS, MIS		1962	260	18,3	1019,7	28	0	U	22					DEV	3050	
BENOIST, MIS		1312	130			15	0	U	35		S	8				
		1466	130			13	0	U	36		S	12				
WAPPELLA E, DEWITT, 21N, 3E																
DEVONIAN		1962	350	79,5	3098,2	36	0	0	36					STP	2416	
SILURIAN		1108	30			3	0	0	31		L	5				
		1112	350			36	0	0	31		0	6	N			
WARKENTON-BORTON, EUGAR, COLES, 13-14N, 13-14W																
UNNAEU, PEN		200	510	0,0	32,1	50	3	0	4	31	S	20	ML	TRN	2212	
WATERLOO, MONROE, 1-2S, 10W																
TRENTON, ORO		410	390	25,4	294,5	60	1	U	21	30	0,97	L	50	A	PC	
ABU 1930, REV 1939, CONVERTED IN PART TO GAS STORAGE 1951																
WATSON, EFFINGHAM, 7N, 5-6E																
SPAR MTN, MIS		1957	30	0,8	61,6	3	0	U	1					MIS	2647	
MCCLOSKEY, MIS		2415	30			2	0	U			8	5				
		2434	8			1	0	0	36		L	11				
WATSON W, EFFINGHAM, 7N, 5E																
AUX VASES, MIS		2206	10	0,5	13,9	1	0	0	1	39	S	12		MIS	2316	
WAVERLY W, MORGAN, 13N, 8W																
DEVONIAN		1020	20	0,0	0,0	1	0	0	0		L	10	A	ORO	2070	
ABU, GAS STORAGE IN ST PETER AND GALESVILLE																
WAYNE CITY, WAYNE, 26, 6E																
SALEM, MIS		3974	30	2,1	3,4	3	2	0	3		L	24		DEV	5247	
WEAVER, CLARK, 11N, 10W																
COLE, MIS		1949	570	15,1	2412,1	46	1	0	28					DEV	2160	
DEVONIAN		1565	30			1	0	U	30		S	5	U			
		2030	540			44	1	U	37		L	10	R			
WEST FRANKFORT C, FRANKLIN, 7B, 2-3E																
		1941	1710	69,3	7559,9	152	1	1	53				A	DEV	4669	

(CONTINUED ON NEXT PAGE)

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAT ZONE NAME AND AGE	YEAR OEP- OF TH OISC- EVERY (FT)	AREA PRO- VEO IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL				DEEPEST TEST DEPTH (FT)		
				1980	1980	COM- PLET- ED END OF	CO- MPL- AS- AND- UCING	PRD- UCING YEAR	PAY ZONE							
									1980	1980	1980	1980	1980		1980	1980
WEST FRANKFURT C, FRANKLIN, 78, 2-3E (CONTINUED FROM PREVIOUS PAGE)																
TAR SPRINGS, MIS		2060 1941	680			70	0	0		39	0.13	S	20	A		
AUX VASES, MIS		2710 1947	420			37	0	1		38	S	20	AL			
UHARA, MIS		2760 1943	450			44	0	0		38	L	8	AC			
SPAR MTN, MIS		2810	#			6	0	0			L	8	AC			
MCCLOSKEY, MIS		2925 1947	#			21	0	0		38	L	14	AC			
ST LOUIS, MIS		3101 1960	10			1	1	0			L	2				
WEST SEMINARY, CLAY, 2N, 7E																
		1959	320	0.0	819.9	29	0	0		2			MC	MIS	3198	
AUX VASES, MIS		2972 1959	230			18	0	0		37	S	10	MC			
SPAR MTN, MIS		3059 1959	290			3	0	0			L	4	MC			
MCCLOSKEY, MIS		3068 1959	#			14	0	0		38	UL	12	MC			
WESTFIELD, CLARK, COLES, 11-12N, 11E-14W																
		1904	9710	X	X	1885	10	0		286			U	SIP	3009	
GAS, PEN		280	1610			258	0	0		28	S	25	U			
WESTFIELD, MIS		335	9060			57	10	0		32	L	4	U			
CARPER, MIS		475	580			29	0	0		38	S	14	U			
TRENTON, OND		2300	1710			67	0	0		38	0.16	L	40	U		
SEE CLARK COUNTY DIVISION FOR PRODUCTION																
WESTFIELD E +, CLARK, 11-12N, 14W																
PENNSYLVANIAN		400 1947	310	0.3	12.8	45	1	0		32	28	S	11	ML	MIS	795
WESTFIELD N, COLES, 12N, 14W																
		1949	20	0.0	0.4	2	0	0		0				PEN	611	
PLEASANTVIEW, PEN		275 1949	20		0.4	1	0	0		28	S	5				
PENNSYLVANIAN		490 1949	#			1	0	0			S	10				
ARU 1957																
WHITEASH, WILLIAMSON, 88, 2E																
		1972	70	1.6	26.5	5	0	0		4				MIS	2651	
AUX VASES, MIS		2464 1973	60			4	0	0			S	17				
UHARA, MIS		2532 1972	20			2	0	0			L	8				
WHITTINGTON, FRANKLIN, 53, 3E																
		1939	1120	56.0	7908.7	84	3	0		53			A	DEV	4610	
HARDINGSBURG, MIS		2310 1948	430			28	0	0		36	S	10	A			
CYPRESS, MIS		2535	250			17	1	0		35	S	10	A			
BETHEL, MIS		2612 1961	60			3	0	0		36	S	8	A			
AUX VASES, MIS		2735	120			11	0	0		38	S	15	A			
UHARA, MIS		2835	420			13	0	0		37	L	10	AC			
SPAR MTN, MIS		2880	#			8	0	0			L	10	AC			
MCCLOSKEY, MIS		2870 1939	#			6	1	0		38	0.24	L	9	AC		
ST. LOUIS, MIS		3080 1939	80			9	0	0		36	0.24	L	6	AC		
SALEM, MIS		3300 1977	60			5	1	0			L	10				
ULLIN, MIS		3560 1977	20			1	0	0			L	7				
WHITTINGTON S, FRANKLIN, 5-66, 3E																
CYPRESS, MIS		2580 1950	120	2.0	480.9	10	0	0		10	35	S	10	A	MIS	3704
WHITTINGTON W, FRANKLIN, 58, 2-3E																
		1943	670	0.0	1571.2	38	0	0		2			A	MIS	3535	
BENOIST, MIS		2615 1949	10			1	0	0		36	S	10	AL			
RENAULT, MIS		2700 1956	480			21	0	0		37	L	4	A			
AUX VASES, MIS		2700 1944	180			13	0	0		36	S	15	AL			
UHARA, MIS		2600 1943	110			5	0	0			L	5	AC			
SPAR MTN, MIS		2780 1947	#			2	0	0			L	4	AC			
MCCLOSKEY, MIS		2900	#			3	0	0		38	L	6	AC			
WILBENTON, FAYETTE, 5N, 2-3E																
		1959	1070	15.1	1839.8	58	0	0		36				OND	4528	
BORDEN, MIS		2628 1963	10			1	0	0		35	S	38				
CARPER, MIS		3203 1961	1060			46	0	0		37	S	39				
LINGLE, DEV		3466 1959	60			5	0	0		28	S	4				
WILLIAMS C, JEFFERSON, 2-38, 2E																
		1948	490	11.1	1416.4	45	0	0		31			A	DEV	4578	
BENOIST, MIS		2490 1949	230			17	0	0		39	S	10	AL			
AUX VASES, MIS		2550 1949	400			29	0	0		37	S	5	AL			
MCCLOSKEY, MIS		2600	10			1	0	0		37	L		AC			

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			CHARACTEN OF OIL SUL- FUR PERC- ENT	PAY ZONE			DEEPEST TEST ZONE TH (FT)			
				1980	1980	COMP- LETED 1980	CO- ETEO 1980	AB- AND 1980		PROD- UCING YEAR	GR, API	PERC- ENT		OF ROCK	THI- CK- NESS	STR- UCT- URE
*MOBURN C, BOND, 6-7N, 2W																
		1940	1440	25,8	4598,2	141	1	2	50				A	ORO	3290	
CYPRESS, MIS		865 1950	310			20	0	0		35	9	8	AL			
BENOIST, MIS		1020 1940	340			38	0	0		36	0,20	8	10	AL		
RENAULT, MIS		1047 1958	10			1	0	0		36		L	X	AL		
AUX VASES, MIS		1055 1956	140			5	0	0		36		9	10	AL		
LINGLE, DEV		2275 1949	720			56	0	1		35		9	8	AC		
TRENTON, OHO		3170 1947	380			24	1	1		39	0,27	L	12	A		
*WOODLAWN, JEFFERSON, 2-38, 1-2E																
		1940	1900	47,9	18345,9	194	0	0	66				A	ORO	5101	
TAR SPRINGS, MIS		1440	30			3	0	0		35		8	X	AL		
CYPRESS, MIS		1800 1943	180			3	0	0		37		8	10	AL		
BENOIST, MIS		1960 1940	1860			175	0	0		37	0,16	8	25	A		
AUX VASES, MIS		1975 1945	270			24	0	0		36		9	10	A		
SPAR MTN, MIS		2205 1947	240			15	0	0		38		L8	15	A		
MCCLOSKEY, MIS		2200 1948	#			1	0	0				L	3	A		
LINGLE, DEV		3690 1945	70			11	0	0		37		9	6	A		
WOODLAWN N, JEFFERSON, 25, 2E																
MCCLOSKEY, MIS		2304 1979	10	X	X	1	0	0	1			L	5	MIS	2444	
XENIA, CLAY, 2N, 5E																
		1941	120	0,0	46,7	8	0	0	3				A	DEV	4745	
AUX VASES, MIS		2785 1941	10			1	0	0		35	0,14	8	13	A		
CARPER, MIS		4230 1962	110			7	0	0		38		8	12			
XENIA E, CLAY, 2N, 5E																
		1951	300	5,2	932,2	20	0	0	10				A	MIS	4620	
CYPRESS, MIS		2500 1951	260			18	0	0		37		8	6	AL		
BENOIST, MIS		2710	110			9	0	0		35		8	6	AL		
RENAULT, MIS		2755 1959	20			2	0	0		35		8	15	AL		
AUX VASES, MIS		2741 1960	30			3	0	0		35		8	10	A		
YALE, JASPER, 8N, 11E																
		1966	230	41,7	97,3	16	3	0	14					SIL	3637	
SPAR MTN, MIS		2070 1966	230			9	3	0				L	10			
MCCLOSKEY, MIS		2140 1966	#			8	1	0		37		L	6			
*YORK, CUMBERLAND, CLARK, 9-10N, 10-11E, 14W																
ISABEL, PEN		590 1907	410	X	X	79	0	0	8	31		8	15	AM	DEV	2642
SEE CLARK COUNTY DIVISION FOR PRODUCTION, ABU 1945, DEV 1950																
*ZEIGLER, FRANKLIN, 7E, 2E																
AUX VASES, MIS		2614 1963	350	15,5	2134,1	34	0	1	32	37		8	19	MIS	3030	
ZENITH, WAYNE, 2N, 5E																
		1948	50	0,0	24,6	5	0	1	0					MIS	3601	
MCCLOSKEY, MIS		2970 1948	40			4	0	1		36		L	7	AC		
ST LOUIS, MIS		3088 1969	10			1	0	0				L	6			
ABU 1956, REV 69, ABU 70, REV 73, ABU 80																
*ZENITH E, WAYNE, 1N, 6E																
SPAR MTN, MIS		3170 1965	250	2,6	540,6	14	0	0	11	37		L	10	MIS	3650	
*ZENITH N, WAYNE, 2N, 6E																
		1951	440	24,1	1478,4	33	0	0	20				N	MIS	3435	
SPAR MTN, MIS		3080 1951	280			15	0	0		38		L	6	NC		
MCCLOSKEY, MIS		3140 1951	#			6	0	0				L	4	NC		
SALEM, MIS		3634 1972	250			16	0	0				L	6	NC		
ZENITH S, WAYNE, 1N, 5E																
		1949	300	0,0	765,9	15	0	0	0					M	MIS	3627
UMARA, MIS		2920	300			2	0	0				L	6	MC		
MCCLOSKEY, MIS		2985 1949	#			13	0	0		37		L	7	MC		
ABU 1966, DEV 1967, ABU 1970																
TOTAL			630,200		3,146,328	1,107			24,869							
				22,702		69,587		291								

TABLE 9. Illinois gas field statistics, 1980

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; Mia, Mississippian; Pen, Pennsylvanian.

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

Abd: Field abandoned. Rev: Field revived.

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.

x Correct figure not determinable.

* Field also listed in table 8 (oil production).

† From oil wells.

†† 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 1980	To end of 1980	Completed to end of 1980	Completed in 1980	Abandoned 1980		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	x	23	0	0	0			A	Trn	2,260
	Osage, Mis	385	1963	440			22				S	x	A		
				20			1				S	x	X		
Ava-Campbell Hill*; Jackson; 7S; 3-4W															
	Cypress, Mis	780	1916	370	0	x	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	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	x	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			
					Abd 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				Pay zone			Deepest test	
	Name and age	Depth (ft)			During 1980	To end of 1980	Completed to end of 1980	Com- pleted in 1980	Aban- doned 1980	Pro- ducing end of year	Kind of rock, average thickness in feet, structure			Zone	Depth (ft)
Boulder E*; Clinton; 3N; 1W															
	Devonian	2,840	1957	80	0	0	2	0	0	0	L 12	X	Sil	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*; Mscoupin; 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															
	Cssey, 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	4,065	
					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	20	0	0	2	0	0	0	L 6	X	Sil	575	
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	1	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	6.9	366.2	15	0	0	3	S		Mis	2,377	
Eldorado C*; Saline; 8S; 7E															
			1941	300	89.1	3,782.9	18	0	0	4			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	32.9	1,045.2	10	0	0	1			A	Mis	3,666
	Palestine, Mis	1,900		80			5	0	0		S 30		AL		
	Tar Springs, Mis	2,135		20			5	0	0		S 20		AL		
	Cypress, Mis			10			1	0	0						
Eldorado W*; Saline; 8S; 6E															
				20	43.5	32.6	2	0	0	1				Mis	3,138
	#6 Coal, Pen	390	1978	10			1	0	0			x	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 1980	To end of 1980	Com- pleted to end of 1980	Com- pleted in 1980	Aban- doned 1980	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	342.8	240.4	69	0	0	5	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	1,230	117.0	x	57	3	0	20			M	Ord	2,694
	Gas, Pen	400		1,190			56	3			S x	ML			
	Salem, Mis	570		40			1	0			L 2	ML			
Greenville Gas*; Bond; 5N; 3W															
	Lindley (1st and 2nd), Mis	925	1910	180	0	990.0	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	8.0	2,398.9	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	0.3	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	240.4	307.3 [†]					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	
Livingston E; Madison; 6N; 6W															
	Pennsylvanian	540	1951	60	0	0	3	0	0	0	S 12	X	Mis	815	

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 1980	To end of 1980	Completed to end of 1980	Com- pleted in 1980	Aban- doned 1980		Kind of rock, average thickness in feet, structure			Zone	Depth (ft)
											S	A	ML		
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															
	Burtschi, Pen	1,000	1937	1,760	0	×	14	0	0	×			A	Pc	8,616
	Tar Springs, Mis	1,170		320			5				S	20	AL		
				1,440			9				S	2	AL		
Main C*; Crawford, Lawrence; 5-8N; 10-14W															
	Robinson, Pen	1,000	1906	×	0	×	×	1	0	0			M	St. P	5,317
	Hardinsburg, Mis	1,075		×			×	0	0		S	×	ML		
	Cypress, Mis	1,425		160			1	0	0		S	40	ML		
	Aux Vases, Mis	1,527	1959	320			2	0	0		S	6	ML		
	Renault	1,570	1980	70			7	0	0		S	8	ML		
				10			1	1	0		S	9			
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	1,100	450.4	7,997.7	36	1	1	14	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	95.4	222.8	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															
	Palestine, Mis	1,865	1940	130	0	221.4	4	0	0	0			D	Dev	5,320
	Tar Springs, Mis	1,900	1973	10			1	0	0		S		D		
			1940	120			3	0	0		S	15	D		
Panama*; Bond, Montgomery; 7N; 3-4W															
	Pennsylvanian	575	1940	280	0	×	7	0	0	0			A	Ord	2,950
	Benoist, Mis	865		160			4				S	30	A		
				120			3				S	12	A		
Pittsburg, Williamson; 8S; 3E															
	Tar Springs	1,920	1962	40	0	0	4	2	0	0	S	12	X	Mis	2,570
Pittsburg N Gas*; Williamson; 8S; 3E															
	Hardinsburg, Mis	2,151	1962	20	0	10.0	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	60	0	0	4	0	0	0	S	20	X	Pen	563

TABLE 9—continued

Field; county; location by township and range	Pay zone		Year of dia- covery	Area proved in acres	Gas production million cu ft		Number of wells			Pay zone			Deepest test		
	Name and age	Depth (ft)			During 1980	To end of 1980	Completed to end of 1980	Com- pleted in 1980	Aban- doned 1980	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	7.5	570.3	2	0	0	1	S	7	X	Dev	5,511
Redmon N; Edger; 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															
			1937	1,800	0	7,081.6	60	0	0	0				Dev	3,133
	Bridgeport, Pen	760		x		x	18				S	15	AL		
	Buchanan, Pen	1,100		x		x	42				S	12	AL		
					Abd 1949										
St. Jacob E; Madison; 3N; 6W															
	Hardin, Dev	1,840	1980	10	5.3	5.3	1	1	0	1	S	8		Ord	2,600
St. Libory; St. Clair; 1S; 6W															
			1964	280	115.4	152.8	8	0	0	3				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	160			4				S	10	X		
	Silurian			160			4				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	1,050.0	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	0	S	14		Dev	4,669
Storms C*; White; 5-6S; 9-10E															
			1939	440	0	x	9	0	0	0				Dev	5,308
	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	18.3	370.5	11	0	0	11				Dev	2,455
	Pennsylvanian	590	1971	20			0				S	x	X		
	Cypress, Mis	920	1962	220			0				S	x	X		
Summer 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

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 1980	To end of 1980	Completed to end of 1980	Com- pleted in 1980	Aban- doned 1980	Pro- ducing end of year	Kind of rock, average thickness in feet, structure			Zone	Depth (ft)	
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	
Waggoner*; Montgomery; 11N; 5W																
	Pottsville, Pen	523	1959	10	1.0	0	1	0	0	1	S	2	X	Sil	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				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)				33,920	1,574.2	32,000.6	827	8	1	72						

Part II. Waterflood Operations

Jaclyn Rendall Elyn

SUMMARY OF SECONDARY RECOVERY OPERATIONS

In 1980, 5 waterflood projects were reported for the first time by their respective operators, and 1 project was reactivated. Five waterfloods were reported abandoned during the year or earlier.

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

New projects increased the area subject to fluid injection by 780 pay acres. However, total pay acres under fluid injection declined by 19,721 pay acres to a total of 397,631 acres at the end of 1980.

Secondary recovery oil production in 1980 was 11,604,600 barrels, a decline of 5.3 percent from 1979. Waterfloods accounted for 11,483,100 barrels or 50.6 percent of the total oil produced during 1980 in Illinois; pressure maintenance projects reported 121,500 barrels or 0.5 percent of the total oil produced during 1980.

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

EXPLANATION OF TABLES

Table 10, "Project Numbers by County and Summary of Waterflood Projects in 1980," lists the counties having waterflood activity, the range of county numbers, and the number and status of projects in each county.

Table 11, "Waterflood Operations in Illinois, 1980," is a summary of the data for each secondary recovery project, active and abandoned. Most of the data supplied by the operator are included in this table. If no data are reported to the Illinois State Geological Survey for a project, estimates of water injection and water production are made on the basis of past performance. Oil production figures are obtained from the Petroleum Information Corporation's production reports.

Table 12, "Illinois Waterfloods for 1980 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 1980," is a tabulation of statistics for those fields in which secondary recovery oil is being produced.

Table 14, "Summary of Waterflood Statistics 1949-1980," is a tabulation of waterflood data, compiled on an annual basis for the past 32 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 about 48 percent of the total productive acreage.

ABBREVIATIONS

The following abbreviations are used in tables 10 through 14:

abd - abandoned	incl - includes, including, included
adj - adjacent	inj - injection
cum - cumulative	N.A. - not available
D.F. - dump flood	op - operator, operation
disc - discontinued	P.M. - pressure maintenance
est - estimate, estimated	prim - primary
excl - exludes, 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 1980

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	42	92
400-420	Clinton	14	1	6	21
500-525	Coles	11	0	15	26
589-698	Crawford	46	0	48	94
700-708	Cumberland	5	0	3	8
800-802	Douglas	0	0	3	3
900-907	Edgar	7	0	1	8
1000-1040	Edwards	23	1	17	41
1100-1121	Effingham	18	0	4	22
1200-1255	Fayette	45	0	10	55
1300-1344	Franklin	25	0	19	44
1400-1458	Gallatin	27	0	32	59
1500-1578	Hamilton	29	0	48	77
1900-1931	Jasper	12	0	19	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	26	0	14	40
2900-	Montgomery	0	0	1	1
3100-3101	Perry	2	0	0	2
3400-3449	Richland	24	0	26	50
3600-3627	Saline	16	0	11	27
3800-3803	Shelby	3	0	1	4
3836-3999	Wabash	83	0	73	155
4000-4026	Washington	25	0	2	28
4046-4199	Wayne	91	0	61	152
4200-4458	White	148	0	111	259
4501-4505	Williamson	5	0	0	5
	Total	851	3	635	1,489

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)		
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER	OIL	WATER	
PROJECT NO., OPERATOR	U = UNIT		8 - 7 - R	INJECTION	PRODUCTION	PRODUCTION	
A B O				TOTAL = CUM.	TOTAL = CUM.	TOTAL = CUM.	
P, M,				1980 = 12/80	1980 = 12/80	1980 = 12/80	
AS LAKE W, GALLATIN	AS LAKE WEST UNIT	WALTERSBURG	30,31-88-10E	1091	184	526	
*1417 COY OIL CO	AS LAKE WEST UNIT	AUX VASES	30,31-88-10E	219			
*1421 COY OIL CO	GOLOEN=CONN	WALTERSBURG	29,31,32-88-10E	400	70	400	
*1452 PAUL S, KNIGHT							
ADEN C, HAMILTON, WAYNE	SW FAIRFIELD UNIT	AUX VASES	22-28-7E	8	1652	0.8	138
4158 FAIRFIELD OIL CO	NORTH ADEN UNIT	AUX VASES	28,32,33-25-7E	600	2295	14.9	60
4181 THE MC COUN CO,		MCCLOSKEY	4,5,8-38-7E		18660		600
*4101 TEXACO, INC,	ADEN SOUTH	AUX VASES	8,9,16,17,20-38-7E			1050	8418
*4102 TEXACO, INC,	ADEN SOUTH	MCCLOSKEY	8,9,16,17,20-38-7E		6506	660	
ADEN S, HAMILTON	SOUTH ADEN UNIT	AUX VASES	29,30-38-7E	2677	176		
*1521 M, WEINERT EST,		SPAR MTN					
		MCCLOSKEY					
AKIN, FRANKLIN	LARIO TRUSTEE A U	AUX VASES	36-68-8E		109		
*1330 C. E. BREHM	AKIN SE U	AUX VASES	28-68-8E	6	2347	0.5	261
1311 C. E. BREHM	U S COAL S COKE	CYPRESS	28-68-8E		129		42
*1317 C. E. BREHM	U S STEEL	AUX VASES	28-68-8E	5	609	0.7	139
1321 C. E. BREHM	AKIN UNIT	AUX VASES	35-68-8E		360		68
*1327 FARRAR OIL CO,							148
ALBION C, EDWARDS, WHITE	SOUTH ALBION U	BIEML	1,2-38-10E	70	3690	5.4	529
1001 ACME CASING	S ALBION L	BIEML	1-38-10E, 35,36-28-10E		3226		704
*1011 ACME CASING	M, WICK	BRIDGEPORT	24-28-10E	70	2620	2.4	163
1002 NICK SABARE		WALTERSBURG					70
		OHARA					2307
1020 C. E. BREHM	MICHAELS	BIEML	11-38-10E			5.0	148
*8201 CONCHO PET. CO,	NORTH CROSSVILLE UNIT	CYPRESS	27,34,35-38-10E		3620		313
*4202 CONCHO PET. CO,	N CROSSVILLE U	TAR SPRINGS	36,35-38-10E		868		58
*1014 CONTINENTAL OIL	STAFFORD	MCCLOSKEY	13-28-10E		625		43
*1038 DELTA OIL CORP,	MORTON=WORKS	MCCLOSKEY	13-28-10E		2000		126
*1015 FIRST NATL PET	SDOWN	AUX VASES	6-28-11E		120		16
1006 GETTY OIL CO	SW ALBION BIEML 80 U	BIEML	2,11,14-38-10E	483	22631	17.1	1761
*1026 JSH OIL CO	MAXWELL=HOSSBARGER	BETHEL	15-35-10E		569		40
4200 MOBIL OIL CORP,	BIEML U 1	BIEML	22,23-38-10E	93	10050	3.4	1363
4308 MOBIL OIL CORP,	W GRAYVILLE U	BETHEL	23-38-10E	101	3089	4.9	423
1005 BERNARD PODOLSKY	ALBION E U	AUX VASES	1-28-10E, 6-28-11E	25	2284	1.0	201
1035 HK PET. CORP,	RK EAST ALBION UNIT	AUX VASES	6-28-11E, 1-28-10E	20	1659	2.0	119
*1000 REBSTOCK OIL CO,	BIEML U 2	BIEML	6-38-10E		4194		610
*1018 REBSTOCK OIL CO,	EAST ALBION UNIT	AUX VASES	36-18-10E, 31-18-11E		1756		198
4321 J. W. RUOY DRG,	ROBINSON	TAR SPRINGS	23-38-10E	20	239	1.8	17
4434 J. W. RUOY DRG,	GRIEBSAUM	BETHEL					20
		CYPRESS	26-38-10E	70	442	4.1	35
		BETHEL					70
		AUX VASES					438
1012 SABER OIL CO	BUNTING LBE	OHARA	12-28-10E	80	1415	4.7	162
1033 SABER OIL CO	ALBION U	AUX VASES	12-25-10E, 17,18-28-11E	100	3418	7.2	372
		OHARA					100
1037 SO, TRIANGLE CO,	SOUTH ALBION WF	BETHEL	24,25-28-10E	40	137	6.4	109
1003 SUPERIOR OIL CO,	30,31-28-11E 8HPU 1	BIEML	25,36-28-10E	434	1480U	9.8	2037
1004 SUPERIOR OIL CO,	SOUTH ALBION UNIT 2	WALTERSBURG	30,31-28-11E				363
		MANFIELD	1,2,11,12-38-10E	154	4874	20.4	2104
		BRIDGEPORT		513	9290		641
		BIEML		103	6957		19267
		WALTERSBURG			2305		
		AUX VASES			1328		
1032 SUPERIOR OIL CO,	WORKS UNIT	WALTERSBURG	10,19-28-11E	72	1105	8.8	153
		BETHEL		72	332		245
		AUX VASES			39		1302
		MCCLOSKEY		213	794		
1036 SUPERIOR OIL CO,	WILLET	WALTERSBURG	30-28-11E	2	180	4.3	587
*1030 TEXACO, INC,	BARNES EAST	WALTERSBURG	24-28-10E		544		33
1039 TEXACO, INC,	G,WORKS	BETHEL	13-28-10E	80	1835	4.9	126
		AUX VASES					80
		MCCLOSKEY					1835
*4353 P. D. WALL	GRAYVILLE WEST U	CYPRESS	22-38-10E		219		61
1031 WARRIOR OIL CO,	E,ALBION WALT,SAND U,	WALTERSBURG	31-18-14W, 6-28-14W	7	5863	0.8	759
ALBION EAST, EDWARDS	ALBION EAST	CYPRESS	26-28-14W	168	1339	40.8	390
1040 ZANETIS OIL PROP		BETHEL					168
		OHARA					1300
ALLENDALE, LAWRENCE, WABASH	FRIENDSVILLE CUDP	BIEML	30-1N-12W		4970	2.6	325
3969 ASHLAND O AND R	PRICE-ROBINSON	BIEML	14-1N-12W	84	597	1.8	41
3902 BEULIGHMANN ET AL	MOVERHALE	BETHEL	36-2N-12W		64		39
*3865 JOHN BLEDSOE, JR	NAYLOR=ROBSON=PAYNE	BIEML	6-1N-12W		1000		2
*3848 CHARLES E. CARR	PATTON COOP	CYPRESS	28-1N-12W		1000		200
*3847 G. S. ENGLE	YOUNG WF	BETHEL	1-1N-12W		208		180
*3971 T. W. GEORGE EST,	QUCHANAN	CYPRESS	33-1N-12W		367		44
*3990 M AND M OIL CO	GILLIATT=ALKA	BIEML	13-1N-12W		2735		444
*3900 CECIL A. HAMMAN	JOHN SCHAFER	BIEML	15-1N-12W	10	11	3.4	10
3836 HOCKING OIL	FRENCH ET AL	BIEML	32-2N-12W		39		5
*3869 ILLINOIS OIL CO,	PRICE HEIRS	BRIDGEPORT	2-1N-12W		228		16
3899 ILLINOIS OIL CO,	YOUNG	BIEML	1-1N-12W		4547		205
*3906 ILLINOIS OIL CO,	WOODS *C*	BIEML	20-1N-12W		633		45
*3944 INO, FARM SUR,	KEYSER *8*	BIEML	13-1N-12W		303		20
*3992 INO, FARM SUR,	HERSHEY=COGAN	BIEML	35-2N-12W		9		
3898 JACK KENEIPP	COGAN	CYPRESS	35-2N-12W	20	740	1.2	79
3966 JACK KENEIPP	WALSER	BIEML	35-2N-12W	15	117	1.4	203
*3999 JACK KENEIPP		CYPRESS	2-1N-12W	10	309		25
		TAR SPRINGS			26		5
							6

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80			INJECTION WATER		
FIELD, COUNTY		PERM OIL	OATE	OATE	NO. OP	ACRES	SO-SAND	SOURCE	TYPE						
PROJ.	DEPTH	POR	GRAV	PIRST	ABO.	UNGR	GR-GRAVEL	(F)FRESH	(B)BRINE						
NO.	(FT)	PAY	(API)	INJ.	INJ.	PROD.	INJ.	PROD	(M)MIXED			REMARKS			
	(FT)	(%)					SM-SMALLOW								
A2 LAKE W, GALLATIN															
1417	2025	17.0	16.3	20	36.9	07-59	06-64	6	9	180	2M GRAV, PENN 80 (F)	*INCL 1421			
1421	2750	10.0	16.3	27	37.1	07-59	06-64	1	2	30	SM GRAV, PENN 80 (F)	*INCL WITH 1417			
1452	2000	15.0				05-64	12-71	2	5	90	PRODUCED(B)	*ESTIMATED			
ADEN C, HAMILTON, WAYNE															
4198	3250	9.0	21.0	156	40.0	02-62		1	2	100	PENN 80, PROO (B)				
4121	3150	12.0	12.0		36.0	01-64		10	11	1000	PENN 80,, PROO(B)	*1-79 TO 10-79 *INCL BOTH PAYS			
	3350	14.0			38.0	01-64		7	6	1000		*THRU 1975			
4101	3200	10.0	22.0	150	37.0	02-66	03-66	12	12	640	PRODUCED (B)	*INCL 4102			
4102	3350	3.6			37.0	02-66	03-66	11	5	640	PRODUCED (B)	*INCL WITH 4101			
ADEN 2, HAMILTON															
1521	3245	21.0				03-64	04-70	4	10	150	PENN 80, PROO (B)				
	3335	10.0						4	10	150					
	3390	8.0						2	2	80					
AKIN, FRANKLIN															
1310	3100	20.0				02-60	12-62	2	5	120	CYPRESS (B)	*NO W,P,OIL RECOVERED			
1311	3120	20.0	20.5	175	32.0	10-61		1	1	20	PENN 80, PROO (B)	*INJ,CURTAILED 76-80			
1317	2240	15.0	13.0	90	34.0	05-62	12-76	2	6	80	PENN 30, PHOO (B)	*ESTIMATED SINCE 1968			
1321	3100	16.0			38.0	06-65		1	3	60	PENN 30, PHOO (B)	*INJ,OISC,79;RESUMED 80			
1327	3060	14.7			37.0	01-66	05-78	3	3	100	*8WD SINCE 1971	*ESTIMATED; *8WD SINCE 1971			
ALBION C, EDWARDS, WHITE															
1001	2075	18.0	20.0	200	33.4	12-55		2	7	110	PRODUCED (B)	*ESTIMATED SINCE 1967			
1011	2020	9.2	16.8	384	32.3	04-51	01-72	2	7	120	PRODUCED (B)				
1002	1950	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		3	3	30		*EST,ADJ,TU PROJ 1006 SINCE 56			
4201	2850	12.0	18.0		37.0	10-52	12-54	8	21	250	RIVER, PROO (M)				
4202	2440	6.0	18.0		37.0	10-52	12-58	4	5	100	RIVER, PROO (M)				
1014	3222	4.0	16.3	898	39.0	05-43	12-56	1	7	80	PRODUCED (B)				
1038	3110	10.0				01-57	01-74	1	6	70	PRODUCED (B)	*EST *INCL PRIM SINCE 1-57			
1015	3005	21.0				04-52	07-55	1	1	30	HARDINZBURG (B)	*EST,*INCL,PRIM,52-55			
1006	1850	16.2	18.0	150	32.2	01-55		8	11	403	GRAVEL, PROO (M)				
1026	2990	8.0				06-62	12-79	1	2	30	PRODUCED (B)				
4200	1900	21.2	20.2	265	38.0	06-42		3	7	170	RIVER, PROO (M)				
4308	2930	19.0				02-68		4	7	160	SMALLOW 80, PROO(M)				
	3160	18.0													
1005	3050	25.0	15.0	25	41.0	03-68		4	4	90	PURCHASED (P)				
1035	3010	18.3				10-66		4	3	70	CITY WATER (F)	*ESTIMATED SINCE 1977			
1000	1900	30.0	19.3	303	39.8	09-50	01-72	2	5	50	RIVER,PROO,(M)	*ESTIMATED SINCE 1969			
1018	3000	14.3	18.0	13	37.5	11-59	12-67	6	5	340	PENN 80, PHOO (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 PROO			
1033	3025	15.0	17.3	35	39.0	02-66		7	10	200	PENN 80, PROO (B)	*ESTIMATED SINCE 1973			
	3060	13.0						3	9	120					
1037	3000	8.0	15.0	13	36.0	02-72		4	5	240	PENN SAND (B)	*ESTIMATED 1972-1979			
1003	2025	12.3	18.5	47	36.0	01-55		4	4	222	SM 80, PROO (M)				
	2400	7.1	12.6	74	36.0										
1004	1630	10.0	20.6	53	37.0	01-67		2	4	90	GRAVEL 8EO, PROO (M)	*INCL ALL PAYS			
	1870	12.2	20.2			08-56		1	4	20					
	2050	15.8	18.2	338		08-56		1	4	20					
	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	20	SM 30 (P)	*INCL ALL PAYS; *TEMP 8WD 6-68 TO 9-78; *TEMP 8WD 1-68 TO 4-77			
	2919	6.0	14.6	10				1	5	20					
	3040	5.0	15.8	53				01-68	1	5	50				
	3068	8.0	14.2	3003				3	6	20	PRODUCED (B)				
1036	2400	8.5	19.2	209	38.0	10-65		1	10	222	SM 80 (F)				
1030	2370	20.0			39.0	11-63	12-66	1	4	40	PRODUCED (B)	*8WD ONLY			
1039	2970	8.0	13.0	22		11-69		1	2	40	PRODUCED(B)				
	3041	18.0	16.7	153											
	3110	33.0	15.0	205											
4353	2850	12.0	17.0	50	38.0	05-62	01-71	4	5	225	BIEML, PHOO, (B)	*ESTIMATED SINCE 1968			
1031	2250	11.2	20.6	167	36.0	10-65		1	3	132	GRAV, PROO (M)				
ALBION EAST, EDWARDS															
1040	2770	15.0				09-72		8	15	400	PENN SAND,PROO(M)	*ESTIMATED			
	2290	10.0													
	3070	8.0													
ALLENDALE, LAWRENCE, WABAZH															
3969	1600	15.0	14.2	335	33.0	10-60		2	2	100	PRODUCED (B)	*INJ OISC 12-78,8WD ONLY			
3902	1472	10.0	17.0		35.0	12-65		2	2	40	SM 80, PROO (M)	*ESTIMATED 76 THRU 79			
3865	1948	30.0	12.7	77	36.4	02-65	01-72	1	1	20	SM 80, PHOO (M)	*NO DATA 1966-69;INACTIVE 70-71			
3248	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*PROO,(M)	*EST,*NO DATA RECEIVED			
3971	2020	15.0				01-58	04-63	2	2	40	GRAVEL 8EO (F)	*ESTIMATED; *INCL WITH 3906			
3990	2000	20.0	16.0	128	39.0	11-59	09-68	1	1	40	GRAVEL 8EO, PROO (M)				
3900	1485	15.0	24.6	1066	32.5	11-54	09-68	5	3	35	SM 80, PROO (M)				
3836	2559	5.0	12.0			10-79		1	2	50	PRODUCED(B)				
3869	1575	2.0	17.0	40	36.0	05-65	01-70	1	1	10	SM 80 (F)				
3899	1120	8.0	15.0	150	34.0	11-70		1	1	20	WELL (P)	*ESTIMATED; *INJ, 80SP, 1-78			
3906	1375	15.0	17.0	150	36.0	01-58	1-75	8	10	120	SM 80, PROO (M)	*ESTIMATED; *INCL 3971			
3944	1520	15.0			22.4	11-53	06-57	5	7	147	PRODUCED (B)				
3992	1450	9.0			37.0	07-59	10-66	1	2	60	SM 80, PROO (M)	*INCL WITH 3968			
3998	1322	12.0				10-61	01-72	1	1	10	SM 80, PROO (M)	*ESTIMATED; *INCL BOTH PAYS			
	1920	18.0				07-62		1	1	20					
3966	1320	12.0	12.0			06-60		2	3	18	SM 80, PROO (M)	*INCL BOTH PAYS; *ESTIMATED			
	1920	10.0				09-61		2	4	18					
3999	1553	11.0				07-62	10-64	1	1	20	SM 80, PROO (M)				

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)							
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER	OIL	WATER	INJECTION	PRODUCTION	PRODUCTION			
PROJECT NO., OPERATOR	U = UNIT		S = T = R				TOTAL	CUM.	TOTAL	CUM.	TOTAL	CUM.
A80							1980	12/80	1980	12/80	1980	12/80
P, H.												
ALLENDALE, LAWRENCE, WABASH												
CONTINUED												
3952 L AND M DRILLING	STANLEY PRICE	BIEHL	19-1N-12W				887		167		348	
3905 HERMAN LOEB	ALLENDALE(FLOOD 19)	BIEHL	3,4,9,10-1N-12W	300*	39359*	18,4	2154					
3871 O. LOEFFLER ESTATE,	FRIENDSVILLE EAST U.	JORDAN										
3883 O. LOEFFLER ESTATE,	G.O. ADAMS COOP	CYPRESS										
3901 O. LOEFFLER ESTATE,	CLARK, BARTH, PINNICK	BETHEL										
3951 O. LOEFFLER ESTATE,	ALLENDALE WEST U	TAR SPRINGS	25,36-2N-12W	10*	328*	0,4	29	10*	213*			
3996 O. LOEFFLER ESTATE,	SPARKS-PETER UNIT	BIEHL	8-1N-12W	15*	5245*	0,6	530	15*	355*			
3909 R S G CORP.	ALLENDALE U	BIEHL	36-2N-12W	50*	1352*	0,7	80	50*	1390*			
3911 C.A. ROBINSON	HADDON	JORDAN	3-1N-12W		5273*		285*		420*			
3964 ROYALCO, INC.	ALLENDALE U	BIEHL	6,7-1N-11W		588*		14*		300*			
3993 ROYALCO, INC.	STILLWELL COURTER U	BETHEL	13-1N-12W		476*		313		154*			
3920 SKILES OIL CORP.	YELTON-KERZAN	WALTERSBURG	21,22-1N-12W		1625		341		653			
2231 WAYNE SMITH, OP.	SAND BARREN UNIT 1	CYPRESS										
2232 WAYNE SMITH, OP.	SAND BARREN UNIT 2	BIEHL	5-1N-12W				53		73			
3903 WAYNE SMITH, OP.	TAYLOR-WHEATLEY	BIEHL	26-2N-12W	39	3864	1,7	399	37	3465			
3908 WAYNE SMITH, OP.	SHAW-SMITH-NIGH	JORDAN										
3859 BO. TRIANGLE CO.	BTOLTZ U	BIEHL	23,26-2N-12W									
3904 TAMARACK PET.	PATTON C	BIEHL	7,18-1N-12W									
2201 TRIPLE B OIL CO	HEMSHEY U	JORDAN										
3868 UNIVERSAL OPRTNG	LITHERLAND-SMITH UNIT	BIEHL	35-2N-12W				1586		120			1466
3973 UNIVERSAL OPRTNG	SOUTH ALLENDALE	JORDAN										
3860 ZANETIS OIL PROP	HAWF	CYPRESS	25-1N-12W	65*	718*	6,1	97	65*	535*			
ASHLEY, WASHINGTON			28-1N-12W		644*		90*		147*			
4023 N. A. BALORIOGE	ASHLEY	BENOIST	27,34,35-2N-12W		1325*		94*		537*			
ASHLEY E, WASHINGTON			5-1N-12W		1677*	0,8	135	4*	1133*			
4022 N. A. BALORIOGE	ASHLEY EAST	BIEHL	15-1N-12W	4	845		38*		247*			
ABSUMPTION C, CHRISTIAN			15-1N-12W									
104 FEAR AND OUNCAN	ABSUMPTION WFU	LINGLE	17,20-13N-1E	200*	2189*	9,2	165	200*	1911*			
100 JUNIPER PETROLEUM C	BENOIST	BENOIST	3,4,9,10-13N-1E	146	8727	6,7	1476	188	3851			
101 JUNIPER PETROLEUM C	DEVONIAN	LINGLE	3,4,9,10,13,16-13N-1E	769	25469	21,4	2124	554	10162			
102 JUNIPER PETROLEUM C	ROBICLARE	SPAR HTN	9,10-13N-1E	132	5415	2,6	1106	76	5062			
105 J. W. RUDY ORLG.	PEABODY-RIUGE	LINGLE	16-13N-1E	80*	1590*	6,2	181	80*	1087*			
BARNHILL, WAYNE, WHITE												
4103 ABHLAND O AND R	BARNHILL U	MCCLOSKEY	26,34,35-28-8E		9137		1235					
4170 BERNARD POOLSKY	BOZE UNIT	AUX VASES	27,28,34-28-8E		851*	1,4	134	9	522			
4171 BERNARD POOLSKY	CALDWELL UNIT	AUX VASES	34-28-8E		1883*	0,5	96	1	1058			
4199 SAM TIPPS	BOZE U	AUX VASES	28,33,34-28-8E		319		38					
4129 WAYNE OEV	WALTER	MCCLOSKEY	26-28-8E		144		21*		119			
4104 WILLETS AND PAUL	BARNHILL UNIT	AUX VASES	27,28-28-8E		4090		491		1880			
4105 WILLETS AND PAUL	BARNHILL UNIT	OHARA	27-28-8E		53		7		2			
BARTELO, CLINTON												
402 EO KAPES	H. B. WOODARD, TRUSTEE	CYPRESS	5,8-1N-3W	100*	2871*	5,2	484	100*	3120*			
400 T. R. KERWIN	BELLE OIL	CYPRESS	4-1N-3W		978		135*		187			
401 ROBSEN OIL CO.	ROBSEN OIL UNIT	CYPRESS	4-1N-3W		3100		639*		1621			
BEAUCOUP, WASHINGTON												
4013 COLLINS BROS.	BEAUCOUP UNIT	CLEAR CREEK	9,10-2S-2W	230*	1661	2,6	21	45*	762			
BEAUCOUP S, WASHINGTON												
4005 SMELL OIL CO.	BEAUCOUP S. UNIT	BENOIST	33,34-28-2W	152	10540	5,1	446	270	9297			
4008 GEORGE THOMPSON	GILBERT	BENOIST	34-28-2W	8*	171*	0,4*	41*	8*	171*			
BEAVER CREEK, BONO, CLINTON												
1 T. M. CONREY, JR	HRONE C	BENOIST	36-4N-3W		106		23					
2 K W B OIL PROP, HIGHTJACOB		BENOIST	31-4N-2W	31	409	1,4	20	31	398			
BEAVER CREEK S, BONO, CLINTON												
415 NICK BABARE	MORO	BENOIST	5-3N-2W			0,1	20					
405 T. M. CONREY, JR	R-K-R-S	BENOIST	12,13,14-3N-3W	150*	2627*	9,2	302	150*	2591*			
BELLAIR, CRAWFORD, JASPER												
600 BELLAIR OIL	BELLAIR	PENNSYLVNIN	2,11,12-8N-14W	50*	32123*	2,0	906	50*	7805*			
601 BELLAIR OIL	FULTON (BELLAIR)	PENNSYLVNIN	1,2,11,12-8N-14W	275*	62945*	11,3	1653	275*	35227*			
666 HAUBAU PET. CORP	GRANT	CYPRESS	13-8N-14W		1343		161		380			
BELLE PRAIRIE, HAMILTON												
1577 CARL BUSBY	MLBK, SHPRO, LEACH, BONA	MCCLOSKEY	1,2,11-48-6E		620	7,0*	140*		560			
BEHAN, LAWRENCE												
2248 E. L. WHITHER	DECATUR INVESTMENT	BTE BEN	23,24-3N-11W		683		90		400			
2287 ZANETIS OIL PROP	ALEXANDER	BTE BEN	23-3N-11W	61	674	2,2	25	61*	641*			
BENTON, FRANKLIN												
1300 SMELL OIL CO.	BENTON U	TAR SPRINGS	23,24,25,26,33,36-68-2E	780	220826	23,5	19707	1010	165770			
1314 SMELL OIL CO.	SMELL-BENTON OEEP	AUX VASES	2E 18,30,31-68-3E	548	10660	13,3	1673	295	6318			
		OHARA	25,36-68-2E									
		MCCLOSKEY										
BENTON N, FRANKLIN												
1328 FARRAR OIL CO.	BENTON NORTH UNIT	BETHEL	25,35,36-58-2E		3458		740		1855			
		AUX VASES										
		OHARA										

RESERVOIR STATISTICS (AV. VALUE)												DEVELOPMENT AS OF 12-31-80				INJECTION WATER			
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	WELLS	SOURCE	TYPE									
PROJ.	DEPTH	NET	POR	(MO)	GRAV	FIR	ABO.	UNDR	SH	GRAVEL	(F)	PRESM	(B)	BRINE					
NO.	(FT)	(%)	(X)	(API)	INJ.	INJ.	PROD.	INJ.	PROD	PRODUCED	(M)	MIXED	REMARKS						
		(P7)								SH	SHALLOW								
ALLENDALE, LAWRENCE, WABAUM																			
CONTINUED																			
*3932	1520	20.0	18.0	450	33.0	11-54	01-60	1	3	40	SH WELL (F)								
*3905	1465	15.0	17.7	390	35.7	06-55		21	18	307	GRAVEL BED (F)			*ESTIMATED SINCE 1971					
	1495	13.0	14.9	100															
3471	1520	20.0	15.0	200	35.0	06-64		3	8	100	SH BU (F)			*ESTIMATED SINCE 1972					
3463	1996	10.0			37.0	05-64		1	3	40	SH BU, PROD (M)			*ESTIMATED SINCE 1972					
	2110	10.0						1	3	40									
3901	1500	10.0	16.0	40	33.0	08-66		1	2	30	SH WELL (F)			*ESTIMATED SINCE 1972					
3951	1500	20.0	17.8	450	35.0	03-58		4	3	60	SH BU, PROD (M)			*ESTIMATED SINCE 1972					
3996	1375	15.0	16.0	200	37.0	10-62		3	3	50	SH BU, PROD (M)			*ESTIMATED SINCE 1972					
3909	1900	18.0	15.0	1400	34.0	09-53		0	3	40	TAN SPGR, PROD (B)			*INJ IN LINE WELLS SINCE 1969					
	1938	14.0												*NO DATA SINCE 78					
3911	1450	20.0	18.0			10-66		3	6	153	SH SO (F)			*EST. / *OP. SUBP. 1970, NO DATA					
*3966	2120	20.0	20.1	115	36.5	07-59	12-69	10	14	180	PRODUCED (B)			*INCL 3992					
*3993	1500	11.0	18.6	45	33.4	01-62	11-68	1	1	30	RIVER, PROD (M)								
	2000	10.0			36.9			5	10	180									
*3920	1600	15.0	18.0		35.5	06-66	12-70	0	2	20				*AOJ 10 ACTIVE WF					
2231	1300	18.0			34.0	09-57		10	7	75	SURFACE, PROD (M)								
	1340	8.0																	
2232	1280	20.0			33.0	06-58		3	10	65	SURFACE, PROD (M)								
*3903	1400	15.0				06-57	12-66	4	6	50	RIVER GRAV, PROD (M)								
	1440	8.0																	
*3908	1380	15.0			34.0	09-57	01-72	2	6	45	SURFACE, PROD (M)								
	1420	8.0																	
3859	1450	10.0	17.0	150	32.5	01-69		2	2	60	SH GRAVEL (F)			*ESTIMATED					
*3904	1800	16.0			34.8	01-54	12-60	4	7	130	RIVER GRAV, PROD (M)			*ESTIMATED					
*2201	2010	12.0			37.0	01-67	07-74	7	8	150	PENN SO, PROD (B)			*ESTIMATED SINCE 1968					
3868	1500	15.0			37.0	04-65		1	3	60	PENN SO, PROD (B)			*ESTIMATED					
*3973	1480	13.0	15.0	160	32.9	03-61	09-67	6	3	60	SH SO, PROD (M)			*INCL PRIM PROD SINCE 1961					
														*EST FOR 1964-66					
*3860	2039	7.0			36.2	06-68	12-77	2	2	30	PRODUCED (B)			*ESTIMATED SINCE 1976					
ASHLEY, WASHINGTON																			
4023	1440	7.0				11-56		4	14	180	PRODUCED (B)			*ESTIMATED					
ASHLEY E, WASHINGTON																			
4022	1650	8.0				07-69		2	4	60	PRODUCED (B)			*ESTIMATED					
ASSUMPTION C, CHRISTIAN																			
104	2329	20.0			40.0	06-66		2	8	200	PRODUCED (B)			*ESTIMATED SINCE 1970					
100	1050	13.0	19.0	100	38.0	07-50		2	9	350	PRODUCED (B)								
101	2300	13.0	12.0	50	40.0	05-55		14	21	1000	PRODUCED (B)								
102	1150	12.0	22.0	561	39.3	06-55		2	4	240	PRODUCED (B)								
105	2290	15.0			42.3	11-67		6	4	280	PRODUCED (B)			*ESTIMATED 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 BU (B)			*TEMP SHUT-DOWN 3-72					
4171	3560	15.0			36.9	10-63		5	4	200	PENN BU (B)			*INJ. CURTAILED 10-73					
*4199	3328	25.0				11-63	12-70	2	4	70	PENN BU, PROD (B)								
*4129	3450	18.0				12-50	01-55	1	2	40	CYPRESS (B)			*INCL PRIM PROD					
*4104	3250	14.0	18.7	42	38.0	10-56	12-66	12	10	230	PENN BU, PROD (B)								
*4105	3323	8.0	20.1	108	39.0	10-56	12-59	2	6	40	PENN BU, PROD (B)								
BARTLEBO, CLINTON																			
402	970	18.0	21.0	210	38.0	01-54		5	3	80	PRODUCED (B)			*ESTIMATED					
* 400	970	15.0	22.2	165	37.0	04-52	01-63	5	5	40	TAN SPRINGS (B)			*ESTIMATED					
* 401	980	12.0	20.0	110	36.9	11-53	01-63	12	19	200	BETHEL, PROD (B)			*ESTIMATED					
BEAUCOUP, WASHINGTON																			
4013	3046	5.2	12.0	115	38.0	10-70		1	3	260	PENN BU (M)			*ESTIMATED SINCE 1979					
BEAUCOUP S, WASHINGTON																			
4005	1440	6.0	19.0	240	36.0	11-60		7	10	230	PENN SO, PROD (B)								
4008	1445	6.0	17.5	111	36.0	01-55		1	1	27	PRODUCED (B)			*EST SINCE 1970 *INCL PRIM PROD					
BEAVER CREEK, SONO, CLINTON																			
* 1	1140	8.0	20.7	208	37.4	07-53	12-61	1	4	40	PROD (B)								
2	1100	10.0	20.0	110		06-68		1	1	10	PRODUCED (B)								
BEAVER CREEK S, SONO, CLINTON																			
415	1180	12.0			33.0	08-69		1	4	40	CYPRESS, PENN (B)			*DUMP FLOOD					
405	1110	8.0			34.0	01-56		3	11	140	PRODUCED (B)			*ESTIMATED					
BELLAIR, CRAWFORD, JASPER																			
600	600	38.0	17.1	148	31.0	07-48		56	50	204	SH SO, PROD (M)			*ESTIMATED *SINCE 1-64					
601	560	21.0	19.0	149	32.0	07-48		35	69	443	GRAV, PROD (M)			*ESTIMATED					
* 666	950	16.0	17.2	125	39.0	02-53	02-61	15	11	70	PENN BU, PROD (M)								
BELLE PRAIRIE, HAMILTON																			
1977	3400	7.0				03-68		1	8	160	PRODUCED (B)			*INJ. DISC. *INCL. PRIM SINCE 70					
BEHAN, LAWRENCE																			
*2248	1850	10.0				09-63	10-67	4	7	200	PRODUCED (B)								
2287	1850	5.0				10-68		2	2	80	PRODUCED (B)			*ESTIMATED					
BENTON, FRANKLIN																			
1300	2100	35.0	19.0	165	37.5	11-49		24	20	2200	LAKE, PROD (M)								
1314	2760	17.0	18.2		39.0	05-62		9	6	550	CYPRESS, PROD (M)								
	2810	7.0								7	320								
	2890	12.0								6	320								
BENTON N, FRANKLIN																			
*1328	2550	8.0				02-66	04-71	6	9	140	UEGONIA, PROD (B)								
	2660	12.0						6	9	140									
	2730	5.0						4	8	90									

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)			
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	
PROJECT NO., OPERATOR	U = UNIT		S = T = R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	
• • P.H.				1980 • 12/80	1980 • 12/80	1980 • 12/80	
BENTON N, FRANKLIN CONTINUED							
*1328 FARRAR OIL CO.	BENTON NORTH	MCCLOSKEY	PAINT CREEK 36-58-2E	• 1241••	• 113•	• 700••	
1332 H & W OIL CO.	NORTH BENTON UNIT		PAINT CREEK 1-68-2E	3673•	466•	1456•	
*1326 SHAKESPEARE OIL			OMARA SPAN MTN				
BERRYVILLE C, EDWARDS, WABASH							
*3942 PHILLIPS PET. CO	TARPLEY C	MCCLOSKEY	2-1N-14W	35		103	
*3943 PHILLIPS PET. CO	TOWNSEND	MCCLOSKEY	35-2N-14W	50		86	
1024 RK PET. CORP.	W SALEM WPU	SPAR MTN	9-1N-14W	51 1717	3.3	412 51	724
BLACKLAND, CHRISTIAN, MACON							
*2300 FEAR AND OUNCAN	OAMERY C	SILURIAN	5-15N-1E	6		4	
BONE GAP C, EDWARDS							
*1013 R. B. CANTRELL	BONE GAP UNIT	WALTERSBURG	18-18-14W	70• 3093•	4.0	591	70• 3093•
1034 BERNARD PODOLSKY	BONE GAP SOUTH U	CYPRESS	19-18-14W	•3 575	2.5	38	38 242
BOULDER, CLINTON							
* 411 TEXACO, INC.	BOULDER BENOIST 80 U	BENOIST	2-2N-2W, 35, 36-3N-2W	9234		681	4364
BOURBON C, DOUGLAS							
* 800 T. J. LOGUE	BOURBON POOL WF	SPAR MTN	2, 11, 12-15N-7E	6000•		500•	
BOYO, JEFFERSON							
2000 N. A. BALORIOGE	BOYO FIELD UNIT	BENOIST	18, 19, 20, 29, 30-18-2E/	200• 58949••	7.2	4343	200• 47399•
		AUX VASES	13, 24, 25-18-1E	18628•			
BROWN, MARION							
2615 DONALD G. BEARY	LEONARD-LANCASTER	CYPRESS	16-1N-1E	22 487	2.5	31	11 244
BROWNS, EDWARDS, WABASH							
3850 BALLASHER URILLING	SCHONAHAN WF	OMARA	3, 10-28-14W	39• 679•	12.1	374•	7• 120•
1021 SUPERIOR OIL CO.	BROWNS U CYP-BETHEL	CYPRESS	28, 33-18-14W	16 2608	6.9	439	154 920
3894 TARTAN OIL CO.	BROWNS U	TAR SPRINGS	33-18-14W	50• 1512•	2.8	86	50• 1131•
		CYPRESS					
BROWNS E, WABASH							
*3912 T. W. GEORGE EST.	BELLMONT WF ASSOC	CYPRESS	1, 8, 11, 12-28-14W	3009		905•	1122
*3914 T. W. GEORGE EST.	SOUTH BELLMONT	CYPRESS	11, 14-28-14W	276		18	22
3950 T. W. GEORGE EST.	MORRIS-BELLMONT	CYPRESS	11-28-14W	100 1307	1.5	144	10 536•
*3913 MOBIL OIL CORP.	BELLMONT	CYPRESS	2, 11-28-14W	822•		582	288
BUNGAY C, HAMILTON							
*1554 ALENE BLADES	MAYES	AUX VASES	15-48-7E	488		41	180
1574 C. E. BREHM	BUNGAY	AUX VASES	15, 16-48-7E	100• 6385•	6.4	710	100• 6385•
1550 COLLINS BROS.	SOUTH BUNGAY UNIT	RENAULT	34, 35-48-7E	100• 5469•	2.3	343	100• 3803•
1558 COLLINS BROS.	NORTH BUNGAY	RENAULT	13, 14, 23, 24-48-7E	40• 6020•	1.0	510	40• 3448•
		AUX VASES					
1572 COLLINS BROS.	GOELL	AUX VASES	17-48-7E	200• 1940•	10.6•	178•	200• 1900•
1576 WALTER OUNCAN	WALKER	AUX VASES	16-48-7E	51 1404	2.0	99	51 1404
1555 EXXON	BUNGAY A V UNIT	AUX VASES	14-48-7E	25 1236	3.1	382	16 426
1527 FEAR AND OUNCAN	O'OEEL	RENAULT	16-48-7E	50• 1019•	3.9	162	50• 986•
*1519 MID-STATES OIL PROP	BUNGAY U WF	AUX VASES	21-48-7E	710•		74•	194•
1522 R. REBER	BUNGAY 1-A	AUX VASES	26, 27, 34, 35-48-7E	11011••		857••	8887••
*1500 TEXACO, INC.	BLAIRSVILLE U	AUX VASES	16, 17, 20, 21-48-7E	7692		699	2857
*1530 TEXACO, INC.	J.A. LYNCH	AUX VASES	16-48-7E	1921		75	707
CALHOUN C, RICHLAND, WAYNE							
*3400 ASHLAND O AND R	CALHOUN	MCCLOSKEY	7, 18-2N-10E, 13-2N-9E	3032		157	
*3401 SAM TIPPS	BOHLANDER UNIT	MCCLOSKEY	6, 7-2N-10E	2175•		235•	1681•
*3447 UNION OIL CALIF.	CALHOUN	MCCLOSKEY	12, 13, 24-2N-9E	6000•		605•	6000•
CALHOUN E, RICHLAND							
*3423 ALVA C. DAVIS	BLUNAKER	MCCLOSKEY	7-28-11E	93•		1•	4•
CALHOUN S, EDWARDS, RICHLAND, WAYNE							
4086 ZANETIS OIL PROP	RUTGER	MCCLOSKEY	1, 2-1N-9E	50 377	4.0	172	50• 376•
CARLYLE N, CLINTON							
* 407 T. M. CONREY, JR	KREITEMEYER	BENOIST	23-3N-3W	50• 1180•	3.1	106	50• 603•
CARMi, WHITE							
4402 ROYAL D AND G	NIEKAMP	MCCLOSKEY	26-58-9E	50• 508	2.8	87	50• 508
CARMi N, WHITE							
4443 NICK SABARE	GATES-REBSTOCK	AUX VASES	3, 4-58-9E	20• 1045•	2.1	79•	20• 805•
CASEY, CLARK							
* 217 CALVAN AMERICAN	SHAWVER	CASEY	23, 24-10N-14W	49			
* 201 FOREST OIL CO.	CASEY	CASEY	14, 15, 23-10N-14W	8030		462	
* 202 O. W. FRANCHOT	N. CASEY	CASEY	33, 34-11N-14W	3032		38	
			4, 5-10N-14W				
CENTERVILLE, WHITE							
4409 ASBHER OIL CO	BROWN UNIT	OMARA	2-48-9E	15• 459•	0.6	16	15• 199•
*4267 O. B. LEHM	CENTERVILLE E	SPAR MTN	12-48-9E		4•		4
CENTERVILLE E, WHITE							
4203 ASBHER OIL CO	E. CENTERVILLE UNIT	TAR SPRINGS	18-48-10E	50• 10364•	2.4	1029	50• 8335•
		CYPRESS					
		BETHEL					
4379 ASBHER OIL CO	EAST CENTERVILLE UNIT	AUX VASES	TAR SPRINGS 7, 4, 17-48-10E	400• 26100•	14.3	2299	400• 19275•
		TAR SPRINGS					
		MARIONSBURG					
		CYPRESS					

RESERVOIR STATISTICS (AV. VALUE)				DEVELOPMENT AS OF 12-31-80				INJECTION WATER				REMARKS
FIELD, COUNTY	PERM OIL	DATE	DATE	NO. OF	SOURCE	TYPE						
PROJ. DEPTH NET POR (MO) GRAV FIRST AWO.	(FT)	(%)	(API)	INJ.	UNDER	GR-GRAVEL (B) BRINE (M) MIXED						
NO. (FT)	PAY (X)			INJ. PROD.	INJ.	PROD-PRODUCTO (M) MIXED						
BENTON N, FRANKLIN												
CONTINUED												
*1328	2800	8.0			3	4	140					
1332	2950	12.0		39.6	06-69	4	4	100	PRODUCED (B)	*EST SINCE 1973 *UP. BUSP. 1-78		
*1326	2890	9.2	15.0	22	36.0	12-66	12-77	9	13	180	PENN 80 (B) *ESTIMATED 1976-77	
	2795	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			1	1	80	SUPPLY WELL (M)	
BLACKLAND, CHRISTIAN, HAGON												
*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) *ESTIMATED SINCE 1973	
1034	2320	10.0	17.3			02-66		1	2	60	PRODUCED (B)	
BOULDER, CLINTON												
* 411	1200	25.0	17.9	104	34.6	09-60	10-64	25	17	470	PRD (B)	
BOURBON C, DOUGLAS												
* 800	1600	12.0			34.0	09-59	11-66	18	30	800	PRODUCED (B) *DATA WERE ESTIMATED	
BOYO, JEFFERSON												
2000	2065	17.3	17.5	173	39.5	06-55		2	8	1564	PRODUCED (B) *ESTIMATED SINCE 70; *INCLUDES	
	2130	11.9	21.4	24	36.8	03-55		5	10	569	SUTH PAYS SINCE 76	
BROWN, MARION												
2615	1650	10.0			33.0	07-60		1	2	40	PRODUCED (B)	
BROWNS, EDWARDS, WABASH												
3890	3022	8.0			35.4	11-66		2	4	380	BM 80 (F) *EST 1980	
1021	2640	8.2	16.8	106	36.8	11-59		1	6	190	PRODUCED (B) *INJECTION STOPPED MARCH, 1975	
	2780	6.3	17.3	5	36.8					3	120	
3894	2300	10.0	16.0			11-62		2	2	60	PRODUCED (B) *ESTIMATED	
	2600	15.0	17.0					11	7	180		
BROWNS E, WABASH												
*3912	2970	13.0				01-51	01-57	18	18	290	BM 80, PROD (M) *INCL PRIM PROD	
*3914	2960	8.0			37.0	04-56	09-74	1	2	75	PENN 80, PROD (B) *ESTIMATED SINCE 1973	
3950	2980	7.0	16.0		35.0	08-67		2	4	139	GRAY BEG (F) *UNNECESSARY CHANGED 1980	
*3913	2970	11.0			35.0	11-47	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	BM 80, PROD (M) *NO ONLY	
1574	3270	12.0				11-64		2	25	270	PRODUCED (B) *ESTIMATED	
1550	3280	6.0	12.0	244	38.5	08-64		7	7	300	PENN 80, PROD (B) *ESTIMATED SINCE 1973	
1558	3280	8.0	18.9	325	39.0	09-65		4	5	100	PENN 80 (B) *ESTIMATED SINCE 1973	
	3300	10.0	20.0	100				6	5	120		
1572	3260	15.0				01-55		1	7	90	PRODUCED	
1576	3260	15.0				07-67		1	2	40	PRODUCED (B) *EST; INCL PRIM PROD	
1555	3275	12.0	20.6	312	36.6	05-69		2	5	220	PRODUCED (B)	
1527	3254	12.0	14.0	350	38.0	01-67		1	4	60	PRODUCED (B) *ESTIMATED SINCE 1970	
*1519	3331	15.0	20.0	80	39.1	09-66	04-73	3	5	90	BM 80, PROD (M) *ESTIMATED 1971-73	
*1522	3300	17.0	22.0	162	41.0	05-61	1-76	8	5	390	CYPRESS, PROD (B) *ESTIMATED; *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 80, 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 *ESTIMATED	
CALHOUN E, RICHLAND												
*3423	3268	10.0			37.2	08-65	12-71	2	3	100	TAR SPH, PROD (B) *INACTIVE 1966-71	
CALHOUN S, EDWARDS, RICHLAND, WAYNE												
4086	3250	23.0			39.0	08-66		1	5	40	PRODUCED (B) *ESTIMATED	
CARLYLE N, CLINTON												
407	1142	7.0			34.0	06-55		1	7	80	PRODUCED (B) *ESTIMATED	
CARMI, WHITE												
4402	3143	8.0			30.0	09-65		1	2	60	PENN 80, PROD (B) *ESTIMATED	
CARMI N, WHITE												
4443	3230	13.0				6-59		1	4	80	PENN & PROD (B) *ESTIMATE; *INCL PRIM SINCE 1959	
CABEY, CLARK												
* 217	450	21.5	22.4	108	31.8	08-53	08-54	9	4	40	BM 80 (F)	
* 201	450	10.0			31.9	03-80	03-61	76	66	280	GRAY BEG AND PROD (M)	
* 202	290	20.0	21.5	400	26.0	12-53	12-68	15	12	40	BM 80, PROD (M)	
CENTERVILLE, WHITE												
4409	3360	13.0			37.0	12-65		1	1	20	PENN 80 (B) *ESTIMATED	
*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) *ESTIMATED SINCE 1973	
	2850	17.0	13.0	12				8	9	190		
	2960	17.0	14.0	8				4	4	80		
	3060	20.0	20.0	45				4	7	110		
4379	2460	37.0	13.7		36.6	01-63		22	17	420	BM 80, PROD (M) *ESTIMATED; *INCL 4246 WELLS AND	
	2632	10.0						1	1	10	ACREAGE	
	2850	35.0	14.4					16	16	340		

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)			
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER	OIL	WATER	
PROJECT NO., OPERATOR	U # UNIT		S - T - R	INJECTION	PRODUCTION	PRODUCTION	
A B O				TOTAL	CUM.	TOTAL	CUM.
F. M.				1980	12/80	1960	12/80
				1960	12/60	1960	12/60
CENTERVILLE E, WHITE CONTINUED							
4379	ASSHER OIL CO		BETHEL				
			AUX VABES				
			MCCLOSKEY				
6394	ASSHER OIL CO	JONES-BAIRO	CYPRESS	7-48-10E	20*	1319*	0.9
6376	NICK SABARE	JONES E&TATE	TAR SPRINGS	7-68-10E	25*	1249*	1.1
6266	SUN OIL CO,	E, CENTERVILLE	TAR SPRINGS	7-48-10E		269	39
CENTRAL CITY, MARION							
2623	WILLIAM PFEFFER	PFEFFER U	PENNSYLVNIN	8-1N-1E	25*	402*	1.3
CENTRALIA, CLINTON, MARION							
419	KARCHMER PIPE	KARCHMER-TRENTUN	TRENTON	1,2-1N-1W,20,2T,36,35	20*	3785	20.4
				36-2N-1W			
				35-2N-1W		880*	98*
403	M. O. MORGAN	CENTRALIA FIELO	BENOIST	1-1N-1W	425*	15089*	14.5
420	HUBERT ROBE	BUENLER COHM	DEVONIAN	1-1N-1W	20*	1187*	0.6
412	FRED SEIF	ROTHMEYER,BUEHLER,COE	CYPRESS	13-1N-1W	90*	988*	4.0
416	FRED SEIF	HEFTER HRS	BENOIST	1,2,12-1N-1W,	930	26376	29.6
404	SHELL OIL CO,	CENTRALIA U	CYPRESS	35,36-2N-1W,			
			BENOIST	35-2N-1W		236	34
			TRENTUN				21
CHESTERTVILLE E, DOUGLAS							
601	ROYALCO, INC.	ARCOLA UNIT	SPAR MTN	5,6-14N-8E, 31-15N-6E		6471	1130
CLARKSBURG, SHELBY							
3803	SCHAEFER OIL CO,	CLARKSBURG	BENOIST	8,17-10N-6E		10*	4*
CLAY CITY C, CLAY, JASPER,							
1900	ASHLAND O AND R	BOUS EAST	MCCLOSKEY	2,3,10-6N-10E		333	16
3402	ASHLAND O AND R	NOBLE NORTH	MCCLOSKEY	35-6N-9E		316	8
1928	ATHENE OVEL,	ROBERTS&BOWEN	MCCLOSKEY	5-3N-10E		*	91
3419	WM. S P. BECKER	WAKEFIELD-HARRELL U	CYPRESS	28-4N-9E	50*	2783*	2.7
362	C. E. BOOTH	STANFORD	AUX VABES	4-2N-7E		175	35
381	C. E. BOOTH	MURO & PETTIJOHN	AUX VABES	15,16-2N-7E		545*	32
1915	C. E. BOOTH	DELLA HARVEY	SPAR MTN	12-3N-9E	30*	1028*	1.0
3405	C. E. BOOTH	S. NOBLE CONBLU	MCCLOSKEY	30,31-3N-9E,	10*	4027*	0.6
				25,36-3N-8E			166
3403	M. L. BROCKMAN	EAST NOBLE UNIT	SPAR MTN	10-11-3N-9E		3464*	251*
380	BRUER & ROBINSON	NORTH CLAY CITY	CYPRESS	6,9,16,17-3N-8E		4500*	311*
4064	CARL BUBBY	GBTN,SHS,MNH6,FSL,MCN	AUX VABES	24,25-18-6E	240	1785*	16.8
4107	CONTINENTAL OIL	WILSON 'B'	SPAR MTN	15-18-6E		212	13
4073	COY OIL CO	EAST GEFF	AUX VABES	8,17-18-6E		581	32
4167	CULLUM OIL CO,	ROBERTSON-BING-CRENS	AUX VABES	27,28-18-8E	125*	3771*	7.1
1913	ODRAN OIL PROP.	BENGBOER	MCCLOSKEY	4-6N-10E		141	17
4109	F AND W OIL CO,	MILLER-LAMBRICH U	OMARA	29-1N-8E		*	144
			SPAR MTN				
			MCCLOSKEY				
4146	F AND W OIL CO,	MT. ERIE UNIT	AUX VABES	33,34,35-1N-8E		8541*	4.3
4174	FARRAR OIL CO,	MOLT	AUX VABES	29-1N-8E	80*	1519*	2.3
			MCCLOSKEY				1096
4156	FRENCH PETN COOP	SEARD, BORAM,WILSON U	AUX VABES	10-18-8E	5	615*	1.1
1927	FINKS OIL CO,	ROUTE 33	MCCLOSKEY	27,28,34-7N-10E	120*	2230*	7.7
4111	GALLAGHER DRILLING	M.OSTERMAN	AUX VABES	14,23-18-8E	350*	1294*	7.4*
			OMARA				64*
			MCCLOSKEY				
4175	DONALD W. GEBELL	NE GEFF UNIT	AUX VABES	7-18-8E	13	297*	3.6
4173	J. O. GORDON	BOYMWELL	MCCLOSKEY	24-2N-7E	35*	844*	1.6*
1906	GLEN GRIFFITH	WILLOW HILL COUP	MCCLOSKEY	6-6N-11E		116*	2*
317	GULF OIL CO	S. STANFORD U	AUX VABES	8,9,16,17-2N-7E		2605	370
6130	GULF OIL CO	WINONA	MCCLOSKEY	12-18-8E		25	300
4094	ILL. L&E, OP.	BLACKBURN	AUX VABES	3-18-6E		47	10
6141	ILL. L&E, OP.	HILL, THOMPSON, GRAN,	AUX VABES	27-2N-7E		610	36
6197	ILL. L&E, OP.	BORAM	AUX VABES	4-18-8E		15*	61
6196	ILL. L&E, OP.	J. O. VURDULAB	OMARA	26-18-7E		209*	41*
4184	ILL. MID-CONT.	CRENS-SHORT COOP	AUX VABES	33,34-18-8E		503*	36*
6119	KIRBY PETROLEUM	KIRBY	AUX VABES	16,17-1N-7E		2464	360
1925	O. R. LEAVELL	NEWTON EAST	MCCLOSKEY	34-7N-10E/3-6N-10E	*	1140*	60*
			ST LOUIS				
4057	E. K. LEWIS	OLLIE GROVE	MCCLOSKEY	27-1N-8E	10*	277*	0.9
4056	UAE V LOVE	AYRE	SPAR MTN	8-16-7E	*	*	8.3
4140	UAE V LOVE	BARNARU-HOLMAN-L16TON	AUX VABES	10-18-7E	30*	700*	2.1
3416	MARATHON OIL CO,	NOBLE COOP U	MCCLOSKEY	6-3N-9E		*	*
3421	MURVIN OIL CO,	WAKEFIELD POOL U	CYPRESS	28-4N-9E		2966*	1.5
4055	MURVIN OIL CO,	ELM RIVER FLOOD	AUX VABES	32,33-1N-6E		1330*	170*
4056	MURVIN OIL CO,	BORAM	AUX VABES	33-1N-8E		53*	250*
4060	MURVIN OIL CO,	PIKE	AUX VABES	14-18-7E	70*	1157*	3.3*
4092	NOAH PET	CRENS MIDDLE UNIT	AUX VABES	33-16-8E	150*	4050	2.9
300	O M AND F OIL CO	N CLAY CITY U	MCCLOSKEY	5,6-3N-6E		319*	154*
372	PARTLOW, COCHNOR	MENDERSON & SKELTON	CYPRESS	17-2N-6E	100*	1645*	6.4
			AUX VABES				255
			SPAR MTN				
6069	FARTLOW, COCHNOR	HOBBELTON & GILL	CYPRESS	20-2N-8E	80*	1390*	3.5
			SPAR MTN				169
301	PHILLIPS PET. CO	MINNIE	SPAR MTN	24-3N-7E		161	79
3427	BERNARD FOODLKY	COEN U	AUX VABES	36-5N-9E	21	274	1.5
3449	BERNARD FOODLKY	CLARK-GRUBB-EVANG	CYPRESS	16-3N-9E	65*	905*	6.6
6087	BERNARD FOODLKY	W JEFFERSONVILLE	AUX VABES	15,16-16-7E	11	669	0.8
4149	BERNARD FOODLKY	MARSHALL	AUX VABES	16-18-8E		640*	0.5
4159	BERNARD FOODLKY	NW FAIRFIELD U	OMARA	26,35-18-7E	36	2790	6.8
6194	BERNARD FOODLKY	GRAY	AUX VABES	16,21-18-8E	21	1553	1.9
4082	RAYMAC PETROLEUM CO,	CRENS-SHORT COUP	AUX VABES	33-16-8E	33	1379	1.9
384	E & REYNOLDS EST,	WEILER,EOEN6,MOBLEY,	CYPRESS	33,34-3N-8E		1005*	7.8
		DEHART	AUX VABES				297
			MCCLOSKEY				
1901	ROBINSON PROD.	NE MCCLOSKEY U NO 1	MCCLOSKEY	13,14,24-7N-10E		136T	282
1902	ROBINSON PROD.	WILLOW HILL, 6E BAR	MCCLOSKEY	23,26-7N-10E		336T	639
6046	ROBINSON PROD.	GILL-BISSEY-SMITH	AUX VABES	24-2N-7E	90	400	8.1
							52
							90
							400

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80			INJECTION WATER			REMARKS
FIELD, COUNTY		PERM OIL	DATE	DATE	NU. OF	ACRES	SOURCE	TYPE								
PROJ. NO.	DEPTH (FT)	PERM (%)	GRAV (API)	FIRST INJ.	ASO.	UNDER INJ.	GR-SAND	(F) FRESH	(B) BRINE	(M) MIXED	(H) SHALLOW					
CENTERVILLE E, WHITE																
CONTINUED																
4379	2980	18.0	14.1			15	16	330								
	3080	19.6	19.6	109		18	15	390								
	3225	6.0				1	2	60								
4394	2910	15.0	14.4	109	36.6	10-63		100	PRODUCED (d)							
4376	2500	16.0	15.7	21	34.4	09-63		40	PURCHASED (B)							
4246	2530	6.0			36.6	10-50	09-57		PRODUCED (d)					ACREAGE & WELLS INCL. W/4379		
CENTRAL CITY, MARION																
2623	664	22.0			34.0	10-64		1	5	60				PRODUCED (d) ESTIMATEU		
CENTRALIA, CLINTON, MARION																
419	3950	99.9			40.0	11-66		21	32	1080				AUX VASES (B) EST. SINCE 1979		
403	1368	10.0			38.0	10-55	01-74	1	3	40				CYPRESS, PROU (B) ESTIMATEU		
420	2880	29.0			38.8	06-66		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 75		
404	1200	20.4	20.2	225	34.8	05-56		90	50	1450				PENN. A.V. DEV SOURCE; CYP, PENN. PROU (B)		
408	3950	22.0	10.0	186	39.8	11-51	03-53	2	12	160				DEVONIAN (B)		
CHESTERVILLE E, DOUGLAS																
801	1725	10.0	16.0	167	38.0	09-61	08-73	14	24	380				RIVER, PRDU (M)		
CLARKSBURG, SHELBY																
3803	1775	11.0				10-74	10-75	1	2	30				PRODUCED (B) ESTIMATEU		
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY																
1900	2645	8.0			40.0	09-53	04-60	3	3	40				GRAY, PROD (M)		
3402	3000	5.0			38.0	07-54	04-61	1	1	20				CYPRESS (B)		
1928	3275	25.0				6-66	01-79			80				ADJ TO PROJ. 1922 SINCE 66		
3419	2540	28.0	18.0	140		07-60		5	5	100				PENN 80, PROU (B) ESTIMATEU SINCE 1970		
362	2970	10.0			36.0	12-66	04-73	1	1	20				PENN 80, PRDU (B)		
381	2960	16.0				11-71		3	5	80				PRODUCED (B) DATA NOT AVAILABLE		
1915	2960	10.0	13.6	24	35.1	03-62		2	3	50				PENN 80, PROU (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 (d) NOT OPERATED 1968-1971		
380	2630	19.0				06-58	03-67	3	13	160				SH. SU, PRDU. (M) ESTIMATEU		
4064	3090	10.0				1-72		5	9	400				PRODUCED (B) ESTIMATEU 74 THRU 79.		
4107	3160	10.0				04-55	04-63	1	2	40				CYPRESS, PROU (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 80, PROU (B) ESTIMATEU SINCE 1973		
1913	2850	16.0				10-60	12-64	1	10	240				CYPRESS (B)		
4109	3060	19.0				08-50	01-63	4	4	150				CYPRESS (B) QUIMP FLOOD, NO RECORD		
	3080	19.0						4	4	150						
	3100	19.0						4	4	150						
4146	3000	11.0	13.0	16	40.2	10-60		8		720				SH SU, PROU (M) SHU 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 80 (B) SHU SINCE 12-69		
1927	2950	23.0				06-69		1	8	110				PRODUCED (B) ESTIMATEU		
4111	3050	19.0				06-71	05-75	2	4	80				PENN SAND, PROU (B) ESTIMATEU		
	3100	8.0				04-58				70						
	3150	10.0				06-71	05-75			70						
4175	3031	19.0	20.0	27	36.5	02-64		1	3	40				PENN 80, PROU (B) TEMP ABU 9-70 TO 1-77		
4173	2990	5.0			37.0	07-63		2	2	20				PRODUCED (B) EST. UNAFFECTED BY AUJ A.V. FLOOD		
1906	2634	9.0	15.0	24		06-57	12-79	1	1	70				PRODUCED (B) CONVERTED TO DISPOSAL		
317	2975	11.8	19.8	97	38.8	05-54	12-60	9	8	170				PENN 80, PROU (B)		
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 80 (B)		
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 (d) INJ SUSPENSIVE 8-66		
4198	3215	20.0			38.0	10-62	08-68	1	3	40				PENN 80 (B) NO DATA BEFORE 1965		
4164	3150	19.0	14.0	40		12-65	05-74	3	3	60				PENN 80 (B) ESTIMATEU		
4119	2900	5.0	19.0		38.0	01-55	05-62	4	15	400				PENN 80, PROU (B)		
1925	2650	15.0				06-70		4	12	280				CYP, SURFACE (M) INACT. 72-73; NO DATA 1980		
	2950	18.0						3	12	280						
4057	3065	12.0				12-58		1	1	30				PRODUCED (B) EST. INCL PRIM SINCE 1958		
4056	3250	14.0				8-69		2	1	20				AUX VASES EST. ACCIDENTAL OR QUMP 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	2555	21.0			35.0	10-60		6	13	320				TAR SPGS (d) INJ, TERMINATEU 1973; EST		
4055	3025	19.0				8-63	8-69	5	8	150				PRODUCED (B) EST. NO DATA		
4058	3000	24.0				10-60	12-72		2	30				ADJ. TO PROJ. 4146 1960-72		
4060	3100	9.0				01-70		2	6	110				PRODUCED (B) EST. INCL PRIM SINCE 1-71		
4092	3110	28.0				08-65		5	4	260				PENN 80, PROU (B) EST. SINCE 1979		
300	3010	5.0				06-55	01-76	4	8	220				RIVER, PROU (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 (d) 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) DATA NOT AVAILABLE		
3427	2800	6.0			36.0	05-64		1	4	50				PENN 80, PROU (B)		
3449	2615	9.0				07-62		1	5	60				PRODUCED (B) EST. INCL. PRIM. SINCE 66		
4087	3120	13.0				06-67		3	4	120				SH WELL (F)		
4149	3120	20.0			38.0	11-65		3	8	100				PURCHASED (F) INJECTION CURTAILED 10-73		
4159	3200	7.2	13.0	200	40.1	10-62		3	4	480				PENN 80 (B)		
4194	3150	12.0			39.0	11-65		4	9	100				CYPRESS (B)		
4082	3100	21.0				04-67		1	4	70				PRODUCED (B)		
384	2600	20.0				06-61		1	11	120				PRODUCED (B) ESTIMATEU ADJ. TO PROJECTS		
	2910	11.0								20				335 & 358 SINCE 1961; INCL		
	2975	4.0								20				SOME SALEM OIL		
1901	2530	6.2	14.0		38.0	05-51	01-70	2	6	235				PRODUCED (B)		
1902	2580	8.2	14.0		40.0	05-53	01-70	3	5	415				SH SD, PROD (M)		
4046	2864	8.0			39.0	8-76		1	4	125				PRODUCED (B)		

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)			
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	
PROJECT NO., OPERATOR	U = UNIT		S = T = R	TOTAL * CUM.	TOTAL * CUM.	TOTAL * CUM.	
* A B O				* 1980 * 12/80	* 1980 * 12/80	* 1980 * 12/80	* 1980 * 12/80
* S P, N,							
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY CONTINUED							
4048	ROBINSON PROO.	RINKEL	AUX VABES 33,34=1N=8E	24	73	13,0	50
4067	ROBINSON PROO.	NE BEFF-MURPHY	AUX VABES 5,6=18=8E	80	1013	7,9	131
4068	ROBINSON PROO.	CARTER U	AUX VABES 28,29,32,33=1N=8E	44	286	16,4	68
*4084	ROBINSON PROO.	HEBLEY FELLER	AUX VABES 7=1N=8E		368		83
4179	ROBINSON PROO.	MILLER & THACKER	AUX VABES 19=18=8E	94	583*	6,6	82*
*4115	ROBINSON, PUCK,	N PUCKETT U	AUX VABES 9=28=8E		966		122
*4116	ROBINSON, PUCK,	S PUCKETT U 1	AUX VABES 16=28=8E		4337		458
1918	MUBERT ROSE	LIBERTY W UNIT	MCCLOSKEY 18,21=5N=10E		319		24*
1930	MUBERT ROSE	MCCLANE-HAY	MCCLOSKEY 8,17=8N=10E	60*	985*	2,8	170*
1931	MUBERT ROSE	MATTINGLY	AUX VABES 5=5N=10E			2,0	60*
			SALEM				20*
*3433	MUBERT ROSE	DUNOAS WEST UNIT	MCCLOSKEY 28,33=5N=10E		1384**		65**
3436	MUBERT ROSE	SOUTH NOBLE UNIT	MCCLOSKEY 29,32=3N=9E	40*	2033*	0,7	180
4186	MUBERT ROSE	BYCAMORE CONSOL	AUX VABES 22,23,24=2N=7E	140*	4173*	7,1	290
			MCCLOSKEY				140*
* 347	J. W. RUOY ORLG.	ED WILSON	AUX VABES 32=3N=8E		235		44
* 363	J. W. RUOY ORLG.	CLARK LEASE	CYPRESS 20=3N=8E		62		7
4088	J. W. RUOY ORLG.	FLEXTER	AUX VABES 3=1N=7E	8*	554*	0,4	145
3444	FRED BEIP	R. S. SMATTO	MCCLOSKEY 20=3N=9E	85*	1614*	3,9	162
3445	SHAKESPEARE OIL	RUNYON=TOTTEN U	SPAR MTN 25=3N=9E	53	664	2,7	36
*4117	SHAKESPEARE OIL	E. BANKER SCHOOL U	CYPRESS 22=2N=8E		801		219
*4118	SHAKESPEARE OIL	E. BEFF UNIT	AUX VABES 12,13=18=7E, 7,17,18=18=8E		9553		966
4166	SMULMAN BROTHERS	W GEFU U	AUX VABES 28,33=1N=7E/3,4=18=7E	75*	3686*	3,7	412*
			OHARA		467		
			MCCLOSKEY		2900		
4177	SMULMAN BROTHERS	NE GEFU U	AUX VABES 1,11,12,13=18=7E	50*	9929*	1,5	1316
4196	JOE STMPKINS OIL	HEISNER UNIT	AUX VABES 3=28=8E,33,34=18=8E		2344		239*
*3428	WAYNE SMITH, OP.	ONION HILL U	AUX VABES 1,12=4N=9E, 36=5N=9E		5929		158
			SPAR MTN		427**		22*
4190	S. ILL. OIL PROO	SOUTH CIBNE U	AUX VABES 27=1N=7E	20*	820*	U,9	94
*1907	M. M. SPICKLER	WILLOW HILL	MCCLOSKEY 36=7N=10E				2
4047	TAMARACK PET.	ANUBN=FRMN=JRON=WILSON	AUX VABES 23=2N=8E	25*	1070*	0,5	112*
4079	TAMARACK PET.	BLACK OAK SCHOOL U	AUX VABES 22,23,26,27=18=8E	746	9403	17,8	351
4081	TAMARACK PET.	CLAY UNIT	AUX VABES 9,10,15,16=18=8E	235	3412	U,6	105
*4095	TAMARACK PET.	EAST CLAY	AUX VABES 10=18=8E		284		19
4108	TAMARACK PET.	PIERCE	SPAR MTN 22=2N=8E		1013		86
4157	TAMARACK PET.	S.W. MT. ERIE U	AUX VABES 4=18=8E	60	2247	1,5	100
4191	TAMARACK PET.	CIBNE UNIT	AUX VABES 3,9,10=18=7E	72	3130	1,3	393
4193	TAMARACK PET.	WILSON U	AUX VABES 23,26=2N=8E		2875*	2,6	350
*4132	TEXACO, INC.	E. GALLIGHER	MCCLOSKEY 2=28=7E		32		
*4144	SAH TIPPS	W GEFU U	AUX VABES 16,17,21=18=7E		1690		105
302	UNION OIL CALIF.	T M & S UNIT	CYPRESS 9,10=2N=8E	109	899	2,3	75
304	UNION OIL CALIF.	NE WOODSIDE SCHOOL	CYPRESS 16,17=2N=8E	40*	1734*	24,1	217
			MCCLOSKEY				
335	UNION OIL CALIF.	WEILER SCHOOL CONSOL	CYPRESS 33,34=3N=8E,3,4=2N=8E	552	9551	62,2	1174
			MCCLOSKEY				
341	UNION OIL CALIF.	W. CLAY CITY	AUX VABES 10=2N=7E	678	7033	14,9	316
			MCCLOSKEY				
349	UNION OIL CALIF.	THOMAS SCHOOL U	CYPRESS 5,6,7,8,17,18=2N=8E; 12=2N=7E	650	26002	39,7	2365
			AUX VABES				
			MCCLOSKEY				
358	UNION OIL CALIF.	BUNNYVILLE C	CYPRESS 27,28,29,32,33=3N=8E/ 4,5,6=2N=8E	912	18473	78,3	1950
			BETHEL				
			AUX VABES				
			MCCLOSKEY				
1910	UNION OIL CALIF.	E NEWTON CONSOL	MCCLOSKEY 27,34=7N=10E	219	6730	4,1	452
1911	UNION OIL CALIF.	MT. GILEAD CONSOL	MCCLOSKEY 19,20,29,30=5N=10E	1229	16655	25,0	645
1919	UNION OIL CALIF.	N. DUNOAS U	AUX VABES 7,8,9,18=5N=10E	864	25322	36,7	1091
			MCCLOSKEY				
1922	UNION OIL CALIF.	S BOOB U	AUX VABES 33=6N=10E/ 4,5,6=5N=10E	1029	26204	39,2	1840
			MCCLOSKEY				
1924	UNION OIL CALIF.	MONEY CONSOL	AUX VABES 16,17=5N=10E	213	5701	18,0	366
			MCCLOSKEY				
			SALEM				
3404	UNION OIL CALIF.	OLD NOBLE	CYPRESS 3,4,5,8,9=3N=9E/ 32,33=4N=9E	6592	157695	116,2	6446
			MCCLOSKEY				
3406	UNION OIL CALIF.	SN NOBLE U	SPAR MTN 11,12=2N=8E		3810		181
3418	UNION OIL CALIF.	WAKEFIELD CONS	CYPRESS 13,14,22,23,24,25,26, 27=4N=9E	65	40367	11,7	3899
			AUX VABES				
3425	UNION OIL CALIF.	GUYOT CONSOL	CYPRESS 35,36=3N=8E,1,2=2N=8E	59	6331	3,9	482
			MCCLOSKEY				
3429	UNION OIL CALIF.	NE WAKEFIELD CONSOL	CYPRESS 13,14=4N=9E		442	0,7	46
3431	UNION OIL CALIF.	HOG RUN CONSOL	AUX VABES 17=3N=9E	81	2263	2,6	106
			MCCLOSKEY				
3434	UNION OIL CALIF.	SUGAR CREEK UNIT	SPAR MTN 26,27=4N=9E		1083*	1,2	66
			MCCLOSKEY				
3437	UNION OIL CALIF.	S DUNOAS CONSOL	AUX VABES 30,31=5N=10E	226	3732	3,7	136
			MCCLOSKEY				
3438	UNION OIL CALIF.	B=8 CONSOL	AUX VABES 27,28=4N=9E		564*	0,7	83
3440	UNION OIL CALIF.	W A H CONSOL	AUX VABES 13,14,23,24,26=4N=9E	68	2915	7,8	123
			SPAR MTN				
3441	UNION OIL CALIF.	R M & P CONSOL	MCCLOSKEY 24,25=3N=8E	323	3137	1,4	40
3442	UNION OIL CALIF.	OUTER WAKEFIELD C	CYPRESS 14,23=4N=9E		954*	2,3	57
			AUX VABES				
3443	UNION OIL CALIF.	LU-BERG AREA	CYPRESS 25=4N=9E	151	1751	4,8	203
3446	UNION OIL CALIF.	COLBORN CONSOL,	AUX VABES 9,9=3N=9E	432	2054	55,7	301*
			MCCLOSKEY				
			ST. LOUIS				
			SALEM				
3448	UNION OIL CALIF.	EAST W.A.H CONS.	MCCLOSKEY 24,25,26=4N=9E	37	37	1,9	2
4065	UNION OIL CALIF.	BANKER SCHOOL CONSOL	CYPRESS 15,21,22,28=2N=8E	50	2387	2,5	860
4070	UNION OIL CALIF.	E BANKER SCHL	CYPRESS 21,28=2N=8E	107	1011	12,2	188
			AUX VABES				
			MCCLOSKEY				
*4074	UNION OIL CALIF.	8E WOODSIDE SCHOOL	AUX VABES 20,29=2N=8E		370		8

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80			INJECTION WATER		
FIELD, COUNTY	PERM	OIL	DATE	DATE	NO. OF	WELLS	ACRES	SU-BANO	(F) FRESH						
PROJ.	DEPTH	NET	POR	(MO)	GRAV	PIRST	ABO.	UNDER	GR-GRAVEL	(S) BRINE					
NO.	(FT)	PAY	(%)	(API)	INJ.	INJ.	PROD.	INJ.	PROD	(H) MIXED		REMARKS			
	(FT)														
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY															
CONTINUED															
4048	3015	15.0	18.5	30	40.0	11-77	1	4	100			PRODUCED (S)			
4067	3075	7.5	19.0	35		08-71	6	5	236			PRODUCED (S)			
	3130	4.5							215						
4068	3015	6.5	18.5	30	37.0	09-71	1	7	165			WELL & PROD (M)			
*4084	2935	11.0	16.0	35	39.3	03-67	01-74	1	1	50		PRODUCED (S)			
4179	3146	7.8	18.0	75	37.5	08-58		3	100			POND, PROD (M)			
*4115	3150	8.0	19.0	119	39.0	01-56	05-63	6	4	172		SEWAGE, PROD (M)			
*4116	3200	14.8	20.0	80	39.0	08-54	05-63	7	11	243		SEWAGE, PROD (M)			
*1918	2900	7.0				04-65	10-78	1	1	100		PENN 80, PROD (S)			
1930	2800	12.0				7-63		2	4	100		CYPRESS PROD (S)			
1931	2690	14.0				6-66		1	1	10		*SHUT DOWN 1972			
	3250	25.0						1	1	20		*EST. INCL. PRIM. SINCE 1963			
*3433	2870	5.0	13.0	120		01-65	10-78	2	5	180		*EST. ADJ. TO 1921 AND 1922			
3436	3005	9.0				09-66		3	5	170		SINCE 1966			
4186	2930	20.0	19.0	75		11-64		2	6	440		*EST. SHUT DOWN 1977			
	3010	20.0						2	2	100		PRODUCED (S)			
* 347	2933	15.0			39.2	02-59	01-72	1	2	40		PRODUCED (S)			
* 363	2678	10.0				06-68	01-74	1	1	30		PRODUCED (S)			
4048	2990	12.0	19.0	22	38.5	12-61		1	2	120		CYPRESS, PROD (S)			
3444	3000	5.0	16.0	1307	39.0	01-61		1	1	40		*ESTIMATED SINCE 1976			
3445	3080	7.0			38.0	12-75		3	9	150		PRODUCED (S)			
*4117	2639	12.5	16.5	43	34.4	01-57	12-71	3	6	110		*ESTIMATED SINCE 1970			
*4118	3065	15.9	19.0	65	38.7	01-57	01-72	30	31	588		PENN 80 (S)			
	3080	8.0				12-63		6	13	250		*INCL ALL PAY8; *EST SINCE 1967			
	3170	5.8				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 80, PROD (S)			
*4196	3170	18.0			39.0	08-65	12-72	20	19	480		*ESTIMATED SINCE 1975			
*3428	2800	10.0	18.0	50	39.0	04-64	6-74	30	25	900		PENN 80, PROD (S)			
	2900	10.0				4-77		1	2	40		*ESTIMATED; *SHU SINCE 1974			
4190	3004	16.0			38.0	10-65		1	4	40		PENN 80, PROD (S)			
*1907	2615	10.0				06-52	12-54	1	1	20		PRODUCED (S)			
4047	2960	13.0				4-65		4	5	110		*DUMP FLOOD, NO DATA			
4079	3100	14.0	20.1	8	39.0	09-68		7	16	680		*EST. ADJ. TO 4193 SINCE 64			
4081	3100	9.0				03-68		2	1	220		PENN 80 (R)			
*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		*EST. 1980			
4157	3040	10.1	15.9	24	39.0	10-62		2	3	100		PRODUCED (S)			
4191	3100	10.0	18.0	50	34.5	11-65		2	1	180		PURCHASED (S)			
4193	2960	14.0	19.0	30	39.0	01-65		11	10	220		PENN 80, PROD (S)			
*4132	3255	6.0			38.0	01-58	07-59	1	1	40		*EST. 1980			
*4144	3150	13.0	19.0	65	37.2	11-60	01-64	9	10	150		SH GRAVEL (F)			
302	2610	15.0	18.0	65	37.6	03-72		1	4	200		*SHU SINCE 7-76.			
304	2620	16.0	18.0			04-68		1	5	389		CYPRESS, PROD (S)			
	3000	25.0	15.0									PENN 80, PROD (S)			
335	2596	17.0	18.0	24		07-61		8	11	570		*INJECTION RESUME 9-78			
	2937	15.0	15.0												
341	2960	15.0			38.0	8-71		2	6	340		PENN 80, PROD (S)			
	3070	10.0	16.0			9-70				240					
349	2650	20.0	13.0	200		07-65		12	26	2411		PRODUCED (S)			
	2900	20.0													
	3000	27.0													
358	2620	16.0	18.0	24	38.5	05-65		19	41	2069		PRODUCED (S)			
	2880	8.0	10.0									*INCL FURHER C WILKIN			
	2950	11.0	18.5												
	3000	25.0	15.0												
1910	2670	8.0	15.0	24		10-60		3	5	260		CYPRESS, PROD (S)			
1911	2750	10.0				01-66		6	12	926		PRODUCED (S)			
1919	2720	37.0	18.0	67		07-65		11	18	1679		PENN 80, PROD (S)			
	2791	31.0													
1922	2720	12.0				11-66		13	22	998		PRODUCED (S)			
	2900	11.0													
	3400	32.0													
1924	2720	11.0	18.5			08-68		2	9	710		PRODUCED (S)			
	2780	25.0	15.0												
	3297	13.0	11.0												
3404	2590	15.0	15.0	24	36.8	08-54		19	67	2481		PRODUCED (S)			
	2930	10.0						11	32						
*3406	2984	6.0	15.0	75		05-57	03-66	2	3	340		CYPRESS, PROD (S)			
3418	2545	32.0	17.0	120		05-59		2	18	1640		PENN 80, PROD (S)			
												*ESTIMATE			
3425	2620	20.0	15.0	75		12-63		1	9	837		PENN 80, PROD (S)			
	3000	20.0													
3429	2579	15.0	18.0	65		11-64		1	1	100		PENN 80, PROD (S)			
3431	2883	25.0	15.0	75		10-65		1	3	200		*INJ. OI&C. 1980			
	2967	7.0								229		CYPRESS, PROD (S)			
3434	2925	5.0				05-66				300		PENN 80, PROD (S)			
	2950	5.0								300		*INJECTION CEAS&O 2-73			
3437	2776	11.0			38.5	06-68		2	2	195		SUB-SURFACE (S)			
	2838	25.0								80					
3438	2983	25.0	15.0		39.6	10-68			1	240		PRODUCED (S)			
3440	2676	27.0	15.0		38.1	09-69		3	3	830		*INJ. OI&C. 8-73			
	2905	15.0	14.0									WATER SOURCE WELL (S)			
3441	2940	11.0	18.0		38.5	04-70		2	1	240		PRODUCED (S)			
3442	2619	12.0				12-69			4	270		PENN 80 (S)			
	2876	14.0								50					
3443	2550	10.0	17.0	50	38.8	09-71		5	4	160		PRODUCED (S)			
3446	2860	18.0				12-76		10	14	1121		PRODUCED (S)			
	2970	10.0										*UNIT EFF&C. 8-1-75			
	3090	20.0													
	3450	20.0													
3448		8.0				8-79		1	2	630		PRODUCED			
4065	2639	15.0	18.0	65		09-56		5	4	620		PENN 80, PROD (S)			
4070	2640	15.0	18.0	65	38.6	10-71		2	6	160		WELL (S)			
	2945	15.0	16.0	77											
*4074	3025	14.0	16.0		38.6	05-69	11-73	3	1	80		PRODUCED (S)			

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)			
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	
PROJECT NO., OPERATOR	U UNIT		S T R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	
• ABO				1980	1980	1980	
• P,H.				18/80	18/80	18/80	
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY							
CONTINUED							
4075	UNION OIL CALIF.	B WOODSIDE SCHL	AUX VASES MCCLOSKEY	19,80,30-2N-8EJ 25-8N-7E	128	8951	5.4 834 69 1345
4076	UNION OIL CALIF.	E DRY FORK	AUX VASES	85-18-6E	34	1161	1.3 89 38 384
4080	UNION OIL CALIF.	WOODSIDE SCHL C	CYPRESS AUX VASES MCCLOSKEY	84-8N-7E;19,80-8N-8E 13-2N-7E;18-8N-8E	587	18924	13.3 903 363 6918
4091	UNION OIL CALIF.	CENT JORDAN SCHOOL	AUX VASES MCCLOSKEY	1-1N-7E	336	7167	7.9 548 326 4967
4097	UNION OIL CALIF.	DEER CREEK S	CYPRESS MCCLOSKEY	11,18-18-8E	•	3780*	0.8 184* 80 1095*
*4099	UNION OIL CALIF.	BRAOLEY U	AUX VASES	86-1N-7E	•	639	48
4106	UNION OIL CALIF.	SN VANFOSSAN U	AUX VASES OHARA MCCLOSKEY	25,86,27-1N-8E	316	4767	10.8 425 295 3289
4118	UNION OIL CALIF.	JORDAN SCHOOL U	AUX VASES	87,34,35-8N-7E, 3-1N-7E	•	25655*	0.8 8381 95 10894
*4113	UNION OIL CALIF.	NE JORDAN SCHOOL U	AUX VASES	25,86,35,36-2N-7E	•	13813	1316 848
4114	UNION OIL CALIF.	VAN FOSSAN U	MCCLOSKEY	10,14,15,22,83,86,87- 1N-8E	47	16719	8.9 730 148 16914
4131	UNION OIL CALIF.	SE JORDAN SCHOOL U	AUX VASES	2,11-1N-7E	731	86338	14.1 1816 890 17785
4135	UNION OIL CALIF.	DEER CREEK UNIT	AUX VASES MCCLOSKEY	1,8,10,11-18-8E	818	10009	7.3 741 218 5561
4148	UNION OIL CALIF.	ELM RIVER U	AUX VASES MCCLOSKEY	30,31-2N-8E	169	7408	0.7 575 185 3846
4143	UNION OIL CALIF.	PELLER FLOOD CONBLO	AUX VASES	5,6,7,8-1N-8E	331	15571	10.6 1793 393 11515
*4158	UNION OIL CALIF.	OREGON SCHOOL U	AUX VASES	80,21,28,89-18-8E	•	2839	185 1579
4153	UNION OIL CALIF.	SE ENTERPRISE U	AUX VASES	84-1N-8E	•	1135	8.0 72 223
4160	UNION OIL CALIF.	E, JORDAN SCHOOL C	AUX VASES MCCLOSKEY	1-1N-7E,6-1N-8E, 35,36-8N-7E	1334	42961	29.2 3818 1587 26818
4176	UNION OIL CALIF.	S JORDAN SCHOOL U	AUX VASES	11,12-1N-7E,7-1N-8E	714	16935	21.6 1637 726 8759
4185	UNION OIL CALIF.	ZIP CONBLO	CYPRESS AUX VASES MCCLOSKEY	4-1N-8E; 33,34-8N-8E	755	18869	82.8 1811 594 10488
4187	UNION OIL CALIF.	SOUTH CISNE CONBLO	AUX VASES MCCLOSKEY	27,34-1N-7E	15	4940	2.3 138 63 1253
4188	UNION OIL CALIF.	N CISNE U	AUX VASES MCCLOSKEY	82,87-1N-7E	288	9581	6.5 269 860 4576
4192	UNION OIL CALIF.	J. P. MOLT-A	AUX VASES OHARA	30-1N-8E	8	264	1.8 24 8 57
*4136	VERNE M. VAUGHN	BLESSING-CHRISMAN U	AUX VASES	31,38-1N-8E	•	683	180 870
4098	NSW WELL SERV.	DAVIS, JONES-8N-10E	AUX VASES	9-18-7E	•	645	157* 530*
*4180	WATKINS DRILLING	WATKINS-WHITLOCK	AUX VASES	9-18-7E	•	158	45 103
4151	M. WEINERT EST.	SOUTH BOYLESTON UNIT	AUX VASES	3,4,9,10-28-7E	361	6866	10.8 388
4162	M. WEINERT EST.	NORTH BOYLESTON UNIT	AUX VASES MCCLOSKEY	33,34-18-7E;3,4-23-7E	1007	19679*	8.1 775
1426	WICHITA INDUSTRIES	EAST NEWTON WF	MCCLOSKEY	22,83,26,27-7N-10E	1060	6890*	77.9 831 338 3485*
4054	M. J. WILLIAMS	FREQ SEST	AUX VASES	27-1N-8E	•	•	48*
4110	M. J. WILLIAMS	COVINGTON UNIT	OHARA MCCLOSKEY	25-18-6E;19,20,89,30, 31,38,33-18-7E	•	26918	1689* 14370*
*345	ZANETIS OIL PROP	STANFORD LEASES	AUX VASES	3,4,10-2N-7E	•	1673	190 1673
*1908	ZANETIS OIL PROP	P. KELLY 3	SPAR HTN	1-5N-9E	•	184	88 312
*1909	ZANETIS OIL PROP	C. HARVEY 8	SPAR HTN	18-5N-9E	•	457	8
*1917	ZANETIS OIL PROP	MINE-OCHE *A* ETAL	SPAR HTN	4,9-5N-10E	•	77	14 87
1921	ZANETIS OIL PROP	KELLER *A*-PAYNE HRB.	AUX VASES SPAR HTN SALEM	5,6-5N-10E	33	8754	88.0 695 330 27540
*4096	ZANETIS OIL PROP	8MAH	AUX VASES	34-13-8E	•	142	18 84
COIL, WAYNE							
4077	FRHEB PETR COOP	COIL U	AUX VASES	17,18,19-18-5E	128	4934	17.1 819 158 2266
4100	K W B OIL PROP.	MHTYOUNG8LOO U	AUX VASES	19-18-5E	64	2067	11.1 924 23 1293
4058	STONE OIL CO	8YARS-GARRISON	ST LOUIS	19-18-5E	•	•	7.0 169*
COIL N, WAYNE							
4053	M. O. BURKETT	KEEN-WILSON	AUX VASES	31-1N-5E	•	600	124** 600*
COIL W, JEFFERSON							
8011	GULF OIL CO	COIL W U	AUX VASES	14,15,28,83-18-4E	•	1319	82 709*
2012	GULF OIL CO	COIL W U	MCCLOSKEY	22-18-4E	•	81	0
2086	STONE OIL CO	FARRINGTON	ST LOUIS	24-18-4E	91	1409	7.9 824 55 586
CONCORD C, WHITE							
4281	ASBHER OIL CO	CONCORD UNIT	TAR SPRINGS	27,28-68-10E	•	1169	251** 339*
*4208	C. E. BREHM	CONCORD N UNIT	AUX VASES	10-68-10E	•	637	66
*4288	GT LAKES CARBON	MCCLOSKEY	SPAR HTN	28-68-10E	•	233	5 40
4439	JIM MALEY	TULEY	MCCLOSKEY CYPRESS	21-68-10E	•	115*	• 24 • 115*
*4309	HUMBLE O AND R	CONCORD CO-OP	AUX VASES TAR SPRINGS	28-68-10E	•	1179	103 379
*4205	BARRON KIDG	KERWIN-CONCORD	AUX VASES	21-68-10E	•	348	18 77
*4299	O. R. LEAVELL	CONCORD	TAR SPRINGS	21,82,88-68-10E	•	3964	402 1910
*4331	O. R. LEAVELL	CONCORD	AUX VASES	88-68-10E	•	370	59 289
*4332	O. R. LEAVELL	TULEY	CYPRESS	21,88-68-10E	•	1276	57 455
4358	O. R. LEAVELL	TULEY	AUX VASES	21-68-10E	•	141	200 86*
4806	PHILLIPS PET. CO	KERWIN	CYPRESS AUX VASES SPAR HTN MCCLOSKEY	21-68-10E	96	3471	3.5 315 112 8272
*4289	PHILLIPS PET. CO	DALLAS	SPAR HTN	28-68-10E	•	247	3 42
4207	REBSTOCK OIL CO.	TULEY	MCCLOSKEY CYPRESS	21-68-10E	35*	2729*	3.0 207 35* 1885*
4444	BLASTER PRODUCING	BROWN-SPILLMAN U	AUX VASES	16-68-10E	•	850	117** 450*
*4323	THUNDERSIRO OIL	N CONCORD U	MARON8BURG	9,10-68-10E	•	8492	903 5632

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80			INJECTION WATER		
FIELD, COUNTY		PERM OIL		DATE		NO. OF		SOURCE		TYPE		REMARKS			
PRD.	DEPTM	NET	POR	(HO)GRAV	FIRST	AMO.	UNDER	GRGRAVEL	(S)FRESH	(S)BRINE	(M)MIXED	(M)MIXED			
NO.	(FT)	(FT)	(X)	(API)	INJ.		INJ.	PRODUCO	INJ.	PRODUCO	(M)MIXED				
									SH=SHALLOW						
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY															
CONTINUED															
4075	2915	10,0			05-69		3	9	414			PRODUCED (S)			
	3018	8,0													
4076	3119	11,0		38,3	05-69		1	2	200			WELL, PROD (S)			
4080	2620	16,0	18,0	37,0	04-68		9	17	874			PENN SU, PROD (S)			
	2950	11,0	18,5												
	3000	25,0	15,0												
4091	2930	15,0	18,0	41,5	03-68		6	8	290						
	2990	4,0	15,0												
4097	2725	8,0	15,0	24	39,4	02-50		2	240			PENN SU, PROD (S)	INJ. U18C, 1980.		
	3090	4,0													
4099	3013	20,0	22,0	100	39,0	05-60	09-68	3	3	60		PRODUCED (S)			
4106	2975	20,0				01-67		6	13	610		WELL, PROD (M)			
	3030	6,0													
	3075	6,0													
4112	2950	14,0	19,0	73		09-54			7	830		PENN SU, PROD (S)	INJ. U18C, 12-71		
4113	2950	15,0	19,0	106		01-56	05-69	14	12	510		PENN SU, PROD (S)			
4114	3070	10,0	13,0	200		01-54			1	1810		PRODUCED (S)	INJ. U18C, 1980		
4131	2930	17,0	19,0	106		11-57		10	19	640		PENN SU, PROD (S)			
4135	2990	8,0				12-66		5	12	894		PENN SU, PROD (S)			
	3090	4,0													
4142	2910	20,0	18,0	87		09-58		5	7	204		PENN SU, PROD (S)			
	3010	10,0													
4143	2950	16,0	16,0	77		09-58		5	13	1044		PENN SU, PROD (S)			
4152	3186	14,0	19,0	35		01-61	08-67	14	13	280		PENN SU, PROD (S)			
4153	2992	12,0	19,0	75		05-61			2	70		PENN SU, PROD (S)	INJECTION U18C 6-78		
4164	2950	15,0	19,0	77		01-63		20	22	1158		PENN SU, PROD (S)			
	3030	5,0													
4176	2930	23,0	18,0	75		08-64		10	11	863		PENN SU, PROD (S)			
4185	2640	15,0	18,0	75		12-64		11	17	1147		PENN SU, PROD (S)			
	2945	19,0													
	3023	5,0													
4187	3005	35,0	18,0	75		12-64		1	6	400		PENN SU, PROD (S)			
	3130	20,0													
4188	3005	35,0	18,0	75		11-64		5	7	640		PENN SU, PROD (S)			
	3100	18,0													
4192	3030	20,0				01-75		1	2	10		PRODUCED (S)			
	3090	30,0													
4136	3050	18,0				04-59	12-74	2	2	50		CYPRESS (M)			
4098	3128	20,0				12-59	06-75	4	7	130		PENN SU, PROD (S)	ESTIMATEU + COMBINED TOTAL		
4180	3129	11,0	16,0	75	38,0	11-59	10-66	1	1	40		POND, PROD (M)			
4151	3100	16,0				04-61		6	3	280		PENN SU, PROD (S)			
4162	3094	16,0				02-62		13	14	1088		PENN SU (M)	ADJUSTED 1980		
	3240	10,0													
1926	2760	15,0	15,0	25	40,0	10-71		11	25	560		CYP, PROD (S)	EST. 1973=79		
4054	2960	11,0				1-70				30					
4110	3200	8,0	14,0	80	38,0	06-55	01-72	12	13	1600		PENN SU, PROD (S)	EST. + ADJ TO ACTIVE WF SINCE 70		
	3250	6,0	13,0	300				21	20	1900					
345	2900	19,0				07-64	1-77	1	5	20		PRODUCED (S)			
1908	2941	5,0				41,0	11-58	01-70	1	1	40		CYPRESS, PROD (S)		
1909	2954	6,0				40,4	11-58	10-65	1	1	40		CYPRESS, PROD (S)		
1917	2810	6,0				40,0	06-64	12-66	1	1	60		CYPRESS, PROD (S)		
1921	2760	25,0	15,5	10	39,4	01-66		5	14	230		PRODUCED (S)	ESTIMATEU		
	2855	5,0													
	3265	15,0													
4096	3118	25,0			40,2	07-68	08-70	2	4	80		PURCHASED (S)			
COIL, WAYNE															
4077	2900	15,2	19,7			01-69		4	4	360		PENN SU, PROD (S)			
4100	2860	13,0	21,0	120		05-66		2	3	80		PENN SU, PROD (S)			
4052	3020	10,0				1-70			5	70		PRODUCED (S)	ADJ. TO 2026 + INCL. PRIM		
COIL N, WAYNE															
4053	2800	12,0				1-61	12-71	1	4	50		PRODUCED (S)	EST. + INCL. PRIM SINCE 1960		
COIL W, JEFFERSON															
42011	2700	10,0	19,0	160		01-61	10-63	5	4	95		PENN SU, PROD (S)	INCL 2012		
42012	2850	8,0				01-61	02-63	1	2	30		PENN SU, PROD (S)	INCL WITH 2011		
2026	3000	8,0				06-69		3	7	160		PENN SU, PROD (S)			
CONCORD C, WHITE															
4281	2279	11,0			36,4	09-59	01-72	4	3	80		PRODUCED (S)	EST 1965-71 + INC PRIM PRU 1959-71		
4208	2950	12,0	21,1	218	39,1	10-52	10-62	2	2	40		GRAVEL, PENN SU (M)			
4228	2980	17,0			37,5	06-93	01-56	3	8	140		GRAVEL BED (F)			
	3020	5,0						3	5	140					
4439	2630	8,0				06-62		1	1	20		PRODUCED (S)	EST. + DATA N/A SINCE 1978		
	2980	6,0						1	1	20					
44309	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		SH SU (F)			
4299	2260	15,0	16,0	175	37,0	08-60	07-67	10	10	210		SH SU, PROD (M)			
4331	2890	21,0	20,0	75	37,5	01-61	10-67	3	4	50		SH 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			37,3	03-62	01-72	2	1	20		PRODUCED (S)	NO DATA 1967-1971		
4206	2620	12,0			37,0	07-53		3	4	20		SH SU, PROD (M)			
	2890	13,0								80					
	2980	4,0								40					
	3020	9,0								40					
4229	2960	15,0	15,0	50	36,0	08-53	11-57	1	3	40		SH SU, PROD (M)			
	3020	15,0						1	3	40					
4207	2620	21,0			37,0	07-51		1	2	20		SH SU, PROD (M)	ESTIMATEU SINCE 1969		
	2900	22,0						1	3	30					
	3040	5,0						1	2	100					
4444	2645	15,0				6-58	1-73	1	4	60		PRODUCED (S)	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	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION					
PROJECT NO., OPERATOR	U UNIT		S T R				TOTAL CUM.	TOTAL CUM.	TOTAL CUM.		
ASB P.M.							1980 12/80	1980 12/80	1980 12/80		
CONCORD E C, WHITE											
8485 ABBMER OIL CO	POHERDY	CYPRESS	26-68-10E	30*	975*	1.6	69*	30*	975*		
8486 FAIRWAY PETROLEUM	PEARCE	CYPRESS	35-68-10E		205*	39**			205*		
8233 M. E. GARRETT	PEARCE U	AUX VABES CYPRESS	35-68-10E, 2-T8-10E		310*	12*			117*		
COOKS HILLS C, COLES, OUGLAS											
822 CHARLES R. GRAY	COMBES ESTATE	SPAR MTN	24-14N-7E		76	1					
802 CHARLES R. GRAY	LOGAN-MOORE	SPAR MTN	13-14N-7E		61	1					
810 KUYKENOALL ORLG.	BRAOLEY WF	SPAR MTN	26, 27, 30, 35-14N-7E		1914	56			875		
813 KUYKENOALL ORLG.	EASTON WF	SPAR MTN	27-14N-7E		556	12			243		
805 S AND M OIL CO.	COOKS HILLS UNIT	SPAR MTN.	9, 15, 16-13N-7E		3620	262			2800		
808 SCHAEFER OIL CU.	COOKS HILLS U	SPAR MTN	18, 19, 20, 30-14N-8E, 13, 24, 25-14N-7E		3165	211			954		
CORDES, WASHINGTON											
4010 MOBIL OIL CORP.	GILL EST., P. KOZUSZEK	BENOIST	26-38-3W	130	8697	8.0	1601*	214	419*		
4000 SHELL OIL CO.	CORDES COOP	BENOIST	14, 15, 22, 23-38-3W	125	29061	14.4	5077	383	33360		
CORINTH, WILLIAMSON											
4504 C. E. BREHM	CORINTH UNIT	AUX VABES	29-68-4E	40	304	6.1	90	22*	22*		
COVINGTON B, WAYNE											
4120 DONALD B. SEARY	HEIDINGER-VOGEL	MCCLOSKEY	13-28-6E		51						
CROSSVILLE W, WHITE											
8404 CONTINENTAL OIL	CROSSVILLE WEST U	AUX VABES SPAR MTN MCCLOSKEY	15, 16-48-10E		1199	46			245		
DALE C, FRANKLIN, HAMILTON, BALINE											
1309 C. E. BREHM	WESTBROOK	AUX VABES	1-78-4E/6-78-5E		1015	110					
1313 C. E. BREHM	CANTRELL U	AUX VABES	4, 5-78-5E/33-68-5E		3007	340			244*		
1334 C. E. BREHM	HOGAN U	AUX VABES	9, 16-78-5E		2427	73			276*		
1384 C. E. BREHM	P.M. SMITH	AUX VABES	33-68-5E, 4-78-5E		1588	275			637*		
1345 C. E. BREHM	RURAL MILL B	AUX VABES	33, 34-68-5E, 3, 4-T8-5E		1371	10			93*		
1352 C. E. BREHM	MOORE U	AUX VABES	29, 30, 32-68-5E		737	13			104*		
1353 C. E. BREHM	CROW U	AUX VABES	30, 31-68-5E		1202	155			101*		
3622 C. E. BREHM	WEST END	AUX VABES	19, 20, 30-78-5E/ 25-78-4E	91	8029	3.4	722	91	2405*		
1556 JOE A. DULL	DALE W WF	AUX VABES	6-78-5E	20*	653*	0.6	59	20*	321*		
1564 OUNCAN LSEORRY	KNIGHT	AUX VABES	9-68-6E		935	26					
1520 FARRAR OIL CO.	TEUFORD	AUX VABES	26-58-6E		436	138*			256*		
1525 FARRAR OIL CO.	TEUFORD	BETHEL	26-58-6E		62						
1566 FARRAR OIL CO.	NH RURAL HILL U	AUX VABES	21-68-5E	180*	2184*	5.9	362	150*	1189*		
1575 FARRAR OIL CO.	URIAM FOSTER	AUX VABES	22-68-5E	20*	500*	1.1	51	20*	500*		
1547 T. M. GEORGE EST.	CANTRELL B, UNIT	AUX VABES	7, 18-78-5E		3259	512			1640		
1526 HERMAN GRAHAM	J.M. STELLE	AUX VABES	27-58-6E	25*	1638	1.6	131	25*	1789*		
1528 HERMAN GRAHAM	DALE-HOODOVILL COOP	BETHEL	27-58-6E		319						
1537 HERMAN GRAHAM	NELLIE PORTER	AUX VABES CYPRESS BETHEL	34-58-6E	60*	5677*	3.2	246*	60*	2652**		
					447*		17*		256*		
					2495*		255*		1820*		
1510 GULF OIL CO	W RURAL HILL U	AUX VABES	11, 14, 15, 22, 23-68-5E		10312	1405*			5499*		
1511 GULF OIL CU	W RURAL HILL U	OHARA	11-68-5E		695						
1559 GULF OIL CO	M.E. PARKS 'B'	OHARA	34-68-5E		179	4			48		
1536 JAVIO F. MERLEY	WEST END	AUX VABES	8-78-5E		2262	283			680*		
1501 INLAND PRODUCERS	N RURAL HILL U	AUX VABES	5, 6, 7, 8-68-6E	40*	3372	293			1536		
3620 LOUIS KAPP	RALEY	AUX VABES	29-78-5E		696*	2.9	79	40*	686*		
1523 E. M. KAUFMAN	N. RURAL HILL U	AUX VABES	11, 12-68-5E		1900	119*			1015		
1524 E. M. KAUFMAN	S.E. RURAL HILL U	AUX VABES	18, 19-68-6E		2312	247*			1492		
1549 E. M. KAUFMAN	SH RURAL HILL UNIT	AUX VABES	23-68-6E	30*	2038*	1.7	171	30*	1759*		
1563 LAO PETROLEUM	0000-WILSON U	CYPRESS	6-68-7E	168	17145	7.6	1415	519	9671		
1578 LAO PETROLEUM	CULLUM-BUTTLE U	BETHEL									
1557 MAC OIL COMPANY	BURNEYT WF UNIT	AUX VABES	4, 5-68-6E	35	994	1.1	40	39	603		
1533 MARATHON OIL CO.	UGLESBY-GRIBWOLD	AUX VABES	1-78-5E	26	1022	0.4	71	26	531		
1561 MARATHON OIL CU.	BRILL UNIT	AUX VABES	17-68-6E		211				16		
		MARINBURG	6-68-7E	204	9914	4.4	700	311	6912		
1565 MARATHON OIL CO.	M.C. MOORE	AUX VABES OHARA	26, 34, 35-68-5E	51	5804	6.2	294	93	2101		
1543 MARION CURP	FRIEL	BETHEL	34-58-6E		3064	255			1592		
1502 PHILLIPS PET, CO	CANTRELL U	AUX VABES	5, 6, 7-78-5E		1814	161			1116		
1568 POLLACK SROB.	AOA DIAL #2	OHARA	8-68-6E	40*	714*	1.6	63	40*	540*		
1514 SHELL OIL CO.	RURAL HILL UNIT	AUX VABES	11, 12, 13, 14, 23, 24-68-5E	2*	64251	5.6	4908	155	44451		
		OHARA	7, 18-68-6E								
1512 SHERMAN ORLG	RURAL HILL	MCCLOSKEY			5700*	674*			4124*		
1548 SHERMAN ORLG	BENEFIEL-ARNOLO	AUX VABES OHARA	13, 23, 28-68-5E		3961*	2.0*	247*	50*	2430*		
		MCCLOSKEY	16, 21-68-7E	50*	3961*						
1535 JOE SIMPKINS OIL	SARKER	AUX VABES	24-68-5E		543	74			261		
1567 JOE SIMPKINS OIL	DALE COOP	AUX VABES	10, 15, 16-68-5E		200*	15*			135*		
1507 STEWART PRODUCERS	GILL JONES	AUX VABES	8-68-6E		171	17			4		
1516 STEWART PRODUCERS	CRAOQUCK-ARMES	AUX VABES	19-68-6E		203*	15*			96*		
1531 STEWART PRODUCERS	WILLIAMS HEIRS COOP	AUX VABES	9, 10-68-6E		272	4			130		
1539 STEWART PRODUCERS	FLANNIGAN U	AUX VABES	28, 29-68-5E		722	14			142		
1540 STEWART PRODUCERS	HUNGATE U	AUX VABES	28-68-5E		506	27			116		
1581 STEWART PRODUCERS	BRUHIT U	AUX VABES	6, 7-68-6E		266	190			151		
1562 STEWART PRODUCERS	JONES 2	AUX VABES	18-68-6E		291*	93*			105*		
1504 TEXACO, INC.	WEST DALE UNIT	AUX VABES	11-68-6E		647*	614			3334		
1508 TEXACO, INC.	HOOD-CAREY UNIT	AUX VABES	3-68-6E		867						
1509 TEXACO, INC.	HOOD-CAREY UNIT	BETHEL	3-68-6E		1109	250*			1910*		
1538 TEXACO, INC.	VAUGHAN-BROCKETT COOP	AUX VABES	17, 18-68-6E		1237	82			728		

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER				REMARKS		
FIELD, COUNTY	PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	PERM (MO)	OIL GRAV (API)	DATE FIRST INJ.	DATE ABO.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE	BU-SAND (F)	SH-GRAVEL (B)	PROU=PRODUCED (M)	SH=SHALLOW				
CONCORD E C, WHITE																				
4445	2545	9.0					12-63		2	4							PRODUCED (B)	*EST. *INCL. PRIM. SINCE 63		
4446	2560	18.0					6-63	12-76	1	1								PRODUCED (B)	*EST. *INCL. PRIM. 1963-76	
4233	2550	11.0	14.3	92	36.0		12-66	12-74	4	4								8M GRAV. PROD (M)	*ESTIMATED *INCL 1970	
COOKS MILLS C, COLES, DOUGLAS																				
522	1778	5.0	11.3		37.0		04-63	01-65	2	3			60					8M SU (F)		
402	1777	12.0	16.0	41			04-63	01-65	2	2			40					8M SU, PROD (M)		
310	1800	12.0	17.5	195	38.0		04-62	12-68	7	5			140					8M SU, PROD (M)		
513	1800	12.0	17.5	195	38.0		04-62	11-66	3	1			40					8M SU, PROD (M)		
505	1800	12.0	17.0	250	36.0		01-61	01-68	8	24			320					RIVER, PROD (M)		
508	1780	10.0	13.5	160	39.0		11-61	12-72	4	6			400					PENN SU (R)		
CORDES, WASHINGTON																				
4010	1270	12.0	20.0	250	37.0		09-65		2	10			180					PRODUCED (B)	*INCL PRIM PROD SINCE 9-65	
4000	1230	14.0	20.0	250	37.2		08-50		16	21			935					PENN SU, PROD (B)		
CORINTH, WILLIAMSON																				
4504		12.0			38.0		11-75		1	3			130					PENN SU (R)	*ESTIMATED BY OPERATOR 1960 ONLY	
COVINGTON S, WAYNE																				
4120	3316	4.0					11-57	10-59	1	1			80					CYPRESS, PROD (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		08-59	01-70	3	4			80					PENN SU, PROD (B)		
1513	3150	15.0	17.0	150	39.0		01-59	01-70	11	14			250					CYPRESS, PROD (R)	*1966-67 DATA ONLY	
1534	3300	11.3	19.0	150	38.0		06-62	05-71	2	10			130					PENN SU, PROD (B)	*1965-67 DATA ONLY	
1544	3150	22.0	17.0	200	38.0		03-63	09-73	3	14			170					PENN SU, PROD (B)	*ESTIMATED	
1545	3250	22.0	17.0	200	38.0		04-63	03-68	5	9			150					PENN SU, PROD (B)	*1965-66 DATA ONLY	
1552	3250	14.0			37.0		04-65	06-69	3	7			130					PENN SU, PROD (B)	*THRU 1967 ONLY	
1553	3250	14.0			37.0		04-65	01-73	3	6			110					PENN SU, PROD (B)	*THRU 1967 ONLY	
3622	3140	20.0	17.0	150	38.0		06-63		3	7			200					PENN SU, PROD (B)	*EST. THRU 79	
1556	3260	10.0	18.0	85	38.0		12-65		1	3			80					PENN SU, PROD (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	07-63	1	2			30					PURCHASED (B)	*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 (B)	*ESTIMATED	
1547	3125	20.0	20.5	122	39.4		09-60	12-68	11	9			220					PENN SU, PROD (B)		
1526	3034	11.0	14.0	120			08-61		2	2			60					PALESTINE, PROD (B)	*ESTIMATED	
1528	2950	11.0	14.8	117	37.0		07-61	07-64	6	9			150					PALESTINE, PROD (B)	*ESTIMATED *INCL BOTH PAYS	
1537	3050	13.0	20.0	116	37.0		07-61		7	8			150					PRODUCED (B)	*EST *BETHEL ANU AUX VASES DATA	
	2736	12.0	18.0				5-68	06-76	4	4			80							
	2900	20.0	18.0				8-62	9-68	4	4			80							
	3050	10.0	18.0				08-62		4	4			80							
1510	3100	21.0	19.1	96	37.0		06-59	05-64	24	21			640					CYPRESS, PROD (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		08-65	05-67	2	4			60					SH SU (F)		
1536	3250	18.0	20.0	340	40.0		12-62	11-68	7	8			150					PENN SU, PROD (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, PROD (B)	*INCL PRIM PROD SINCE 1-61	
1524	3190	20.0			38.0		09-61	02-70	4	8			120					CYPRESS, PROD (B)	*INCL PRIM PROD SINCE 9-61	
1549	3120	15.0			38.0		12-63		5	4			110					PENN SU, PROD (B)	*ESTIMATED SINCE 1978	
1563	2710	20.0			37.0		01-65		1	10			200					HARDINSBURG, PROD (B)		
	2875	15.0											200							
	2950	20.0											200							
1578	3100	30.0	15.0				10-69		1	2			240					PENN. & PROD (B)		
1557	3215	20.0	16.0	65	38.0		03-62		1	1			40					PENN SU, PROD (B)		
1533	3250	16.0	18.0	80			06-62	12-66	1	1			20					PENN SU, PROD (B)		
1561	2750	4.0					01-65		3	5			130					CYPRESS, PROD (B)		
	3000	20.0											130							
	3130	20.0											130							
	3210	15.0											130							
1565	3315	15.0	18.0	100			06-65		4	4			200					CYPRESS WSW, PROD (B)		
	3350	10.0	14.0	40									40							
1543	2940	23.0	15.0	150	39.5		09-62	05-69	1	3			130					PALESTINE, PROD (B)		
	3050	16.0	17.0	100					2	3			130							
1502	3200	15.0	18.0	75	38.0		08-55	10-62	5	7			130					PENN, PROD (B)		
1568	3102	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		8	11			1890					HARU, CYP, PROD (B)	*EST. INJ. FEB. 1980	
	3195	10.1	15.0	73									920							
	3300	12.4	17.0	75																
1512	3108	17.5	19.1	97	38.0		05-59	12-70	11	11			250					PURCHASED, PROD (B)	*ESTIMATED 1969-1970	
	3192	8.5							1	4			60							
1548	3080	15.0	17.0	78			11-63		6	9			240					PENN SU, PROD (R)	*ESTIMATED SINCE 1978	
	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	40			640					PENN SU (R)	*ALL DATA ARE ESTIMATED	
1507	3088	22.0					08-58	07-61	1	2			30					CYPRESS (B)		
1516	3120	20.0	12.0	90	37.0		09-60	03-69	3	4			80					PURCHASED (B)	*NO DATA 1969	
1531	3090	20.0	12.0	90	37.0		07-61	12-65	2	2			40					HCCLOSKEY (B)		
1539	3240	20.0	12.0	90	37.0		09-62	06-67	4	6			100					PENN SU, PROD (B)		
1540	3244	20.0	12.0	90	37.0		12-62	06-67	2	4			60					PENN SU, PROD (B)		
1541	3180	20.0	12.0	90	37.0		10-59	12-71	3	3			60					CYPRESS SU, PROD (B)		
1																				

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)		
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION
PROJECT NO., OPERATOR	U * UNIT		S * T * R	TOTAL * CUM.	TOTAL * CUM.	TOTAL * CUM.
* A B O				1980 * 12/80	1980 * 12/80	1980 * 12/80
* P. H.						
DALE C, FRANKLIN, HAMILTON, SALINE						
CONTINUED						
1560 TEXACO, INC.	DALE UNIT	TAR SPRINGS	1,2,11,12,13-68-6E,5,	376*	18997	63,8*
		MARUINSBURG	6,7,8,17,18,19-68-7E		1208	10008*
		CYPRESS		258*	26014	2350*
		BETHEL		423*	39830	13751*
		AUX VASES		1292*	103550	
1542 UNION OIL CALIF.	DALE COOP	TAR SPRINGS	36-58-6E,31-58-7E,	717	28959	22,4
		MARUINSBURG	6,7-68-7E			2120
		CYPRESS				580
		BETHEL				14643
		AUX VASES				
3625 PAUL ZIEGLER	WEST END UNIT	AUX VASES	17,19,20-T8-5E	90*	2991*	8,3
		AUX VASES				250
		AUX VASES				90*
		AUX VASES				1799*
DEERING CITY, FRANKLIN						
1319 FARRAR OIL CO.	PEABODY COAL	AUX VASES	9-78-3E	25*	562*	1,1
		AUX VASES				122*
		AUX VASES				25*
		AUX VASES				482*
DIVIOE C, JEFFERSON						
2015 W. A. BECKER	OELLA MCELRAVY	AUX VASES	17-18-4E	9*	279	0,2
2007 DEVON CORP.	PRITCHARD MRS	AUX VASES	20-18-4E	23	378	87
2022 JOHN GUNNILL	ELLER-PIERCE-WILLIS	MCCLOSKEY	16-18-4E	20*	390*	4,5
*2002 GULF OIL CO	W.D. MOLLOWAY	MCCLOSKEY	21-18-4E		2707	185
2027 E HOMER JAHN	MINOR UNIT	SPAR MTN	23-18-3E			233
2021 TEXACO, INC.	WEST DIVIOE U	SPAR MTN	13,14,15,22,23,	1476*	35059	18,9
		MCCLOSKEY	26-18-3E			1447
		AUX VASES				987
		AUX VASES				224174
OUBOIS C, WASHINGTON						
4007 N. A. HALORIOGE	KAMINSKI	CYPRESS	7,8,17-38-1W	50*	1555*	4,4
4024 N. A. HALORIOGE	MUSIAL WATERFLUOD	CYPRESS	19-38-1W/24-38-2W	15*	105*	0,5
*4003 HARRY HARRY	PEEK	CYPRESS	20-38-1W		68	16
4001 ELMER DELZE	O O PECK	CYPRESS	20-38-1W	20*	385*	1,4
4006 ELMER DELZE	KLAYBOR	CYPRESS	17-38-1W	65*	1082*	3,3
4025 E. M. BELF	RUUDLPH	CYPRESS	17-38-1W	40*	1225*	4,3
		CYPRESS				117*
		CYPRESS				40*
		CYPRESS				1225*
OUDLEY, EDGAR						
900 BARR-HUMAN-ROSSN	SABER L8E	L OUDLEY	9-13N-13W	190*	1680*	23,0
903 BARR-HUMAN-ROSSN	SABER L8E #2	L OUDLEY	9-13N-13W	50*	693*	5,6
906 G. T. DOBIE	BRINKERHOFF	L OUDLEY	10-13N-13W	120*	955*	19,0
905 W MENIGMAN EST	WALLER		3-13N-13W		634*	136*
904 JUOITH NEUMAN	STEIOL	L OUDLEY	3-13N-13W	30*	579*	3,1
901 OOBIS PATTILLO EST	ZITA MUKILL	L OUDLEY	3-13N-13W	35*	499*	6,6
902 OOBIS PATTILLO EST	A STAUB L8E	L OUDLEY	4-13N-13W	75*	521*	17,4
		L OUDLEY				148
		L OUDLEY				75*
		L OUDLEY				521*
EOINBURG W, CHRISTIAN, BANGAMON						
103 ODN HANKS	EOINBURG W U	SILURIAN	8,16,17-14N-3W		1061	157*
		SILURIAN				693
ELBRIDGE, EDGAR						
* 907 CONTINENTAL OIL	ELBRIDGE	PREUDNIA	1,2-12N-11W/		12000*	600*
		PREUDNIA	36-13N-11W			12000*
ELDORADO C, SALINE						
*3614 BUPAY OIL CO	SPRICH-LORCH	WALTERSBURG	35-88-6E		137	24
*3610 HAR-KEN OIL CO.	SOUTHWEST U	WALTERSBURG	20,21-88-7E		6703	663
3611 HAR-KEN OIL CO.	CENTRAL U	WALTERSBURG	15,16,21-88-7E	1163	24397	26,2
3621 HAR-KEN OIL CO.	WEST UNIT	PALESTINE	20-88-7E	432	4405	132
		BETHEL				181
		AUX VASES				786
3624 LOUIS KAPP	ELDORADO NW	WALTERSBURG	9,16,17-88-7E	65*	918*	1,2
		WALTERSBURG				29
		AUX VASES				35*
*3603 FRANK KING	ENOICOTT U	WALTERSBURG	2-88-7E		221	21
*3609 W. C. MCBRIOE	CYP, ELDORADO NE UNIT	CYPRESS	10,15-88-7E		633	58
3600 MIBTY OIL CO	NW ELDORADO U	TAR SPRINGS	8-88-7E	150*	1687*	9,5
		MARUINSBURG				103
		AUX VASES				50*
		AUX VASES				401*
3612 MIBTY OIL CO	VICTOR BUTYNER C	AUX VASES	7-88-7E	80*	1208*	4,4
3608 THE NELSON CO.	WALT, ELDORADO NE U	WALTERSBURG	10,11,15-88-7E	400*	18895*	20,3
		WALTERSBURG				1618*
		WALTERSBURG				400*
		WALTERSBURG				9125*
ELDORADO E, SALINE						
*3607 G. L. REABOR OIL	PORTER	AUX VASES	23-88-7E		373	35
		AUX VASES				41
ELLERY E, EDWARDS						
1007 T. E. CROSBLEY	ELLERY EAST UNIT	AUX VASES	27,34-28-10E		1639	*330*
1019 T. E. CROSBLEY	ELLERY E U	OHARA	27,34-28-10E		1673	*687*
		OHARA				*687*
ELLIOTTSTOWN N, EPPINGHAM						
1101 VIRGIL STREETER	N ELLIOTTSTOWN	MCCLOSKEY	17,20-7N-7E		529	99*
		MCCLOSKEY				263*
ENERGY, WILLIAMSON						
4502 A. S. VAUGHN	ENERGY WP	AUX VASES	3,4-98-2E	32	1629*	7,3
		AUX VASES				98
		AUX VASES				1298*
ENFIELD, WHITE						
4441 JOE A. OULL	PRICE	AUX VASES	29-58-8E		400	80**
		OHARA				400*
*4209 RICHARD ELBIE	S ENFIELD U 2	MCCLOSKEY	28,29,32-58-8E		1127	92
4268 RICHARD ELBIE	S ENFIELD U 1	AUX VASES	28,29,32-58-8E		2288	360
4292 RICHARD ELBIE	S ENFIELD U 3	OHARA	28,29,32-58-8E		363	99
		OHARA				259
EXCHANGE E, MARION						
*2630 FARRAR OIL CO.	EXCHANGE EAST UNIT	SPAR MTN	29-1N-4E		348	51
		MCCLOSKEY				104
EXCHANGE N C, MARION						
2635 EGO OIL CO	SLAPOUT WP	MCCLOSKEY	7-1N-4E/12,13-1N-3E	238	3424	3,0
		MCCLOSKEY				*78
		MCCLOSKEY				89
		MCCLOSKEY				1213
EXCHANGE W, MARION						
2628 STONE OIL CO	WYATT A B WYATT B *	SPAR MTN	3,4,9-1N-3E	52	1131	9,2
		SPAR MTN				188*
		SPAR MTN				52
		SPAR MTN				*77

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80			INJECTION WATER							
FIELD, COUNTY	PERM	OIL	DATE	DATE	NO. OF	ACRES	SUBSTR	TYPE	PROJ.	DEPTH	NET	POR	(MO)	GRAV	FIRST	ABO.	UNDER	GRAVEL	(F) FRESH	
NO.	(FT)	PAY	(X)	(API)	INJ.	INJ.	PRODUC	(M) MIXED	REMARKS											
DALE C, FRANKLIN, HAMILTON, SALINE																				
CONTINUED																				
1560	2400	18.5	18.0	52	36.0	07-65														
	2475	8.5				01-65														
	2680	13.3	15.3	109	36.0	01-65	07-71	3	4	4020	PENN 8U, PHOU (B)									ESTIMATED FROM TOTAL INJECTION
	2900	18.0	13.0	22	36.0	01-65				328										+INCL ALL PAYS
	2980	16.5	17.3	66	37.0	01-65														
1542	2320	15.0	18.0	150		06-63														
	2500	16.0																		
	2700	15.0																		
	2920	22.0																		
	3020	25.0																		
3625	3150	15.0	18.0	75	37.0	01-56														
										110	PRODUCED (B)									ESTIMATEU
DEERING CITY, FRANKLIN																				
1319	2800	15.0			36.2	07-61														
										50	PRODUCED (B)									+INCL PRIM +ESTIMATEU
DIVIOE C, JEFFERSON																				
2015	2658	20.0			37.6	08-69														
2007	2612	8.0				08-69														ESTIMATEU 1979
2022	2800	6.0				74-72														
*2002	2805	6.9	18.0		36.6	05-55	09-65	1	5	60	PRODUCED (B)									EST. + INCL PRIM SINCE 72
2027	2680	12.0				10-65														
2021	2710	6.0	13.0	67	37.0	11-64														EST. + ADJACENT TO ACTIVE WF
	2750	13.0	13.6	1033	37.0					15 15 1245	PENN 8U, PHOU (B)									
DUBOIS C, WASHINGTON																				
4007	1250	9.5				01-63														
4024	1235	8.0				1-75														
*4003	1232	12.0			37.0	12-59	08-64	1	2	40	PRODUCED (B)									ESTIMATEU
4001	1260	10.0				11-68														
4006	1250	10.0			37.0	10-61														
4025	1215	12.0				10-61														
										2 5 70	PRODUCED (B)									EST. + INCL PRIM SINCE 62
DUDLEY, EOGAR																				
900	420	18.0	20.0	30	28.3	08-67														
903	410	12.0	20.0	30	29.0	02-72														
906	410	20.0				7-66														
905	415	18.0				01-67														
904	420	15.0				05-67														
901	410	30.0				03-67														
902	400	25.0				03-67														
										1 7 70	PRODUCED (B)									ESTIMATEU
EUNIBURG #, CHRISTIAN, BANGAMON																				
103	1700	15.0			8.0	11-61														
										1 10 230	PRODUCED (B)									+INCL PRIM SINCE 54 + DATA N/A BU
ELBRIUGE, EUGAR																				
* 907	950	4.0				6-50	12-65	12	12	300	PRODUCED (B)									ESTIMATEU
ELDURAOO C, SALINE																				
*3614	2050	11.0	15.0	150	36.0	09-64	12-68	1	1	10	PALESTINE SD (B)									
*3610	2130	16.0	17.0	225	36.0	05-63	01-74	5	23	290	PENN 8U, PHOU (B)									
3611	2150	20.0	17.0	225	36.0	05-63		5	7	220	PENN 8U, PHOU (B)									
3621	1900	15.0	17.0			2-72		5	8	200	PENN 8U, PHOU (B)									
	2700	5.0	11.0																	
	2900	10.0	15.0																	
3624	2330	15.0				06-71														
	2900	12.0																		
*3603	2090	7.0	13.0	100		04-59	10-63	1	4	60	PENN 8U (B)									
*3609	2560	12.0	18.0	80	36.0	12-62	08-68	2	3	90	PENN 8U, PHOU (B)									
3600	2200	10.0			36.9	05-70		1	1	30	PRODUCED (B)									ESTIMATEU
	2314	8.0																		
	2900	7.0																		
3612	2922	8.0				09-63														
3608	2200	22.0	19.0	200	36.0	08-63														
										6 7 440	PENN 8U, PHOU (B)									S.D. 4-65, REACTIVATED 7-66 + EST
																				+ SINCE 11-62 + EST. SINCE 77
ELDURAOO E, SALINE																				
*3607	2900	7.0			37.0	01-61	12-65	5	6	150	PALESTINE SAND (B)									
ELLERY E, EDWARDS																				
*1007	3170	10.0	17.7	26		12-57	06-67	13	11	270	SH 8U, PHOU (M)									NO DATA 1966-67 + INCL 1019
*1019	3240	6.0				12-57	06-67	10	16	300	SH 8U (F)									NO DATA 1966-67 + INCL WITH 1007
ELLIOTSTOWN N, EFFINGHAM																				
*1101	2700	6.0				12-66	12-72	2	10	180	TAN SPR, PHOU (B)									
																				ESTIMATEU 1968-72
ENERGY, WILLIAMSON																				
4502	2354	20.0			40.0	10-71														
										2 4 100	PRODUCED (B)									EST. 76 THRU 79
ENFIELD, WHITL																				
*4441	3245	15.0				7-60	12-64													
	3320	8.0																		
*4209	2945	4.6			36.6	10-56	03-68	2	1	80	SH 8U, PHOU (M)									EST. + ADJ. TU 4264 & 292
*4264	2810	6.4	21.5	142	36.0	02-54	03-68	3	3	220	PRODUCED (B)									+ INCL PRIM PROD
*4292	2874	5.0			37.5	08-56	10-65	1	1	80	PRODUCED (B)									+ INCL PRIM PROD SINCE 8-56
EXCHANGE E, MARION																				
*2630	2775	10.0				05-66	07-70	1	2	80	CYPRESS									
	2650	5.0																		
										1 3 80										
EXCHANGE N C, MARION																				
2635	2709	15.0	11.7	200	36.2	11-66														
										4 9 400	WELL (B)									
EXCHANGE W, MARION																				
2628	2572	12.0				11-66														
										2 7 511	PRODUCED (B)									+ INCL PRIM + FORM. NAME CHARLETON

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)			
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	
PROJECT NO., OPERATOR	U = UNIT		S - T - R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	
A B D				1980	12/80	1980	12/80
P, M,				1980	12/80	1980	12/80
FAIRMAN, CLINTON, MARION 413 PAUL WAITE	DUCOMB-KNEITLER	SENOIST	13,24-3N-1W	1494		252	1494
FLORA S, CLAY 331 DONALD G. GEAR7	GIVEN-MCGREW U	MCCLOSKEY	4-2N-6E	70		4	7
FRIENDSVILLE N, WABASH 3998 O. LOEPLER ESTATE, 3945 MOBIL OIL CORP. 3953 J. W. SANDERS	FRIENDSVILLE NORTH U LITHELAND FRIENDSVILLE N U	SIEML SIEML SIEML	12-1N-13W 1,2-1N-13W 1-1N-13W	379 623		99 142 7	99 282
PROGTOWN N, CLINTON 409 ELMER DELZE	SCHROEDER	SILURIAN	31-3N-3W			9.1	97
GARD'S POINT, WABASH 3853 BELL BROTHERS 3852 WALKER DRUG CO.	TALLEY GARD'S POINT UNIT	DMARA DMARA	23-1N-14W 23,26-1N-14W	70	1605	3.1 3.2	98 79 70
GERMANTOWN E, CLINTON 406 NAT. GAS PIPELINE	GERMANTOWN	SILURIAN	36-2N-4W, 1-1N-4W	154	4878	10.7	1240 154 4878
GILA, JASPER 1916 SCHAEFER OIL CO.	GILA	MCCLOSKEY	28,32,33-3N-9E	3194		418	1760
GOLDENGATE C, EOHAROS, WAYNE, WHITE 4412 AMERICAN PUMP 4124 CITIES SERVICE 4128 CITIES SERVICE 4155 CULLUM OIL CO. 4154 ALVA C. DAVIS 4145 OUNCAN L&C-ROY 4139 FAIRFIELD OIL CO 4374 GULF OIL CO	POLLARO UNIT KLETZKER U GOLDENGATE U PETTIGREW-PIERC7 UNIT SUNNAGE-MOODS U SCOTTSDALE POND CREEK WP UNIT GOLDENGATE UNIT	AUX VASES AUX VASES MCCLOSKEY AUX VASES AUX VASES BETHEL AUX VASES AUX VASES SPAR MTN MCCLOSKEY AUX VASES AUX VASES SPAR MTN MCCLOSKEY AUX VASES OMANA SPAN M7N AUX VASES AUX VASES DMARA SPAN M7N AUX VASES SPAR MTN BETHEL AUX VASES BETHEL AUX VASES	21,22,27,28-38-9E 4-38-9E 28,32,33-28-9E 24-28-9E 13,24-28-9E 23,26-28-9E 29,30,31,32-28-9E 34,35-38-9E, 3-48-9E	2174 102 926 202 631 751 842 727		109 1 7 140 95 254 614 656	1085 10 281 122 130 2504 3689
1027 ILL. L&E, OP. 4083 ILL. MIO-CONT.	CHALCRAFT-MORN SOUTH ELLERY UNIT	AUX VASES AUX VASES SPAR MTN MCCLOSKEY	20-28-10E 24,25-28-9E 19,30-28-10E	225	5370	11.6	14 370 225
4447 JENKINS BROS 4123 M AND H OIL CO.	WHITLOW-WILLIAMS GOLDENGATE UNIT	MCCLOSKEY AUX VASES OMANA SPAN M7N AUX VASES AUX VASES DMARA SPAN M7N AUX VASES SPAR MTN BETHEL AUX VASES BETHEL AUX VASES	28-38-9E. 32,33-28-9E	35	800 526 1515	1.9	105 659 203
4378 MARCH DRUG CO. 4148 POOL OIL CO.	GOLDENGATE W. ELLERY	AUX VASES AUX VASES DMARA SPAN M7N AUX VASES SPAR MTN BETHEL AUX VASES BETHEL AUX VASES	3-48-9E 15,22,23,27-28-9E	25	2991 258 97	1.4	439 25 179
1023 ROBINSON PROD.	SNOWBALL UNIT	AUX VASES AUX VASES DMARA SPAN M7N AUX VASES SPAR MTN BETHEL AUX VASES BETHEL AUX VASES	30,31-28-10E	23	97	3.6	14 23 97
4136 SKILES OIL CORP. 4377 TEXACO, INC. 4189 M. J. WILLIAMS	D'ONANIEL U J. MANCOCK COOP GOLDENGATE EAB7 UNIT	AUX VASES AUX VASES BETHEL AUX VASES BETHEL AUX VASES	26-28-9E 21-38-9E 25,26-28-9E		215 680 163 163		26 25 300
GOLDENGATE N C WAYNE 4062 COLLINS BROS. 4051 ILL. MIO-CONT. 4066 NOAM PET	JONES LOCKE-JOHNSON GOLDENGATE NORTH UNIT	AUX VASES OMANA AUX VASES	5-28-9E 17-28-9E 17-28-9E	5	150 350 897	0.3	23 55 96
HALF MOON, WAYNE 4168 COLLINS BROS. 4160 JUNIPER PETROLEUM C	HALF MOON UNIT HALF MOON U	MCCLOSKEY OMANA	24-18-9E 26,34,35-18-9E	20	5224 783	1.7 3.6	192 756
MARCO, BALINE 3019 COLLINS BROS. 3613 LOWREE CORP.	MARCO U MARCO WEST POOL UNIT	AUX VASES AUX VASES	16-88-5E 29-88-5E	250	4234 723	10.2 0.2	455 69
MARCO E, BALINE 3001 SUN OIL CO. 3002 SUN OIL CO.	MAHCO WP UNIT MARCO WPPU	CYPRESS AUX VASES	25-88-5E 24,25,26-85-5E		84 334		3 30
HARRISSBURG, BALINE 3006 W. C. MCSRIOE	HARRISSBURG NORTH	WALTERSBURG	34-88-6E	1597		16	136
HERALO C. GALLATIN, WHITE 1494 ASHMER OIL CO 1419 ABHLAND O AND R 4210 C. E. BREHM 4304 C. E. BREHM 4456 JACK BROOKOVER	C. HBT, M BOYD SOUTH NEW HAVEN UNIT HERALO W, U. NEW HAVEN U NEWCOMB-AUD-MOY-WLSON	CYPRESS TAR SPRINGS WALTERSBURG AUX VASES CYPRESS AUX VASES TAR SPRINGS AUX VASES CYPRESS TAR SPRINGS AUX VASES TAR SPRINGS AUX VASES TAR SPRINGS AUX VASES PENNSLVNIN CLORE TAR SPRINGS CYPRESS AUX VASES AUX VASES CYPRESS	23-TS-9E 29,30-78-10E 28,33-68-9E 18-78-10E 34-68-9E 23,24,25,26-78-9E 21,28-78-9E 16-78-9E 24-78-9E, 19-78-10E 24-78-9E 17,18-78-10E 14-78-9E 11-78-9E	40 227 22	665 1538 125 88 105	5.1 32.0 4.5	73 229 93 19 22
1444 COLLINS BROS.	HERALO E UNIT	AUX VASES TAR SPRINGS AUX VASES CYPRESS TAR SPRINGS AUX VASES TAR SPRINGS AUX VASES TAR SPRINGS AUX VASES PENNSLVNIN CLORE TAR SPRINGS CYPRESS AUX VASES AUX VASES CYPRESS	23,24,25,26-78-9E	230	2437	10.3	170 230
1405 CONTINENTAL OIL 1431 CONTINENTAL OIL 1430 JOE A. OULL 1433 JOE A. OULL 46340 IND. FARM SUR. 4400 PAUL S. KNIGHT 4360 LADD PETROLEUM	COTTONWOOD N U COTTONWOOD TAR SPR HERALO E U GLOVER-NEVILLE NEW HAVEN WP MARRELL-KNIGHT-WILLMS BAYLET U	AUX VASES TAR SPRINGS AUX VASES AUX VASES AUX VASES TAR SPRINGS PENNSLVNIN CLORE TAR SPRINGS CYPRESS AUX VASES AUX VASES CYPRESS	21,28-78-9E 16-78-9E 24-78-9E, 19-78-10E 24-78-9E 17,18-78-10E 14-78-9E 11-78-9E	5613 179 20 104 350 23	1045 1.5 15.3 1.5 10.7 1.5	30 161 138 79 287 335	2114 45 903 1222 14 3322 3391
4365 LADD PETROLEUM 4339 LIVINGSTON OIL 4355 HADSON OIL CO.	HERALO COOP CALVERT 'A' HERALO U	AUX VASES AUX VASES CYPRESS	10-78-9E 4-78-10E 27,33,34-68-9E,	1361 31	1.2	136 747	40 25

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80			INJECTION WATER			REMARKS
FIELD	COUNTY	PERM OIL	DATE	DATE	NO. OF	SOURCE	TYPE									
PROJ.	DEPTH	NET	POR	(MO) GRAV	FIRST	ABO.	ACRES	SO-SAND	(F) FRESH	UNDER	GR-GRAVEL	(H) BRINE				
NO.	(FT)	PAY	(%)	(API)	INJ.			PROD	INJ.	PROD	PROD	(H) MIXED				
	(FT)															
FAIRMAN, CLINTON, MARION																
* 413	1450	8.0	21.0	357	38.0	03-59	01-76	4	9	130	PRODUCED (B)					*NO DATA 1971-74; *ESTIMATED
FLORA 8, CLAY																
* 331	2992	12.0				10-59	05-61	1	1	40	SH 80, PROD (M)					*ESTIMATED
FRIENDSVILLE N, WABASH																
*3998	1650	10.0	15.0	35	33.0	05-62	01-71	4	3	60	SH 80 (F)					
*3945	1620	12.5	16.0	81	35.6	07-67	09-57	2	3	60	SH 80 (F)					*INC PRIM PROD
*3953	1631	10.0			36.6	08-57	12-61	9	2	40	SH 50 (F)					*DUMP FLOOD
PRODTOWN N, CLINTON																
409	2240	18.0				03-68		3	8	140	PRODUCED (B)					*SHU, NO INJ DATA
SARD'S POINT, WABASH																
3853	2860	10.0				06-71		3	60							*ADJACENCY TO ACTIVE WF
3852	2880	8.0				06-71		2	8	160	PRODUCED (B)					*ESTIMATED
GERMANTOWN E, CLINTON																
* 406	2300	60.0			39.4	09-56		2	11	300	PRODUCED (B)					
GILA, JASPER																
*1916	2835	6.9	12.5	276	39.0	09-63	09-70	4	17	437	GRAVEL, PROD (H)					
GOLUENGATE C, EDWARDS, WAYNE, WHITE																
*4412	3250	12.5	21.0	100	37.4	01-63	04-73	5	6	170	PENN 80, PROD (B)					
*4124	3242	10.0	15.0	10		08-56	10-58	1	2	30	CYPRESS, PROD (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 80, PROD (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	8	7	130	SH 80, PROD (M)					
4139	3220	20.0	15.0	150	38.5	05-60		1	7	600	SH 80, PROD (M)					
*4374	3300	15.0	16.0	101	38.9	03-63	04-67	29	10	560	PENN 80, PROD (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 80 (B)					
4083	3260	13.5	15.0	8	39.5	09-71		3	4	530						*ESTIMATED SINCE 1973
	3370	7.0	12.5	55	39.5	01-66		2	4	240	PENN 80, PROD (B)					
	3395	6.5	12.5	150				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		6	7	40	GRAVEL BED (F)					*EST; INCL ALL PAYS; *OMAHA AND SPAR HYN COMING 8-56 TO 12-75; SAV 1965-74; ALL PAYS SINCE 1975
	3260	9.0	15.0	30	36.0	08-56				70						
	3275	6.0	15.0	30												
*4378	3310	21.0	18.5	51	39.5	05-63	12-65	1	1	20	PENN 80, PROD (B)					
4168	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	3	30	PRODUCED (B)					
	3310	12.5						1	2	30						
*4138	3097	10.0			37.0	01-59	06-63	2	2	40	SH 80, PROD (M)					
*4377	3240	15.0				01-63	12-66	2	2	40	PENN 80, PROD (B)					
*4189	3080	10.0			39.0	07-65	06-71	1	2	30	PENN 80 (B)					*EST 1966-70; NO DATA 1971
	3206	17.0						1	4	60						
GOLUENGATE N C WAYNE																
4062	3225	19.0				9-60		1	1	20	CYPRESS & PROD (B)					*ESTIMATED
*4051	3315	8.0				7-64	11-69	1	1	20	PRODUCED (B)					*ESTIMATED
4066	3250	15.0				07-71		4	5	100	PRODUCED (B)					*ESTIMATED SINCE 1977
HALF MOON, WAYNE																
4168	3300	10.0			40.4	12-62		6	9	470	GRAY BED, PROD (H)					*ESTIMATED
4160	3280	10.0	11.0	124	40.0	01-62		1	3	80	SH 80 (F)					
HARGO, BALINE																
3619	2900	15.0				10-69		5	15	230	PRODUCED (B)					*ESTIMATED
3613	2900	5.2	17.8	39	40.0	10-65		3	1	80	CYPRESS, PROD (B)					*ESTIMATED SINCE 1977
HAWCO E, BALINE																
*3601	2550	9.0				07-59	08-61	1	2	30	PENN 80, PROD (B)					
*3602	2850	8.0				07-59	09-62	2	9	80	PENN 80, PROD (B)					
HARRISBURG, BALINE																
*3606	2020	10.0	18.0	140	38.4	07-58	11-66	3	5	80	PENN 80, PROD (B)					
HERALD C, GALLATIN, WHITE																
1454	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	GRAY BED, PROD (H)					
4210	2325	20.0	20.0	50	37.0	01-55		4	12	200	PENN 80 (B)					*DATA FOR 1980 ONLY
*4304	2900	15.0	15.0	100	38.0	02-60	12-65	3	3	80	RIVER (F)					
4456	2680	12.0				8-76		1	6	70	PRODUCED (B)					
	2920	10.0														
1444	2315	10.0			39.0	08-69		4	5	120	CYPRESS (B)					*ESTIMATED SINCE 1973
	2950	15.0						3	15	200						
*1405	2650	12.0	15.0	80		12-57	04-69	6	15	400	CLORE, PROD (B)					*INCL PRIM PROD SINCE 12-57
*1431	2260	15.0	12.0	30	37.8	10-63	12-66	1	1	40	CLORE, PROD (B)					*INJ STOPPED 8-67
1430	2900	10.0	17.0	150	38.0	08-63		2	2	200	PALESTINE, PROD (B)					*EST, 73 THRU 79
1433	2900	9.0	12.0	37	38.0	11-63		2	6	160	PRODUCED (B)					*EST, 70 THRU 79
*4340	2870	14.0	10	35.3		02-60	12-67	4	3	250	SH 80, PROD (M)					*EST SINCE 1-62
4400	2260	11.0				10-70		2	6	100	PALESTINE, PROD (B)					*ESTIMATED
4360	1550	15.0	14.0	50		01-62		4	4	200	PENN 80, PROD (B)					
	2050	15.0														
	2280	10.0														
	2630	22.0														
	2880	14.0														
4365	2900	13.0	18.2	100	37.0	05-62		2	6	70	PENN 80, PROD (B)					*ESTIMATED SINCE 74; +INJ, OI&C, 73
*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 80, PROD (B)					*ESTIMATED

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)				
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION		
PROJECT NO., OPERATOR	U O UNIT		S = T = R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	1980	12/80
A B O				1980	12/80	1980	12/80	1980
P, M,								
HERALD C, GALLATIN, WHITE								
CONTINUED								
4355 HADON OIL CO.			4-78-9E					
4291 W. C. MCBRIDE	BAYLEY	PENN CYPRESS	3-78-9E	398		27		129
*4212 Q. S. MITCHELL	BAYLEY U	CYPRESS	2-78-9E	491		21		35
*4211 OENNIS PAINE	ACKERMAN UNIT	AUX VASES	4-78-10E	462		63		
4382 BERNARD PODOLSKY	BAYLEY UNIT	WALTERSBURG	13,24-78-9E	36	1283	1.1	206	46 744
4383 BERNARD PODOLSKY	GRANT AUX VASES UNIT	AUX VASES	43-78-9E	22	482	1.2	66	28 245
4389 BERNARD PODOLSKY	CLARK UNIT	AUX VASES	4,5,8,9-T8-10E	53	1426*	3.8	119	8 395
4428 BERNARD PODOLSKY	L.O. AUSTIN	WALTERSBURG	28-88-9E			3.3	120	40* 710*
4427 SHAKESPEARE OIL	HERALD NW UNIT	WALTERSBURG	27,28-88-9E	60*	763*	10.5*	152*	60* 623*
4348 SHAKESPEARE OIL	QUESTELL COOP	PENNSYLVNIN	11-78-9E	33	667	4.5	143*	11 154
*4364 TAMARACK PET.	HERALD U	PENN	34-68-9E,2-78-9E	343		17		17
MICKORY HILL, MARION								
*2625 EAGLE SUPPLY CO	HALFACRE	SENOIST	27-1N-4E	114		17		131
HILL E, EFFINGHAM								
1120 PARTLOW, COCHNOR	HORATH,POYNTER,GAOGEY	CYPRESS	1,12-6N-6E	25*	1529*	1.5	103	25* 1529*
1121 PARTLOW, COCHNOR	BROWN,MOO-BROWN	SPAR MTN	10,11-6N-6E	6*	3762*	0.6	254	6* 3762*
*1105 WICHITA INDUSTRIES	HILL EAST UNIT	CYPRESS	11,12,13,14-6N-6E	3185		154		1100
MORO, CLAY								
351 JET OIL CO.	CONNERLY-8CMROLL	AUX VASES	14-5N-6E	8	204	1.9	41	8 138
MORO S C, CLAY								
* 332 SMIRK, WEBSTER	SOUTH MORO UNIT	STE GEN	26,27,34,35-5N-6E	8908		748		6707
* 337 SMIRK, WEBSTER	ZINK UNIT	STE GEN	26,35-5N-6E	1571		77		462
INA, JEFFERSON								
*2008 KEWANEE OIL CO.	JEFF-KARBER-TMHEL S	RENAULT MCCLOSKEY	23-4S-2E	2317		238		2535
INGRAMAM, CLAY								
326 SUFAY OIL CO	SAILOR SPRINGS EAST U	SPAN MTN	5,6-4N-8E	15	176	4.1	42	2* 12*
* 320 HUMBLE O AND R	INGRAMAM U	SPAN MTN	4,9-4N-8E	2568		810		1543
INMAN E C, GALLATIN								
1436 AUTUMN OIL CO	EGLI	TAR SPRINGS	20,21,22,29-T8-10E	140*	2835*	8.4	341	140* 1806*
1455 JAMES BROWNING	GOPFOURTH	CYPRESS	27-T8-10E			5.6	103	25* 308*
1422 CRAWFORD PROO	BLACK	WALTERSBURG	2-88-10E		682	115*		186*
*1409 FARRAR OIL CO.	E INMAN	TAR SPRINGS	33,34-T8-10E,2,3,10-	24228		3550		
		CYPRESS	88-10E					
*1406 HUMBLE O AND R	BIG BARN	CYPRESS	11-88-10E		226		83	27
1456 MOBIL OIL CORP.	WILLIAMS	TAR SPRINGS	27-73-10E	50*	1366*	2.2	112	20* 1160*
*1420 JOE SIMPKINS OIL	HAVEN	AUX VASES	28,32-78-10E		182			
1408 TRI STAR PROO CO	WEST UNIT	PALESTINE	9,10,15,16,21,		29096*	2.1	3378	10080*
		WALTERSBURG	22-88-10E					
		TAR SPRINGS						
		MARIONBURG						
		CYPRESS						
1426 E. G. WELKER	EGYPTIAN TIE, TIMBER	WALTERSBURG	21-88-10E	515		61*		149*
		MARIONBURG						
		CYPRESS						
1407 WESTERN OILS, LTD	KERWIN-CRAWFORD	DEGONIA	11,14-88-10E	90*	2440**	8.2	2164	90* 5914*
		CLORE						
		PALESTINE						
		WALTERSBURG						
		TAR SPRINGS						
		CYPRESS						
1411 WESTERN OILS, LTD	J A WILLIAMS	TAR SPRINGS	27-78-10E	170		20		273
1429 WESTERN OILS, LTD	SOUTH INMAN UNIT	WALTERSBURG	21,22-88-10E	2467		134		1359
		CYPRESS						
INMAN W C, GALLATIN								
1410 ASHLAND O AND R	RISTER-MOYE U	TAR SPRINGS	15-88-9E	8	821	0.1	100*	8* 224*
		CYPRESS						
1440 ASHLAND O AND R	WEST INMAN U	TAR SPRINGS	11,12,14-88-9E	109	3780	10.0	378	1 1601
		MARIONBURG						
		CYPRESS						
1457 CALVERT ORLG. CO.	GAUEN	CYPRESS	15-88-9E				90	
1425 T. L. CLARK	HIGH-STAUB UNIT	BIHL	21-88-9E	20*	153*	1.7	30	20* 163*
1442 FARRAR OIL CO.	PONO U	CYPRESS	26,27-88-9E	60*	1402*	12.4	269	60* 876*
		AUX VASES						
1402 GULF OIL CO	INMAN W U	CYPRESS	15,16-88-9E	2890		425*		499*
*1403 GULF OIL CO	INMAN WU	TAR SPRINGS	13,16-88-9E					
1458 JUNIPER PETROLEUM C	RIDGWAY E UNIT	WALTERSBURG	14,22,23,27-88-9E	163	2345	8.0	452	62 1103
		CYPRESS						
1424 OIL MANAGEMENT INC	ORONE-RIDER-MINER	CYPRESS	27-88-9E		340		49*	104*
1450 OENNIS PAINE	WILLIAMS	MARIONBURG	12-88-9E			1.4	38	
		CYPRESS						
*1404 PHILLIPS PET. CO	LEVERT	CYPRESS	3-88-9E		8			
*1415 REBSTOCK OIL CO.	INMAN W	TAR SPRINGS	13,24-88-9E		1408		79	764
1427 REBSTOCK OIL CO.	SCHMITT 'A'	PENNSYLVNIN	15-88-9E	50*	3009*	3.7	56	50* 486*
1401 SABER OIL CO	BRAOLEY UNIT	BIHL	17-88-9E		512		169*	217*
1453 SHAKESPEARE OIL	RIDGWAY UNIT	CYPRESS	26-88-9E	27	5256*	3.9	468*	27 5256*
		AUX VASES						
1425 JOE SIMPKINS OIL	INMAN WEST UNIT	TAR SPRINGS	1,12-88-9E,6,T-88-10E	120*	2892*	22.8*	1431*	350** 4391**
		MARIONBURG		100*	1736*			
		CYPRESS		180*	4492*			
1449 JOE SIMPKINS OIL	NORTH INMAN UNIT	AUX VASES	31-T8-10E,6-88-10E	175*	1425*	11.0	94	175* 1425*
1451 JOE SIMPKINS OIL	DOWNEN-MURPHY	AUX VASES	1,2-88-9E	5*	270*	0.1	15	5* 270*
1400 TARTAN OIL CO.	GOESEL-MC GUIRE-RIDER	AUX VASES	19-88-10E	60*	743*	3.7	77	60* 743*
1458 V. T. ORLG. CO.	A. STAUB COMH	TAR SPRINGS	15-88-9E				35	150*
		CYPRESS						

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80		INJECTION WATER		
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE					
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	(MO)	(API)	FIRST INJ.	AND, INJ.,	NO. OF WELLS	UNDER PROO.	80-BAND	(F) FRESH	(S) BRINE	(M) MIXED	REMARKS

HERALD C, GALLATIN, WHITE CONTINUED

4355														
4401	1520	15.0	14.6	52		11-69	01-76	8	3	50	PENN SD, PROD (S)			*INJ. CURTAILED 6-75
	2700	10.0						2	3	50				
4412	2715	15.0	14.9	58	39.0	09-57	08-62	2	2	60	PALESTINE (S)			
4411	2890	23.0				02-56	01-71	1	8	30	GRAVEL BED (F)			
4388	2300	8.9	20.0	800	38.5	01-63		1	8	60	PAL SD, PROD (S)			
4383	8930	9.7	19.0	100	34.8	08-63		2	4	100	PAL SD, PROD (S)			
4389	2890	8.0	18.0	75	36.0	10-64		8	6	155	RIVER GRAV, PROD (M)			*INJ. SUBP. 10-74 TO 4-78
4428	2310	30.0				01-95		6	6	60				*ADJ. TO ACTIVE WF; *EST
4427	2320	12.0				01-71		8	5	60	PRODUCED (S)			*ADJ. TO ACTIVE WF SINCE 66; *EST
4348	1425	13.0	19.0	46	33.5	01-68		1	3	59	PENN SD, PROD (S)			*INCL PRIM PROD SINCE 1-62
4364	1550	8.0	15.1	15		01-62	12-64	3	3	180	PENN SD, PROD (S)			

HICKORY HILL, MARION

2625	8640	10.0			36.0	10-65	01-72	1	1	20	PRODUCED (S)			
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HILL E, EFFINGHAM

1120	2460	6.0				08-59		1	5	60	PRODUCED (S)			*ESTIMATED
1121	2690	6.0				01-61		1	7	170	PRODUCED (S)			*ESTIMATED
1105	2460	13.0	18.0	100	40.0	12-59	12-64	3	15	150	SH SD, PROD (M)			

MORD, CLAY

351	2710	15.0				10-65		1	2	20	PRODUCED (S)			
	2780	10.0								30				

MORU S C, CLAY

332	2790	8.6	15.0	462	36.1	09-58	06-70	3	12	340	RIVER, PROD (M)			
337	2790	5.2	15.8	835	38.0	08-62	06-70	6	4	850	RIVER, PROD (M)			

INA, JEFFERSON

2008	2640	10.0	22.0	96	37.0	12-60	18-69	3	3	180	PENN SD, PROD (S)			
	2770	8.0	13.0	25				4	3	140				

INGRAHAM, CLAY

326	2990	10.0				1-75		1	5	140	CYPRESS (S)			*ESTIMATED
320	3000	5.1	14.8	8450	38.0	12-56	12-60	9	17	897	PENN SD, PROD (S)			

INMAN E C, GALLATIN

1436	2175	12.0	18.5	325	36.8	04-64		3	4	110	SH SD, PROD (M)			*ESTIMATED
	2499	21.0	16.5	218				4	4	130				
1455	2100	18.0				7-66		6	3	30				*EST. +ADJ. TO 1411 SINCE 65
1422	1975	15.0			37.0	01-59	12-67	1	3	50	PRODUCED (S)			*1965-67 ESTIMATED
1409	2150	14.0	17.5	150	37.7	03-54	12-64	33	35	700	GRAVEL BED (F)			
	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 SD, PROD (M)			*EST. +ADJ. TO 1411 SINCE 65
1456	2100	8.0				6-65		1	1	20	PRODUCED (S)			
1420	2770	9.0	12.4	8	39.0	11-60	07-68	4	4	80	SH GRAV (F)			
1408	1750	10.0	19.0	200	36.5	07-56		17	40	60	GRAVEL BED, PROD (M)			*INJECTION DISC. 1960
	1980	15.0			37.2					160				
	2160	18.0			36.8					100				
	2200	14.0			36.5					220				
	2380	24.0			34.4					750				
1426	1986	13.0			36.0	01-59	18-68	1	2	30	SH SD, PROD (M)			*NO DATA 1967-68
	2206	13.0						1	8	30				
	2419	5.0						1	2	30				
1407	1700	7.5	18.0	100	37.5	06-55		2	3	50	SH SD, PROD (M)			*NO INJ. 1978-75; *EST SINCE 69
	1730	7.5						5	4	100				
	1830	8.5			37.8			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	07-78	1	2	30	PRODUCED (S)			*NO INJECTION AFTER 73
1489	2000	7.0	19.6	109	36.0	11-62	10-79	5	8	170	SH SD, PROD (M)			*NO INJECTION 73-76
	2380	15.0	16.6	88				2	4	60				

INMAN W C, GALLATIN

1410	2180	10.0	17.0	80		06-61	01-69	1	1	120	GRAVEL BED (F)			*FIRST DATA 66; *EST. SINCE 79
	8500	12.0	16.5	40										
1440	2185	10.0			36.0	05-65		4	2	500	SH SD (F)			
	2320	10.0												
	2516	10.0												
1457	2500	11.0				6-55	12-63	6	1	10				*EST. +ADJ. TO 1402, 03 1955-63
1428	1570	10.0	21.0	75	38.0	01-68		8	5	70	PRODUCED (S)			*EST. TEMP. ABO. 1964-1974
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 SD, PROD (S)			*INCL 1403
1403	2180	11.0	13.0		36.1	03-57	03-63	3	7	90	PENN SD, PROD (S)			*INCL WITH 1402
1438	2080	18.0				01-72		5	5	100	SHALLOW WELL (F)			
	2502	7.0			36.8	11-65								
1424	2500	8.0				06-66	12-77	4	5	110	PENN SD, PROD (S)			*ESTIMATED 1976-77
1450	2300	10.0				1-68		6	1	20				*ADJACENT TO ACTIVE WF
	2480	15.0						6	2	30				
1404	2560	6.0	18.0	100	35.0	05-57	06-59	1	1	20	PRODUCED (S)			
1415	2122	10.0			36.0	04-56	12-70	4	4	69	SH SD, PROD (M)			
1427	1666	8.0				06-60		1	4	60	SH SD, PROD (M)			*ESTIMATED
1401	1726	8.0	15.0	72	36.9	10-57	01-74	1	1	180	PRODUCED (M)			*INACTIVE 1972-73
1453	2490	8.0				05-52		1	4	40	PRODUCED (S)			*INCLUDES EST. SH 52-73
	2780	18.0								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 (S)			*ESTIMATED
1451	2810	22.0				01-68		2	1	30	PRODUCED (S)			*ESTIMATED
1400	2740	20.0				07-58		1	5	10	UNKNOWN			*EST. TEMP. ABO. 1961-1973
1458	2190	8.0				6-57	6-63	6	1	10				*EST. +ADJ. TO 1402 & 1403 1957-63
	2500	18.0						6	1	10				

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	
PROJECT NO., OPERATOR	U # UNIT		B - T - R							
A B O				TOTAL CUM.	TOTAL CUM.	TOTAL CUM.				
P, M				1980 12/80	1980 12/80	1980 12/80				
INMAN W C, GALLATIN CONTINUED										
41483 ZANETIS OIL PROP	BLATON	MARDINSBURG	11-88-9E	283		25			121	
		CYPRESS								
10LA C, CLAY, EFFINGHAM										
378 CULLUM OIL CO.	MC GEE-HOBB	AUX VABES	22-5N-5E	25	1161	1.1	64	23	1161	
1112 GETTY OIL CO	BURK ROYALTY U	SETHMEL	27,34-6N-5E	187	8221	3.8	212	357	3140	
		AUX VABES								
		SPAN MTN								
357 JARVIS BROS.	LIGGETT	AUX VABES	17-5N-5E		201		31		201	
1113 KARCHMER PIPE	ERVIN-ETCHASON	SETHMEL	34,35-6N-5E	65	1056	2.9	156	65	1056	
		AUX VABES								
1110 LAOD PETROLEUM	B MASON U	SENOIST	26,27,34,35-6N-5E	828	11462	57.0	990	531	5819	
		AUX VABES								
		SPAN MTN								
1111 LAOD PETROLEUM	KINGWOOD JARVIS U	SENOIST	34,35-6N-5E	548	12528	23.8	695	353	7574	
		AUX VABES								
		SPAN MTN								
1119 E. M. SELF	WRIGHT	AUX VABES	27-6N-5E	175	2258	7.8	170	175	2100	
		SPAN MTN								
303 SHAKESPEARE OIL	IOLA COOP	TAR SPRING	14,15-5N-5E	292	20955	10.1	1405	292	14878	
		CYPRESS								
		SETHMEL								
		SENOIST								
		AUX VABES								
322 TEXACO, INC.	IOLA COOP	SENOIST	14,15-5N-5E		1589		55			
323 TEXACO, INC.	IOLA COOP	AUX VABES	14,15-5N-5E		3363		85		4414	
338 TEXACO, INC.	IOLA S, U.	AUX VABES	22-5N-5E	112	3876	2.3	118	112	3527	
376 TEXACO, INC.	FENDER, PHATHER, SPURLN	AUX VABES	2,11-5N-5E	254	2564	4.8	137	254	2323	
		SPAN MTN								
IRVINGTON, WASHINGTON										
4020 CULLUM OIL CO.	HOLSER-MASCHOF-ERBER	CYPRESS	9,10-13-1W	80	1355	3.3	106	80	1355	
		SENOIST								
4026 E M & K OIL CO	KOELLING-STANTON	CYPRESS	23,26-18-1W	200	4650	13.6	418	200	4650	
		SENOIST								
		DEVONIAN								
		TRENTON								
4019 FEAR AND OUNCAN	RAHN-BRINK	SENOIST	14,15,22-13-1W	200	4915	8.6	325	200	4915	
4009 K W B OIL PROP.	HIGHTBROWN UNIT	CYPRESS	23-18-1W	92	1836	5.3	252	94	1723	
		SENOIST								
4002 MARK MAZZARINO	ARNING-KASTEN-HEICHM	CYPRESS	9-13-1W	195	3055	9.2	263	195	3055	
4018 FRED SEIP	TIEHAN S BUHL	SENOIST	23-13-1W	400	8855	19.3	549	400	8855	
4004 GEORGE THOMPSON	C. KOELLING	SENOIST	15-18-1W	200	3068	12.3	324	200	2628	
IRVINGTON E, JEFFERSON										
2036 N. A. BALORIOBE	WACKER-MILLER	CYPRESS	30-13-1E	25	1300	4.0	147	25	1300	
		SENOIST								
2037 MARK MAZZARINO	MAYE-B-PITCHFORD-BRESE	SENOIST	30,31-18-1E	50	890	5.0	166	50	890	
2035 E. M. SELF	KOELLING-WACKER		31-18-1E	40	1640	3.6	278	40	1640	
IUKA, MARION										
2613 TEXACO, INC.	IUKA	MCCLOSKEY	10,15-2N-4E	28	63	5.7	114	28	557	
JOHNSON N, CLARK										
204 F. A. BRIDGE OIL	BLUCK #A	CASEY	2-9N-14W		5731		247		2713	
205 F. A. BRIDGE OIL	BLOCK #B	CASEY	35,36-10N-14W		1118		59		338	
207 NATIONWIDE ENERGY	N JOHNSON	CLAYPOOL	10,11,15-9N-14W	300	21074	16.7	1140	300	16118	
		CASEY								
		PARTLOW								
211 E. A. OLDFIELD	V. JONES	CASEY	1,3-9N-14W		75		1		2	
203 TALBOTT & SONS	N JOHNSON WF	CASEY	2-9N-14W	80	5064	4.4	444	80	2600	
208 TIDEWATER OIL CO	CLARK COUNTY 1	CASEY	2-9N-14W		2418		160		1572	
JOHNSON S, CLARK										
212 ACME CASING	M E LANRISON	U PARTLOW	22,27-9N-14W		4424		163		3585	
213 ACME CASING	WEAVER-BENNETT	U PARTLOW	27-9N-14W		11359		528		9870	
209 TALBOTT & SONS	SOUTH JOHNSON (F-12)	U PARTLOW	27,34,35-9N-14W	150	73154	6.3	1730			
210 FRANCIS ZAKOWSKI	JOHNSON EXT 1, 2	CLAYPOOL	22,23,26,27-9N-14W		26084		880		19762	
		CASEY								
		PARTLOW								
JOHNSONVILLE C, WAYNE										
4195 N. A. BALORIOBE	TALBERT UNIT	AUX VABES	32-1N-6E	4	1518	0.2	108	4	564	
4182 HUFAY OIL CO.	PEARL DICKEY	AUX VABES	20,18-6E	2	13	1.6	10	2	13	
4147 FARRAR OIL CO.	JOHNSONVILLE UNIT	AUX VABES	25,36-1N-6E, 1-18-6E	150	11681	10.3	1160	150	6492	
		MCCLOSKEY								
4163 CHRIS PEARSON	LANE-WEAVER	OHAMA	9-18-6E	80	2579	4.0	255	80	2377	
4049 TEXACO, INC.	TALBERT	AUX VABES	17-18-6E		700		125		700	
4072 TEXACO, INC.	JOHNSONVILLE 8U	AUX VABES	9-18-6E	176	8966	3.9	436	172	7311	
		MCCLOSKEY								
4089 TEXACO, INC.	BIMS UNIT	AUX VABES	21,22,27,28,32,33,34-18-6E	996	17627	36.6	2793	1228	21616	
		MCCLOSKEY								
4121 TEXACO, INC.	JOHNSONVILLE U	AUX VABES	21,26,27,28,33,34,35-1N-6E, 3,4-18-6E	4016	67715	107.3	4729	3815	50583	
		MCCLOSKEY								
4122 TEXACO, INC.	JOHNSONVILLE U.	MCCLOSKEY	3,4-18-6E, 21,26,27,28,33,34,35-1N-6E		58250		289		3488	
		MCCLOSKEY								
4134 UNION OIL CALIF.	CRISP UNIT	AUX VABES	7,8,17,18-18-6E		8732		1192		4466	
JOHNSONVILLE S, WAYNE										
4172 ABMLANO O ANU R	W GEPF UNIT	AUX VABES	11,14-18-6E		3295		225		1161	
JOHNSONVILLE W, WAYNE										
4061 EGO OIL CO	ORCHAROVILLE	AUX VABES	26-1N-5E		513	0.2	24		225	
4071 EGO OIL CO	JOHNSONVILLE W WF	AUX VABES	23,24-1N-5E	346	2497	3.4	335	131	1368	
4169 FARRAR OIL CO.	W JOHNSONVILLE UNIT	MCCLOSKEY	2-18-5E, 35,36-1N-5E		2245		163		620	
4161 KIRBY PETROLEUM	W JOHNSONVILLE	AUX VABES	14,23-1N-5E		1958		347		1000	

in Illinois, 1980—continued

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER		REMARKS
FIELD, COUNTY		PERM OIL (MO)	OIL GRAV (API)	OATE FIRST INJ.	OATE AMO.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE	BU-BAND	(P) FRESH	(B) BRINE	(M) MIXED			
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)													
INMAN W C, GALLATIN																
CONTINUED																
*1423	2336	12,0														
	2510	15,0														
				01-62	1-75	1	2	30	TAR SPRINGS (B)				*ESTIMATED			
						1	2	30								
IOLA C, CLAY, EFFINGHAM																
378	2350	12,0														
1112	2290	40,4	17,3	50	37,5	06-65		1	5	60			PRODUCED (B)	*ESTIMATED UNF EFFECT SINCE 1962		
	2350	19,6	16,5	15		02-68		13	6	102			PENN 80 (B)			
	2440	6,0	16,0													
* 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)	*ESTIMATED		
	2350	15,0						2	5	70						
1110	2280	25,0				10-67		11	14	560			PENN 80 (B)			
	2350	16,0														
	2424	5,0														
1111	2280	25,0				12-67		7	10	268			PENN 80, PROD (B)			
	2350	16,0														
	2424	5,0														
1119	2360					10-69		1	5	80			PRODUCED (B)	*ESTIMATED		
	2430							1	6	80						
303	1874	8,0			32,2	01-55		8	11	20			PENN 80, PROD (B)	*ESTIMATED		
	2125	10,5	20,0	100						40						
	2250	17,3	16,0	40						120						
	2280	20,0	16,0	40						260						
	2330	20,0	14,7	80				15	18	280						
* 322	2290	9,5	15,7	80	36,0	06-58	01-68	1	2	110			PRODUCED (B)	*INCL WITH 323		
* 323	2350	13,3	15,7	80	36,0	06-58	01-68	1	1	190			PRODUCED (B)	*INCL 322		
338	2340	8,5	15,1	65	36,0	09-62		1	3	210			PENN 80, PROD (B)	*INCL PRIM PROD SINCE 1962		
376	2350	20,0				04-71		4	5	127			PENN 80, PROD (B)			
	2420	8,0														
IRVINGTON, WASHINGTON																
4020	1420	16,0				02-56		1	7	80			PRODUCED (B)	*ESTIMATE		
	1520	10,0						1	6	80						
4026	1385	18,0				7-58		1	14	40			PRODUCED (B)	*EST. *INCL PRIM SINCE 1958		
	1550	12,0						1	7	80						
4019	1530	10,0				01-56		1	14	160			PRODUCED (B)	*ESTIMATE		
4009	1425	15,0	20,0	300	37,4	09-64		3	4	30			PRODUCED (B)			
	1540	12,0	18,0	65												
4002	1400	20,0			35,0	11-57		4	15	150			PRODUCED (B)	*ESTIMATE		
4018	1530	10,0				01-56		2	12	140			PRODUCED (B)	*ESTIMATE		
4004	1531	10,8	19,0	278	37,2	02-59		2	9	200			PRODUCED (B)	*ESTIMATE		
IRVINGTON E, JEFFERSON																
2036	1760	13,0				8-65		1	6	70			PRODUCED (B)	*EST. *INCL PRIM SINCE 1966		
	1952	10,0						1	1	20						
2037	1970	7,0				6-60		1	7	80			PRODUCED (B)	*EST. *INCL PRIM SINCE 1960		
2035						6-58		1	7	80			PRODUCED (B)	*EST. *INCL PRIM SINCE 1958		
IUKA, MARION																
2613	2750	10,0			39,0	06-60		1	3	270			CYPRESS, PROD. (B)	*DATA AVAILABLE SINCE 1979		
JOHNSON N, CLARK																
* 204	450	20,0	20,8	399	33,9	04-49	01-63	27	13	125			BM 80, PROD (M)	*NO DATA 1958-1963		
* 205	480	2,0	18,3	66	33,0	05-51	12-63	18	12	80			BM 80, PROD (M)	*NO DATA FROM 5-57 TO AMO		
207	460	19,0	19,0	330		03-55		51	71	223			GRAV, PROD (M) 71	*ESTIMATE		
	530	14,0														
	595	24,0														
* 211	440	19,0	19,8	252	35,4	09-51	02-54	3	2	15			SH SANU (F)			
203	475	20,0	20,0	231	32,2	11-53		18	22	240			GRAV, PROD (M)	*ESTIMATE		
* 208	425	26,1	20,6	415	33,9	02-50	12-59	19	20	81			SH SU, PROD (M)			
JOHNSON S, CLARK																
* 212	507	33,0	18,0	277		03-55	12-70	2	2	80			GRAV, PROD (M)	*NO DATA 1968-70		
* 213	467	35,0	19,0	285		03-55	12-70	6	7	280			GRAV, PROD (M)	*NO DATA 1968-70		
209	490	48,0	18,6	319	30,5	03-49		54	62	504			GRAV, PROD (M)	*ESTIMATE SINCE 1970		
* 210	420	15,0	21,0	294		03-55	1-78	30	33	479			GRAV, PROD (M)	*ESTIMATE		
	465	20,0														
	500	30,0														
JOHNSONVILLE C, WAYNE																
4195	3120	13,0	20,7	230	37,0	01-65		5	5	110			PENN 80, PROD (B)	*ESTIMATE SINCE 1973		
4182	3054	12,0			41,0	11-78		1	4	120			CYPRESS 80, PROD (B)	*ESTIMATE		
4167	3070	17,0	19,0	90	39,2	08-62		10	11	440			CYPRESS, PROD (B)	*ESTIMATE 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)	*ESTIMATE 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		5	6	320			PRODUCED (B)			
	3100	6,0	12,0	777	37,0											
4089	3045	25,0	16,7	118	38,0	07-67		19	26	1960			PRODUCED (B)	*ESTIMATE FROM TOTAL INJECTION		
	3175	17,0	11,0	377	38,0									*INCL BOTH PAYS		
4121	3000	7,5	19,1	187	37,0	10-56		26	37	3230			PENN 80, PROD (B)			
*4122	3100	10,0	15,5		37,0	11-54	02-70	1	18	3230			CYPRESS, PROD (B)			
*4134	3019	17,0	19,0	80		11-57	05-68	10	8	360			PENN 80, PROD (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 80 (B)			
JOHNSONVILLE W, WAYNE																
4061	2890	10,0	19,4	175		09-73		2	3	40			PENN 80, PROD (B)	*INJ. 01BC, DEC. 1979		
4071	2916	7,0			38,0	08-71		3	9	160			PENN 80 (B)			
*4169	3072	11,0	13,5	200	37,0	10-63	01-72	2	4	150			PENN 80, PROD (B)			
*4161	2900	12,0	19,0	92	39,0	05-62	06-69	5	5	170			PENN 80, PROD (B)			

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBLs)					
FIELD, COUNTY	PROJECT	PRY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION			
PROJECT NO., OPERATOR	U B UNIT		S T R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	1980	12/80	1980
* ABO				1980	12/80	1980	12/80	1980	12/80
* P,M,									
JOHNSTON CITY E, WILLIAMSON									
4501 B & J RESOURCES INC.	JOHNSTON CITY E U	CYPRESS	15,16-88-3E	40*	2630*	1.8	418		
4503 C. E. BREHM	MUCK UNIT	AUX VASES AUX VASES	8-88-3E	202	1080	28.0	327	150	150*
JOHNSTON CITY N E									
4505 BUFAY OIL CO	MAKISON COAL LEASE	AUX VASES	3,4-88-3E	3	47	3.7	158	3*	43*
JUNCTION, GALLATIN									
1412 EBYELLE PRICE	JUNCTION UNIT	WALTERSBURG	16,17,20,21-98-9E		2357		303*		
JUNCTION E, GALLATIN									
1441 E.E. MORRIS	CRANE U	WALTERSBURG	36-88-9E,1-98-9E	100*	1085*	5.1	72	100*	891*
JUNCTION N, GALLATIN									
1445 T. L. CLARK	HIGH LSE	PENNSYLVANIA	33-88-9E		484		29		57*
KEENSBURG B, WABASH									
386T ALVA C. DAVIS	GARST-EPLER	CYPRESS	34,35-28-13W	80*	2098*	4.9	424	80*	1034*
3991 HERMAN LOEB	FEARHEILEY-THOM-UTLEY	PENNSYLVANIA	10-38-13W	270*	4903*	12.7	373	270*	3337*
3915 VICKERY ORLG.	A P GARST	CYPRESS	27-28-13W		297		27		60
KEENVILLE, WAYNE									
*4123 N. A. BALORIOGE	KEENVILLE UNIT	HCCLOBKY	27,28,33,34-18-5E		2137		232		1970
*4126 WALTER OUNCAN	KEENVILLE U		28,29-18-5E		1971		343		66U
KENNER, CLAY									
* 305 TEXACO, INC.	KENNER U	BENOIST	25,36-3N-5E,		4349		374		1722
* 353 TROOP DRILLING	CHASTEEN	AUX VASES BENOIST RENAULT AUX VASES	30,31-3N-6E 36-3N-5E		5363 45		117 8		127U 45
KENNER N, CLAY									
* 324 IND. FARM BUR.	THEOBALD	BENOIST	17-3N-6E		21		53		47*
KENNER N, CLAY									
* 306 PHILLIPS PET. CO	W KENNER U	CYPRESS BENOIST AUX VASES	23-3N-5E		16531		535		4799
KINCAID C, CHRISTIAN									
106 JOE SIMPKINS OIL	KINCAID U	HIBBARD	2-419-11114-16,22- 13N-3W134,35-14N-3W	2930	11731	110.5	440*	2414	6764
KING, JEFFERSON									
2016 N. A. BALORIOGE	EBER-GOFF	AUX VASES	22-38-3E		81		1		81
2017 T. L. CLARK	HANDOLPH	AUX VASES	27,34-38-3E	20*	1377**	0.9*	20U*	20*	1381**
2025 SHAKESPEARE OIL	MACE UNIT	AUX VASES	33,34-38-3E	15	318	3.4	144*	15	318
*2013 TEXACO, INC.	BAKER-BUMPHUS-SMITH	AUX VASES	33,34-38-3E		1911		62		419
LANCASTER, LAWRENCE, WABASH									
3881 NICK BASARE	SHARP WOOD	BETHEL	4-1N-13W	8*	821*	0.5	145	8*	247*
3954 HAYES-WOLFE BROB	LANCASTER UNIT	BETHEL	4,9-1N-13W133-2N-13W		5472*	2.6	1245		1431*
2255 STONE OIL CO	HELENA	SPAN HTN	16,21-2N-13W	124	1906	5.1	545	122	1049
LANCASTER E, LAWRENCE, WABASH									
3984 COY OIL CO	FRIENDSVILLE U	BIELH	25,36-2N-13W		232		17*		51*
LANCASTER B, WABASH									
*3846 HOCKING OIL	FRIENDSVILLE W UNIT	BETHEL	21,28-1N-13W		545		129		545
3916 HERMAN LOEB	LANCASTER SOUTH	BETHEL	21-1N-13W	10*	700*	0.5	122	10*	343*
LAWRENCE, LAWRENCE, CRAWFORD									
2257 ACME CASING	LEWIS	CYPRESS	24-3N-12W	200*	1850*	10.1*	165	200*	1790*
2215 ABELANO O AND R	BOLLES-WRIGHT UNIT	BETHEL	7,8,17-4N-12W	*	1589	3.9	71	12	325
2242 BALOWIN, BALOWIN	U'UONNELL	CYPRESS	17-3N-12W	121	9805*	7.3	461	7300	9216*
2291 BALOWIN, BALOWIN	CUMMINS	BRIEGEPORT	6-3N-12W	86	6726*	6.2	43U	6205	12021*
2269 FRANCIS BEARD	JENNER	CYPRESS BETHEL	36-3N-12W	100*	6674*	4.4	393	100*	3654*
*2200 CALVAN AMERICAN	PIPER	CYPRESS	2,11-4N-13W		146		6		
2229 CALVAN AMERICAN	WALLER	CYPRESS	5,6-2N-11W		824		12		144
2236 CHARLES E. CARR	L GILLESPIE	BRIEGEPORT	26,35-3N-12W	20*	9687*	1.3	863	120*	8290*
2241 CHARLES E. CARR	FYPPE	CYPRESS	6-3N-12W,1-3N-13W		50		10035*		
2244 CHARLES E. CARR	BRIEGEPORT UNIT	CYPRESS	6-3N-12W		20*	1953*			
2245 CHARLES E. CARR	S GILLESPIE	CYPRESS	26-3N-12W		20*	6409*	0.6	466	20*
2252 CHARLES E. CARR	BOWER-ROBB	CYPRESS	29-4N-12W		40*	7002*	1.4	1163	40*
2253 CHARLES E. CARR	FYPPE '39	CYPRESS	31-4N-12W		60*	3024*	2.5	224	60*
2258 CHARLES E. CARR	COOPER-OAVIS	CYPRESS	6,7-3N-12W		200*	3983*	9.5	289	200*
2270 CHARLES E. CARR	GRAY PEE W P	CYPRESS	1-2N-12W		50	2844*	2.2	427	50*
2276 CHARLES E. CARR	WITHERS-PELHAM-STATE	BETHEL	36-3N-12W		20*	2173*	0.5	166	20*
2262 NOLAN E. OUNCAN	FYPPE U	CYPRESS	36-4N-13W		20*	1554*	93*		518*
2205 WALTER OUNCAN	L.C. OAVIO	CYPRESS	8-3N-11W		42	1596	1.4	94	42
*2206 T. W. GEORGE EST.	KLONDIKE WF	BETHEL	25,26,33,36-5N-13W		56				8
2261 FRANCIS GILLESPIE	BUCHANAN,BHEEN,RIDGLY	BRIEGEPORT	10,11-2N-12W	45*	990	10.98	122	45*	3338*
*2280 GULF OIL CO	H E GRIGGS	BIELH	18-3N-12W		245		6		2
2240 MICHAEL HUDDLESTON	VANDERMARK-ALBRECHT	BENOIST BRIEGEPORT	34-3N-12W	250*	4682*	6.5	489	250*	3017*
*2224 ILLINOIS OIL CO.	FINLEY U	CYPRESS BETHEL	25-3N-12W		748		38		652

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER			REMARKS
FIELD, COUNTY		PROJ. NO.	DEPTH (FT)	NET PAY (PT)	POR (%)	PERM (MO)	OIL GRAV (API)	DATE FIRST INJ.	DATE ASO.	NO. OF WELLS	ACRES UNDER INJ.	80-SAND	GR-GRAVEL	SH-SHALLOW	(F) FRESH	(S) BRINE	
JOHNSTON CITY E, WILLIAMSON																	
4501	2300	20.0	14.8	80				02-67		4	5	90	CYPRESS 80 (M)				*ESTIMATED SINCE 1977
	2580	6.0	12.2	14						2	5	70					
4503	2580	19.0	16.0		39.0			8-75		2	4	100	PENN 80 (S)				*FROM 1980 ONLY
JOHNSTON CITY N E																	
8505	2824	22.0			40.0			2-71		1	4	50	PRODUCED (M)				*ESTIMATED
JUNCTION, GALLATIN																	
*1412	1720	14.0	16.0	22	36.0			05-51	04-71	5	6	110	SH 80 (F)				*EST 1965-66; NO DATA 1967-71
JUNCTION E, GALLATIN																	
1481	2000	15.0	17.0	50				03-68		4	5	100	PENN 80, PROD (M)				*ESTIMATED SINCE 1971
JUNCTION N, GALLATIN																	
*1445	1560	7.0						09-70	10-78	1	3	40	SHALLOW 80 (F)				
KEENSBURG S, WABASH																	
3867	2398	12.0			37.8			10-64		3	4	90	SH 80, PROD (M)				*EST. SINCE 79
3991	1181	13.0	15.0	42	32.5			12-62		5	9	130	SH 80, PROD (M)				*ESTIMATED SINCE 1971
*3915	2403	15.0	20.6	138	37.5			11-54	12-59	1	1	60	SH GRAY (F)				*ESTIMATED
KEENVILLE, WAYNE																	
*4125	3100	9.0			40.0			11-56	03-66	3	12	220	SH 80, PROD (M)				
*4126	2950	13.0	20.0	155	39.0			04-58	11-61	3	9	120	SH 80 (F)				
KENNER, CLAY																	
* 305	2700	14.0	15.6	54	36.0			06-59	12-74	23	24	480	PENN 80, PROD (S)				
	2800	21.0	17.0		36.0			06-59	10-67	1	8	270					
* 353	2719	29.0			35.8			08-63	07-68	1	1	20	PRODUCED (M)				
	2774	18.0								1	1	20					
	2831	13.0								1	1	20					
KENNER N, CLAY																	
* 328	2750	10.0	17.0	40	36.0			10-58	12-63	1	3	30	PRODUCED (M)				*ESTIMATED
KENNER W, CLAY																	
* 306	2600	13.0			37.5			02-52	06-68	11	15	280	PRODUCED (M)				
	2720	14.0								6	11	200					
	2800	16.0								1	5	70					
KINCAID C, CHRISTIAN																	
106	1860	10.0						10-74		42	69	2200	PRODUCED (S)				*INCLUDES PHM PROD
KING, JEFFERSON																	
*2016	2700	7.0						01-63	11-68	1	3	40	PRODUCED (M)				*WATER INJ INEFFECTIVE
*2017	2700	20.0						06-64		3	5	80	CYPRESS, PROD (S)				*EST SINCE 1967; *INACTIVE 1974
*2025	2700	10.0	12.0	16				11-64		2	2	20	PRODUCED (M)				*INCL PHM PROD
*2013	2735	11.0			37.0			05-61	02-70	3	2	160	PRODUCED (M)				
LANCASTER, LAWRENCE, WABASH																	
3881	2580	21.0	17.0	65	37.5			07-64		2	3	40	PRODUCED (M)				*ESTIMATED SINCE 1971
3954	2500	16.0			34.0			12-58		21	34	500	SURF PUMPS, PROD (M)				*INJ. U.I.S.C. 1977
2255	2720	7.0						07-71		5	8	300	PENN 80 (S)				
LANCASTER E, LAWRENCE, WABASH																	
*3984	1780	9.0			30.6			01-71	01-75	1	2	30	SHALLOW SAND, PROD. (M)				*ESTIMATED
LANCASTER S, WABASH																	
*3846	2495	13.0						11-73	12-79	1	6	70	PRODUCED (S)				
3916	2520	10.0			36.0			01-55		2	6	80	PRODUCED (M)				*ESTIMATED
LAWRENCE, LAWRENCE, CHAMFORD																	
2257	1580	20.0						06-67		9	7	180	PENN 80 (S)				*ESTIMATED
2215	1680	10.0	15.0	20	38.0			07-66		7	7	120	PUNCAHEU (F)				*INJECTION DISCONTINUED 12-78
2242	1500	28.0	16.7	15	38.0			04-59		7	15	160	BUCHANAN, PROD (M)				*EST. 1976-79
2291	980	30.0						01-58		5	12	80	PRODUCED (S)				*EST. 1976-79
	1440	30.0										80					
2269	1540	25.0	15.0	30				11-62		11	10	100	GRAY, PROD (M)				*ESTIMATED
	1620	25.0	15.0	30						11	10	100					
*2200	1520	25.0	20.8	33	38.6			12-53	06-56	4	2	60	SH SU (F)				
*2229	1535	50.0	18.5	70	39.5			03-53	11-55	8	8	160	SH GRAVEL (F)				*ESTIMATED
2236	990	30.0	19.3	200	37.0			11-58		16	10	100	GRAY BED, PROD (M)				*ESTIMATED
	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 SU, PROD (S)				*ESTIMATED
2244	1575	25.0	18.0	80	38.0			06-59		9	10	150	PENN 80, PROD (S)				*ESTIMATED
2245	1550	28.0	17.0	35	39.0			10-60		8	6	50	HIVEN, PROD (M)				*ESTIMATED
	1660	10.0	16.5	25	39.0					8	6	50					
2252	1320	20.0	19.0	120				08-58		4	6	60	PENN 80, PROD (S)				*ESTIMATED SINCE 1971
2253	1420	20.0	20.0	80				12-56		3	4	40	PENN 80, PROD (S)				*ESTIMATED
2256	1620	15.0						06-63		3	5	90	PENN 80, PROD (M)				*ESTIMATED
*2270	1585	25.0			37.0			07-61	07-74	3	5	60	SH 80, PROD (M)				*ESTIMATED
	1670	10.0								3	5	60					
2276	1568	20.0	16.9	41	38.5			02-63		8	8	80	SH SU, PROD (M)				*ESTIMATED SINCE 1970
	1690	12.0	15.0	17						8	8	80					
2262	1650	25.0	18.0	130				12-60		1	2	20	PENN 80, PROD (S)				*ESTIMATED
*2205	1600	6.0						08-56	09-58	1	1	20	RIVER GRAVEL (F)				
*2206	1625	18.0	17.2	80	37.8			06-52	12-60	84	36	750	SH SU, PROD (M)				*ESTIMATED
2261	980	18.0						6-63		5	10	150	PENN, PROD (M)				*ESTIMATED; *INCL BOTH PAYS
	1220	12.0						4-73									
*2280	1586	16.0	16.7	21	38.0			04-63	12-67	1	1	10	PRODUCED (S)				
	1746	12.0	16.0	27						1	1	10					
2240	986	28.0	21.0	398	29.5			08-58		3	7	70	LAKE, PROD (M)				*ESTIMATED
	1688	15.0			39.8					1	3	40					
*2228	1600	12.0	17.0	50	36.0			01-67	01-72	3	8	80	SH WELL (F)				
	1700	8.0	15.0	35						1	3	80					

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION		WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION			
PROJECT NO., OPERATOR	U • UNIT		S • T • R		TOTAL • CUM.	TOTAL • CUM.	TOTAL • CUM.	1980 • 12/80	1980 • 12/80	1980 • 12/80
• ADD					1980 • 12/80	1980 • 12/80	1980 • 12/80	1980 • 12/80	1980 • 12/80	1980 • 12/80
• P.M.										
LAWRENCE, LAWRENCE, CRAWFORD CONTINUED										
2225 ILLINOIS OIL CO.	GEE-IRWIN U	CYPRESS	36-3N-12W		49*	724*	2,0	51	45*	676*
		BEYHEL								
2226 ILLINOIS OIL CO.	OINING MEINS	MCCLOSKEY	36-3N-12W		60*	1262*	3,1	119	60*	1355*
		CYPRESS								
2210 K W B OIL PROP, MONTREAL		BEYHEL	29-4N-12W		388	9725	11,4	914	336	6769
		BRIDGEPORT								
		JACKSON								
		CYPRESS								
2219 K W B OIL PROP, MONTROGERS		BEYHEL	14-3N-12W		85	2134	3,0	246	91	1925
		CYPRESS								
2254 K W B OIL PROP, MONTOLRYMPLE		BEYHEL	29-4N-12W		131	5682	3,5	530	121	4053
		JACKSON								
		CYPRESS								
		BEYHEL								
2285 K W B OIL PROP, MONTMINKLE		BRIDGEPORT	26-3N-12W		243	4027	5,6	510	246	4236
		BEYHEL								
		CYPRESS								
2211 LAWRENCE OIL CO.	STOLTZ	BRIDGEPORT	32-4N-12W		70*	15099*	2,8	1084	70*	8711*
		CYPRESS								
2281 JENNY LEE OIL CO	CALVERT-MUSGRAVE	BRIDGEPORT	3-3N-12W			7*				
2273 HERMAN LOES	LOES AND MCPHERSON	CYPRESS	14,15,22-3N-12W		75*	3655*	3,6*	363*	75*	2249*
		BEYHEL								
2275 HERMAN LOES	BURNS, GRIIGGS, ZELLARS	BRIDGEPORT	8-3N-12W		300*	11142*	13,3	643	300*	6238*
		CYPRESS								
2222 O. LOEFFLER ESTATE, MCCROSSKEY MRS		CYPRESS	25-3N-12W		80*	1208*	3,6*	104*	80*	1176*
		BEYHEL								
2272 U. LOEFFLER ESTATE, BUNKER MILL U		BRIDGEPORT	12-2N-12W		80*	3856*	2,6*	185*	80*	1907*
		BEYHEL								
2208 MARATHON OIL CO.	CRUMP #40*	CYPRESS	19-4N-12W			262*		283		3228
2209 MARATHON OIL CO.	CRUMP UNIV	CYPRESS	31-4N-12W			236*		173		1749
2213 MARATHON OIL CO.	1Y PROJECTS*	JACKSON	73,4N-R12,13W		15228	436262	569,2	52186	18951	332246
		CYPRESS								
		BEYHEL								
		BRIDGEPORT								
2214 MARATHON OIL CO.	9 PROJECTS*	BRIDGEPORT	Y 3,4N R 12,13W		13488	261346	726,1	22333	17888	221249
		BEYHEL								
2216 MARATHON OIL CO.	4 PROJECTS *	MCCLOSKEY	T 3,4N N 12,13W		1929	68385	77,4	5098	1908	47739
		BEYHEL								
2234 MARATHON OIL CO.	ST LOUIS WF 11-M	ST LOUIS	30-4N-12W		55	532	1,3	Y	19	58
2242 MARATHON OIL CO.	MARIONSBURG WF 3Y-M	MARIONSBURG	27,34-3N-12W		174	3651	10,6	631	271	2430
2279 MARATHON OIL CO.	HIOGLEY 41-P	HIOGLEY	26,34,35-3N-12W		293	9174	21,8	1314	412	6696
2294 MEPCO, INC.	GEE MRS	CYPRESS	19-3N-11W/24-3N-12W		86	281	5,5	19	84	219
*2204 W. C. MCBRIE	APPLGATE	JACKSON	7-4N-12W, 12-4N-13W			4488		228		3476
		CYPRESS								
		MCCLOSKEY								
*2249 W. C. MCBRIE	MINKLE	MCCLOSKEY	26-3N-12W			175		24		223
*2251 W. C. MCBRIE	COMBS	CYPRESS	20-4N-12W			774		65		339
		BEYHEL								
2203 MISSY OIL CO	BRIDGEPORT S U	BEYHEL	19-3N-12W		75*	2031*	6,2*	179*	75*	931*
2202 NATIONWIDE ENERGY	GRAY AREA	JACKSON	13,14-4N-13W		50*	8222*	3,3	749	50*	5805*
		BEYHEL								
		BRIDGEPORT								
2266 NATIONWIDE ENERGY	KIRKWOOD-MCPHERSON	CYPRESS	11,12,13,14-3N-12W		140*	3690*	9,7*	291*	140*	3630*
2243 OILFIELD ORLG.	BELL UNIT	CYPRESS	1-3N-13W			2429		172*		998*
2271 DAVID PHILLIPS	BRUNSON-PAYNE-FAIM	CYPRESS	18,19-3N-11W		90*	715*	4,2*	47*	90*	880*
2274 BERNARD PODOLSKY	GILLESPIE AND CALVERT	CYPRESS	15,22-3N-12W			1227*	2,4	186	1	586
2232 A. BRANUT POWELL	STOLTZ MEINS	JACKSON	29-4N-13W		100*	1979*	6,2 *	359	50*	967*
		CYPRESS								
		BEYHEL								
*2230 HEE, INC.	SNYDER	CYPRESS	30-3N-11W			16		1		69
2222 MURBERT ROSE	LEIGHTY	CYPRESS	32-3N-11W			117		2*		117*
*2217 SHAKESPEARE OIL	S B *OPRY U C MILLER C	BEYHEL	20,29,30-3N-12W			4902		536		2057
2288 JOE SIMPKINS OIL	COLLINS SCML	CYPRESS	6-2N-11W/31-3N-11W/		60*	1850*	3,4*	126*	60*	1555*
		SAMPLE	1-2N-12W							
2202 WAYNE SMITH, OP.	C M PERKINS	BRIDGEPORT	32-4N-12W		104	17830	4,4	900	99	6519
		CYPRESS								
2220 WAYNE SMITH, OP.	SUCHANAN	CYPRESS	7-3N-12W		127	3981	3,4	474	124	1377
		BEYHEL								
		BRIDGEPORT								
2221 WAYNE SMITH, OP.	USCAR LEIGHTY	CYPRESS	31-3N-11W			2020*	1,0	77		2108*
2233 WAYNE SMITH, OP.	PEPPL	CYPRESS	30-4N-12W			9826*	0,7	997		8937*
		BEYHEL								
2238 WAYNE SMITH, OP.	L M BEEO	CYPRESS	21-3N-12W			3391*		15*		2359*
2256 WAYNE SMITH, OP.	BREEN	CYPRESS	24,25-4N-13W			2606*	0,4	178		1027*
		BEYHEL								
2259 WAYNE SMITH, OP.	WMITTAKER AREA	CYPRESS	2,10,11-3N-12W		120	11948	6,7	1498	112	5942
		BEYHEL								
2260 WAYNE SMITH, OP.	E J BEEO	JACKSON	15,16,22-3N-12W		25	2305	8,3	207	17	1211
		CYPRESS								
2265 WAYNE SMITH, OP.	PIPER-ORULL AREA	JACKSON	1,2,11,12-4N-13W		400	15418	10,7	1822	389	8306
		CYPRESS	35,36-5N-13W							
		BEYHEL								
		BRIDGEPORT								
2272 WAYNE SMITH, OP.	MAYNARD AREA	BEYHEL	25,26-3N-12W		37	3044	7,0	694	30	2295
		CYPRESS								
*2286 WAYNE SMITH, OP.	SUCHANAN AREA	BRIDGEPORT	2-2N-12W			190		1		2
*2289 WAYNE SMITH, OP.	W.F. GOULD UNIT	CYPRESS	31-3N-12W			1930		5		1539
*2223 TEXACO, INC.	LAWRENCEVILLE FEE	CYPRESS	7,18-3N-11W			524		13		134
2239 ZANETIS OIL PROP	WAYNE MEINS	AUX VASES	28-3N-11W		16	380	2,2	50	16*	380*
		MCCLOSKEY								
*2264 ZANETIS OIL PROP	CASSIL	CYPRESS	36-4N-13W			62		57		197
2262 ZANETIS OIL PROP	CARLSON	SUCHANAN	15-3N-12W		307	4495	11,5	380	307*	4495*
		CYPRESS								
		BEYHEL								
		MCCLOSKEY								
2283 ZANETIS OIL PROP	MUDBON WF	CYPRESS	18-3N-11W			718		47*		718*

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER		REMARKS
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	SO-SAND	(F)FRESH							
PROJ. NO.	DEPTH (FT)	NET PAY (PT)	FOR (%)	(MO)GRAV (API) INJ.	FIRST ABO.	WELLS	UNDER INJ.	PRODUCED	(S)BRINE (M)MIXED							
LAWRENCE, LAWRENCE, CRAWFORD CONTINUED																
2225	1530	20.0	14.0	100	36.0	02-67	1	1	20	PRODUCED (S)	*ESTIMATED SINCE 1972					
	1630	15.0	14.0	50			1	1	20							
	1780	10.0	15.0				1	1	20							
2226	1550	12.0	18.0	100		12-65	1	2	20	PRODUCED (S)	*ESTIMATED SINCE 1972					
	1650	10.0	14.0	70			1	2	20							
2210	970	15.0	20.0	200		05-56	9	9	80	PENN 80, PROD (S)						
	1330	6.0	18.0	40												
	1390	23.0	19.0	20												
	1470	18.0	17.0	20												
2219	1530	12.0	16.0	30		08-66	5	9	80	PENN 80, PROD (S)						
	1620	10.0	15.0	20												
2254	1450	6.0	19.0	80		03-68	3	5	65	PENN 80, PROD (S)	MUST OF THE WATERFLOOD EFFECT HAS BEEN IN JACKSON AND CYPRESS					
	1500	20.0	19.0	80		09-59										
	1575	10.0	16.0	35		09-59										
	1650	13.0	15.0	25		09-59										
2285	1000	10.0	16.0	100		11-63	6	9	80	PENN 80, PROD (S)						
	1550	17.0	14.0	50												
	1660	12.0	15.0	20												
2211	860	25.0	22.3	15	37.0	01-55	10	8	25	GRAV, PROD (M)	*ESTIMATED SINCE 1968					
	1400	18.5	17.3	18	37.0		4	8	25							
2281	1019	15.0				06-62	1	2	30	SH 80, GRAVEL (F)	*NO DATA SINCE 1965					
2273	1535	15.0	14.5	40	30.0	12-62	7	8	180	BUCHANAN, PROD (S)	*ESTIMATED SINCE 1972					
	1650	10.0	14.0	15			6	5	120							
2275	850	20.0	21.0	131	30.9	11-56	4	6	50	BUCHANAN, PROD (S)	*ESTIMATED SINCE 1969					
	1440	20.0					5	7	60							
2227	1600	15.0	14.0	75	36.0	01-66	1	2	10	PRODUCED (S)	*ESTIMATED SINCE 1972					
	1725	10.0	15.0	50			1	2	10							
2277	975	10.0	19.0	350	35.0	02-64	1	2	40	SH 80 (F)	*ESTIMATED SINCE 1972					
	1775	8.0	14.0	25	38.0		4	7	100							
2208	1280	25.0	20.0	90		04-56	4	4	40	PENN 80, PROD (S)	*INCL WITH 2213 SINCE 1979					
2209	1420	22.0	20.0	80		12-56	5	4	40	PENN 80, PROD (S)	*INCL WITH 2213 SINCE 1979					
2213	1375					01-52	488	564	2130*	PROD, FRESH W&W (M)	*JUDY, HESTALL, KING, BUTTON, KIMMEL BOYO, HIOUAH, NEWELL, MOORE, THORN GOULO, SEED, GRAY, RYAN, LEIGHTY, JENNER, WISE-GRAY, INCL 2208, 2209 *ROBINS, JOHNSON, KLINGLER, COOPER, *BALTZELL, LEWIS, CLANK, FINLEY, GEE *APPLEGATE, WILLIAMS, GILLESPIE, VANDERMARK					
	1430	10.0							5600*							
	1530	10.0							2400*							
	1600	8.0							300*							
2214	800	30.0			35.6	08-48	468	478	2096	GRAV, PROD (M)						
2216	1700	20.0	1500			11-56	26	52	1637	GRAV, PROD (M)						
2234	1950	30.0				12-75	1	4	40	PRODUCED (S)						
2247	1350	13.0				09-71	7	11	290	PROD & FRESH (M)						
2279	1230	14.0	17.0	400		08-64	15	29	584	GRAV, PROD (M)						
2294	1625	15.0				6-76	4	8	200	PRODUCED (S)						
*2204	1240	10.0	19.0	80	34.7	09-52	12-67	15	16	180	GRAV, PROD (M)					
	1350	15.0	17.0	30				8	8	60						
	1635	5.0	23.0	40				10	10	40						
*2249	1775	15.0	20.0	175		08-59	01-66	1	4	40	PENN 80, PROD (S)					
*2251	1450	20.0	18.0	50		03-59	02-71	1	1	60	PENN 80, PROD (S)					
	1630	10.0	12.0	10			07-66	2	2	20						
2203	2000	18.0	17.5	45	37.0	09-70	4	10	110	PENN 80 (S)	*ESTIMATED					
2207	1412	8.0	13.5	9		05-53	10	10	200	BRIDGEPORT, PROD (M)	*ESTIMATED					
	1577	11.0	21.0	40			10	10	200							
	1622	16.0	18.5	46			8	7	150							
2266	1540	20.0				10-64	6	17	280	SH 80, PROD (M)	*ESTIMATED					
*2243	1650	20.0	18.0	80	38.0	06-59	03-66	2	1	80	PENN 80, PROD (S)	*1966 DATA ESTIMATED				
2271	1560	16.0				10-69	3	11	130	SH 80, PROD (M)	*ESTIMATED					
2274	1590	14.0	14.5	40	30.0	11-62	4	7	100	BUCHANAN, PROD (S)	*INJ, CURTAILED MARCH 1974					
2237	1460	6.0	20.0	85	38.0	07-58	1	2	30	PENN 80, PROD (S)	*ESTIMATED					
	1550	14.0					3	8	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 (S)					
*2222	1610	9.0			36.0	02-66	07-74	1	2	30	PENN 80, PROD (S)	*EST. 1968-1971 INJ. SUBP. 1972				
*2217	1800	12.1	17.1	70	38.0	10-56	12-66	20	18	313	TAR SPRINGS (S)					
2288	1550	15.0				01-69	17	20	350	PENN 80, GRAV (M)	*ESTIMATED					
	1620	10.0					19	25	450							
2202	900	14.0	18.0	125	36.0	02-55	8	9	100	BUCHANAN 80, PROD (S)						
	1350	20.0	18.0	100												
2220	1570	28.0	17.9	64	37.0	12-65	4	4	110	GRAVEL BED (F)						
	1670	9.0	15.9	37												
	1730	9.0	12.5	2												
2221	1650	15.0	16.5	50	39.0	01-66	0	7	60	RIVER GRAV, PROD (M)	*INJ. SUBP. 1-78					
2233	1400	30.0	18.0	75	37.0	06-57	2	1	130	BUCHANAN 80, PROD (S)	*INJ. DISC. 1976					
	1650	20.0	14.0	10	39.2				50							
2238	1630	22.0	74.0	18	33.0	03-67	3	1	20	SH 80 (F)	*INACTIVE SINCE 7/81 INJ SUBP 79					
2256	1530	20.0	16.0	47	37.0	05-60	2	1	70	BUCHANAN 80, PROD (S)	*INACTIVE SINCE 1976					
	1675	20.0	12.0	5	37.0											
2259	1520	20.0	18.0	35		11-60	11	18	650	RIVER, PROD. (M)						
	1630	15.0														
2260	1500	5.0				02-61	4	6	40	SH 80 (F)						
	1590	14.0														
2265	1310	12.0	14.0	30	38.0	12-61	23	23	500	RIVER, PROD (M)						
	1400	10.0	18.0	35	38.0											
	1525	6.0														
	1585	5.0														
2272	1575	25.0	16.0	20	39.5	12-63	6	16	120	BRIDGEPORT, PROD (S)						
	1650	14.0														
*2286	950	40.0	19.0	100	31.0	07-63	02-66	2	2	40	SH 80 (F)					
*2289	1590	20.0	19.0	75	30.0	09-65	06-70	8	8	180	PENN 80, PROD (S)					
*2223	1360	10.0	17.0	20	37.0	02-70	06-73	4	6	160	PROD, SUPPLY (M)					
2239	1838	8.0	20.0	2	38.5	03-65	1	4	50	PRODUCED (S)						
	1919	5.0	15.0	23												
*2264	1640	19.0			38.6	09-62	12-66	1	3	40	SH 80, PROD (M)					
2262	1300	15.0				04-71	6	9	80	PRODUCED (S)	*ESTIMATED					
	1516	31.0	14.0	14	36.7	07-64										
	1622	22.0														
	1770	5.0	15.0	2												
*2283	1597	18.0	20.8	121	36.1	05-64	1-77	3	5	40	PRODUCED (S)	*ESTIMATED 1975-76				

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION				
PROJECT NO., OPERATOR	U * UNIT		S - T - R	TOTAL * CUM,	TOTAL * CUM,	TOTAL * CUM,				
* = A,B				1980 * 12/80	1980 * 12/80	1980 * 12/80				
* = P,M,										
LAWRENCE, LAWRENCE, CRAWFORD CONTINUED										
2292 ZANETIS OIL PROP	W.M., & GILLESPIE	BUCHANAN	15-3N-12W	244	2261	6.1	425*	244	1986	
LAWRENCE W. LAWRENCE										
2230 ACME CABING	B SUMNER UNIT	BETHEL	14,23,24-3N-13W		1191		186		285	
2235 N. A. BALORIOGE	LAWRENCE WEST	BETHE	23,24,25-3N-13W	35*	365*	1.7	25	35*	365*	
LEXINGTON, WABASH										
3850 MOCKING OIL	LEXINGTON U	MCCLOCKY	26-18-14W	151*	2743*	2.8*	69	151*	911*	
LILLYVILLE, CUMBERLAND, EFFINGHAM										
704 GALLAGHER DRILLING	KROGHAN	MCCLOCKY	31-9N-7E	140	2639*	5.4	31U*	70	961*	
LIVINGSTON, MADISON										
2500 WILLIAM M. KROMM	KROGER	PENN	17-6N-6W		67		3			
2501 M. W. MCCONNELL	C. AND O. MENKE UNIT	PENN	17,20-6N-6W		104		25			
2502 CHARLES P. WOOD	KROGER	PENN	17-6N-6W		37*		3*			
LIVINGSTON B. MADISON										
2509 HOWARD CLEFF	BEST-KERIN-LEITCH	PENN	27,38-6N-6W	100*	1145*	5.3*	92*	100*	995*	
2507 FAIRFIELD OIL CO	BLOM-FOHLER-RUEHRUPPU	PENN	27-6N-6W	15	764	5.3	115	3	27	
2508 R. L. GROSSMAN	QUADE-REPOUSCH	BETHEL	21,22-6N-6W	50*	815*	2.2	52	50*	735*	
LOCUST GROVE, WAYNE										
4085 ZANETIS OIL PROP	DAUB B	AUX VABEB	31-1N-9E		399*		25*		150*	
LOUDEN, EFFINGHAM, FAYETTE										
1232 N. A. BALORIOGE	LOUDEN **	CYPRESS	77,8N-R3,4E	200*	2572*	44.4	392	200*	2900*	
1230 BANGER ENG	BINCLAIR	BETHEL	29-8N-3E	105	5370	10.3	772	105	5308	
1243 BANGER ENG	WELKER	CYPRESS	31-7N-3E	52	1862	6.1	662	52	4597	
*1201 W. L. BELDEN	MINTON U	CYPRESS	32-7N-3E		100		11			
1202 W. L. BELDEN	UNIT 25	CYPRESS	24,25-8N-3E	104	7176	2.8	602*	104*	6774*	
1209 W. L. BELDEN	B. P. OWENS	CYPRESS	9-7N-3E		757*		3.7	243	70*	1420*
1213 W. L. BELDEN	E.C. SMITH	CYPRESS	2U-7N-3E	136	1941	5.0	864	136*	2669*	
1226 W. L. BELDEN	BATHER	CYPRESS	16,17-7N-3E	111	1988	17.4	443	111*	1452*	
1203 O. L. BURTSCHI EST.	O.L. BURTSCHI U	CYPRESS	18-7N-3E	25	1331	3.4	235	25	811	
1207 REVIS D. CALVERT	MOHAN	CYPRESS	29,31,32-7N-3E		16305	1.9*	1963*	20*	12029*	
1215 REVIS D. CALVERT	KOBERLIEN	CYPRESS	30-7N-3E		2786*		515		1870*	
1233 REVIS D. CALVERT	BAPP	CYPRESS	18-7N-3E	10*	1896*	0.5*	161*	10*	728*	
1255 OORAN OIL PROP.	J.W. ARNOLD	CYPRESS	19-7N-3E	65*	185U*	3.2	120*	65*	1850*	
1204 EXXON	LOUDEN	CYPRESS	T 7,8,9N-R 2,3,4E	4TUTO	1067888*	1182.3	136078*	36626	655699*	
BETHEL BENDIST AUX VABEB										
1216 FRY OIL CO	RMUDEB-WATSON	BETHEL	27,33,34-8N-3E	160*	7285*	5.1*	1126**	160*	5447*	
BETHEL BENDIST										
1206 GENERAL AMERICAN	UEVONE COOP	CYPRESS	1-7N-2E	183	2958	4.3	400	183	2838	
1254 TOM GRACE	BAIL-LONG	CYPRESS	15-7N-3E	30*	835*	1.4	45*	30*	835*	
1205 L. B. HOBB TRUST	STEWART AND DIAL	CYPRESS	6-7N-3E	23*	1115*	1.1	124	23*	459*	
1225 L. B. HOBB TRUST	EMERSON	CYPRESS	31-8N-3E	6*	134*	0.2	12	6*	215*	
1235 L. B. HOBB TRUST	M. LOGUE	CYPRESS	18-7N-3E	15*	870*	0.7	41	15*	543*	
BETHEL BENDIST										
1241 L. B. HOBB TRUST	ARNOLD-MURBN-BEALOCK	CYPRESS	19-7N-3E	35U*	5919*	24.4	798	35U*	5762*	
1242 L. B. HOBB TRUST	LAURA LOGUE	CYPRESS	18-7N-3E	28*	406*	1.2	71	28*	406*	
1248 L. B. HOBB TRUST	RMUDEB	CYPRESS	18-7N-3E	80*	1381*	3.2	404	80*	1487*	
*1249 L. B. HOBB TRUST	BUZZARD	CYPRESS	3-7N-3E		194		194		1850	
1210 R. L. HOBB	YOLTON	CYPRESS	12-7N-2E/17-7N-3E	140**	5331**	6.9*	832*	140**	4024**	
BETHEL BENDIST										
1228 R. L. HOBB	SMITH	CYPRESS	13-7N-2E	40*	2301*	1.8*	229*	40*	1766*	
1232 HUGHES PROU.	HOPPER-TOWNSEND-HCLRY	CYPRESS	12-7N-2E	133	3384	7.4	693	277	4234	
**1223 HUMBLE O AND R	LOUDON DEVUNIAN*	GENEVA	2,10,11,15,20,21,22,27,28,29,32,33-8N-3E		207361		19241		184970	
BETHEL BENDIST										
*1208 JARVIS BROB.	YAKKY	CYPRESS	6-7N-3E		2832		286		1923	
BETHEL BENDIST										
*1234 KINGWOOD OIL CO.	WELKER	CYPRESS	13-7N-2E		115		2		23	
1214 KOONS & FRANK EXPL	MOHAN	CYPRESS	29-7N-3E	70*	4916*	3.4	597	70*	5067*	
1247 KOONS & FRANK EXPL	KIMKELL-GOOD	CYPRESS	19-7N-3E	110*	5134*	10.8	630	110*	4798*	
1236 M-B-C- CORP	D.L. BURTSCHI	CYPRESS	18-7N-3E	140*	2708*	8.0	331	140*	2362*	
BETHEL BENDIST										
1237 M-B-C- CORP	BEPTON	CYPRESS	1,12-7N-2E	100*	1774*	6.0	322	100*	2148*	
1224 MOBIL OIL CORP.	LOUDEN	CYPRESS	5-7N-3E, 32-8N-3E	1661	39303	39.1	5329*	2046	33576	
BETHEL BENDIST										
1227 MOBIL OIL CORP.	BUZZARD BROB.	CYPRESS	29-8N-3E	81	2884	4.4	252*	99	2411	
BETHEL BENDIST										
*1217 UGOCO, INC.	STOKES-WEILER	CYPRESS	14-8N-3E		2610		429		1255	
1212 SHULMAN BROTHERS	LOUDEN EXTENSION	CYPRESS	34,35,36-8N-3E, 2,3-7N-3E		35840		3208		23587	
BETHEL BENDIST										
1229 TEXACO, INC.	LOUDEN SOUTH UNIT	CYPRESS	6,7-6N-3E/31-7N-3E	1760	33734	44.3	2376*	1574	32477*	
1244 TEXACO, INC.	LILLY	CYPRESS	16-8N-3E	304	4498*	23.8	115U	386	4221*	
BETHEL BENDIST										
1108 TRI STAR PROD CO	LOUDEN EXTENSION	CYPRESS	19-8N-4E		891**	13.8	138	30*	481*	
1200 TRI STAR PROD CO	RMUDEB, MCCLOY	CYPRESS	26,27,34-8N-3E		1959**	2.0	99	40*	1771*	
BETHEL BENDIST										
1218 TRI STAR PROD CO	N. LOUDEN U	CYPRESS	20,21-7N-3E		19118**	2.3	1629	100*	14621*	
1219 TRI STAR PROD CO	S. LOUDEN U	CYPRESS	21,28,29-7N-3E		15985**	4.7	2190	100*	13323*	
1220 TRI STAR PROD CO	DURBIN, FORCE AREA	CYPRESS	24,26-8N-3E		2297**	2.2	335*	40*	1054**	
1221 TRI STAR PROD CO	MIATT	CYPRESS	29-7N-3E		3224*	1.0	494		3113*	
1231 TROOP DRILLING	W A EAGLETON	CYPRESS	20-8N-3E		41		62		100	

in Illinois, 1980—continued

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80			INJECTION WATER			REMARKS
FIELD, COUNTY										NO. OF	SOURCE	TYPE				
PROJ.	DEPTH	NET	PDR	PERM	OIL	DATE	DATE	WELLS	ACRES	SO	SAND	(F)	FRESH			
NO.	(FT)	PAY	(%)	(MD)	GRAV	FIBR	ABD.	UNDER	GR	GRAVEL	(d)	SHINE				
				(API)	INJ.			PROD.	INJ.	PRODUCED	(M)	MIXED				
										SH	SHALLOW					
LAWRENCE, LAWRENCE, CRAWFORD																
CONTINUED																
2292	1290	20,0				12-72		7	7	80			PRODUCED (S)	*INCL. PRIM. PROD. SINCE 1965		
	1580	25,0														
LAWRENCE W, LAWRENCE																
*2250	2040	10,0	17,2	36	35,0	12-59	01-66	8	9	297			SH SU, PROD (S)			
2235	2050	18,0				1-75		4	10	150			PRODUCED (BETHEL)	*ESTIMATED		
LEXINGTON, WABASH																
3858	2850	9,0	14,0	600	39,0	05-68		3	6	200			SH SU (F)	*ESTIMATED /3-78 *8-79 THRU 12-79		
LILLYVILLE, CUMBERLAND, EFFINGHAM																
704	2450	8,0			35,0	05-57		2	2	160			PROD (S)			
LIVINGSTON, MADISON																
*2500	520	15,0			33,5	07-54	12-57	2	5	80			BENDIST, A.V. 808 (S)			
*2501	525	22,0	16,0		36,0	05-52	12-70	10	10	80			BALEM, PROD (S)			
*2502	520	20,0			37,0	05-59	08-68	1	3	160			AUX VASIES (S)	*NO DATA SINCE 1962		
LIVINGSTON S, MADISON																
2509	575	15,0				04-72		1	6	70			PRODUCED (S)	*ESTIMATED		
2507	545	35,0	22,8	1421	35,0	10-63		1	10	210			SH SU (F)			
2508	2700	5,0	11,0			6-71		2	9	90			PRODUCED (S)	*ESTIMATED		
LUCOBT GROVE, WAYNE																
*4085	3180	10,0			39,8	08-66	1-77	1	2	20			CYPRESS (S)	*ESTIMATED 1975-76		
LOUGEN, EFFINGHAM, PAYETTE																
1252						02-72								*INCL WITH EXXON TOTALS EST ** PUNCH FROM EXXON 2-72		
1230	1446	25,0				08-60		10	5	80			PRODUCED (S)			
	1528	25,0														
1243	1530	40,0				11-56		3	4	80			TAR SPR, PROD (S)			
*1201	1584	20,0	17,4	126	34,0	09-56	01-63	1	1	20			PRODUCED (S)			
1202	1530	15,0			34,0	10-57		7	11	240			TAR SPR, PROD (S)	*INCL PRIM PROD; *ESTIMATED		
1209	1450	27,0			38,0	09-54		1	3	40			TAR SPR, PROD (S)	*EST, *INJ. 808P, 1-1-69		
1213	1400	20,0	21,0	150	38,0	07-57		4	6	100			TAR SPR, PROD (S)	*ESTIMATED		
1226	1480	30,0				09-68		2	9	200			TAR SPR, PROD (S)	*ESTIMATED		
1203	1475	30,0				08-56		1	2	20			PURCHASED (S)			
1207	1562	37,0	18,0	200		03-54		2	3	320			PRODUCED (S)	*EST. SINCE 1971; *INJ. 808P, 1971		
*1215	1590	30,0				05-57	01-79	4	6	80			TAR SPR, PROD (S)	*INACTIVE SINCE 7/		
1233	1400	30,0	19,0	95		11-62		4	2	40			TAR SPR, PROD (S)	*ESTIMATED SINCE 1973		
1255	1490	25,0				01-66		1	6	80			PRODUCED (S)	*ESTIMATED; *INCL. PRIM. SINCE 66		
1204	1500	18,5	19,5	102	38,0	10-50		534*	638*	24599*			TAR SPR, PROD (S)	*INCL 1252 *ADJUSTED		
	1580	11,6	18,3	85												
	1620	15,4	19,1	109												
	1660	14,1														
1216	1500	12,0	18,6	91	37,5	06-57		12	5	120			TAR SPR, PROD (S)	*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 (S)			
1254	1560	7,0				8-75		1	3	70			PRODUCED (S)	*EST, *INCL PRIM PROD SINCE 1967		
1205	1522	20,0	19,0	90	38,0	07-57		3	3	40			TAR SPR, PROD (S)	*ESTIMATED SINCE 1970		
1225	1500	12,0	19,0	37,0		01-59		1	1	10			PRODUCED (S)	*ESTIMATED		
1235	1475	28,0	19,0	37,0		11-61		1	1	20			PURCHASED (S)	*ESTIMATED		
	1580	15,0	19,0					1	1	20						
1241	1490	68,0	20,0		38,0	11-58		1	9	140			PURCHASED (S)	*ESTIMATED		
1242	1550	15,0			35,0	08-63		2	2	40			PRODUCED (S)	*ESTIMATED SINCE 1970		
1248	1530	20,0	19,0		38,0	01-65		1	4	40			TAR SPR, PROD (S)	*ESTIMATED		
*1249	1550	30,0	19,0	150	38,0	06-60	12-69	1	3	40			TAR SPR, PROD (S)			
1210	1504	30,0				08-57		4	4	40			TAR SPR, PROD (S)	*INCL BUTH PAYST *EST. SINCE 71		
	1540	29,0				07-57		2	2	40						
1228	1504	25,0				01-58		2	3	40			TAR SPR, PROD (S)	*ESTIMATED SINCE 1971		
1232	1505	25,0			36,0	08-57		5	7	100			TAR SPR, PROD (S)			
**1223	3100	18,0	14,4	41	29,0	09-43	12-66*	7	42	2600			PRODUCED (S)	*CONVERTED TO GAS STORAGE RESERVOIR		
*1208	1400	18,0				11-57	12-69	3	4	70			TAR SPR, PROD (S)			
	1540	27,0						2	5	70						
*1234	1534	11,0				05-62	12-69	1	1	10			TAR SPR, PROD (S)			
1214	1595	28,0			36,0	08-55		2	5	60			TAR SPR, PROD (S)			
1247	1534	22,0				01-59		2	6	40			TAR SPR, PROD (S)			
1236	1550	15,0			39,0	09-53		4	8	60			TAR SPR, PROD (S)	*ESTIMATED SINCE 1974		
	1580	12,0						4	7	60						
1237	1560	20,0			39,0	08-57		2	3	50			TAR SPR, PROD (S)	*ESTIMATED SINCE 1974		
1224	1450	18,0	18,4	101	37,0	01-58		26	26	240			TAR SPR, PROD (S)	*INCL PRIM PROD SINCE 1-58		
	1525	20,0														
	1550	40,0														
1227	1400	20,0	18,4	102	38,3	10-58		4	6	40			TAR SPR, PROD (S)	*INCL PRIM PROD SINCE 10-58		
	1420	20,0														
*1217	1480	25,0	19,4	93		03-56	01-79	3	3	60			TAR SPR, PROD (S)			
*1212	1530	30,0	20,0	200	36,0	12-55	12-68	46	48	416			TAR SPR, PROD (S)	*INCL PRIM PROD SINCE 12-55		
1229	1600	25,0	18,5		37,0	05-60		14	21	632			PRODUCED (S)	*INCL PRIM SINCE 12-60.		
1244	1475	22,0			35,5	08-64		7	10	118			TAR SPRINGS (S)	*ESTIMATED 1977 DATA		
	1555	22,5														
	1610	27,5														
1108	1550	8,0			36,7	01-63			17	200			TAR SPR, PROD (S)	*INJ. D18C, 74; *EST. 75 THRU 79		
1200	1515	12,0			37,5	01-54		8	1	120			PRODUCED (S)	*EST. SINCE 75; *INJ. D18C, 1976		
	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			TAR SPR, PROD (S)	*EST. SINCE 73; *INJ. D18C, 78		
1219	1550	18,4	20,4	164	37,5	03-55		5	5	350			PRODUCED (S)	*EST. SINCE 1975; *INJ. D18C 78		
1220	1493	30,0			37,5	10-56		2	2	160			PRODUCED (S)	*INCL PRIM; *EST; *D18C INJ 1978		
1221	1536	40,0	19,0	250	37,2	09-56		2	2	40			PRODUCED (S)	*INJ. D18C, 1980		
*1231	1520	6,0			39,4	04-61	04-71	1	2	40			TAR SPR, PROD (S)	*SINCE 1-65		

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBLs)		
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION
PROJECT NO., OPERATOR	U UNIT		S T R	TOTAL * CUM.	TOTAL * CUM.	TOTAL * CUM.
* ABO				1980 * 12/80	1980 * 12/80	1980 * 12/80
* P.M.						
LOUISVILLE N, CLAY	373 MCKINNEY, FUNDERS	WOLF-PORTER	SPAR HTN 9,10=4N=6E	25	2	20
MCKINLEY, WASHINGTON	4011 JET OIL CO.	FREIMAN-HUNLETH	BENOIST 29=3B=4W	151	1	152
MAIN C, CRAWFORD, LAWRENCE, JASPER						
* 667 M. J. ADAMS	M. J. ADAMS W F	ROBINSON	28=8N=12W	1058		
* 602 ASHLAND O AND R	BIROS 1	ROBINSON	9,10,15,16=5N=11W	19507	536	
* 603 ASHLAND O AND R	BIROS 2	ROBINSON	20=5N=11W	2512	114	605
* 604 BELL BROTHERS	BARRICK	ROBINSON	13=7N=13W	1975*	1,2	150 64 1283
* 652 BLACKSBLOCK	YOKK #3	ROBINSON	8=7N=12W	11	3,6	4 11 11
* 688 PHIL BRURTER	OBLONG	ROBINSON	9=7N=13W	100*	1342*	4,3 103* 100*
* 599 CALIENTE OIL CO	GEORGE L. WALTERS	ROBINSON	2=6N=13W		1632*	32*
* 589 CLARENCE CATT	SPARKS WF NO. 1=M	BETHEL	13=6N=12W		256	11
* 598 CLARENCE CATT	MUOSON WF	BETHEL	6=5N=12W	10*	832*	0,4 30 10*
* 616 CLARENCE CATT	MC CALL	ROBINSON	1=5N=13W		6	1
* 643 CLARENCE CATT	EAGLETON UNIT	BAMFLE	1=5N=13W	240*	1988*	12,7 103 240*
590 JOHN M. CIVETTA	QUICK HRS HAHTLEHOAD	ROBINSON	29=7N=12W	20	388*	0,5 51*
646 CITATION OIL CO	CONOVER	ROBINSON	19=7N=12W	10*	801*	0,8 39 10*
* 695 JACK COLE	MULLINS	ROBINSON	9=5N=12W		15	8
* 609 E. CONSTANTIN	J.B. KIRK	ROBINSON	29,30,31,32=7N=12W		977*	57*
* 610 E. CONSTANTIN	SMITH	ROBINSON	7=7N=12W, 12=7N=13W		337	1
* 607 CREST ASSOCIATES	MITCHELL	ROBINSON	24,25=7N=13W		935*	107*
* 615 CREST ASSOCIATES	PORTERVILLE	ROBINSON	23,36=8N=13W		1345	44
* 619 ENERGY RESOURCES	ALEXANDER-HEYNDLU*	ROBINSON	19,20=7N=12W		8450*	602*
644 ENERGY RESOURCES	CRAWFORD CO. FLOOD	PENN	6,7=5N=12W	200*	1477*	3,1 55 200*
* 612 O. W. FRANCHOT	BIROS	ROBINSON	14,15,16,21,22=5N=11W		5304*	152*
* 617 R. M. FRY	WRIGHT FLOOD C	ROBINSON	23,26=6N=13W		8335*	300*
631 HAROLD FURCANNON	BIROS AREA	ROBINSON	16,20,21,28,29=5N=11W	94*	3514*	22,7 1615 204
647 GALLAGHER DRILLING	OBLONG BENOIST	BETHEL	19,20,29,30=7N=13W		1171	386
* 614 GEN. OPERATIONS	LITTLEJOHN	ROBINSON	20=6N=12W		699	34
594 GETTY OIL CO	A.M. MANN	ROBINSON	5,6=5N=12W, 32=6N=12W	522	12439	5,0 498 342
596 GETTY OIL CO	STIFLE=MCKNIGHT	BETHEL	7,18=7N=13W	198	4410	6,1 252 275
597 GETTY OIL CO	ALLEN=AMES UEEP	BETHEL	29=7N=13W	486	6010	4,5 458 288
630 GETTY OIL CO	BIRCH 1	AUX VASES				
632 GETTY OIL CO	BARRICK=WALTERS	MCCLOSKEY				
633 GETTY OIL CO	GOOD=MAWS	ROBINSON	14=6N=13W	740	8650	5,6 515 281
* 634 GETTY OIL CO	HONANO	ROBINSON	18,19=7N=12W, 13,24=7N=13W	1601	44949	27,4 1954 1418
* 635 GETTY OIL CO	AMES	ROBINSON	16,17,21,22=6N=13W	145	9765	5,3 674 120
* 636 GETTY OIL CO	UENNIS=HARUIN	ROBINSON	11=7N=13W		5713	461
* 637 GETTY OIL CO	THOMPSON	ROBINSON	29=7N=13W	471	3848	6,7 350 196
* 641 GETTY OIL CO	STIFLE=ORAKE	ROBINSON	27,34=6N=13W	150	14582	7,0 906 226
645 GETTY OIL CO	H ORAKE	ROBINSON	26,27=6N=13W	73	2974	2,6 282 62
648 GETTY OIL CO	C.M. STIFLE C	ROBINSON	9,10,16=7N=13W		8369	564 5788
649 GETTY OIL CO	J.G. MCKNIGHT C	BETHEL	17=7N=13W	76	1958	0,9 23 14
668 GETTY OIL CO	HIGHSMITH	AUX VASES				
696 GETTY OIL CO	WALTERS=STANTZ	ROBINSON	20,21=6N=12W	474	8686	6,7 308 234
* 621 ILL LSE OP.	SIEMR=NEWLIN=MOUSER	ROBINSON	14,15=7N=13W		938	58
* 618 G. JACKSON	STANFIELD	ROBINSON	19=7N=13W		288*	26*
613 KOONS & FRANK EXPL	CULVER WATERFLOOD	ROBINSON	17=8N=12W		87	5
591 D. R. LEAVELL	BIDLE	ROBINSON	5,6,7=7N=12W		4691*	189*
606 D. R. LEAVELL	GROGAN (FLOOD 26)	ROBINSON	25=8N=13W	100*	1197*	5,5 52 100*
611 D. R. LEAVELL	OBLONG (FLOOD 25)	ROBINSON	4,5,9=7N=13W	10*	6130*	1,2 441 632*
651 D. R. LEAVELL	SCHUTTE=BULE	ROBINSON	5,8,9=7N=13W		9087*	
669 U. R. LEAVELL	OBLONG (FLOOD 27)	ROBINSON	32=8N=12W	50*	270*	5,4 32 50*
* 670 U. R. LEAVELL	STIFLE	ROBINSON	8=7N=13W	65*	1791*	2,5 201 52*
691 D. R. LEAVELL	JB LONG (FLOOD 29)	ROBINSON	8=7N=13W		3010*	52*
620 THE MACDONELL CO	CONOHEY AREA	ROBINSON	17=7N=13W		190*	65*
671 THE MACDONELL CO	KIRTLAND O	ROBINSON	6,7=7N=13W/12=7N=14W	306	716	19,8 439 307
672 THE MACDONELL CO	KIRTLAND=OEE	ROBINSON	5=6N=13W	105	7267	2,0 183 116
623 MARATHON OIL CO.	IT PROJECTS*	ROBINSON	5,6=4N=13W	426	20845	22,6 996 426
650 MARATHON OIL CO.	FLOOD 99=X	ROBINSON	76,7,8N=12,13,14W	10055	487003	305,0 30692 11233
698 MARATHON OIL CO.	THURNTON WF 21=M	BETHEL	06=7N=13W	195*	2418*	12,6* 124*
* 592 MT. CAMEL ORLG.	NEW HEBRUN WATERFLOOD	BETHEL	17,18,19,20,29=7N=13W	1017	30449	66,1 3197 1229
* 593 MT. CAMEL ORLG.	STEWART=INHOVEN	AUX VASES				
* 624 PAWLOW, COCHNOR	RICH	MCCLOSKEY				
* 662 PETROL. PROD. CO	RMOOES	ROBINSON	22=6N=12W		1502	113
* 608 PRUDENTIAL OIL	TONILL=HUGHES	ROBINSON	36=6N=12W		133	5
* 625 RED HEAD OIL CO.	OIH	ROBINSON	35,36=6N=12W		2716	67
* 663 REE, INC.	HEBERVE UNIT	ROBINSON	29,32=8N=12W		445	
* 626 E. C. REEVES	BILLINGSLEY COUP	ROBINSON	27,28=6N=13W		6035*	401*
* 605 M. F. ROBERTS	SIBDOP C	ROBINSON	25,26=6N=13W		4220*	105*
622 CURTIS ROSS	OELS=LEWIS=HALL=YOONG	ROBINSON	11=6N=13W		251	1
693 CURTIS ROSS	SMILTS FLOOD C	ROBINSON	34,35=7N=13W		2736*	89*
* 640 ROYALCO, INC.	OAK HIDGE	ROBINSON	19,20=6N=12W		2206	35
* 641 ROYALCO, INC.	OAK RIDGE U	BETHEL	4,9=6N=13W	200*	3628*	12,8 158 200*
* 635 ROYALCO, INC.	OENNIS HEIRS U	ROBINSON	8=6N=13W	45*	3689*	2,1 91 45*
* 686 ROYALCO, INC.	C.J. BEST	ROBINSON	17=5N=12W		537	
* 687 ROYALCO, INC.	STEWART HEIRS	CYPRESS	17=5N=12W		3213	106*
* 688 ROYALCO, INC.	HULSE=ALLEN	ROBINSON	29,30=7N=13W		22916	1032 6368
* 697 ROYALCO, INC.	OEEB C	ROBINSON	20,29=7N=13W		2386	109
* 627 SHAKESPEARE OIL	MCINTOSH UNIT	ROBINSON	21=6N=13W		4090	269
* 628 SHAKESPEARE OIL	MONTGOMERY UNIT	ROBINSON	12,13=7N=14W		397	75
		ROBINSON	28=6N=13W		1463	60
		ROBINSON	17,18,19,20=6N=12W		396	18
		ROBINSON	32,33=6N=12W		516	18

RESEVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER		
FIELD, COUNTY		PERM OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE								
PROJ.	DEPTH	NET	POR	(MO)	GRAV	FIRST	ABO.	UNDER	OR=GRAVEL	(U)=BRINE						
NO.	(FT)	PAY	(%)	(API)	INJ.	INJ.	PROD.	INJ.	PROD=PRODUCED	(M)=MIXED						REMARKS
	(FT)								SM=SHALLOW							
LOUISVILLE N, CLAY																
• 373	2800	10,0				11-70	05-72	1	2	30						CYPRESS (B)
MCKINLEY, WASHINGTON																
• 4011	1050	10,0				04-65	07-69	2	2	20						PRODUCED (B)
MAIN C, CRAWFORD, LAWRENCE, JASPER																
• 667	1000	22,0	18,5	98		01-58	12-58	5	4	80						LAKE, PRODUCED (M)
• 602	950	30,0	21,0	136	31,0	05-54	01-64	67	53	530						PENN SAND (B)
• 603	930	25,0	21,0	125	30,8	03-57	01-66	11	9	200						GRAV, PROD (M)
• 604	960	56,0	19,2	126	34,9	10-54		4	2	40						PENN SD, PROD (B)
• 652	1050	30,0	20,0		34,0	01-76		1	6	20						PRODUCED (B)
• 688	980	20,0	40,0	75	36,0	07-52		5	12	200						• INJ. CEASED 5-1-69
• 599	930	20,0	18,1	141	32,7	10-64	12-75	5	7	70						PENN SD, PHOD (B)
• 589	1350	7,0				02-64	01-70	1	1	20						• ESTIMATED
• 598	1320	10,0			35,0	04-64		2	1	20						SM BU (F)
• 616	820	18,0			32,0	05-66	01-70	1	3	40						• ESTIMATED SINCE 1973
• 643	1257	19,0	17,6		33,0	01-68		4	3	80						PRODUCED (B)
	1323	15,0	16,0					4	3	80						• ESTIMATED
• 590	935	12,0	19,3	36	37,0	11-64		4	9	60						PRODUCED (B)
• 646	930	22,0	19,0	95		06-70		5	6	40						• INJ. SUSP. 7-2-79
• 695	925	10,0	20,0	100	33,4	12-62		2	6	100						PENN SD (B)
• 609	900	20,0	17,0	170	34,0	08-51	06-69	14	37	56						PENN SD (M)
• 610	900	25,0	18,0	70	34,0	03-54	01-70	6	5	50						CITY WATER (F)
• 607	890	10,5	21,1	99	33,5	06-53	01-65	13	19	78						• NO DATA SINCE 1960
• 615	890	20,0	17,0	47	32,6	04-54	01-70	5	19	50						• NO DATA 1963-65
• 619	940	22,0	22,0	167	34,0	02-51		28	29	280						LAKE (F)
• 644	1180	7,5	17,6	324	38,0	06-68		1	4	50						• NO DATA 1970-76
	1380	7,8	17,3	46	36,0			2	9	140						CYPRESS, PHOD (B)
• 612	950	20,0	18,9	162	31,7	06-51	11-71	95	104	1030						PENN SD (B)
• 617	900	15,0	20,0	245	34,0	01-53		9	16	18						• EST. 1970-73/1974 COMB WITH #650
• 631	950	21,8	19,4	197	30,1	02-52		42	52	685						GRAV, PROD (M)
• 647	1250	8,0	16,5	20	38,0	04-71		7	14	360						PRODUCED (B)
• 614	850	24,0	20,0	50	37,5	10-52	12-58	4	9	60						• DATA N/A 1980
• 594	950	20,1	20,0	150	33,0	01-66		10	9	160						PENN SD, PHOD (B)
	1320	9,0	16,0	40												BASAL PENN, PROD (B)
• 596	950	17,3	20,0	100	34,0	04-61		8	9	38						PENN SD, PROD (B)
• 597	1332	10,0	14,2	30		01-70		23	5	160						PROD, FRESH (M)
	1406	5,0	18,0	10												
	1434	4,0	19,6	10												
• 630	881	34,3	19,1	108	33,0	08-54		13	7	61						GRAV, PROD (M)
• 632	950	30,9	20,0	152	35,0	03-54		35	40	407						PENN SD, PHOD (B)
• 633	930	24,3	21,0	378	35,0	09-57		4	6	60						PRODUCED (B)
• 634	950	20,2	19,6	184	35,3	02-52	11-71	10	19	79						PRODUCED (B)
• 635	980	25,3	20,0	150	35,0	10-56		7	8	153						SM BU, PHOD (M)
• 636	875	33,7	19,8	173	32,7	06-50		17	10	92						PURCHASED (B)
• 637	860	32,9	19,8	108	33,0	09-52		5	3	40						PURCHASED (M)
• 641	980	23,6	18,2	221	33,5	06-52	11-71	19	19	278						PENN SD, PHOD (B)
• 645	1364	8,0			36,8	10-71		6	1	80						SM BU, PHOD (M)
	1404	6,0														
• 648	1403	14,0	14,0	13	34,0	01-72		2	1	150						PURCHASED (B)
	1438	12,0	11,0	2												• 1980 DATA N/A.
• 649	1412	3,0	11,5	19	34,0	09-72		1	1	10						• NO INJ SINCE 9-78
	1435	8,0		2												
• 668	920	21,2	20,0	80	35,0	04-59		11	3	121						PENN SD, PHOD (B)
• 696	950	17,1	19,0	200		06-63	11-71	4	10	67						PENN SD, PHOD (B)
• 621	896	36,0				07-63	01-73	2	5	180						PENN SD (M)
• 618	977	30,0	23,0	57	36,0	06-52	08-53	3	3	20						• NO DATA BEFORE 1967
• 613	950	17,0	19,5	108	36,8	02-61		13	20	126						• NO DATA SINCE 1971
• 591	1000	10,0	15,0	85	34,0	07-61		3	6	80						PRODUCED (B)
• 606	950	20,4	18,9	71	37,0	10-53		12	22	151						• ESTIMATED SINCE 1969
• 611	950	23,2	18,3	69	37,0	08-56		23	29	174						• DATA NOT AVAILABLE
• 651	995	18,0				04-76		5	12	120						PRODUCED (B)
• 669	950	15,3	17,8	33	37,0	01-58		8	4	87						• ESTIMATED SINCE 1969
• 670	950	24,4	18,9	85	37,0	01-58	1-77	5	2	27						GRAV, PROD (M)
• 691	950	15,0	18,6	106	37,0	01-63		1	5	22						• NO DATA SINCE 1973
• 620	910	21,0	20,8	165	34,4	11-66		5	29	310						PRODUCED (B)
• 671	800	40,0	20,1	143	34,9	01-58		9	7	30						PENN SD, PHOD (B)
• 672	913	40,0	20,8	158	36,8	01-58		23	61	330						PENN SD, PHOD (B)
• 623	920	20,0	19,5	125	34,0	05-48		298	436	5817						• WILKIN, HUGHES, BRUBAKER, MARGIS, REED, PAULEY, ARNOLD, PRICE, #000 YORK, KIRTLAND, SMILTS, #000 HAMILTON, #2, CARLTON
																• INCL PROJ. #608
• 650	900	20,0	20,0	100		01-74		11	41	2108						PRODUCED (B)
• 698	1340	10,0	15,0	30	38,0	07-63		39	45	1410						GRAV, PROD (M)
	1390	8,0								1410						
	1450	8,0								1050						
• 592	930	14,0	15,8	16	36,0	01-63	10-71	8	14	130						PENN SD (B)
• 593	1310	10,0	16,0	45	34,0	03-64	07-66	2	2	50						PENN SD, PHOD (B)
• 624	1006	22,0	24,3	240	26,0	10-54	12-61	5	9	60						LAKE, PROD (M)
• 662	1000	15,0	20,0	75	35,7	09-51	12-56	4	2	40						SM SD, PHOD (M)
• 608	900	20,0	20,0	100	32,0	06-51		6	9	130						• SM SD, PHOD (M)
• 625	840	10,5	21,2	98		07-53	12-62	16	14	103						PENN SD, PHOD (B)
• 663	950	22,7	21,9	89		11-53	05-55	4	4	20						• EST. 1951-73/COMB W/650 1974
• 626	925	20,0	30,0	45		12-53	07-64	6	8	115						• 1960, 1961 ESTIMATED
• 605	1000	22,4	22,1	156	35,7	11-53	02-60	26	7	70						• NO DATA FROM 1961 THRU 1964
• 622	875	15,0				01-68		14	16	300						SM PH, PHOD (M)
• 693	900	10,0	18,0	150	36,0	06-63		6	6	80						• ESTIMATED
• 680	1590	8,0	14,0	15	35,7	10-61	05-69	1	5	420						SM BU, PRODUCED (M)
• 681	1470	15,0	18,5	57	35,9	10-61	05-69	5	6	420						PENN, PROD (B)
• 685	950	20,0	19,0	120	37,											

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)		
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION
PROJECT NO., OPERATOR	U = UNIT		S - T - R	TOTAL * CUM.	TOTAL * CUM.	TOTAL * CUM.
* ABO				1980 * 12/30	1980 * 12/30	1980 * 12/30
* P, M ₁						
MAIN C, CRAWFORD, LAWRENCE, JASPER						
CONTINUED						
* 628 SHAKESPEARE OIL			4-5N-12W			
* 661 SKILES OIL CORP.	CORRELL-GURLEY COOP	RUBINSON	10-7N-12W	1214	30	227
* 664 SKILES OIL CORP.	WALTER COHM COUP	RUBINSON	1-6N-13W, 36-7N-13W	26		29
* 665 SKILES OIL CORP.	WEGER COUP	ROBINSON	18,19-5N-11W	770	8	109
			13,24-5N-12W			
* 653 TOM BLIVA	BAKER	RUBINSON	1-7N-14W			
* 595 JAMES M. STONE			28-7N-12W	55	1	12
* 629 JAMES M. STONE	CLARK-MULBE	ROBINSON	18-7N-13W	5726	303	3981
* 639 JAMES M. STONE	LEPEVER-MUSGRAVE		13-7N-14W	3754*	427	2274*
* 638 TIDEWATER OIL CO	HENRY-KEHIRE	RUBINSON	10,15-7N-13W	4187	470	2401
* 640 TIDEWATER OIL CO	MONTGOMERY-SEITZINGEN	ROBINSON	15,16-5N-11W	1544	67	817
* 642 TIDEWATER OIL CO	WALTER-STAMM COOP	RUBINSON	13,14-7N-13W	991	111	712
* 679 HAUBAU PET. CORP	HIGHSMITH COUP	ROBINSON	31-6N-12W	153*		37*
* 659 E. L. WHITMER	SANDERS	RUBINSON	26,34,35,36-6N-13W,	300*	7364*	15.7
			1,2,3-5N-13W		160	300*
* 694 WICHITA INDUSTRIES	FLYNN	ROBINSON	26,35-8N-13W	411*	6432*	11.4
* 692 GEORGE WICKHAM	PRICE, KEITH, BARLOW	RUBINSON	8,17-7N-12W	1571	59	4718*
						921
MAPLE GROVE C, EDWARDS, WAYNE						
* 1008 ASHLAND O AND K	BENNINGTON COOP	MCCLOSKEY	7-1N-10E	572	166*	
* 4078 M AND M OIL CO	MT ERIE E	AUX VASES	22,23-1N-9E	129	16*	25
* 4063 TRIPLE S OIL CO	MUSBLE	AUX VASES	13-1N-9E	50*	765*	1.3
* 1025 L. UNSANSKI	MAPLE GROVE	MCCLOSKEY	9,10-1N-10E	1238	188*	50*
* 4127 WINMAR OIL CO.	W BENNINGTON	AUX VASES	13-1N-9E	171*	32**	1238*
						213
MARINE, MADISON						
* 2504 KARCHMER PIPE	MARINE PILOT U	SILURIAN	8,9,17-4N-6W	300*	3054*	5.4
					46	300*
						2986*
MARKHAM CITY, JEFFERSON						
* 2003 TIDEWATER OIL CO	NENTON	STE GEN	1-3S-4E		1	7
MARKHAM CITY W, JEFFERSON						
* 2004 GULF OIL CO.	W MARKHAM CITY U	AUX VASES	3,4,9,10-3S-4E	6404	429	4477
		MCCLOSKEY				
* 2020 M DOUBLE L	MARKHAM CITY WEST U	MCCLOSKEY	34,35-2S-4E, 2-3S-4E	300	1	300
MARTINSVILLE, CLARK						
* 214 AMERICAN PUMP	FROERMAN AND CONNELLY	PENNSYLVNIN	13-9N-14W	3778*	121*	
* 218 J. B. BUCHMAN	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 TRI STAR PROD CO	MASON N U	BENOIST	9,10-6N-5E	140*	2693	3.3
		AUX VASES			182	140*
						2729
MATTOON, COLES						
* 515 ASHLAND O AND K	DEGLER 880S COUP	CYPRESS	3-12N-7E	459	22	174
		SPAK MTN				
* 507 N. A. BALORIDGE	GOELL	SPAK MTN	10-11N-7E	20*	686*	0.6
* 520 N. A. BALORIDGE	MATTOON COUP	SPAK MTN	10,11-11N-7E	20*	741*	0.2
* 504 OELL CARROLL	MATTOON	CYPRESS	23-12N-7E	189	76	20*
* 506 OELL CARROLL	MATTOON	SPAK MTN	23-12N-7E	346	20	88
* 516 OELL CARROLL	CARLYLE 4-A	SPAK MTN	11-11N-7E	47	84	173
* 523 COLLINS BRUS,	LANOSMAN-HILL	CYPRESS	27-12N-7E	25*	25	28
		SPAK MTN			93	25*
					900*	900*
* 903 WALTER DUNCAN	KEUMAN-HACKE	CYPRESS	23-12N-7E		758	1.9
		SPAK MTN			82	26
* 511 WALTER DUNCAN	OHM	CYPRESS	2,3-11N-7E	120	3615*	4.2
		AUX VASES			455	34
		SPAK M7				1784*
* 514 WALTER DUNCAN	ARTHUR-OLIVER	SPAK MTN	2-12N-7E	138	3523*	2.3
* 521 WALTER DUNCAN	COLEMAN UNIT	SPAK MTN	10-11N-7E		974*	0.9
* 525 WALTER DUNCAN	PAWNEE ROVALTY	SPAK MTN	23-12N-7E		700*	130**
* 524 GORNOON OIL CO.	TIVNEN	CYPRESS	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	CYPRESS	10,11-12N-7E	1977	157*	457
* 500 SCHAEFER OIL CO.	MATTOON	CYPRESS	23,24,25,26,27,34,35,	* 34574*	18.1	2146
		SPAK MTN	36-12N-7E, 2,11-11N-7E			
* 512 SCHAEFER OIL CO.	SOUTH MATTOON UNIT	CYPRESS	34-12N-7E, 3-11N-7E	* 11195*	7.2	12A6
		AUX VASES				
		SPAK MTN				
* 519 SCHAEFER OIL CO.	HENKIMER	SPAK MTN	11-12N-7E		1124*	58*
* 517 CARL WHITE	G. BRINING	AUX VASES	3-11N-7E	45*	652*	2.3
		SPAK MTN			77	45*
						543*
MATTOON N, COLES						
* 518 ELMER M NOVAK	N.W. MATTOON NF	SPAK MTN	22-13N-7E	25*	1695*	1.5
					168	25*
						1555*
MAUNIE N C, WHITE						
* 4453 COY OIL CO	RAMMING	7AR SPRING8	24-5S-10E	220*	46**	220*
		OMARA				
* 4307 DEVON CORP.	ACKERMAN-SUMLEBER-J8N	AUX VASES	35-5S-10E		65*	115*
* 4328 DEVON CORP.	ACKERMAN	AUX VASES	23,26-5S-10E	54	1489*	102*
		SPAK MTN			4.4	54
* 4448 DEVON CORP.	ACKERMAN	BETHEL	25-5S-10E	1120*	141	1120*
		AUX VASES				
		MCCLOSKEY				
* 4452 NAPCO	ACKERMAN E	BETHEL	25-5S-10E			144
		AUX VASES				650
* 4282 LOUIS PEBBINA	RIBEYRE ISLAND UNIT	WALTERSBURG	19,30-5S-10W		817	180
		7AR SPRING8				
* 4356 REBROCK OIL CO.	M S BOHLEBER	AUX VASES	26-5S-10E	1088		146
		MC CLOSKEY		225		
* 4220 HULEO OIL CORP.	MAUNIE N U	AUX VASES	18,19-5S-10W		338*	
* 4272 G. SCHOONMAKER	MAUNIE W UNIT	AUX VASES	35-5S-10E, 2-6S-10E		2720*	184*
* 4384 TRI STAR PROD CO	MAUNIE WF U	PENNSYLVNIN	24,25,36-5S-10E	41*	6595*	10.0
					1659	41*
						3936*

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80			INJECTION WATER			REMARKS
FIELD, COUNTY		PERM	OIL	OATE	OATE	NO. OF	ACRES	SD=	SOURCE	TYPE						
PROJ.	DEPTH	NET	POR	(MO)	GRAV	FIRST	AMO.	UNDER	GR=	(F)=						
NO.	(FT)	PAY	(%)	(API)	INJ.	INJ.	PROD.	INJ.	PROD=	(M)=						
	(FT)								SH=	MIXED						
									SH=							
MAIN C, CRAWFORD, LAWRENCE, JASPER																
CONTINUED																
* 628																
* 661	1035	20.0	22.2	100	33.0	07-51	09-55	18	17	180	PENN SD, PROD (B)					
* 664	985	12.5	20.1	93	36.0	12-51	01-53	5	6	40	PENN SD, PROD (B)					
* 665	900	20.0	17.0	37		11-52	07-56	9	11	90	CREEK, PROD (M)					
653	1000		12.0		33.0	07-75		2	3	30	PRODUCED (B)		*DATA N/A			
* 595	1128	30.0	19.0	200		03-65	06-66	1	4				PENN SD (B)			
* 629	910	25.4	19.9	278	34.0	01-52	01-70	13	4	80	SH SD, PROD (M)					
639	910	24.8	20.0	250	34.0	02-54		14	14	119	SH SD, PROD (M)		*EST DATA=N/A			
* 638	935	14.6	21.0	175	35.0	07-68	12-63	24	44	104	PENN SD, PROD (B)					
* 640	979	21.0	19.0	148	32.0	05-54	12-65	6	3	64	SH SD, PROD (M)					
* 642	987	15.9	20.0	100	35.0	11-54	07-65	7	2	56	PENN SD, PROD (B)					
* 679	890	20.0	21.5	50	32.0	09-51	04-59	13	23	130	PENN SD (B)		*LAST DATA AS OF 12-31-52			
659	880	20.0	21.0	205	32.0	08-52		65	57	277	PENN SD, PROD (B)		*ESTIMATED; NO DATA 1958-1974			
694	980	12.0	18.6	200	37.4	11-63		11	14	110	LAKE, PROD (M)		*EST, 1973-79			
* 692	1050	10.0			30.0	05-62	09-66	2	3	30	PENN SD, PROD (B)					
MAPLE GROVE C, EDWARDS, WAYNE																
*1008	3100	5.0			38.0	09-52	06-61	4	11	300	PRODUCED (B)		*INCLUDES PRIMARY PROD			
4078	3170	15.0				11-68		1	1	30	PENN SD (B)		*DATA N/A 1980			
4063	3150	12.0				09-71		2	6	110	PENN SAND,		*ESTIMATED			
*1025	3270	8.0			36.0	07-61	01-74	5	5	280	CYPRESS, PROD (B)		*ESTIMATED 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	99.0			34.0	12-70		3	7	240	PROD & SUPPLY (M)		*ESTIMATED SINCE 1974			
MARKHAM CITY, JEFFERSON																
*2003	3080	6.0				08-55	12-56	1	1	40	CYPRESS (B)		*DUMP FLOOD			
MARKHAM CITY W., JEFFERSON																
*2004	2900	11.8	22.1	269	38.0	04-54	12-63	12	9	230	CYPRESS, PROD (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	01-56	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	SH SD (F)					
* 219	1334	27.0				01-51	02-55	4	1	10	SH GRAV (F)		*INCL PRIM PROD 1-51 TO 2-55			
* 220	464	25.0				08-50	12-54	8	3	23	SH GRAV, (F)					
MASON N, EFFINGHAM																
1104	2280	11.0	16.0	24	38.0	10-58		1	3	100	TAR SPR, PHOD (B)		*EST, 1940			
	2344	17.0				08-65				30						
MATTOON, COLES																
* 515	1722	10.0			38.4	12-63	02-67	2	5	80	PURCHASED (B)					
	1920	10.0						2	5	60						
507	1980	19.0			35.0	04-66		2	2	50	PRODUCED (B)		*ESTIMATED			
520	1960	10.0	12.0			04-66		3	6	80	SH SD (F)		*ESTIMATED SINCE 1973			
* 504	1770	9.0				04-59	12-66	4	7	100	PURCH, PROD (B)					
* 506	1970	10.0			37.0	04-59	12-66	4	7	100	PURCH, PROD (B)					
* 516	1975	12.0			36.0	05-64	01-72	1	2	35	PURCHASED (B)					
523	1785	8.0				04-61		1	2	30	PRODUCED (B)		*ESTIMATED			
	2000	6.0						1	2	30						
503	1770	10.0				06-59		1	2	20	PRODUCED (B)		*INJECTION DISC.			
	1970	9.0														
511	1800	20.0				08-62		5	8	130	GRAVEL & LO (F)		*EST, 73-79			
	1920	12.0				09-68										
	1970	12.0				08-62										
514	1930	8.0				02-63		1	3	180	SH SD, PROD (M)		*EST, 73-79			
521	1920	11.0				04-66		2	50	50	GRAV, PROD (M)		*INJECTION DISC.			
* 525	1920	12.0				12-56	12-66	1	4	50	PURCHASED (F)		*EST., NO DATA INCL PRIM 56-66			
* 524	1830	15.0				6-54	12-60	4	4	80	SEWAGE EFFLUENT		*EST., NO DATA 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 PROD SINCE 2-61			
500	1750	13.0	16.0	84		05-52		20	25	850	PROD, SEWAGE EFF (M)		*INJ. DISC 1979			
	1950	12.0						20	28	900						
512	1800	14.6	20.0	54	39.0	03-62		13	18	300	GRAVEL BED (F)		*INJ. DISC 1979			
	1910	10.0						6	4	100						
	1980	11.0	12.6	97				17	19	400						
* 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	PURCHASED (F)		*ESTIMATED			
	1970	15.0						1	1	40						
MATTOON N, COLES																
518	1900	6.0	14.7	167	38.9	03-64		5	8	160	SH SD, PROD (M)		*ESTIMATED SINCE 1970			
MAUNIE N C, WHITE																
*4453	2350	9.0				6-52	12-60	1	4	50	PRODUCED (B)		*EST, NO DATA RECEIVED INCL PRIM			
	3000	6.0						1	3	40						
*4307	2955	14.0			35.8	04-67	1-77	2	2	40	RIVER GR (F)		*ESTIMATED SINCE 1973			
4328	2940	20.0			36.0	06-67		1	2	20	GRAV, PROD (M)		*ADJUSTED 1980			
	3035	4.0				08-61										
*4448	2830	11.0				6-61	07-78	* 2	20	20	PRODUCED (B)		*ADJ TO 4384			
	2950	17.0						* 2	20	20						
	3030	6.0						* 2	20	20						
*4452	2825	7.0				8-64	07-78	* 2	20	20	PROD. & PUR.		*ADJ TO PROJ 4384			
	2945	10.0						* 2	20	20						
*4282	2305	6.0	18.4	204	36.0	05-59	06-68	5	6	120	GRAV, PROD (M)					
	2345	10.0						3	2	50						
4356	2940	15.0		30	37.0	04-67		4	4	80	PRODUCED (B)		*NO PROD REPORTED IN 80			
	3050	8.0			37.0			3	3	80						
*4220	2900	12.0				10-57	05-69	9	8	170	RIVER GRAVEL (F)		*ESTIMATED			
*4272	2950	13.0	15.4	37	38.0	10-58	10-66	12	12	310	GRAVEL BED (F)		*ESTIMATED 1965-66			
4384	1350	10.0			34.0	08-64		2	12	40	RIVER GRAVEL (F)		*ESTIMATED 1980			

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)				
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION		
PROJECT NO., OPERATOR	U S UNIT		S - T - R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	1980	12/80
* * ABO				* 1980	* 12/80	* 1980	* 12/80	* 1980
* * P.M.								
MAUNIE N C, WHITE CONTINUED								
4384 TRI STAR PROD CO		BETHEL						
		AUX VASES						
		MCCLOBK						
4405 WALKER ORLG CO,	GRAY	BETHEL	25-58-10E		69		1	7
		AUX VASES						
MAUNIE S C, WHITE								
4213 ASBHER OIL CO	PALESTINE UNIT	BRIOGEPURT	13,24-68-10E	150*	3890**	19,6*	307*	150** 2815**
		PALESTINE			13535		1721	12150
		TAR SPRINGS						
		AUX VASES						
4230 MOBIL OIL CORP.	74N SPRINGS U	TAR SPRINGS	19-68-11E		4748		792*	2049
			24,25-68-10E					
4239 MOBIL OIL CORP.	MAUNIE COOP	TAR SPRINGS	24-68-10E		180		11*	102
4268 MOBIL OIL CORP.	TAR SPRINGS U 2	TAR SPRINGS	24-68-10E, 19-68-11E		639		60	209
4273 BERNARD POOLBKY	ARNOLD UNIT	CYPRESS	7,18-68-11E		848*	2,3	266	141
4265 REBSTOCK OIL CO.	SOUTH CLEAR POND	PALESTINE	12-68-10E		2097		141	420
		TAR SPRINGS						
MELROBE, CLARK								
* 227 SHAKESPEARE OIL	MELROBE U	IOABEL	13,24-9N-13W		192		4	2
MILETUS, MARION								
2632 FEAR AND OUNCAN	JONES #1	BENUIST	16-4N-4E	25*	344*	1,6	20	25* 339*
MILL SHOALS, HAMILTON, WAYNE, WHITE								
4410 COY OIL CO	BROWN ET 4L	AUX VASES	29,31,32-38-8E	45*	1207*	1,5	134	45* 1101*
4059 CULLUM OIL CO.	FELIX	AUX VASES	12-38-7E;17-38-8E	50*	670*	4,3*	55*	50* 670*
1571 PAUL GRAEMLING	FYIE	AUX VASES	25-38-7E				37	
1505 BARRON KIDD	GARDNER	AUX VASES	24-38-7E				2	
4352 POOL OIL CO.	MCINTOSH U	AUX VASES	31-38-8E, 6-48-8E	50*	6035*	2,4	467	50* 4004*
4386 POOL OIL CO.	MILL SHOALS U	AUX VASES	19,20-38-8E		3811*		257*	3016*
4133 SHULMAN BROTHERS	POORMAN-FOX	AUX VASES	13-38-7E;18,19-38-8E	50*	1532*	4,0	127	50* 758*
1569 TAHARACK PET.	DAUBY-NEWBY SW	AUX VASES	36-38-7E	123	2149	5,2	203	134 1738
4279 TAHARACK PET.	DAUBY-NEWBY NE U	AUX VASES	30,31-38-8E	117	4060	2,0	208	136 2292
*4411 TAHARACK PET.	E. MILL SHOALS	AUX VASES	20,29-38-8E		1319		74	513
4183 TEXACO, INC.	A.J. POORMAN "A" NCT-2	AUX VASES	19-38-8E	31	3245	6,3	176	31 997
4337 TEXACO, INC.	A.J. POORMAN "A" NCT 1	AUX VASES	31,32-38-8E	100	2998	2,2	212	100 1502
1506 SAM TIPPS	B.N. GRAY, TRUSTEE	AUX VASES	1-48-7E		3211		349	1448*
4442 SAM TIPPS	MCINTOSH	AUX VASES	30-38-8E				70	350*
*4363 H. WEINERT EST.	HILLSHOALS UNIT	AUX VASES	30-38-8E		6705		326	3089
*4397 H. WEINERT EST.	WEST HILL SHOALS UNIT	AUX VASES	20,29,30-38-8E		3230		189	
MOORE, SHELBY								
3802 CROSSROADS OIL	MOORE FIELD	BENUIST	15,16,21,22-10N-4E	45*	606*	3,8	343	45* 616*
MONTROBE N, CUMBERLAND								
708 EGO OIL CO	MONTROBE WF	MCCLOBKY	34-9N-7E		103*	0,2*	11*	9*
MT CARMEL, WABASH								
3455 T. M. BANE ESTATE	MAKRIS	BIEHL	17-18-12W			11,8	163	
		CYPRESS						
3664 FRHERS PETR COOP	SMAN	CYPRESS	7-18-12W	84	875	1,0	111	84 321
*3918 FRHERS PETR COOP	WABASH UNIT	MCCLOBKY	5-18-12W		425		89	165
*3941 FIRST NATL PET	SMAN-COURTER	CYPRESS	7-18-12W		259		28	9
*3946 FIRST NATL PET	SMAN-COURTER	BIEHL	7-18-12W		364		69	168
*3919 T. W. GEORGE EST.	NORTH MT CARMEL	CYPRESS	4,5-18-12W		350		29	
3958 T. W. GEORGE EST.	OUNKEL-JOHNSON	CYPRESS	32-1N-12W		400		22	
*3884 M AND H OIL CO.	C F CHAPMAN	TAR SPRINGS	7,18-18-12W		169		10	83
*3854 MAYES-HOLPE BRUB	COTNER	CYPRESS	21-18-12W			0,4	82	
3872 GILBERT A. HIGGINS	CROW-MILLEN	CYPRESS	8-18-12W			0,1	99	5*
3963 GILBERT A. HIGGINS	MT CARMEL N U	BIEHL	4,9-18-12W	6*	4276*	0,4	370	6* 1437*
		CYPRESS						
3849 ILL. MID-CONT.	ZIMMERMAN UNIT	CYPRESS	10-18-12W	100*	840*	5,8	45	100* 840*
3887 JUNIPER PETROLEUM C	CLAY MOELLER	CYPRESS	5-18-12W		256		16	191
3890 JUNIPER PETROLEUM C	PALYHRA U	BIEHL	5-18-12W	165	3755	3,2	222	79 1622
		TAR SPRINGS						
		CYPRESS						
3977 JUNIPER PETROLEUM C	W. MT CARMEL	CYPRESS	18,19-18-12W	83	2332	4,5	176	25 984
3923 WM. H. MITCHELL	CHAPMAN-COURTER U	CYPRESS	7,18-18-12W	80*	2289*	3,3	342	80* 1688*
3882 M AND H OIL CO.	CAMPBELL HEIRS	CYPRESS	7-18-12W	54*	949*	1,1	54*	56*
*3921 ELMEN H NDVAK	MT CARMEL U	CYPRESS	17-18-12W		1763		129	
3862 WILLIAM PFEPPER	BAIRO-SCHULEN	BIEHL	20-18-12W		160		12*	142*
3922 SMELL OIL CO.	MT CARMEL U	BIEHL	17,18-18-12W	119	14516	11,1	1041	158 11846
		CYPRESS						
3924 SKILES OIL CORP.	W MT CARMEL	TAR SPRINGS	18,19-18-12W		895		138	513
3863 WAYNE SMITH, OP.	MT CARMEL UNIT	BIEHL	21-18-12W	266	4685	7,8	320	57 2849
		CYPRESS						
3889 80, TRIANGLE CO.	NORTHEAST MT CARMEL U	BIEHL	16,21-18-12W	597	5590	20,6	409	424 3549
		CYPRESS						
3975 80, TRIANGLE CO.	BAUNGARY-HARE	BIEHL	1-18-13W;16-18-12W	66	843*	5,0	109	35 892*
3497 SUPERIOR OIL CO.	R.V.Z. UNIT	BIEHL INGS	8,9-18-12W		43*	0,2*	370*	5* 836*
		TAR SPRINGS			421*			
		CYPRESS			1936			
3917 TAHARACK PET.	G OUNKEL	BIEHL	5-18-12W		252		28	42*
3873 TEXACO, INC.	KUMN UNIT	BRIOGEPURT	16-18-12W		301		50	292*
		CYPRESS			680			
3875 TEXACO, INC.	STEIN UNIT	TAR SPRINGS	5-18-12W		411		44	178*
		CYPRESS			449			
3876 TEXACO, INC.	GEIGER-STECKLEN U	BIEHL	8,9,16-18-12W	220	4311	8,9	484	220 2757
		TAR SPRINGS						
		CYPRESS						
*3879 TEXACO, INC.	COUCH-NOLLER	BIEHL	16-18-12W		279			
3880 TEXACO, INC.	COUCH-NOLLER	CYPRESS	16-18-12W		227		16	79*
*3925 TEXACO, INC.	STEIN LEASE	TAR SPRINGS	8-18-12W		327		100	136
		CYPRESS			263			

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION			
PROJECT NO., OPERATOR	U * UNIT		S * T * R	TOTAL * CUM.	TOTAL * CUM.	TOTAL * CUM.	1980 * 12/80	1980 * 12/80	
* ABO									
* P, M.									
NEW HARMONY C, EDWARDS, WABASH, WHITE									
4283 ABBMER OIL CO	CALVIN-HON UNIT	TAR SPRINGS	9-48-14W	5*	436*	0.2	441	5*	3110*
		CYPRESS							
		BETHEL							
4313 ABBMER OIL CO	C. HUGHES	AUX VASES							
		CYPRESS	17-48-14W	200*	7328*	11.6	552	200*	4764*
		BETHEL							
4335 ABBMER OIL CO	BRAMLETT	AUX VASES							
4398 ABBMER OIL CO	BRAMLETT	BETHEL	17-48-14W	400*	1769*	24.0*	160*	400*	1881**
		CYPRESS	17-48-14W	80*	2352*	1.5*	332	80*	1426*
		BETHEL							
*3926 ABMLAND O AND R	N MAUD(WALLACE A,B)	BETHEL	5,6,7,8-28-13W		715		165		156
*3927 ABMLAND O AND R	HAVENSTEIN	BETHEL	32-18-13W		99		59		8
3657 JOHN L. AULVIN	BEILER	WALTERSBURG	26,27-18-13W	50*	1110*	2.1	70	50*	1097*
		HARRODSBURG							
		BETHEL							
3888 N. A. BALDRIDGE	STERL U	BETHEL	16,17-18-13W	25*	691*	1.0	49	25*	502*
4293 BARGER ENG	FORD *B*	BETHEL	21-48-14W	32	2424	7.3	320	32	1954
		CYPRESS							
		BETHEL							
3851 FRANCIS BEARD	SMITH, BLS, BMEAREN, MAR	AUX VASES							
4274 FRANCIS BEARD	J.J. BOND	TAR SPRINGS	32,33-18-13W	420*	5630*	21.6	416*	420*	5630*
		CYPRESS	8-48-14W	70*	5726*	3.4	524	70*	2923*
		BETHEL							
4316 BELL BROTHERS	SKILES	AUX VASES							
		CYPRESS	16-48-14W	55	2346	2.9	281	55	1046
		BETHEL							
3845 ALENE BLADES	W. RABER	AUX VASES							
4426 C. E. BREHM	JOHNSON-BTALLINGS-FORD	BETHEL	18-28-13W	25*	185*	4.7	32	25*	185*
3987 W. E. BRUBECK	EPLER	CYPRESS	5-58-14W	37	500	4.8	137	37	500
		CYPRESS	5,6-38-13W	13	544	5.1	76	4	264
		BETHEL							
		AUX VASES							
*4219 CALSTAN PET.	FORD *B*	BETHEL	21-48-14W		1113		104		
3891 R. G. CANTRELL	SCHROOD STATION B U	CYPRESS	3-28-13W		1085*	0.4	74		295*
*3980 UELL CARROLL	FRIENDSVILLE FIELD	CYPRESS	11-18-13W		345		60		134
3982 CENTRAL EXPLR CO	FRIENDSVILLE U	CYPRESS	2,11-18-13W		2150		326*		783*
4303 CONYERS OIL WELL	ALLEN GRAY *M* C	AUX VASES	20-48-14W	30**	314**	2.2	98		
4312 CONYERS OIL WELL	PITTON *A* UNIT	AUX VASES	29-48-14W	80*	1352*	3.4	145	80*	800*
3963 COY OIL CO	KENWIN U	BETHEL	14,15,22-38-14W	100**	8448**	6.0*	1311*	100**	3057**
		BETHEL							
		AUX VASES							
4338 COY OIL CO	GRAY	AUX VASES	20-48-14W		814		105		454*
*4339 COY OIL CO	GRAY	BETHEL	20-48-14W		150		*		*
*4368 COY OIL CO	B. R. GRAY	CYPRESS	17-48-14W		1958		288		898
		BETHEL							
		AUX VASES							
*4286 ALVA C. DAVIS	CALVIN GRIFFITH C	BETHEL	8-48-14W		285		31		216
		AUX VASES			452		108		476
*3994 B. R. DUNCAN	DUNKEL	CYPRESS	11-18-13W		115		12		36
4227 FARRAR OIL CO.	BOWMAN'S BENU UNIT	TAR SPRINGS	16,21-58-14W		10295		2478		6891*
4280 FEAR AND DUNCAN	FORD UNIT	DEGONIA	7,8-58-14W	170*	2373*	25.1*	910*	102**	2365**
		WALTERSBURG	8-58-14W	30*	481*				
		BETHEL	7,8-58-14W		27				
		AUX VASES	7,8-58-14W		2619				
3935 FISK & FISK	J G UPDEGRAFF *A*	CYPRESS	14-33-14W	*	9730*		1750*	*	15774*
		BETHEL							
		MCCLOSKEY							
3929 G R COMPANY	SMULTZ	CYPRESS	7-38-13W		2693		175**		1982**
3930 G R COMPANY	SMULTZ	CYPRESS	7-38-13W		816		*		*
3878 V. R. GALLAGHER	GUNN	CYPRESS	11-38-14W	60*	293*	6.9	42	60*	263*
4330 V. R. GALLAGHER	GREATHOUSE-WALT, UNIT	WALTERSBURG	32-48-14W		102		122		40
4392 GALLAGHER DRILLING	CALVIN WATERFLOOD C	AUX VASES	22-48-14W	20*	863	4.7	197	10*	176
3907 T. W. GEORGE EST.	EAST MAUD	BETHEL	32,33-18-13W		98		55		
*3947 T. W. GEORGE EST.	EAST MAUD	CYPRESS	32,33-18-13W		31		55		
3976 T. W. GEORGE EST.	E MAUD	WALTERSBURG	22,27-18-13W	7	712	1.0	188	7	213
		BETHEL			352		16		32
3874 GETTY OIL CO	KEENSBURG U	BETHEL	16,17,20-28-13W	1002	26097	43.3	1783	1007	13157
		CLORE							
		CYPRESS							
		BETHEL							
4433 GETTY OIL CO	E. S. DENNIS *A*	MCCLOSKEY	33-48-14W	207	2642	8.2	75	169	780
		ST LOUIS							
4290 LYLE OILLIATT	M E GLAZE COUP	TAR SPRINGS	8,17-48-14W	*	443*	2.0*	646*	40**	2896**
		CYPRESS			366*				
		BETHEL			2352*				
		AUX VASES			1207*				
3844 M AND M OIL CO	J. R. SCHROOD	BETHEL	20,29-28-13W	25	374*	2.5	44	8	340*
3988 M AND M OIL CO	WALTERS	TAR SPR	23-18-13W	140*	2050*	7.1	159	140*	2005*
4242 M AND M OIL CO	O. R. EVANS	BETHEL	4,5-48-14W	80*	9669*	2.6	770	80*	636*
		CYPRESS							
		BETHEL							
		AUX VASES							
4354 M AND M OIL CO	WABASH RIVERBUE U	MCCLOSKEY	33-38-14W	75**	3283**	3.0*	232*	75**	2221**
		BETHEL							
		CYPRESS							
		AUX VASES							
1022 HUMMON OIL CO.	BROSTER	BETHEL	34-28-14W	40*	1930**	2.4	258*	40*	1930**
*3955 IND. FARM BUN.	LANDIS-GOINS	CYPRESS	3-28-13W		62		11		108
3856 J&H OIL CO	SCHAUF	CYPRESS	30-28-13W	*	*	12.8	139	80*	830*
*3842 F. JAMES	WADOLE	CYPRESS	32-18-13W		*		19**		*
		BETHEL							
3933 JUNIPER PETROLEUM C E MAUD		CYPRESS	32,33-18-13W	171	6148	7.0	815	69	4067
		BETHEL	4,5-28-13W						
3934 JUNIPER PETROLEUM C W MAUD		BETHEL	32-18-13W/5,7-28-13W		2240		497		393
*3956 JUNIPER PETROLEUM C COWLING-RABER		BETHEL	17-28-13W		109		19		26
4416 K W S OIL PROP, HOHTINDIANA STATE-EVANS		CYPRESS	4-48-14W	5	227	1.6	67	10	444

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 10-31-80					INJECTION WATER		
FIELD, COUNTY																	
PROJ. NO.	DEPTH (PT)	NET PAY (PT)	PUR (X)	PERM (MO)	OIL GRAV (API)	DATE FIRST INJ.	DATE ABO.	NO. OF WELLS	ACRES	SO SAND UNDER PROD	SO GRAVEL PROD	SO SHALLOW	SOURCE TYPE (F) FRESH (B) BRINE (M) MIXED	REMARKS			
NEW HARMONY C, LOWANOK, WABAAM, WHITE																	
4283	2350	9,0				01-59		1	2	30			GRAVEL BED (F)	*ESTIMATEU			
	2550	6,0						5	5	100							
	2800	6,0						3	5	80							
	2900	14,0						6	6	120							
4313	2560	17,0			37,0	11-60		4	2	80			GRAY, PROD (M)	*ESTIMATEU			
	2700	20,0						4	2	80							
	2820	18,0						4	3	80							
4335	2670	25,0			38,3	11-61		1	2	80			SH BU, PROD (M)	*INCL 4333, 4334; *EST			
4398	2552	20,0			37,0	12-63		2	2	40			SH BU, 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			GRAY, PROD (M)				
*3927	2650	7,0	7,0	16	38,4	05-57	12-66	1	2	20			GRAY, 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		3	4	100			PRODUCED (B)				
	2700	9,0	13,0			03-53											
	2885	10,0	13,0	30		03-53											
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 BU, PROD (B)	*ESTIMATEU			
	2705	17,0	16,0	20	36,1			5	6	110							
	2820	15,0	17,0	31	36,2			6	6	110							
4316	2550	15,0	17,5		38,9	08-61		1	2	126			SH BU (F)				
	2700	12,0	16,8														
	2850	18,0	19,0														
3845	2570	10,0				6-72		14	2	30			PRODUCED (B)	*ESTIMATEU			
4426	2608	22,0			36,0	03-66		2	2	80			PRODUCED WATER (B)				
3987	2670	10,0				09-70		1	3	60			SH SAND (F)				
	2635	11,0								40							
	2742	9,0								50							
	2858	4,0								40							
*4219	2695	12,0			37,5	03-53	04-60	1	3	40			GRAVEL BED (F)				
3891	2320	12,0			34,4	10-63		1	4	160			SH SO, PROD (M)	*ESTIMATEU; *SHO ONLY			
*3980	2290	10,0			36,0	02-61	10-66	6	6	120			RIVER GRAY, PROD (M)				
*3982	2300	13,0	16,1	90	36,8	02-61	01-72	9	8	170			SH SO (F)	*NO INJ 12/67-6/69; 1971 NO DATA			
4303	2844	7,0				04-60		1	1	30			GRAVEL BED (F)	*ESTIMATEU; *SHO ONLY			
4312	2888	4,0	16,2	25	36,4	03-60		1	1	140			GRAVEL BED (F)	*ESTIMATEU SINCE 1965			
3963	1800	12,0	21,0	200	33,0	10-59		6	4	130			GRAY, PROD (M)	*ESTIMATEU; *INCL ALL PAY8			
	2700	13,0	16,2	40				12	12	310				*INCL BETHEL			
	2800	8,0				10-59	12-64										
*4338	2850	20,0	17,0	50		03-60	12-63	6	5	120			SH BU, GRAY (F)	*INCL 4334			
*4339	2720	5,0	19,0			03-60	12-63	2	2	50			SH SO, GRAY (F)	*INCL WITH 4338			
*4366	2575	10,0	16,2	118	39,0	01-63	08-68	4	4	40			GRAY, PROD (M)				
	2790	9,0	14,3	50				2	2	40							
	2900	16,0	18,0	125				4	4	60							
*4286	2680	10,0			33,0	09-59	09-70	2	1	40			GRAY, PROD (M)	*INJ TEMP 018C 12-64			
	2855	20,0			36,0	06-60	08-70	1	1	35							
*3994	2100	15,0			36,4	11-62	12-65	1	1	20			SH SO, PROD (M)				
*4227	2260	15,5	17,9	120	37,5	12-53	12-78	2	19	200			GRAY, PROD (M)	*ESTIMATEU 1970-78			
4280	1930	6,0	16,0	50	36,0	11-65		5	9	100			GRAY, PROD (M)	*INCL ALL PAY8; *EST			
	2244	8,0	18,0	47	36,0	08-66		2	3	40							
	2746	5,0	19,0	32	36,0	11-65		1	1	20							
	2872	12,7	18,1	43	37,8	02-59		4	6	120							
3935	2500	25,0	21,0	200	39,0	10-55		2	4	120			PRODUCED (B)	*DATA N/A SINCE 79			
	2640	7,0	17,7			06-66		2	2	60							
	2860	4,0				06-64		1	2	60							
*3929	2600	20,0	18,0	50	38,0	07-51	12-62	2	5	70			GRAY, 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 BU, PROD (M)	*NO DATA AFTER 1959 *WITH 3929			
3878	2490	25,0				02-75		1	6	70			RIVER GRAY (F)	*ESTIMATEU			
*4330	2215	12,0	19,0	140		01-55	09-63	1	1	50			SH BU, PROD (M)	*INCL PRIM PROD 1-55 TO 9-63			
4392	2830	20,0	11,7	7	36,5	03-63		2	1	100			SH WELL (F)	*ESTIMATEU 1980			
*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		1	1	30			RIVER GRAY, PROD (M)				
	2410	10,0	17,0		39,0		08-68										
3874	1700	11,0	12,0	82	35,0	01-68		31	35	904			SH GRAY, PROD (M)				
	1775	8,0	12,0	56						230							
	2420	26,0	19,0	72						680							
	2550	10,0	12,0	15						500							
4433	2914	12,0	12,0			05-74		1	3	170			PENN BU., PROD (B)				
	3080	26,0	18,0														
4290	2215	9,0			36,4	12-59	01-68	3	3	60			SH SO, PROD (M)	*NO INJ SINCE 72; *INCL ALL PAY8			
	2570	11,0					01-68	6	6	120				*ESTIMATEU SINCE 1970			
	2670	25,0						8	9	170							
	2825	12,0						8	9	170							
3844	1735	9,0			33,0	6-75		1	2	30			PURCHASEU (M)	*ESTIMATEU 1980			
3988	1945	12,0				08-68		1	5	60			PRODUCED (B)	*ESTIMATEU			
4242	1500	17,7	14,7	26		10-57		10	4	110			GRAY, 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 BU, PROD (M)	*ILL VALUES ARE 21 PER CENT OF			
	2530	35,0	19,0	100				1	2	47				TOTAL, REMAINDER IN POBEY CO			
	2780	29,0	19,2	50				1	2	47				INDIAN; *EST SINCE 1976			
1022	2740	12,0				6-64		2	9	110			PRODUCED (B)	*EST; *INCL PRIM SINCE 1953			
														*AUJ, TO PROJ, 1016 SINCE 53			
*3955	2340	7,0			36,0	03-57	01-60	1	2	20			PRODUCED (B)				
3856	2450	20,0				01-70			3	30				*ADJ TO EXISTING HP *EST			
*3842	2450	10,0				6-54	12-61		2	30				*EST; *ADJ TU 3933 1954-61			
	2570	11,0							2	30							
3933	2400	8,0	18,5	75	37,0	04-52		6	9	170			GRAY, PROD (M)				
	2520	8,5	17,0	57													
*3934	2620	12,0	17,2	57	36,0	10-50	01-74	20	26	510			GRAY, PROD (M)				
*3956	2549	15,0			37,0	05-57	12-75	1	1	20			GRAY, PROD (M)				
4416	2698	30,0	18,0	150		07-67		1	1	20			PENN BU, PROD (B)				

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)			
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	
PROJECT NO., OPERATOR	U UNIT		S T R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	
ABD				1980 12/30	1980 12/30	1980 12/30	
P.M.							
NEW HARMONY C, EDWARDS, WABASH, WHITE							
CONTINUED							
3841 OAVIS LAMBERT	CLELLA EWALD	SE7MEL	32-18-13W				
3886 HERMAN LOEB	N MAUD U	CYPRESS	13,24-18-14W	120	2796	5.7	319 120 2579
4218 HERMAN LOEB	FORO	AUX VASES	20,21,22-48-14W		239		465
4294 HERMAN LOEB	GRAY *C*, *M*	TAR SPRINGS	17,20,21-48-14W	5	620	0.1	880 5 4428
		CYPRESS					
		SE7MEL					
4305 HERMAN LOEB	FORO *A*	AUX VASES	16,21-48-14W	30	6076	0.8	442 30 462
		WALTERSBURG					
		TAR SPRINGS					
		CYPRESS					
		SE7MEL					
4329 HERMAN LOEB	M.S. DONALD	AUX VASES	21-48-14W	30	1277	2.2	315 30 527
		SE7MEL					
3965 LUBOIL COMPANY	HELM C	AUX VASES	22,23,27-38-14W		1541		1541
		SE7MEL					
		WALTERSBURG			646	13.1	4609 17 23063
		TAR SPRINGS			2306		
		CYPRESS			1188		
		SE7MEL			5138		
		AUX VASES		15	23032		
		TAR SPRINGS			7088		
3839 M AND M OIL CO.	MARK	TAR SPRINGS	33-1N-13W			1.5	98 15 545
3866 M AND M OIL CO.	COWLING U	SE7MEL	19,20,29,30-28-13W	100	18177	4.8	2292 100 10435
		CYPRESS					
3959 M AND M OIL CO.	KEENSBURG U	CYPRESS	9-28-13W		10644		861 6500
3961 M AND M OIL CO.	A E SCHULTZ *A*	CYPRESS	8,17-28-13W	10	2117	1.0	466 20 2082
		SE7MEL		10	2542		
3949 MOORE ENG	RAMER U	SE7MEL	19-28-13W; 24-28-14W		1300	0.7	89 900
3843 E. N. MORRIS EST	CENEY	CYPRESS	32-18-13W				62
		SE7MEL					
3838 MURVIN OIL CO.	KUNTZ-JOACHIM	CYPRESS	8,17-28-13W		800		160 800
		SE7MEL					
4226 ELMER M NOVAK	CALVIN	CYPRESS	5,8-48-14W	70	2774	9.8	2966 170 5659
		SE7MEL		30	3092		
		AUX VASES		70	11816		
3861 O M AND F OIL CO	KEENSBURG U	SE7MEL	19-28-13W	75	865	4.3	177 75 665
3837 OLOB OIL & CHEM.	COLLINS UNIT	SE7MEL	20-28-13W	38	153	1.8	6 7 46
		CYPRESS					
3932 OLOB OIL & CHEM.	RISLEY ET AL COM.	CYPRESS	21-18-13W	34	34		10 10
4276 PAMARK	O. SMITH 1,4,11	CYPRESS	4-48-14W	55	1407	2.4	122 55 617
		SE7MEL					
4275 POOL OIL CO.	CALVIN CUNSLU	AUX VASES	9,16-48-14W		10796		1720 7283
		TAR SPRINGS					
		CYPRESS					
		SE7MEL					
3974 PRUDENTIAL OIL	FRIENOS GROVE U	AUX VASES	3-18-13W; 34-1N-13W	60	3131	2.4	219 60 2093
		JORDAN					
		CYPRESS					
3985 PRUDENTIAL OIL	FOST-LEY UNIT	SE7MEL	3-18-13W	25	2250	1.4	223 25 2049
		CYPRESS			473		131 233
3967 RK PET. CORP.	COWLING U	CYPRESS	23,25,26,35,36-28-14W		2867		467 605
4317 REBSTOCK OIL CO.	CRUSSVILLE LEASE	CYPRESS	2U-48-14W	20	2834	1.7	63 20 1335
		SE7MEL					
		AUX VASES					
4393 REBSTOCK OIL CO.	DALY *A*	CYPRESS	17-48-14W	255	3050	12.1	419 255 2533
		SE7MEL					
		AUX VASES					
4401 REBSTOCK OIL CO.	NATIONAL BANK WF U	TAR SPRINGS	20,29-48-14W	6	682	0.4	181 6 312
4440 REBSTOCK OIL CO.	LOHAS	LOU	14-48-14W			12.2	136 0 0
		TAR SPRINGS					
4455 REBSTOCK OIL CO.	07-788	TAR SPRINGS	2U-48-14W				58 0
		AUX VASES					
3870 MUBERT ROBE	MAUD NW UNIT	WALTERSBURG	27,34-18-13W		2068		209 1100
3893 MUBERT ROBE	MAUD U	WALTERSBURG	34,35-18-13W	60	1974	3.1	390 60 1330
		CYPRESS					
3995 MUBERT RUSE	J.W. REISINGER	CYPRESS	4-28-13W		281		107 281
3962 ROSSI OIL CO.	4 W	CYPRESS	26-18-13W	65	1201	12.7	269 65 1201
3892 ROYALCO, INC.	SCHROOT STATION MID U	CYPRESS	34,35-18-13W		560		123 214
4300 ROYALCO, INC.	REEVES UNIT C	CYPRESS	28-38-14W		2656		161 976
		AUX VASES					
3895 J. W. RUDY ORLG.	EPLEN FLOOD	MCCLOSKEY	6-28-13W		1356		294 937
1009 SCHROEDER & SNYDER	J SCHROEDER	WALTERSBURG	22,27-28-14W	100	1589	5.5	97 100 1137
3931 SCHROEDER & SNYDER	BIEGERT BOTTOMS	SE7MEL	2,3,1U-38-14W	25	4947	1.7	833 25 2222
		SE7MEL					
		AUX VASES					
3928 SHAKESPEARE OIL	BRINES U	SE7MEL	17,20,21,28,29-18-13W		8754		1457 5255
4216 JOE SIMPKINS OIL	HON-BUMP-CHANFORD	CYPRESS	32,33-38-14W,5-48-14W	80	3580	15.2	789 200 5352
		SE7MEL		40	562		
		AUX VASES		80	3574		
4217 JOE SIMPKINS OIL	ARNON-MC BRIDE ETAL	MCCLOSKEY	32,33-38-14W;5-48-14W		762		1 772
4320 JOE SIMPKINS OIL	BOULTINGHOUSE	TAR SPRINGS	9,16,17-48-14W		12037		9097
		CYPRESS					
		SAMPLE					
		SE7MEL					
		AUX VASES					
1016 SKILES OIL CORP.	BIEGERT BOTTOMS	CYPRESS	34-28-14W		62		36 42
3957 SKILES OIL CORP.	ROSTER *F*	CYPRESS	35-28-14W		186		4 2
4222 SKILES OIL CORP.	SMITH-OAVENPORT	CYPRESS	15-48-14W		147		4 27
4287 SKILES OIL CORP.	CALVIN-GRIFFIN	CYPRESS	8-48-14W		1		1 23
		SE7MEL			109		4
		AUX VASES					
3997 OHIO PETROLEUM	UPOEGRAFF *A*	AUX VASES	14-38-14W		429		104 187
3840 SO. TRIANGLE CO.	TOWNSEND-WOLFE	WALTERSBURG	14-18-13W	35	265	5.2	43 35 265
3877 SO. TRIANGLE CO.	SOUTH FORDICE U	SE7MEL	6,7,8-18-13W	82	1019	6.4	109 104 1041
3896 SPARTAN O AND G	R. MAASE ET AL	OHARA	14-18-13W	50	62	11.7	14 50 62
3960 SPARTAN O AND G	BELMONT NORTH UNIT	SALEM	18-18-13W	53	239	10.4	58 53 192

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)				
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION		
PROJECT NO., OPERATOR	U = UNIT		S = 7 = R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	1980	12/80
A B O				1980	12/80	1980	12/80	1980
P, H,								
NEW HARMONY C, EDWARDS, WABASH, WHITE								
CONTINUED								
*3885	STONE OIL CO	AKIN FLOOD	CYPRESS	7-38-13W	1076	72		453
			BETHEL					
			AUX VASES					
			MCCLOSKEY					
*4223	SUN OIL CO.	GREATHOUSE	MCCLOSKEY	33-48-14W, 4-58-14W	1088	129		227
*4269	SUN OIL CO.	FOMO "A" WATERFLOOD	MCCLOSKEY	18-58-14W	58	13		1
*4235	SUPERIOR OIL CO.	KERN-MON UNIT	TAR SPRINGS	32,33-48-14W	1986	536		891
4236	SUPERIOR OIL CO.	NEW HARMONY FIELD U	AUX VASES	21,27,28,29,32,33,34-48-14W,3,4,5-58-14W	22	16705		
4237	SUPERIOR OIL CO.	NEW HARMONY FIELD U	BETHEL	26,27,28,29,32,33,34-48-14W,3,4,5-58-14W	36	32464		
4238	SUPERIOR OIL CO.	WALTERSBURG SAND UNIT	WALTERSBURG	4,5,9-58-14W	544	21451	11,600	16490
4302	SUPERIOR OIL CO.	N.H.R. UNIT	TAR SPRINGS	9-58-14W	46	381	4.1	61
4311	SUPERIOR OIL CO.	NORTHEAST UNIT	WALTERSBURG	14,22,23,26,27,34-48-14W	331	1172	129.3	2883
			TAR SPRINGS	14W	469	1820		1483
			CYPRESS		761	12767		15237
			BETHEL			2688		
			AUX VASES			1836		
			MCCLOSKEY		1228	9876		
4326	SUPERIOR OIL CO.	H. E. GIVEN	MCCLOSKEY	33,34-48-14W	187	403	24.5	59
			BT LOUIS		58	75		143
4390	SUPERIOR OIL CO.	NEW HARMONY FIELD U	JAMESTOWN	21,28,29,32,33,34-48-14W	57	1691	240.9	16225
			CYPRESS		2392	69607		4619
4391	SUPERIOR OIL CO.	NEW HARMONY FIELD U	WALTERSBURG	27,28,29,32,33,34-48-14W	1192	13686		69684
			TAR SPRINGS	14W,3,4,5-58-14W	89	5052		
4454	SUPERIOR OIL CO.	SOUTHWEST UNIT	MCCLOSKEY	33-48-14W,3,4-58-14W	602	2487	34.6	116
			BT LOUIS			348		59
3948	A. K. SWANN	HEIL	CYPRESS	7,18-33-13W	75	3295	11.6	730
*4333	TEXACO, INC.	BRAMLEY7	TAR SPRINGS	17-48-14W		163		13
*4334	TEXACO, INC.	BRAMLEY7	CYPRESS	17-48-14W		443		
*4371	TEXAS AMERICAN	FORD	AUX VASES	21-48-14W		229		131
3910	UNIVERSAL OPRNG	PAMENTER	CYPRESS	5-28-13W	15	334	2.1	35
			BETHEL					15
3986	UNIVERSAL OPRNG	BUMP	CYPRESS	4-28-13W	150	2595	17.6	340
			BETHEL					150
4341	WEST DRILLING CO	U. EVANS	MCCLOSKEY	4-48-14W	33	1491	1.7	154
*1028	GEORGE WICKHAM	SCHROEDER	WALTERSBURG	26,27-28-14W		1942		33
			CYPRESS					371
*3981	CHARLES P. WOOD	G A BURMAN	BIHL	10-18-13W		398		76
			CYPRESS					119
NEW HAVEN C, WHITE								
*4247	ATLANTIC RICHFLD	NEW HAVEN U	TAR SPRINGS	17,18,19,20-78-11E	1844	696		73
			CYPRESS					
*4351	FRHERS PETR COOP	WASEM	TAR SPRINGS	24-78-10E	590	22		155
*4388	FRHERS PETR COOP	DEAO RIVER UNIT	TAR SPRINGS	13,18-78-10E	828	452		336
4289	JUNIPER PETROLEUM C	GREATHOUSE ISLAND U	TAR SPRINGS	7-78-11E, 7-78-14W	133	702	6.6	57
			CYPRESS					237
4278	SUN OIL CO.	G.N. ROETZICHER	CYPRESS	19-73-11E	72	455	12.1	209
								70
								456
NEW MEMPHIS, CLINTON								
417	ELMER OELZE	NEW MEMPHIS SEC. REC.	OEVOBIL	33,34-1N-5W,3,4-18-5W	550	9015	27.6	443
								950
								6695
OAKDALE, JEFFERSON								
*2020	FAIRWAY PETROLEUM	HOMRELL-NOVAK	AUX VASES	11,14,15-28-4E	1295	85		1295
*2014	TEXACO, INC.	GREEN-VANDERHEID	AUX VASES	12-28-4E	554	17		241
OAKDALE N, JEFFERSON								
2018	FRHERS PETR COOP	NORTH OAKDALE UNIT	MCCLOSKEY	3-28-4E	138	1784	2.5	350
								138
								1643
OAK POINT, CLARK, JASPER								
* 223	M AND E ORLG. CO	S. FINNEY	AUX VASES	31-9N-14W		73		7
225	M AND E ORLG. CO	FINNEY-PINGWAND	AUX VASES	3U,31,32-9N-14W	40	4165	1.9	209
								40
								3844
OQIN, MARION								
2600	UOHAN OIL PROP.	OQIN UNIT	CYPRESS	1,12,13-2N-1E,6,7,18-2N-2E	187	8654	1.2	1324
								187
								3910
OLU RIPLEY, BOND								
6	FARRAR OIL CO.	RIPLEY U	PENN	21,28-5N-4W		1248		95
								425
OLNEY C, JASPER, RICHLAND								
*3426	BELL BROTHERS	DUNOAS SOUTH UNIT	SPAK MTN	3,10-4N-10E	4020	226		3090
*3435	O 7 DRILLING	NORTH OLNEY U	SPAK MTN	28,32-4N-10E	330	31		81
*3407	GULF OIL CO	EAST DUNOAS UNIT	MCCLOSKEY	23,26,35,36-5N-10E	953	152		207
*1903	ILL. L&E. OP.	BEOSIE	MCCLOSKEY	23-5N-10E	251	44		225
*3414	J. W. HUOY ORLG.	STIFF	MCCLOSKEY	34-5N-10E	159	33		54
*1904	SONIO PETROLEUM	DUNOAS EAST UNIT	OMAHA	14-5N-10E	2003	142		1378
3408	TEXACO, INC.	EAST OLNEY	MCCLOSKEY	23,24,25,26-4N-10E	3434	269		1286
3420	TEXACO, INC.	OLNEY WATER FLOOD	MCCLOSKEY	27-4N-10E	57	5084	1.5	841
*1914	TRI-STATE CABINS	HILLER-EUNICE	MCCLOSKEY	23-5N-10E	1339	57		43
								4022
								908
OLNEY S, RICHLAND								
*3422	M V RING	KURTZ-MARTZ	MCCLOSKEY	28-3N-10E	32			
OMAHA, GALLATIN								
1443	EXXON	OMAHA	PALESTINE	33-78-8E,4-88-8E	522	11736	54.9	877
			TAR SPRINGS					790
			AUX VASES					7482
			AUX VASES	34-78-8E,3,4-88-8E	251	4235	8.6	737
*1414	T. W. GEORGE EGT, HUMBLE O AND R	OMAHA	PALESTINE	33-78-8E, 4-88-8E		5763		3119
1439	JUNIPER PETROLEUM C	CANE CREEK U	AUX VASES	4-88-8E	10	1190	U.7	61
*1434	NAPCO	PHILLIPS FLOOD	CYPRESS	32-78-8E		40		7
1447	GEORGE PAYNE	OMAHA S PALESTINE U	PALESTINE	32-78-8E	130	977	8.1	77
1448	GEORGE PAYNE	OMAHA S UNIT	MARDINBURG	31,32-78-8E,5,6-88-8E	186	2716	11.3	136
			CYPRESS					68
			OMAHA					725

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER		
FIELD, COUNTY										NO. OF		SOURCE		TYPE		
PROJ.	DEPTH	NET	PUR	PERM	OIL	DATE	DATE	NO.	WELLS	ACRES	80-BAND	(F)=FRESH	(B)=BRINE	(M)=MIXED	REMARKS	
NO.	(FT)	(%)	(MO)	(API)	GRAV	PIST	ASD.	INJ.	PROD.	INJ.	PROD.	(H)	(M)	(S)		
NEW HARMONY C, EDWARDS, WABASH, WHITE																
CONTINUED																
*3885	2440	14.0						08-70	01-80	3	6	80			PRODUCED, FRESH (M)	
	2640	18.0										40				
	2750	22.0										40				
	2830	10.0										60				
*4223	2900	9.0			36.9	08-47	02-57	1	2			90			GRAVEL BED (F)	
*4269	2900	7.0			38.0	05-48	07-52	1	1			40			GRAVEL BED (F)	
*4235	2250	13.3	17.3	85	37.4	02-54	01-70	1	1			121			GRAVEL BED (F)	
4236	2830	8.9	17.9	48	37.0	11-56		2	30						RIVER GRAV, PROD (M)	
															+INCL WITH 4390; +INACTIVE 1-70 TO 1-78	
4237	2710	12.4	15.4	32	37.0	11-56		3	38						RIVER GRAV, PROD (M)	
															+INCL WITH 4390; +INACTIVE 1-70 TO 1-78	
4238	2206	43.0	19.2	475	38.0	10-53		1	5			20			GRAV, PROD (M)	
4302	2207	10.0	18.0	46	37.0	02-66		6	6			80			GRAVEL BED (F)	
4311	2120	10.0	18.0	47	37.0	6-78		8	17			120			GRAVEL, PROD (M)	
	2193	8.0	16.0	40	36.0	02-66		14	24						+INCL ALL PAY8; +INJ SUSP 5-70 TO 6-78; +INJ SUSPENDED	
	2600	12.0	18.0	100	36.0	02-66		22	31							
	2741	10.0	16.0	37	36.0	12-66			1							
	2850	19.0	15.0	12	36.0	12-66			2							
	2886	7.0	14.0	295	36.0	10-66		8	13							
4326	2886	2.0	14.0	295	36.0	9-78		2	4			40			PRODUCED (B)	
	3086	20.0	6.0	10	39.2		11-79	2	2			40				
4390	707	9.0	20.1	159	33.0	07-70		3	2			3138			RIVER GRAV, PROD (M)	
	2550	10.0	17.0	37	37.0	08-64		113	122			3138			+INCL 4236, 4237, 4391	
4391	2120	10.0	18.0	47	37.0	08-64		22	54						+INCL WILEN AB OF 8-78	
	2210	8.0	17.0	40	37.0	08-65		7	24						+INCL WITH 4390	
4454	2886	7.0	14.0	295	36.0	5-78		10	11			200			PRODUCED (B)	
	3086	20.0	6.0	10	39.2										+INACTIVE 1980	
3948	2450	15.0				11-55		2	10			140			GRAVEL BED (F)	
*4333	2296	16.0			38.3	11-61	01-68	2	4			80			SH BU, PROD (M)	
*4334	2670	25.0			38.3	11-61	12-68	2	3			80			SH SU, PROD (M)	
*4371	2830	25.0				02-63	12-67	1	2			30			GRAV, PROD (M)	
3910	2410	13.0			36.9	04-67		1	1			20			PRODUCED (B)	
	2530	7.0						1	1			20			+ESTIMATED	
3986	2400	15.0				01-62		1	4			70			PRODUCED (B)	
	2540	10.0						1	4			60			+ESTIMATED	
4341	3000	5.0				10-49		1	4			50			GRAVEL BED (F)	
*1028	2150	12.0				06-64	06-73	3	6			80			SH SU, PROD (M)	
	2640	12.0						2	4			60			+ESTIMATED SINCE 1967	
*3981	1780	10.0	16.3	25	33.0	03-61	08-68	1	1			20			PUNCH, PROD (B)	
	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 BU (P)	
	2435	10.0						10	10			260				
*4351	2135	10.0	18.0	350	37.0	07-62	01-74	1	3			90			GRAVEL BED (F)	
*4388	2200	6.0	19.0	98	38.0	09-64	12-74	3	7			78			GRAVEL BED (F)	
4289	2148	24.0	18.0	48	37.0	01-66		7	5			442			RIVER GRAV (F)	
	2476	10.0	14.8	17											+ILL. PORTION OF THE PROJ. IS 13.9% OF INO-ILL TOTAL	
4278	2435	12.0	15.0	45	36.0	08-59		1	4			40			SH BU (P)	
NEW MEMPHIS, CLINTON																
417	1960	99.0				06-68		3	23			580			SALEM, PROD (B)	
DARDALE, JEFFERSON																
*2029	2900	20.0				01-64	01-74	3	12			150			PRODUCED (B)	
*2014	2870	15.0	20.2	120	36.5	08-61	12-64	3	2			100			PENN 80, PROD (B)	
DARDALE N, JEFFERSON																
2018	2931	10.0				06-64		3	4			290			POND, PROD (M)	
OAK POINT, CLARK, JASPER																
*223	1180	20.0			36.6	10-58	12-60								PENN 80 (B)	
225	1190	12.0	13.1	40	36.6	04-67		20	14			360			GRAVEL BED (F)	
QUIN, MARION																
2600	1700	15.0	20.0	78	38.0	10-49	10-62	4	9			120			TAR SPR, PROD (B)	
OLD RIPLEY, BUND																
6	600	20.0			36.0	09-57		10	11			110			SH 80, PROD (M)	
OLNEY C, JASPER, RICHLAND																
*3426	2991	4.7	15.4	281	40.0	09-63	01-73	10	7			740			PENN 80 (B)	
*3435	2950	6.0				09-66	12-72	3	4			210			SH BU, CHECK (F)	
*3407	2985	6.0	12.5		41.4	10-56	09-62	5	4			220			PENN 80 (B)	
*1903	2925	5.0	12.0			01-61	10-72	1	1			80			PRODUCED (B)	
*3414	2935	7.0			40.0	04-66	01-72	2	2			90			CVPRE88, PROD (B)	
*1904	2900	8.0			35.0	04-55	05-61	4	7			120			CVPRE88 (B)	
*3408	3100	5.3	13.8	522	37.0	03-51	04-71	6	16			458			PRODUCED (B)	
3420	3000	13.0	13.8	500	37.0	11-46		1	2			280			PRODUCED (B)	
*1914	2940	14.0	16.8	775	40.0	05-54	12-66	1	1			40			PRODUCED (B)	
OLNEY S, RICHLAND																
*3422	3150	6.0				06-61	01-62	1	4			90			CVPRE88 (B)	
OMAHA, GALLATIN																
1443	1700	17.0	18.9	427	31.0	02-69		3	16			425			PRODUCED (B)	
	1950	20.0	16.4	20				1				100				
	2650	10.0	9.2	5								30				
1437	2710	12.0	12.0		41.5	10-65		5	4			253			PENN 80 (B)	
*1414	1700	17.0	18.9	427	26.0	10-44	02-69	1	16			280			PRODUCED (B)	
1439	2678	30.0			37.6	11-65		1	1			100			SH 80, PROD (M)	
*1434	2760	20.0			37.0	05-65	11-66	1	1			20			CREEK, PROD (M)	
1447	1725	9.5	17.0	50	27.1	12-71		3	5			133			PRODUCED (B)	
1448	2175	12.0	14.0	10	35.0	03-71		6	9			370			SH 80 (P)	
	2375	5.0	15.0	50	36.0											
	2725	4.0	13.0	60	37.5											

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)				
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.
PROJECT NO., OPERATOR	U = UNIT		S = T = R				1980	12/80	1980
ABD							1980	12/80	1980
P.M.							1980	12/80	1980
OMAHA, GALLATIN CONTINUED									
1448	GEORGE PAYNE		SPAR MTN						
OMAHA S, GALLATIN, BALINE									
1432	DAVID ROTSTEIN	WOODLARD	CYPRESS	7-88-8E		164			
OMAHA W, BALINE									
3623	ILL. MID-CONT.	OMAHA WEST	SAMPLE	36-78-7E, 1-88-7E, 6-88-8E	60	2178	2.6	169	60
ORCHAROVILLE, WAYNE									
4050	ALENE BLADES	LEE, SMELTON & ELLIS	OHARA	26, 32, 33-1N-5E	70	240	6.2	32	70
4093	RAYMAC PETROLEUM CO.	ORCHAROVILLE	AUX VASES	29-1N-5E	1A	435	0.7	111	
ORIENT, FRANKLIN									
1335	V. R. GALLAGHER	ORIENT	AUX VASES	9-78-2E	28	538	2.0	204	15
OSKALOOSA, CLAY									
342	IVAN R. JONES	OSKALOOSA UNIT	AUX VASES	26, 27, 34, 35-4N-5E	35	2080	1.7	137	35
307	TEXACO, INC.	OSKALOOSA UNIT	BENDIST	26, 27, 34, 35-4N-5E		158		1219	3393
PANA, CHRISTIAN									
107	COLLINS BROS.	PANA	BENDIST	34, 35-12N-1E, 3-11N-1E	90	185	17.2	37	90
PARKERSBURG C, EDWARDS, RICHLAND									
3432	ACHE CASING	RIDGLEY	MCCLOSKEY	30-2N-14W		82		7	44
3415	REVIS O. CALVERT	PARKERSBURG	MCCLOSKEY	16, 21-2N-14W		107		26	43
3424	CONTINENTAL OIL	KOERTGE #8	BETHEL	30-2N-14W		179		6	25
3409	MAHATHON OIL CO.	PARKERSBURG U	MCCLOSKEY	8-3N-9E		5134		159	1659
1017	V. T. ORLG. CO.	PARKERSBURG U	CYPRESS	6-1N-14W, 31-2N-14W		911		145	170
PASSPORT, CLAY									
35A	R & R OIL CO	PASSPORT UNIT	MCCLOSKEY	2-4N-8E, 35-5N-8E	20	1769	0.9	213	20
308	SHAKESPEARE OIL	STANLEY-HINTERSHER	MCCLOSKEY	12-4N-8E	15	848	2.4	79	15
327	SHAKESPEARE OIL	PASSPORT U	MCCLOSKEY	11, 12, 1A-4N-8E	11	11574	1.3	569	11
PASSPORT S, CLAY, RICHLAND									
3417	CONTINENTAL OIL	PASSPORT SOUTH UNIT	CYPRESS	18-4N-9E		406		43	76
PATOKA, MARION, CLINTON									
2639	FEAR AND OUNCAN	NW PATOKA	BENDIST	19, 20-4N-1E	150	5725	7.4	287	150
261A	GULF OIL CO	N. PATOKA TRENTON U	TRENTON	1-3N-1W, 6-3N-1E, 31, 32-4N-1E	153	9618	4.2	590	153
2601	KARCHMER PIPE	PATOKA BENDIST	BENDIST	20, 21, 28, 29-4N-1E		6893		6542	14046
2602	KARCHMER PIPE	PATOKA RENOIS	SPAR MTN	21, 22, 29-4N-1E	90	6397	4.3	1009	90
2603	KARCHMER PIPE	STEIN UNIT	CYPRESS	28-4N-1E		220		63	228
PATOKA E, MARION									
2638	HIGHLAND OIL CO	THALMAN	CYPRESS	35-4N-1E			12.9	265	80
2629	MOBIL OIL COMP.	F. H. PEUOICURO	CYPRESS	34-4N-1E		138		7	9
2616	FREO SEIP	HILL	CYPRESS	26-4N-1E				8.4	80
2631	SHELL OIL CO.	EAST PATOKA UNIT	CYPRESS	34-4N-1E	6A2	13103	16.6	632	406
PATOKA S, MARION									
2640	E. H. SELF	DELAY	CYPRESS	9-3N-1E				2.0	110
2627	JOE SIMPKINS OIL	PATOKA SOUTH	CYPRESS	4, 5, 8, 9-3N-1E	200	12660	9.5	1083	200
2619	TRI STAR PROD CO	BENDIST-BANOBSTONE U	BENDIST	5-3N-1E	270	2455	11.4	80	210
PHILLIPSTOWN C, EDWARDS, WHITE									
4395	ABMER OIL CO	GARFIELD-PARSON	AUX VASES	7-48-14W	60	2438	3.0	319	60
4323	N. A. BALDRIDGE	MICHAELS-GREEN-8TURN	CYPRESS	30-38-14W	5	350	0.3	15	5
4257	BARGER ENG	PHILLIPSTOWN U	BETHEL	AUX VASES					
4288	BARGER ENG	CALVIN NORTH	DEGONIA	6-58-11E	159	2418	4.2	192	102
441A	BARGER ENG	CLEVELAND	TAR SPRINGS	25, 36-38-10E	91	261	6.0	12	27
441A	BARGER ENG	CLEVELAND	DEGONIA	36-48-10E, 1-58-10E, 31-43-11E	25A	3978	2.6	430	6
4432	BARGER ENG	PHILLIPSTOWN	TAR SPRINGS	31-48-11E, 36-48-10E	1132	5029	156.2	1009	1114
4249	C. E. BREHM	PHILLIPSTOWN UNIT	PENN	AUX VASES					
4251	BRITISH-AMERICAN	N CALVIN UNIT	CYPRESS	19, 30-48-14W, 30-48-11E	30	1886	4.3	214	30
4349	R. G. CANTRELL	PHILLIPSTOWN U	PENN	31-38-14W		3686		1215	2777
4344	COY OIL CO	GREEN	DEGONIA	1-58-10E, 6-58-11E	100	2658	6.1	541	100
4319	OUNCAN LBE-ROD	CLARK WATERFLOOD	TAR SPRINGS	AUX VASES					
4298	EASON OIL CO.	CLARK WATERFLOOD	BETHEL	30-38-11E		61		11	8
1029	FEAR AND OUNCAN	JOHNSON COOP	BETHEL	31-38-14W		650		30	
4243	FISK S FISK	RAWLINSON 7	CLARK	30-48-11E	60	1266	3.8	34	64
4245	FISK S FISK	MORRIS	DEGONIA	AUX VASES		1102			
4343	FISK S FISK	SEIFRIED WF	MCCLOSKEY	18-38-11E	60	1698	4.3	101	60
4373	V. R. GALLAGHER	CLEVELAND TAR SPRINGS U	DEGONIA	29-38-14W	90	1199	4.9	129	90
4387	V. R. GALLAGHER	KUYKENDALL	CLORE	29-38-14W					
			CYPRESS	25-48-10E					
			BETHEL	25-48-10E					
			AUX VASES	BUCHANAN					
			MCCLOSKEY						
			CYPRESS						
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in Illinois, 1980—continued

RESERVOIR STATISTICS (AV. VALUE) * DEVELOPMENT AND OF 12-31-80 * INJECTION WATER											
FIELD, COUNTY	PERM	DIL	DATE	DATE	WELLS	ACRES	SU=BAND	(F)=FRESH			
NO. (FT)	NET (X)	POR (%)	(MO)GRAV	FIRST ADJ.	UNDER	GR=GRAVEL (M)=MIXED	PHOS=PRODUCED (M)=MIXED	SH=SMALLOW			REMARKS
	(FT)	(%)	(API)	INJ.	INJ.	PROD.	INJ.				
OMAHA, GALLATIN CONTINUED											
1448	2780	4.0	13.0	20	37.5						
OMAHA S, GALLATIN, SALINE											
*1432	2541	19.0	12.9	24	27.0	10=60	12=63	1	1	20	TAR SPRINGS (S)
OMAHA W, SALINE											
3623	2700	10.0				06=68		1	7	100	PRODUCED (S) *ESTIMATEU
ORCHARDVILLE, WAYNE											
4050	2880	9.0				7=75		3	3	70	PRODUCED (S) *ESTIMATEU
4093	2835	10.0				08=65		1	1	40	SM SU, PROD (M)
ORIENT, FRANKLIN											
1335	2670	15.0	18.9	75	38.9	10=66		1	1	40	TAR SPRINGS, PROD (S) *EST, 1980
OSKALOOSA, CLAY											
342	2641	10.0	13.0		37.0	12=63		3	3	100	PENN SU, PHOD (S) *ESTIMATEU SINCE 1972
	2742	11.0			37.0			3	3	100	
* 307	2600	14.2	15.6	54	37.0	01=53	10=68	9	4	396	PENN SU, PHOD (S)
PANA, CHRISTIAN											
107	1455	5.0				5=77		1	2	40	PRODUCED (S) *ESTIMATEU
PANKERSBURG C, EDWARDS, RICHLAND											
*3A32	3190	8.0				04=65	02=69	1	3	80	PRODUCED (S)
*3415	3060	10.0				01=55	01=56	2	7	160	PRODUCED (S) *INCL PRIM PROD 1-55 TO 1-56
*3424	2960	15.0				09=59	07=64	1	1	20	PRODUCED (S)
*3409	3130	8.0	18.0	800		03=55	12=64	5	5	200	CYPRESS, PHOD (S) *INCL 3416
*1017	2770	14.8	16.8	120	37.2	02=59	12=68	3	8	256	PENN SU, PHOD (S) *ESTIMATEU 1965-68
PASSPORT, CLAY											
354	3025	10.0	15.0	35	38.0	06=65		3	2	160	PENN SU, PHOD (S) *ESTIMATEU *68U ONLY
308	3000	9.0			37.0	09=57		1	2	40	PRODUCED (S) *INCL PRIM PROD SINCE 9-57
327	3000	10.0	16.9	911	38.2	07=58		1	2	305	CYPRESS, PHOD (S)
PASSPORT S, CLAY, RICHLAND											
*3417	2700	8.0	15.0	60		07=59	06=64	2	2	100	PENN SU, PHOD (S)
PATOKA, MARION, CLINTON											
2439	1445	10.0				01=66		2	13	160	PRODUCED (S) *EST *INCL PRIM PHOD
2614	3930	17.0	8.0	3	43.0	06=61		3	8	920	PENN SU, PHOD (S)
*2801	1410	27.0	19.0	110	39.0	09=43	12=70	40	47	527	PRODUCED (S)
2602	1550	9.0	18.8	223	40.0	07=48		21	12	445	PRODUCED (S) *ESTIMATEU SINCE 1971
*2603	1280	10.0	21.0	32	39.0	08=51	12=70	6	2	61	PRODUCED (S)
PATOKA E, MARION											
2638	1340	15.0				06=65		* 10		100	*ADJACENT TO ACTIVE W,F,I *EST
*2629	1370	19.0	19.2	62	38.6	06=66	01=68	2	1	30	TAR SPR, PHOD (S)
2616	1360	14.0				2=65		* 4		40	* *EST, *ADJ. TO 2631 SINCE 65
2631	1350	18.0	20.0	139	36.0	06=65		7	12	150	TAR SPR, PHOD (S) *ADJUSTED BY OPERATOR
	1465	11.0	18.0	120							
PATOKA S, MARION											
2640	1350	7.0				10=64		* 4		80	*ADJ. ACT. W,F *EST *INCL PRIM 64=77
2627	1360	15.1				08=64		29	29	580	TAR SPR, PHOD (S) *ESTIMATEU
2619	1456	14.0			36.5	02=64		5	8	200	TAR SPR, PHOD (S) *ESTIMATEU 1980
PHILLIPSTOWN C, EDWARDS, WHITE											
4395	2885	15.0			38.5	04=61		1	3	222	PENN SU, PHOD (S) *ESTIMATEU SINCE 1971
4323	2700	10.0				06=68		1	2	30	PENN SU (M) *ESTIMATEU SINCE 1971
	2825	6.0						1	2	30	
	2920	10.0						1	3	40	
4257	1928	16.0			36.0	12=69		3	2	80	PRODUCED (S)
	2300	7.0				02=56					
4288	2690	12.0	16.0	50	36.5	3=78		3	4	130	SM SU, PHOD (M)
	3050	8.0	14.0	220	38.6						
4414	1935	15.0				11=67		4	2	110	PRODUCED (S)
	2385	7.0				05=65					
4432	1350	20.0	20.0	200	36.0	11=73		21	37	320	RIVER GRAVEL (F)
	2300	20.0	18.0	20							
	2850	10.0									
4249	1950	10.0	13.0	36	36.0	06=65		2	9	160	PENN SU, PHOD (S) *DATA FROM 1980
	2730	10.0								60	
*4251	1550	29.0	17.6	86	32.0	06=51	11=63	9	9	180	TAR SPR, PHOD (S)
4369	1970	10.0	18.3	35	37.7	09=62		6	10	200	RIVER, PHOD (M) *ESTIMATEU *68U ONLY
	2300	8.0	15.0	29	35.7			2	3	70	
*4344	2820	10.0	13.0	8	36.0	11=62	01=67	1	2	30	GRAV, PROD (M)
*4319	1824	12.0			32.8	12=64	06=71	2	4	40	TAR SPR, PHOD (S)
4298	1350	15.0	22.2	275		04=70		2	7	97	SM SU, PHOD (M) *CLARK, OEG *BETHEL, AUX VASES
	1950	40.0	16.5	21		01=66				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	37.0	05=64		2	5	140	PENN SU, PHOD (S) *ESTIMATEU SINCE 1971
4243	1997	3.0				01=66		1	1	80	PRODUCED (S) *ESTIMATEU SINCE 1972
	2050	6.0						1	1	50	
	2700	14.0						1	5	60	
	2803	8.0						2	3	80	
	2910	11.0						1	3	50	
	3000	12.0						1	2	60	
4245	2700	10.0				07=67		1	3	30	PURCHASEU (M) *ESTIMATEU
4343	1842	14.0	16.2	88	32.0	06=62		3	2	50	PENN SU, PHOD (S) *ESTIMATEU SINCE 1972
	2820	11.0	14.2	10				2	4	150	
*4373	2310	9.0	18.3	68	33.9	10=63	10=72	3	2	110	PENN SU, PHOD (S) *INCL PRIM PROD SINCE 10=63
4387	1300	15.0				01=71		2	2	20	PENN SU, PHOD (M) *ESTIMATEU 1980
	1490	15.0				07=64				40	

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)								
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER	OIL	WATER						
PROJECT NO., OPERATOR	U = UNIT		S = T = R	INJECTION	PRODUCTION	PRODUCTION	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.			
							1980	12/80	1980	12/80	1980	12/80
PHILLIPSTOWN C, EDWARDS, WHITE												
CONTINUED												
4387 V. R. GALLAGHER		OEGONIA										
4224 GETTY OIL CO	N PHILLIPSTOWN	PENN	18,19-48-11E	249	6152	25,0	4953	226	3281			
		OEGONIA										
4370 GETTY OIL CO	GENNIS "8" OEEP	CLORE	18-48-11E		127		1		14			
		AUX VASES										
		MCCLOSKEY										
4458 JUNIPER PETROLEUM C CLEVELANO		TAR SPRNGS	36-48-10E	30	39	15,4	60*	17	26*			
4284 K W S OIL PROP, MONTARNOLO		PENN	6-48-14W	430	4394	34,4	1021	421	3074			
		WALTERSBURG										
		AUX VASES										
4277 KIRBY PETROLEUM	W.P.B.S. UNIT	BETHEL	26,35-48-10E		1791		160		949			
4250 MOBIL OIL CORP.	GRAYVILLE U	CYPRESS	20,29-38-14W		737		144		552			
4252 MOBIL OIL CORP.	N CALVIN	BIENL	30,31-38-11E		1156		426*		499			
4369 E. M. MORRIS EST	MORRIS A, S	CYPRESS	19,30-38-11E		109*		3*					
4342 ELMER H NOVAK	N CALVIN BIENL U	BIENL	31-38-14W	20*	884*	1,1	49	20*	752*			
4417 PAUL ORTMAN	CECIL & GILLISON	BIENL	31-38-14W	10*	157*	0,8	62*	10*	142*			
4421 LOUIS PESSINA	PHILLIPSTOWN FLOOD	BIENL	19,30-38-14W	250*	409*	8,0	434	175*	2394*			
4215 PHILLIPS PET. CO	KERN U	TAR SPRINGS	35,36-48-10E,	30	1600	5,6	151	35	175			
		AUX VASES	1,2-58-10E									
4254 PHILLIPS PET. CO	LAURA	BETHEL	19-48-11E		197		16		51			
4255 PHILLIPS PET. CO	PHILLIPSTOWN UNIT	PENN	30-48-11E;31-48-14W		2128	9,0	438		523			
		BETHEL										
		AUX VASES										
4232 SKILES OIL CORP.	L.O. CLEVELANO	TAR SPRINGS	36-48-10E		48							
4225 SUN OIL CO.	CARR-RENSHAW	CLORE	18-48-14W	130	203*	30,4	319	128	511			
		AUX VASES										
		MCCLOSKEY										
4256 SUN OIL CO.	PHILLIPSTOWN U	CLORE	6-58-11E		234		110		58			
4270 SUN OIL CO.	PHILLIPSTOWN	TAR SPRINGS	6-58-11E		58				251			
4315 TEXACO, INC.	PHILLIPSTOWN COOP	BETHEL	18-48-14W		909		17		139			
		AUX VASES										
		MCCLOSKEY										
4253 WEST DRILLING CO	FLORA UNIT	OEGONIA	24-48-10E		1471*		129*		1009*			
4306 WEST DRILLING CO	LAURA JOHNSON	OEGONIA	19-48-11E	70*	526*	6,6*	91*	145**	1137**			
		AUX VASES		35*	338*							
		OHARA		40*	369*							
PHILLIPSTOWN S, WHITE												
4357 REBSTOCK OIL CO.	GIVEN-BROWN	TAR SPRINGS	11-53-10E		615*		146		204*			
RACCOON LAKE, MARION												
2617 TEXACO, INC.	ROBICLARE-MCCLOSKEY U	SPAR MTN	3-1N-1E		1844		187		1909			
		MCCLOSKEY										
2626 TEXACO, INC.	RACCOON LAKE UNIT	CYPRESS	3-1N-1E	359	4597	6,4	98	359	5842			
		BENOIST			509							
RALEIGH, SALINE												
3615 WALTER DUNCAN	SPURLOCK	CYPRESS	2-88-6E		167*		53*		82*			
3617 FARRAR OIL CO.	RALEIGH UNIT	CYPRESS	35-78-6E, 2-88-6E	60*	5171*	2,9	957	60*	655*			
3605 KEWANEE OIL CO.	RALEIGH U	AUX VASES	14,15,16-88-6E		1874		282		964			
3627 BUFAV OIL CO	HARRISBURG NORTH U	WALTERSBURG	27-88-6E		204*				38*			
3618 HERMAN GRAHAM	S, RALEIGH U	AUX VASES	20-88-6E	140*	3156*	7,3	261	140*	2424*			
3604 ILL. MID-CONT.	RALEIGH UNIT	AUX VASES	20-88-6E		1246*		64*		400*			
3616 RK PET. CORP.	LEITCH ETAL	AUX VASES	20,21,28,29-88-6E	15*	1340*	0,2	116	15*	324*			
RAYMOND E, MONTGOMERY												
2900 OAKE PETROLEUM	FOSTER-POGGENPOHL	PENN	15,22-10N-4W		38*		6*		15*			
RESERVOIR, JEFFERSON												
2030 FRMERS PETR COOP	WHITSON	MCCLOSKEY	21-18-3E	10*	415*	0,4	65*	10*	415*			
2031 BURRELL G. MINOR	JOHNSON,MULVNY-8LEDGE	MCCLOSKEY	28,33-18-3E	15*	550*	3,7	95*	15*	550*			
RICHVIEW, WASHINGTON												
4016 NICK BABARE	CANTHELL-MARTOCCIO	CYPRESS	2-28-1W	50*	484*	2,9	52	50*	449*			
4015 N. A. BALORIDGE	RICHVIEW	CYPRESS	2-28-1W	100*	3303*	11,3	560	100*	3053*			
4012 C. T. EVANS	RICHVIEW UNIT	CYPRESS	2-28-1W	612	8946	6,1	456*	233	3179			
4017 E. M. BELF	SKIINSKI	CYPRESS	10-25-14W	5*	431*	0,2	47	5*	346*			
4014 GEORGE THOMPSON	THOMPSON	CYPRESS	35-18-1W;2-28-1W	60*	5359*	5,2	342	60*	3174*			
RITTER N, RICHLAND												
3430 ZANETIS OIL PROP	SE OLNEY U	SPAR MTN	18-3N-1E		92		5		54			
ROACHES N, JEFFERSON												
2009 TEXACO, INC.	ROACHES NORTH UNIT		5,8-28-1E		2590		30		2081			
ROCHESTER, WABASH												
3970 ASHLAND O AND R	NORTH ROCHESTER U	PENN	11,14-28-13W		3990*	0,9	457		1884*			
		WALTERSBURG										
3972 ASHLAND O AND R	ROCHESTER COUP	PENN	14-28-13W		8629*	0,5	484		2079*			
3968 YINGLING OIL, INC	KENNARD	PENN	14-28-13W		11592**		783*		4585**			
		WALTERSBURG										
ROLANO C, GALLATIN, WHITE												
4314 ASBHER OIL CO	NORRIS CITY	HARDINSBURG	11,14-68-8E	8*	636*	0,2	65	8*	233*			
4435 N. A. BALORIDGE	PORTER	WALTERSBURG	12-78-8E		522		39		522			
		CYPRESS										
		AUX VASES										
4413 W. & P. BECKER	CROZIER-BILLIHAN	HARDINSBURG	36-58-8E	30*	838*	2,7	56	30*	838*			
4324 ENERGY RESOURCES	N ROLANO U	AUX VASES	35-68-8E;2-78-8E	15*	195*	0,9	11	15*	180*			
4350 ENERGY RESOURCES	S ROLANO U	CYPRESS	10,11-78-8E	60	1051*	3,2	70	60	767*			
		AUX VASES										
4148 EXXON	S, ROLANO	AUX VASES	18,21,22-78-8E		1583*		198		89*			
4258 EXXON	S., ROLANO	WALTERSBURG	14,15,16-78-8E	1118	3966*	36,7	2461	727	1326*			
		AUX VASES										

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER					
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE										
PROJ.	DEPTH	NET	POR	(NO)	GRAV	FIRST	AMO.	UNDER	GR	GRAVEL	(M)	FRESH	BRINE						
NO.	(FT)	PAY	(%)	(API)	INJ.	INJ.	PROD.	INJ.	PROD.	(M)	MIXED								REMARKS
	(FT)									SH	SMALLOW								
PHILLIPSTOWN C, EDWARDS, WHITE																			
CONTINUED																			
4387	1970	16.0				01-67					40								
4224	1400	10.0				01-70		11	13	191									PENN SAND, PROD (B)
	1990	16.0				12-67													
	2035	6.0				12-67		3	4	80									
4370	2845	15.0			34.0	05-71	07-72	2	2	37									PENN SU, PHOU (B)
	2930	25.0						2	2	37									
	3040	23.0						1	2	37									
4458	2294	10.0			37.5	4-79		1	4	30									PURCHASED (M)
4284	1500	25.0	16.5	168		11-67		8	15	160									*INCL OFF&E1 INJECTION 77-78
	2290	5.0																	
	2900	10.0	18.0	100															
4277	2840	11.0	15.5	150	38.0	06-56	12-63	9	12	270									PENN SU, PHOU (B)
4250	2850	27.4	18.4	64		08-54	07-69	2	4	60									PRODUCED (B)
4252	1830	11.0			32.8	05-51	02-61	5	9	60									SH 80, PROD (M)
4369	2700	10.0				08-63	12-65	3	4	40									SH 80 (F)
4342	1800	25.0	17.7		32.0	6-63		3	3	30									PRODUCED (B)
4417	1830	20.0			34.0	06-72		1	6	40									PRODUCED (B)
4421	1830	15.0				02-68		5	17	240									PRODUCED (B)
4215	2360	13.0			36.0	03-68		1	3	30									WELL, PROD (M)
	2950	18.0	20.0	60						90									
4254	2800	10.0	15.0	46	37.0	03-52	01-64	2	2	40									PRODUCED (B)
4255	1850	47.0				08-71		4	4	60									PRODUCED (B)
	2800	18.0				10-57				80									*INJECTION UI8C, 10-78.
	2930	24.0				10-57				80									
4232	2300	12.0				11-55	01-58	1	2	30									PENN SAND (B)
4225	2015	20.0			36.0	01-68		1	4	80									PRODUCED (B)
	2895	18.0								20									*INJ SINCE 1979 ONLY
	3040	6.0								60									
4256	2000	10.0				12-55	06-60	1	5	50									PRODUCED (B)
4270	2248	10.0			34.5	01-53	06-54	1	9	10									PRODUCED (B)
4315	2800	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)
4306	1980	20.0				08-69		1	2	40									PRODUCED (B)
	2960	9.0						1	2	40									
	3035	10.0						1	1	30									*ESTIMATEU *INCL ALL PAY8
PHILLIPSTOWN B, WHITE																			
4357	2320	12.0	18.1	33		12-62	07-78	2	3	60									SH 80 (F)
*ESTIMATEU																			
RACCOON LAKE, MARION																			
4217	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	5	120									PRODUCED (B)
	1730	15.0						05-69	1	1	70								
RALEIGH, SALINE																			
4315	2550	10.0			32.0	05-64	12-74	1	1	20									PENN SU, PHOU (B)
3617	2553	14.0			33.7	05-62		18	14	550									CYPRESS, PHOU (B)
3605	2945	10.0	24.0	472	39.0	10-60	12-66	3	4	70									PAINT CK, PHOU (B)
*ESTIMATEU																			
*ESTIMATEU SINCE 1969																			
RALEIGH B, SALINE																			
3627	2050	13.0				01-75		1	2	80									PENN (B)
3618	2840	12.5	18.4	130	38.0	08-64		3	4	80									PENN SU, PHOU (B)
3604	2850	15.0		176	40.4	12-60	01-70	1	3	40									PENN SU, PHOU (B)
3616	2850	15.0	15.0		36.0	03-64		3	1	110									PRODUCED (B)
*ESTIMATEU																			
RAYMOND E, MONTGOMERY																			
4200	595	6.0			34.1	08-59	12-67	2	2	20									PENN SU, PHOU (B)
*ESTIMATEU																			
RESERVOIR, JEFFERSON																			
2030	2720	14.0				10-64		1	1	80									PRODUCED (B)
2031	2740	12.0				6-66		1	3	50									PRODUCED (B)
*EST, *INCL, PRIM SINCE 64																			
*EST, *INCL, PRIM SINCE 66																			
RICHVIEW, WASHINGTON																			
4016	1500	20.0				09-71		1	6	70									TAR SPR, PHOU (B)
4015	1480	20.0				03-70		4	10	140									TAR SPR (B)
4012	1485	13.0	21.0	117	39.0	10-66		5	8	97									TAR SPR, PHOU (B)
4017	1480	25.0				01-71		2	2	20									ADJ TO ACTIVE WF, DATA EST
4014	1477	20.0				09-63		1	7	100									TAR SPR, PHOU (B)
*ESTIMATEU																			
RITTER N, RICHLAND																			
4343	3190	4.0			38.8	09-64	12-65	1	3	160									PENN SAND, PHOU (B)
ROACHES N, JEFFERSON																			
42009	1930	10.7	14.8	134	37.2	08-60	10-73	4	18	460									PRODUCED (B)
ROCHESTER, WABASH																			
3970	1265	12.0	19.0	100	40.1	07-60		2	2	80									GRAVEL BED (F)
	1960	20.0	18.9	100				2	5	90									*INJ, UI8C, 1980
3972	1265	12.0			30.5	01-60			2	70									GRAV, PROD (M)
3968	1350	30.0	17.0	150	33.0	07-60		5	8	80									*INJ, UI8C, 1980
	1950	20.0	18.0	200	37.0			5	5	80									SH 80, GRAV (F)
*ESTIMATEU *NO DATA SINCE 1975																			
ROLAND C, GALLATIN, WHITE																			
4314	2575	8.0	16.0	30	36.6	10-69		5	4	110									SH SAND (F)
4435	2190	12.0				01-62	05-78	1	2	30									PRODUCED (B)
	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	180									PRODUCED (B)
4324	2950	10.0				06-70		2	6	230									PENN SU (B)
4350	2650	6.0				04-70		1	5	60									PENN SU (B)
	2950	10.0								60									
4148	2920	15.0	16.2	61	40.0	06-59	01-76	2	2	120									PENN SU (B)
4258	2175	14.0	19.5	275	31.0	06-55		7	13	629									PENN SU, PHOU (B)
	2900	12.0			39.0														
*NO INJ SINCE 1975																			

in Illinois, 1980—continued

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80			INJECTION WATER			
FIELD, COUNTY	NO. OF	WELLS	ACRES	SOURCE	TYPE	PERM	OIL	DATE	DATE	NO. OF	WELLS	ACRES	SOURCE	TYPE	REMARKS	
PROJ.	DEPTH	NET	POR	(MO)	GRAV	FIRST	ABO.	UNDER	GR	GRAVEL	(B)	BRINE	PROU	PRODUCED	(M)	MIXED
NO.	(FT)	(FT)	(%)	(API)	INJ.	INJ.	PROD.	INJ.	PROD.	PRODUCED	(M)	MIXED	SH	SHALLOW		
ROLAND C, GALLATIN, WHITE																
CONTINUED																
4266	2700	20.0	16.6	65	31.6	06-66		12	15	550	PENN 80, PHOD (B)					
	2775	9.0	12.4	12												
	2900	6.0	13.8	14												
4436	2870	18.0				06-73		1	3	40	PRODUCED (B)					*ESTIMATEU
4396	2332	10.0	23.9	77		02-62		1	2	60	PRODUCED (B)					*ESTIMATEU SINCE 1970
*4361	2200	15.0	18.0		31.0	06-62	U1-68	4	4	80	PENN 80, PHOD (B)					*ESTIMATEU
*4262	2620	20.0	14.0	16		10-56	12-58	2	2	40	TAR SPR, PHOD (B)					*ESTIMATEU, O,F.
*4259	2530	11.6	18.8	256	35.8	07-54	12-66	7	10	170	PRODUCED (B)					
4375	1991	12.0			38.0	08-67		2	1	20	PALESTINE, PROD (B)					*ESTIMATEU
*4347	2685	5.0				07-66	10-68	2	2	40	PENN BAND (F)					
	2600	30.0						4	4	80						
*1446	2750	18.0	14.0	35	38.0	01-70	06-74	8	11	200	PENN 80 (B)					*ESTIMATEU
4419	2590	8.0				04-69		2	3	50	PRODUCED (B)					*ESTIMATEU
	2750	8.0						2	3	50						
	2660	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 SPRING8 (B)					*ESTIMATEU SINCE 1971
	2800	15.0				03-69		2	6	80						
	2920	9.0				01-70		1	1	20						
*4418	2795	15.0				02-64	04-75	1	2	30	PRODUCED (B)					*NO PRODUCTION, 1975
4422	2310	15.0				01-71		3	4	70	PRODUCED (B)					*EST INCL PRIM PROU
	2710	10.0						2	3	60						
4310	1960	6.0	18.7	150		10-68		3	1	30	FRESH, PROU (M)					*ESTIMATEU 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)					
*4316	2935	20.0	14.2	4	35.6	12-61	07-69	8	8	260	SH 80, PHOD (M)					
*4261	2500	25.0	17.6	152	37.0	12-50	04-66	20	24	440	CYPRESS, PHOD (B)					
4322	2150	15.0				07-69		4	6	160	PENN BAND (B)					*ESTIMATEU
	2740	10.0						4	6	160						
	2870	15.0						6	8	180						
4214	1900	9.0				04-68		30	28	770	WELL, PROD (M)					
	2200	12.0								440						
	2250	7.0								90						
	2500	11.0								400						
	2750	14.0								550						
	2900	21.0								150						
4244	2620	14.0	14.0	34	37.0	02-66		9	9	200	PENN 80 (B)					
	2725	9.0	11.0							180						
	2925	15.0	16.5	55						160						
	3000									40						
*4260	2628	15.0	17.0	106		08-55	08-67	38	31	1142	PENN 80, PHOD (B)					
4365	2300	12.4				02-67*		14	24	958	PRODUCED (B)					*UNIT EFFECTIVE 7-66
	2640	10.5	18.0	60												
	2790	10.0	17.0	50												
	2880	22.0														
	2900	10.0														
	2940	3.0														
	2970	3.0														
	3060	1.3														
*1435	2550	12.0	18.5	80	38.0	07-64	05-70	3	7	100	PENN 80, PHOD (B)					
RUARK, LAWRENCE																
2267	1640	8.0	16.0	105	33.8	04-63		1	2	56	SH 80 (F)					*EST. 1973-79
2295	1503	7.0			33.0	4-77		1	1	40	SH 80					
RUARK N, LAWRENCE																
2284	2250	17.0	16.0	100	38.0	08-65		20	15	370	TAR SPR, PHOD (B)					*DATA N/A 1980
2293	2234	11.0				08-65	07-72	0	2	20						*EST. *MINUM IN ACTIVE WF
*2290	2260	10.0				01-67	1-77	0	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	GRAY, PROD (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 80, PROU (M)					
ST, FRANCISVILLE E, LAWRENCE																
*2218	1740	27.0	17.0	40	36.5	11-57	11-72	6	9	160	HIVEH GRAVEL (F)					
ST JACOB, MADISON																
2504	2340	20.0	6.0		35.6	11-65		4	7	230	SH 80, PHOD (M)					*ESTIMATEU SINCE 1972
2503	2351	15.7	9.6	11	37.0	08-62		7	11	310	AUX VASES, PROD (B)					
2505	2320	18.0	9.6		36.0	11-65		2	6	180	AUX VASES, PROD (B)					
ST JAMES, FAYETTE																
1238	1560	16.0	20.0	150		07-63		3	6	50	PRODUCED (B)					*ESTIMATEU SINCE 1971
1245	3130	42.0			37.4	12-65		1	5	80	PRODUCED (B)					*INCL PRIM PROD SINCE 1-66 *EST
1250	3100	20.0				01-66		1	6	240	PRODUCED (B)					*EST. *INC PRIM, PROD.
1253	1600	10.0				01-61		3	16	175	PRODUCED (B)					*ESTIMATEU
1240	1600	22.0	18.0	230		08-63		7	19	588	PRODUCED (B)					
*1222	1595	20.0			34.0	03-54	12-62	3	9	100	PRODUCED (B)					*1959-1962 ESTIMATEU
1251	3090	45.0	11.0			04-68		1	5	90	PRODUCED (B)					*ESTIMATEU SINCE 1978
1239	1600	13.4	19.6	76	37.0	05-63		3	10	400	PRODUCED (B)					
STE MARIE, JASPER																
*1912	2910	10.0			36.2	11-61	12-65	2	6	160	CYPRESS (B)					*O,F., UNKNOWN *DATA ESTIMATEU
*1905	2860	7.0				10-68	12-60	1	14	400	PRODUCED (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	08-78	1	2	60	RIVER GRAVEL (F)					

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)			
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	
PROJECT NO., OPERATOR	U = UNIT		B = T = R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	
• A,B				1980	12/80	1980	12/80
• P,M,							1980
SAILOR SPRINGS C, CLAY, EFFNGHAM, JASPEK							
385 ABCO OIL DP.	CAILTEAUX-MEDLEY	CYPRESS	12-3N-7E	AD	670	5.6	105
		SPAR MTN					AD
393 ABSHER OIL CO	DUFF	CYPRESS	12-3N-7E	20	360	2.5	58
318 ASHLAND D AND R	E. FLORA	MCCLOSKY	16,21-3N-7E		2173		195
377 ASHLAND D AND R	E W KECK LEASE	MCCLOSKY	35-4N-7E	46	227	3.6	46
348 BANGERT CASING	STASER U	CYPRESS	12,13,14-3N-7E		2607		192
370 BANGERT CASING	ARMSTRONG U	CYPRESS	3,10-3N-7E		210	2.2	19
386 BANGERT CASING	DUFF	CYPRESS	12-3N-7E	18	676	2.5	64
1106 HW, S P. BECKER	ROBICLARE LIME UNIT	SPAR MTN	5-5N-7E, 32-6N-7E		7552		971
309 CITIES SERVICE	WYATT	AUX VABES	13-5N-7E		871		AU
		SPAR MTN					
359 WALTER DUNCAN	GOULD UNIT	CYPRESS	15-5N-7E	237	4495	9.7	1271
388 WALTER DUNCAN	M.D. LEWIS	CYPRESS	9-5N-7E	511	511	8.1	215
1102 WALTER DUNCAN	BRINK	CYPRESS	34-6N-7E	292	2986	4.4	548
1116 WALTER DUNCAN	KLUTHE	CYPRESS	33-6N-7E	110	1010	3.2	307
374 J. C. FRANKLIN	NW CLAY	CYPRESS	2-3N-7E/35-4N-7E	28	685	1.8	82
		AUX VABES					
389 J. C. FRANKLIN	DICKEY	CYPRESS	3-3N-7E	70	70	0.7	52
390 J. C. FRANKLIN	GERMAN #5	CYPRESS	9-3N-7E				
1114 J. C. FRANKLIN	REINHART, STORTZUM	CYPRESS	22-6N-7E	450	2307	5.3	202
310 GULF OIL CO	K. KECK	CYPRESS	26-4N-7E		65		11
339 GULF OIL CO	SAILOR SPRINGS UNIT	CYPRESS	26-4N-7E		315		49
1118 GULF OIL CO	F H KLUTHE	CYPRESS	33-6N-7E			29.2	792
328 C.O. HAGAN	SAILOR SPRINGS	TAR SPRINGS	26-4N-7E	45	3309	2.2	176
		CYPRESS					
356 JET OIL CO.	BIBLE GROVE UNIT	CYPRESS	10-5N-7E	593	11977	12.9	1339
1107 JET OIL CO.	BLUNT COMM U	MCCLOSKY	17,20-6N-7E		970		102
329 JUNIPER PETROLEUM C N SAILOR SPRINGS		CYPRESS	2-4N-7E, 35-5N-7E	78	4586	3.5	226
		AUX VABES					
364 K W B OIL PRDP.	HIGHTGOLOBBY-WILSON	SPAR MTN					
		CYPRESS	3A-4N-7E	239	3642	12.4	209
		AUX VABES					
375 K W B OIL PRDP.	HIGHTPATTON-BMITH U	CYPRESS	11-3N-7E	39	358	1.8	33
1100 KEN-TEX	BIBLE GROVE	SPAR MTN	28,29-6N-7E	35	4778	1.7	4A6
		MC CLOSKY					
1103 KINGWOOD OIL CO.	NAULER AND JUERGENS	CYPRESS	28-6N-7E		1834		101
		SPAR MTN					
319 LAOD PETROLEUM	SAILOR SPRINGS U	CYPRESS	13-5N-7E	122	2756	4.2	173
387 LAOD PETROLEUM	A.J. LEWIS	CYPRESS	9-5N-7E			13.4	227
1117 LAOD PETROLEUM	J HANBE	CYPRESS	33-6N-7E			A.2	209
1109 MERRMAN LOEB	BIBLE GROVE U, 80, U.	CYPRESS	22,27,28,34-6N-7E	250	8176	5.3	1208
352 MAC OIL COMPANY	BIBLE WF UNIT	CYPRESS	9-4N-7E	63	2022	5.9	303
391 MAC OIL COMPANY	CARTER	CYPRESS	24-5N-7E		945	2.7	67
312 M. C. MCBRIDE	GOLDBAY-DICKEY	CYPRESS	34-4N-7E		622		31
313 M. C. MCBRIDE	DUFF-KECK	CYPRESS	26,35-4N-7E		18A5		140
314 M. C. MCBRIDE	BOTHWELL	CYPRESS	1A-3N-7E		98		5
344 M. C. MCBRIDE	DEMART	CYPRESS	9,10-3N-7E		989		81
311 MCCOLM, KINCAID	SAILOR SPRINGS	CYPRESS	1A,15,23-4N-7E		6979		1023
336 MCCOLM, KINCAID	NORTH HOUSTON UNIT	CYPRESS	10-4N-7E		2174		465
355 MCCOLM, KINCAID	BIBLE GROVE WF UNIT	CYPRESS	15,22-5N-7E	263	5882	1A.5	1190
382 MCCOLM, KINCAID	HANDIN	CYPRESS	10-5N-7E		300		36
383 MCCOLM, KINCAID	CHLDRS-MALL-HARD-MARH	CYPRESS	9,10-5N-7E	66	294	7.0	77
366 MCKINNEY, PUNDERS	SPARLIN	CYPRESS	3-5N-7E		174		46
340 MOBIL OIL CORP.	NORTH HOUSTON U	CYPRESS	15-4N-7E		1608		27A
321 BERNARD PODOLSKY	BUCK CREEK U	MCCLOSKY	8,9,16,17-3N-7E	317	4794	8.8	237
333 BERNARD PODOLSKY	C. BOWERS	MCCLOSKY	16-3N-7E		231		44
371 BERNARD PODOLSKY	E FLORA	MCCLOSKY	9-3N-7E	53	1093	5.4	26
343 RAY-DORR OIL CO.	HASTINGS	CYPRESS	23-4N-7E		118		7
368 C D REED	MCCOLLUM	CYPRESS	9,16-4N-7E	60	1186	2.8	106
369 E B REYNOLDS EST.	BORCK	CYPRESS	5-5N-7E	85	1298	A.3	96
379 ROBERTSON OIL CO.	BATEMAN, CROUSE, WDRKMN	CYPRESS	24,25-5N-7E		51		36
361 RUBERT ROBE	BATEMAN UNIT	CYPRESS	25,26,35-5N-7E	70	2A36	d.A	112
350 SHAKESPEARE OIL	STANFORD UNIT	SPAR MTN	22,27-3N-7E	1	A45	U.8	31
315 SHULMAN BROTHERS	COLCLASURE AND MARDY	CYPRESS	10-3N-7E		1177		28
316 SHULMAN BROTHERS	NEPP	MCCLOSKY	16-3N-7E		99		3
325 SHULMAN BROTHERS	LEWIS-CYPRESS	CYPRESS	13-5N-7E		84		5
367 SD, TRIANGLE CO.	SAILOR SPRINGS	CYPRESS	11,12,13,1A-4N-7E		510		10
360 TEXACO, INC.	NORTH BIBLE GROVE U	CYPRESS	3,4,5,8,9,10-5N-7E, 32-6N-7E	2819	47018	42.8	3808
365 TEXACO, INC.	N G LANDWEHR	CYPRESS	9-5N-7E		1988	3.4	117
392 TEXACO, INC.	MASCHER	CYPRESS	9-5N-7E			6.1	111
1115 N. O. WILSON II	KLUTHE-STORTZUM-LAKE	CYPRESS	15,22-6N-7E	80	700	1U.7	259
SALEM C, JEFFERSON, MARION							
2618 T. L. CLARK	PHELPS-WALNUT HILL U.	SPAR MTN	28,33-1N-2E	18	2800	1.7	232
2612 EGO OIL CO	SEBASTIAN	BENDIST	21-1N-2E		319		33
2624 EGO OIL CO	LUTTRELL	SPAR MTN	15-1N-2E		178		20
2633 EGO OIL CO	BURGE	SPAR MTN	21-1N-2E		1A6		17
2006 EXXON	DIX R. AND PM.	BENDIST	3,4,9,10,15,16-18-2E	1U60	335A0	106.8	15509
2010 EXXON	SALEM CONS	AUX VABES	3,4,10-18-2E	75A	311A1	16.A	1244
2604 TEXACO, INC.	ROBICLARE SAND UNIT	SPAR MTN	15-1N-2E		1913		96
2605 TEXACO, INC.	SALEM UNIT	BENDIST	71,2N-2E		3552	542107	183.3
2606 TEXACO, INC.	SALEM UNIT	DEVONIAN	71,2N-2E	47897	A9518A	905.4	16051
2607 TEXACO, INC.	SALEM UNIT	MCCLOSKY	71,2N-2E	11670	484356	276.9	24038
2608 TEXACO, INC.	SALEM UNIT	AUX VABES	71,2N-2E	2A316	600765	248.2	3A502
2636 TEXACO, INC.	SALEM U	SALEM	71,2N-2E	3109	29832	73.7	1246
2637 TEXACO, INC.	SALEM U	TRENTON	1-2N-2E		806		4
SANBVILLE N, EDWARDS							
1010 ASHLAND D AND R	WEST SALEM	BETHEL	30-1N-1A W		319		7
SCHMELL, RICHLAND							
3439 UNION OIL CALIF.	SCHMELL CONSOL	MCCLOSKY	7-2N-9E		858	0.7	43

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER		REMARKS
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE							
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	(NO) (API)	GRAV INJ.	FIRST INJ.	ASO.	UNDER	SH-SAND	SH-GRAVEL	(F) FRESH	(B) BRINE	(M) MIXED			
SAILOR SPRINGS C, CLAY, EFFNGHAM, JASPER																
385	2600	12.0				6-58		1	5	60	PRODUCED (R)			*EST. + INCL PRIM SINCE 66		
	2970	8.0						1	2	30						
393	2625	12.0				6-55		1	4	50	PRODUCED (R)			*EST. + INCL PRIM SINCE 58		
378	2950	6.0	16.0	800	36.7	11-56	12-66	3	9	160	PRODUCED (R)					
377	2991	10.0				12-72		1	4	140	PRODUCED (R)			*INJ. OILC, 9/76-79		
348	2620	20.0	16.0	20	37.0	06-65	07-78	8	6	100	PENN 80, PROD (B)			*ESTIMATE SINCE 1977		
370	2600	10.0				07-71		2	3	110	PENN 80, PROD (B)			*INJ. CONT, 5-74 TO 5-77 + EST		
386	2625	15.0				7-55		2	4	60	PRODUCED (R)			*EST. + INCL PRIM SINCE 55		
1106	2800	10.0			38.5	06-61		6	9	550	GRAY, PROD (M)			*NO DATA AVAILABLE SINCE 78		
309	2770	9.2	17.0	50	35.0	09-53	12-61	2	2	40	PENN 80, PROD (B)					
	2845	10.0				01-61	01-62	1	1	20						
359	2500	15.0	16.0	130		01-66		3	8	110	PENN 80 (R)			*EST. 1973-79		
388	2525	12.0				1-65+		1	4	50	PRODUCED (R)			*SINCE 1980 ONLY		
1102	2530	18.0				12-57		2	5	70	PENN 80, PROD (B)			*EST. 1973-79		
1116	2520	15.0				05-69		1	5	60	PRODUCED (R)			*EST. 1973-79		
374	2600	12.0				12-70		1	2	80	PRODUCED (R)					
	2840	12.0						2	4	80						
369	2590	10.0				01-56+		1	1	60				*ADJ. TO 366+312/1980 DATA ONLY		
390	2585	90.0				05-80					PRODUCED (R)			*DATA N/A		
1114	2560	6.0				06-67		1	3	50	PRODUCED (R)					
310	2602	10.0				09-57	03-60	1	1	20	PRODUCED (R)					
339	2600	20.0	16.0	10	37.6	06-63	07-66	3	3	60	PRODUCED (R)					
1118	2510	10.0				01-66			4	80				*AFFECTED BY PROJ. 360		
328	2300	7.0	20.0		32.7	04-58		1	10	150	PRODUCED (R)			*ESTIMATE SINCE 1971		
	2600	7.0	19.0					1	7	100						
356	2440	20.0	20.0	70	38.0	01-66		12	14	430	PENN SAND (M)					
1107	2660	5.0				11-62	06-69	3	5	80	LAKE, PROD (M)					
329	2560	8.0			36.0	11-56		3	3	60	PENN 80, PROD (B)					
	2600	15.0						3	2							
	2880	6.0						4	3							
364	2585	12.0				01-69		6	12	150	PENN 80, PROD (B)					
	2430	6.0														
375	2575	10.0			37.5	05-72		1	3	60	PENN 80, PROD (B)					
1100	2850	5.0			37.0	07-54		1	1	40	CYP, T.B., PROD (B)			*ESTIMATE SINCE 1971		
	2870	4.0						3	3	180						
1103	2856	9.0				06-55	07-65	1	1	20	CYPRESS, PROD (B)					
	2863	6.0						3	3	100						
319	2600	12.0			36.5	07-67		2	8	400	CYPRESS SD (B)					
367	2475	25.0				1-67+			6	70	PRODUCED (R)			*EST. + ADJ. TO ACTIVE #F SINCE 67		
1117	2500	25.0				06-68			3	60				*ADJ. TO ACTIVE #F		
1109	2520	7.0			38.0	01-65		12	11	385	SH 80, PROD (M)			*ESTIMATE SINCE 1977.		
352	2600	20.0	18.0	24	37.7	09-63		2	8	160	PENN 80, PROD (B)					
391	2540	9.0				7-64		1	2	30	PRODUCED (R)			*INCL PRIM SINCE 64 + SWU ONLY		
312	2580	15.0	15.4	17	38.0	09-55	10-64	1	2	50	PRODUCED (R)					
313	2600	12.0	19.0	60	38.0	07-53	09-66	2	5	120	PRODUCED (R)					
314	2650	10.0	19.0	20	36.0	08-56	12-59	1	1	20	PRODUCED (R)					
344	2610	15.0	17.5	50		11-64	12-77	1	3	60	PENN 80, PROD (B)			*ESTIMATE 1917 DATA		
311	2600	15.1	17.3	48	37.0	07-54	01-69	11	18	350	CYP 80, PROD (M)					
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		3	13	200	PENN 80, PROD (B)					
382	2475	10.0				1-66+	8-75		1	10				*EST. # WINDOW IN PROJ. 356		
383	2560	18.0				07-75		1	4	70	PRODUCED (R)					
366	2510	8.0				07-69	1-78	1	1	60	PRODUCED (R)					
340	2600	12.0	18.7	40	37.0	08-62	12-68	10	5	140	PENN 80 (B)					
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 (R)					
371	2950	7.0			35.0	02-71		1	2	20	PURCHASE (M)			*ESTIMATE		
343	2600	16.0	17.0	56	37.4	10-63	12-66	1	1	40	PENN 80, PROD (B)			*1964-1966 ESTIMATE		
368	2620	15.0				06-69		1	6	70	PRODUCED (R)			*ESTIMATE		
369	2500	15.0				06-69		2	4	60	PRODUCED (R)			*ESTIMATE		
379	2575	13.0				09-75		1	4	40	LAKE AND PRODUCED			*DATA N/A 1980		
361	2570	11.0	17.0	31		01-66		2	3	240	PRODUCED (R)			*ESTIMATE		
350	2990	10.0				12-65		1	2	15	SH 80, PROD (M)					
315	2620	15.0	16.4	16	36.0	07-57	06-65	1	1	80	PRODUCED (R)					
316	3000	5.0			36.0	01-57	12-59	2	1	80	TAK SPRINGS (M)					
325	2510	8.0			36.0	01-66	09-67	1	1	30	PRODUCED (R)					
367	2620	12.0	17.2	75	36.0	09-70	12-72	5	6	120	PENN 80 (B)					
360	2475	30.0	16.3	67	37.0	07-66		27	26	1320	PENN 80 (B)					
365	2450	10.0	16.0	113	37.0	01-69			3	80	PRODUCED (R)			*INJ. 80SP, 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		1	7	100	PRODUCED (R)					
SALEM C, JEFFERSON, MARION																
2618	2102	7.0	12.0		39.2	06-63		4	11	260	PENN 80, PROD (B)			*ESTIMATE SINCE 1974		
2612	1927	8.0			34.6	01-59	01-78+	1	2	10	PRODUCED (R)			*ESTIMATE + INACTIVE 1975		
2624	2100	15.0				01-67	11-78	1	2	30	PRODUCED (R)			*INACTIVE 1975		
2633	2110	8.0				01-71		1	4	40	PRODUCED (R)					
2006	1950	19.0	16.7	130	38.0	01-48		5	25	760	PENN 80, PROD (B)					
2010	2000	16.0	14.0	20	38.0	08-60		9	16	720	PENN 80, PROD (B)					
2604	2093	14.0	11.5	43	36.5	04-50	08-62	3	5	100	PRODUCED (R)					
2605	1770	28.0	17.9	150	37.0	10-50		25	49	8247	LAKE, PROD (M)					
2606	3400	19.0	16.8	300	36.5	10-50		77	127	5614	UPPER 80, PROD (B)					
2607	1950	20.0	15.8	700	37.0	04-51		62	66	7712	LAKE, PROD (M)					
2608	1825	26.0	16.3	28	37.0	10-50		106	70	4861	LAKE, PROD (M)					
2636	2175	25.0	10.5	35	37.5	01-71		10	27	4263	PROD, FRESH (M)					
2637	4520	99.0	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 (R)					
SCMELL, RICHLAND																
3439	2988	15.0			39.5	08-68		1	1	103	PRODUCED (R)			*INJ. 80SP.		

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBLs)				
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION			
PROJECT NO., OPERATOR	U = UNIT		S = T = R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	1980	12/80	1980
A B O				1980	12/80	1980	12/80	1980	12/80
P, M.									
SEMINARY, RICHLAND									
*3410 R. JOHNSON	SEMINARY	HCCLOSKEY	17-2N-10E		889	25			290
BESSER C, FRANKLIN									
1343 N. A. BALORIOGE	GALLOWAY	AUX VASES	20-58-2E	100*	915*	8.5	150*	100*	915*
1318 W. & P. BECKER	OLD BEN COAL FLOOD	AUX VASES	13,14,23,24-68-1E	350*	8002*	18.8	777*	350*	5485*
			CLEAR CREEK						
1325 FARRAR OIL CO.	BESSER UNIT	AUX VASES	26,35-58-1E/2-68-1E	90*	2509*	17.1	1018	90*	1205*
1330 FARRAR OIL CO.	CHRISTOPHEN U	RENAULT	24,25-68-1E1	30*	592*	3.0	82	30*	276*
			AUX VASES						
*1306 WILL I LEWIS EST	BESSER U	RENAULT	17,19,20-58-2E		1574		173		75
1339 JOE SIMPKINS OIL	SOUTH BESSER UNIT	AUX VASES	2-68-1E	110*	762*	5.5	38	110*	647*
SHATTUC, CLINTON									
410 T. M. CONREY, JR	SHATTUC WF	CYPRESS	27,28-2N-1W	174*	1658*	9.6	187	174*	1119*
			SENOIST						
SHAWNEETOWN N, GALLATIN									
*1416 SUN OIL CO.	L. MILLEN	AUX VASES	7-98-10E		357		48		163
BIGGINS, CLARK, CUMBERLAND									
* 216 ACME CASING	UNION GROUP	2ND BIGGINS	18-10N-11E		23839		2721		21092
700 BELL BROTHERS	FLOOD 1	2ND BIGGINS	13-10N-10E	68	1224	2.4	285	68	1238
* 701 COCONOUR, CLARK	VEVAY PARK	2ND BIGGINS	25-10N-10E		255		2		103
702 MARATHON OIL CO.	BIGGINS	2ND BIGGINS	13,14-10N-10E, 7,11,12-10N-11E	1062	110931	69.7	13431	2337	29948*
* 215 OMER M. DOLE	BIGGINS	BIGGINS	7-10N-14W		50*		9*		50*
			7-10N-11E						
707 CLIFFORD A. PERRY	NEEDER	2ND BIGGINS	24-10N-10E	10*	127*	1.0	15	10*	127*
SORENTO C, BONO									
7 JACK COLE	YOUNG & VONBERG U.	PENN	32-6N-4W	5*	260*	0.3	12	5*	105*
* 5 JOE A. OULL	SORENTO SOUTH	LINGLE	29-6N-4W		88		4		57*
STAUNTON W, MACOUPIN									
2400 RAY E. HOWELL	OEHNE	PENN	16-7N-7W		16*		1*		2*
STENAROSON, SHELBY									
3800 W. L. BELOEN	CHAFFEE-HARPER-WABASH	AUX VASES	27-10N-5E	115	2805	13.3	427*	115*	2405*
3801 DONALD W. GESELL	MONT MORAN	AUX VASES	27-10N-5E	93	2202	2.0	159	93	1692
			SPAN MTN						
STORMS C, WHITE									
4431 ATLAS DRILLING	M8 & GP MANNA	TAR SPRIN	28-58-10E		1000		58		1000*
4204 C. E. BREMH	R=0 U	WALTERSBURG	12,13-68-9E	346	4869	12.4	540	290	290*
4438 C. E. BREMH	C. S. AUSTIN	WALTERSBURG	22-68-9E			37.0	362	540*	6610*
4241 JACK BROOKOVER	W. S. MANNA	PENN	28-58-10E	31	580	1.4	36	31	515
4263 JIM MALEY	STORMS PUOL UNIT	WALTERSBURG	2,11-15,22-24-68-9E	540*	127477*	21.6*	3131	540*	78899*
			AUX VASES						
4457 JIM MALEY	ARMSTRONGSHALL-MYERS	WALTERSBURG	1-68-9E	*	90	6.7	198	35*	1100*
*4271 MAHEE PET. CORP.	STORMS	WALTERSBURG	24-68-9E		90				
4451 MURVIN OIL CO.	PENGUSON	BIEML	32-58-10E	*		1.5	107	10*	430*
			CLORE						
4450 O M ANU F OIL CO	LAND	CLORE	32-53-10E/5-68-10E	45*	945*	3.9	133*	45*	945*
4248 DENNIS PAINE	ALURIOGE	WALTERSBURG	12-68-9E	100*	6691*	3.2*	324*		
			AUX VASES						
4380 DENNIS PAINE	TRAINON	TAR SPRINGS	23-68-9E	*	680*	6.0	111	*	680*
4449 DENNIS PAINE	PECHTEN-RICE	CLORE	22-58-10E	4*	78*	0.2	12	**	78*
*4296 BERNARD PODOLSKY	MCQUEEN	PALESTINE							
		OEGONIA	32-58-10E		1873		210		721
			CLORE						
4240 QUASAR, INC.	PUMEROY	AUX VASES	24,33-58-10E	9*	498*	0.5	30	9*	223*
4415 SO. TRIANGLE CO.	STORMS UNIT (WILSON)	WALTERSBURG	22-68-9E	639*	7478*	18.4	660*	2661*	5865*
4234 SUN OIL CO.	S STORMS EXTENSION	WALTERSBURG	12,13-68-9E	1056	13401*	40.1	754	1129	10823*
4399 SUN OIL CO.	N STORMS EXT CUOP	WALTERSBURG	1,12-68-9E/6-68-10E	1768	22485	35.6	1078*	1441	19735
			TAR SPRINGS						
			AUX VASES						
4295 TAMARACK PET.	MANNA	CLORE	32-53-10E		1754		322		815*
*4327 TAMARACK PET.	CALVERT	CLORE	32-58-10E		402		2		19
4366 TAMARACK PET.	MANNA "A"	BIEML	24-58-10E	32	932	1.2	76	39	779
*4372 TAMARACK PET.	MANNA	BIEML	32-58-10E		424		*		*
4285 TAHTAN OIL CO.	PERGUSON=RUOOLPH	PENN	22-58-10E	15*	502*	0.7	17	15*	270*
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									
4381 DEE DRILLING	BONO=HELDNERSON	OMAHA	20,29-48-10E	*	1167*	0.2*	60	*	652*
4420 DEE DRILLING	W CROSSVILLE S UNIT	OMAHA	20,29,30-48-10E	70*	3200*	3.6	168*	70*	1740*
4408 EAGLE SUPPLY CO	CAHMI	AUX VASES	12-58-9E		787		292		336*
			SPAN MTN						
4231 T. W. GEORGE EST.	SUMPTER E	AUX VASES	29,31,32-48-10E/ 5,6-58-10E	64	4168	9.4	344	48	1340
			SPAN MTN						
4425 HERTZING PROD. CORP.	CHERRY SHOALS UNIT	CYPRESS	17,20,21-48-10E	40*	1064*	2.0	54*	40*	774*
4424 SLAUGHTER PRODUCING	W CROSSVILLE U	OMAHA	20,29-48-10E	375*	4375*	17.0	219*	375*	2930*
SUMPTER N, WHITE									
4221 SHAKESPEARE OIL	SUMPTER NORTH U	AUX VASES	20,29-48-9E	86	2429	2.4	153	85	984
4423 WARRIOR OIL CO.	MORRILL	AUX VASES	21-48-9E	14	256	2.9	99	14	256
SUMPTER S, WHITE									
4430 FRMERS PETR COOP	SOUTH SUMPTER	TAR SPRINGS	34,35-48-9E/2,3-58-9E	94	658	16.4	169	94*	379*
4437 K W S OIL PROP.	HGHT JOSEPH JACOBS	TAR SPRINGS	34-43-9E	5	293	2.0	20	5	174
*4345 SO. TRIANGLE CO.	SUMPTER SOUTH UNIT	AUX VASES	2,3-83-9E		859		81		371
*4346 SO. TRIANGLE CO.	SUMPTER NORTH UNIT	AUX VASES	34,35-48-9E		642		44		214

in Illinois, 1980—continued

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER		REMARKS											
FIELD, COUNTY		DEPTH	NET	POR	PERM	OIL	DATE	DATE	NO. OF	ACRES	SU= SAND	SR= GRAVEL	BR= BRINE	SH= SHALLOW	PROD= PRODUCED		PROJ. NO.	DEPTH (FT)	PAY (%)	API	FIRST INJ.	ASB.	INJ.	PROD.	INJ.	PRODUCED	MIXED
SEMINARY, RICHLAND		3410	3000	8.0		36.0	02-54	04-57	2	4	120	CYPRESS (S)															
SESSER C, FRANKLIN		1343	2670	12.0			01-70		1	7	80	PRODUCED (S)															*EST. + ADJUSTED 1980
		1318	2600	18.0		40.0	07-64		8	18	410	PENN SD, PROD (S)															*EST. SINCE 1973 + ADJUSTED
			4375	20.0		40.0			1	2	60																
		1325	2600	15.0	18.0	10	38.0	05-65	6	14	360	CYPRESS, PROD (S)														*ESTIMATED SINCE 1977	
		1330	2570	10.0			10-69		1	5	60	CITY WATER (F)														*EST SINCE 1976	
			2600	6.0					3	5	80																
		*1306	2690	5.0		39.4	08-58	01-70	6	6	220	LAKE, PROD (M)															
		1339	2610	15.0			10-74		2	6	140	PRODUCED (S)															*ESTIMATED
SHATTUCK, CLINTON		410	1285	6.0		34.6	07-59		3	8	110	TAR SPH, PROD (S)															*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 SD (S)															
SIGGINS, CLARK, CUMBERLAND		* 216	404	31.0	18.0	51	36.0	12-46	01-72	92	84	GRAV, PROD (M)															
		700	320	18.9	18.9	73	35.9	09-50		5	14	SURFACE (M)															
		* 701	600	16.0	20.3	349	30.1	12-50	12-50	2	4	LAKE, PROD (M)															
		702	400	32.0	17.5	56	36.4	06-42		337	446	2019 GRAV, PROD (F.B.S)															*SINCE 1970
		* 215	450	36.0	21.5	40	33.8	04-52	01-74	30	27	135 PRODUCED (S)															*ESTIMATED SINCE 1965
		707	520	30.0				09-68		1	4	90 WELL, PROD (M)															*ESTIMATED
SORENTO C, BOND		* 7	592	14.0	17.6	175	33.0	11-69		4	2	70 PENN SAND (S)															*ESTIMATED SINCE 1972
		* 5	1650	4.5	12.2	50	38.0	10-62	10-64	1	3	50 PENN SD, PROD (S)															*1964 DATA ESTIMATED
STADNTON W, MACDOUPIN		2400	490	10.0		32.0	05-60		2	7	40	PRODUCED (S)															*NO DATA SINCE 1962
STEWARSON, SHELBY		3800	1750	20.0			09-59		1	3	160	PRODUCED (S)															*EST + INCL PRIM PROD
		3801	1950	9.0			06-62		3	3	80	PRODUCED (S)															
		2035	10.0																								
STORMS C, WHITE		*4431	2350	15.0			06-58	12-71	2	8	100	PRODUCED (S)															*ESTIMATED
		4204	2250	20.0			03-66		5	5	100	PENN SD, PROD (S)															*SINCE 1980
		4438	2260	14.0			10-67			4	40																*ADJ TU ACTIVE WF. + ESTIMATED
		4241	1319	9.0		28.0	04-63		1	1	20	TAR SPH, PROD (S)															
		4263	2240	10.0	19.0	250	34.0	03-56		73	41	1100 RIVER, PROD (M)															*ESTIMATED
			2980	15.0			01-64		17	18	350																
		4457	2410				1-66			2	30																*EST. + ADJ. TU 4399 SINCE 66
		*4271	2240	15.0			07-51	06-53	1	2	40	PENN SD, PROD (S)															
		4451	1850	4.0						3	30																*EST. + ADJ. TU PROJ. 4372 & 4395
			2100	11.0						3	30																
		4450	2100	15.0			6-67		1	3	50	PRODUCED (S)															*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	3	60																
		4380	2250	12.0			03-69		1	7	90	PRODUCED (S)															*DATA EST; + INJECTION SUSP 1975
		4449	2085	6.0			6-70		1	3	40	PRODUCED (S)															*ESTIMATED
		*4296	2155	6.0					1	4	50																
			2550	6.0			06-60	01-66	5	5	100	SH SD, PROD (M)															
			2580	12.0					6	7	150																
		4240	2750	12.0	16.5	54	36.0	06-66		4	2	80 SH SD, PROD (M)															*ESTIMATED
		4415	2250	22.0	19.5	225	34.8	07-67		4	10	200 PENN SD, PROD (M)															*ESTIMATED SINCE 73 + ADJUSTED
		4234	2250	19.0			07-66		10	10	180	RIVER GRAV, PROD (M)															
		4399	2290	20.0	20.0	200	38.0	06-64		17	18	400 PENN SD, PROD (M)															*ESTIMATED
			2300	10.0	18.5	100																					
			2980	15.0	18.0	30																					
		*4295	2100	10.0	18.0	150	34.8	08-60	01-71	3	3	120 PENN SD, PROD (S)															*INCL 4372
		*4327	2100	10.0	18.0	150		08-60	12-64	1	1	20 SH SD, PROD (M)															
		4366	1630	7.0	18.6	170		02-68		1	3	25 PRODUCED (S)															
		*4372	1826	14.0	20.1	289	34.8	12-62	09-71	3	3	40 SH SD, PROD (M)															*INCL WITH 4295
		4285	1480	27.0	20.0	200	34.0	12-68		3	1	40 SH SD (F)															*ESTIMATED
STRINGTOWN, RICHLAND		*3411	3000	10.0	18.0		12-53	09-58	2	3	80	TAR SPRINGS (S)															
		*3412	3026	7.0		38.0	10-54	12-57	2	2	70	CYPRESS, PROD (S)															
		*3413	3002	12.0		36.0	12-53	12-63	1	2	80	PENN SD, PROD (S)															
SUMPTER E, WHITE		4361	3140	18.0			02-66		3	7	70	PENN SD, PROD (S)															*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					1	1	20																
		4231	3020	20.0	19.7	57	37.0	10-65		2	3	170 RIVER GRAV, PROD (M)															
			3100	10.0	10.5	15	37.0																				
		4425	2830	25.0			04-67		2	10	150	SH SD, PROD (M)															*EST + INCL PRIM
		4424	3170	10.0			06-67		3	8	140	PENN SD, PROD (S)															

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY	PROJECT	PAT NAME	LOCATION	INJECTION	OIL	WATER	PRODUCTION	PRODUCTION	PRODUCTION	
PROJECT NO., OPERATOR	U UNIT		S - T - R				TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	
							1980	12/80	1980	12/80
							1980	12/80	1980	12/80
TAHAROA, PERRY 3100 FRERS PETR COOP	TAHAROA	CYPRESS	14,23-48-1W	95	2948	2.5	126	95	2194	
TAHAROA 3, PERRY 3101 N. A. BALOHIOGE	BAGWELL	CTPRESS	28-48-1W	90	624	2.3	87	50	824	
THACKERAT, HAMILTON 1551 GALLAGHER DRILLING 1570 GALLAGHER DRILLING	THACKERAY 3-A W THACKERAY UNIT	AUX VASES AUX VASES	10,11,15-58-7E 9,16-58-7E	330 125	13469 2996	11.6 11.5	98U 943	32U 80	9128 1890	
THOMPSONVILLE E, FRANKLIN #1302 C. E. BREHM	E THOMPSONVILLE	AUX VASES	12-78-4E/7-78-5E		362		136		1417	
THOMPSONVILLE N, FRANKLIN #1305 BARBARA BRAGASSA #1331 COLLINS BROS. #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	1U,15-78-4E 1U-78-4E 3,9,10-78-4E 3,9,10-78-4E		1032 949 1786 2211		125 145 381 365		80 36U 60U	
TONYI, MARION 2609 FRY OIL CO	BRANCH	BENUIST MCCLOSKEY	4-2N-2E	165	5361	3.7	419	165	3692	
2634 LEIDERMAN ESTATE 2621 TEXACO, INC.	TONYI FLOOD PRUJ TONYI UNIT	MCCLOSKEY BENUIST AUX VASES SPAR MTN MCCLOSKEY	33-3N-2E 4-2N-2E	100 1674	2030 1845	13.0 5U,U	247 745	100 2108	3242 2763	
#2622 TEXACO, INC.	H. MCMACKIN	SPAR MTN	34-3N-2E		109		1		109	
TRUMBULL C, WHITE 4362 ASBHER OIL CO 4297 AUTUMN OIL CO 4301 AUTUMN OIL CO 4367 COT OIL CO	TRUMBULL R. SIMMONS SEVEN MILE FLATS TRUMBULL U	CYPRESS CYPRESS OHARA AUX VASES OHARA	24-58-8E, 18-58-9E 25,26-58-8E 23,24-58-8E 13,14,23-58-8E	20 80 9 300	3458 981 78 5477	1.1 4.6 U.1 21.7	276 74 88 557	20 80 5 300	416 950 605 277	
4429 OEE DRILLING 4336 FEAR AND OUNCAN	46U-SOUTH HOURS-NIBLING UNIT	AUX VASES MCCLOSKEY	14-58-8E 7-58-9E	89 0	873 0	2.0 U.5	47 35	85 5	873 429	
TRUMBULL N, WHITE #4906 SHULMAN BROTHERS	STOCKE	AUX VASES MCCLOSKEY	24-48-8E		36		1		5	
VALIER, FRANKLIN 1324 ESER MCKENOREE	RMEN-REA	AUX VASES	8-68-2E	120	582	7.2	73	120	582	
WALPOLE, HAMILTON #1532 HERMAN SHAMAH #1518 TEXACO, INC. #1546 TEXACO, INC. #1573 TEXACO, INC.	WALPOLE WEST U WALPOLE UNIT WALPOLE EAST UNIT WALPOLE STE. WEN UNIT	AUX VASES AUX VASES AUX VASES SPAR MTN MCCLOSKEY AUX VASES	26,33-63-6E 22,26,27,30,35-63-6E 26,35-63-6E 26,27-63-6E 3-78-6E	2U 277	2252 2124 1225 1792	U.6 2342	298 17U 194	20 15U	1350 11723 588 1214	
#1517 UNIVERSAL OPRTNG	WALPOLE UNIT	AUX VASES	3-78-6E		1486		79		977	
WAMAC, CLINTON, MARION, WASHINGTON #2610 MINERAL REC. INC #2611 OEWET STINSON	WAMAC WATENFLOO WAMAC UNIT	PETRO PETRO	19,30-1N-1E 19,30-1N-1E		4 531		7 35		11 221	
WAMAC W, CLINTON 4021 G. JACKSON 414 JET OIL CO. 418 JET OIL CO.	JACKSON, HAROON-HUOGE WAMAC W, BENUIST U WAMAC W CYPRESS U	CYPRESS BENUIST CYPRESS	29-1N-1W 1-78-2E/6-78-3E 20,21-1N-1W	55 277 56	1804 6975 686	2.6 6.2 9.7	92 955 289	95 237 13	1804 5164 204	
WEST FRANKFORT C, FRANKLIN #1307 CONYERS OIL WELL	HORN-OIMUNU #8	OHARA MCCLOSKEY	24,25-78-2E		613		100		467	
#1301 FARRAR OIL CO. #1308 FARRAR OIL CO. #1313 KILLION MCCLM. #1322 KILLION MCCLM. #1333 KILLION MCCLM.	W FRANKFORT U ORIENT U 7EN-BINK BONER-MERRIMAN U W FRANKFORT U	TAR SPRINGS TAR SPRINGS AUX VASES AUX VASES TAR SPRINGS	18,19-78-3E 12-78-2E 19,20,29-78-3E 31-78-3E 24,25-78-2E/19,30-78-3E		4792 476 2517 287 2061		561 29 944 6U 219		3021 444 840 49 1036	
1342 KILLION MCCLM. 1336 RK PET. CORP. #1340 8 AND H OIL CO. #1315 TEXAS AMERICAN	RANSON W FRANKFORT U GARDNER-DIAMOND POND CREEK	AUX VASES AUX VASES OHARA TAR SPRINGS	29-78-3E 1-78-2E/6-78-3E 13,24-78-2E 29-78-2E	81 84 350 1031	156 517 350 1031	2U.4 2.3	63 103 19	80 5 151	239 366 350 336	
WEST SEMINARY, CLAY # 346 SHULMAN BROTHERS	WEST SEMINARY UNIT	AUX VASES MCCLOSKEY	5,6,8-2N-7E		4701		378		2636	
WESTFIELD, CLARK, COLEB # 221 ABHLEY OIL CO. # 231 ABHLEY OIL CO. # 200 FOREST OIL CO. # 222 FOREST OIL CO. # 224 FRAZIER ENT. # 502 GEN. OPERATIONS	WESTFIELD TRENTON U SHERWOOD STEAM FLOOD WESTFIELD POOL PANKER APEX JOHNSON	TRENTON CASEY GAS WESTFIELD CASEY GAS PENN CASEY GAS	5,6,7,8,17,18-11N-14W 32-11N-14W 17-11N-14W 30-11N-14W 4-11N-14W 7,18,19-11N-11E 18-11N-14W	300 1 3096 663 0 205	2028 1 3956 663 24 205	15.9 1 15 34 0 13	96 1 15 34 1 13	25U 6 15 34 1 13	332 6 444 840 49 75	
WESTFIELD E, CLARK 206 JUOITH NEUMAN	MORRILL	PENNSYLVNIN	12-11N-14W	35	596	2.3	58	35	439	
WHITTINGTON, FRANKLIN 1329 T. W. GEORGE EST.	WILCOX	MARONSBURG CTPRESS	20,29-58-3E	4	180	U.2	23	4	90	
1338 M & W OIL CO 1341 M & W OIL CO	STEEL-LAKE WHITTINGTON SOUTH U	CYPRESS MARONSBURG	19-58-3E 29,30-58-3E	110 150	1149 1830	7.1 9.2	110 150	110 150	1200 1655	

in Illinois, 1980—continued

RESERVOIR STATISTICS (AV. VALUE) DEVELOPMENT AS OF 12-31-80 INJECTION WATER												
FIELD, COUNTY												
PROJ.	DEPTH	NET	PUR	(MO)	GRAV	FIRST	ASO.	NO. OF	ACRES	SOURCE	(F) FRESH	
NO.	(FT)	(%)	(%)	(API)	INJ.	INJ.	PROD.	INJ.	PROD.	(M) MIXED	REMARKS	
	(FT)									SHALLOW		
TAMAROA, PERRY												
3100	1140	10.0	24.3	349	31.5	12-61		3	4	180	PDND, PROD (M)	ESTIMATED SINCE 1973
TAMAROA 8, PERRY												
3101	1125	12.0			87.6	01-68		1	4	60	PRODUCED (B)	ESTIMATED
THACKERAY, HAMILTON												
1551	3368	15.0	24.0	270		04-64		9	6	480	CVP, PROD (B)	EST. 1980
1570	3350	16.0	80.3	174	39.2	12-69		3	3	120	CYPRESS (B)	EST. 1980
THOMPSONVILLE E, FRANKLIN												
1302	3200	18.0	21.1	98	38.0	07-54	01-71	3	3	60	PRODUCED (B)	
THOMPSONVILLE N, FRANKLIN												
1305	3180	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)	EST 1960
1304	3020	15.0	21.0	115	37.0	01-56	12-64	7	7	236	LAKE, PROD (M)	
1303	3075	25.0	82.0	170	37.5	10-55	04-62	5	5	100	CVP, PROD (B)	
TONTI, MARION												
2609	1950	6.0			36.2	04-59		8	3	60	PRODUCED (B)	EST + INCL PRIM PROD SINCE 4-59
	2122	7.0						1	2	40		
8634	8152	10.0			36.0	08-67		1	4	50	PRODUCED (B)	ESTIMATED SINCE 1975
8621	1940	18.0				05-75		14	12	300		
	8010	20.0			36.0	05-75						
	2110	8.0	17.3	169		02-64						
	2140	18.0	14.1	196		08-64				140		
2622	2108	8.0	17.3	169	36.0	03-64	12-65	1	2	30	PRODUCED (B)	
TRUMBULL C, WHITE												
4362	2848	12.0	16.0	40	35.0	11-62		6	4	180	SH SU (P)	ESTIMATED SINCE 1972
4897	2800	8.0				06-65		1	8	30	PRODUCED (B)	ESTIMATED
4301	3180	8.0				01-66		2	7	90	PRODUCED (B)	ESTIMATED
4367	3150	11.0	18.0		38.4	01-71		6	19	300	SAND (M)	ESTIMATED SINCE 1973
	3200	16.0						1	5	60		
4489	3120	15.0				10-69		1	8	50		ESTIMATED
	3230	8.0						1	2	30		
4336	3283	5.0	18.8	136	37.0	11-61		1	1	40	TAN SPR, PROD (B)	D.P., 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			39.8	11-64		1	1	70	PRODUCED (B)	ESTIMATED + INCL PRIM PROD
WALPOLE, HAMILTON												
1532	3800	15.0	22.1	190	39.0	07-62		4	4	160	PENN SU, PROD (B)	ESTIMATED SINCE 1971
1518	3100	15.4	18.3	106	36.2	12-60	04-69	14	19	1640	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		1	2	280	PROD SUPPLY (B)	INJ. DISC. OCT. 1979
	3250	18.0	10.0									
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	820	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				11-68		1	9	50	LAKE, PROD (M)	INCL PRIM PROD SINCE 11-62 EST
418	1290	8.8				10-65		2	6	30	PENN SU, PROD (B)	ESTIMATED
WEST FRANKFORT C, FRANKLIN												
1307	2760	10.0	15.0	205	38.0	07-59	18-72	1	2	60	PRODUCED (B)	ESTIMATED SINCE 1967
	2845	7.0						1	2	60		
1301	2050	31.3	17.1	155	40.3	11-57	07-63	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		3	1	120	LAKE, PROD (M)	INACTIVE 18WD 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		4	20	120	LAKE & PHOU (M)	
1342	2735	15.0			38.0	12-76		8	5	80	LAKE (F)	
1336	2720	8.0				10-71		1	3	40	LAKE (F)	ESTIMATED
1340	2750	11.0				11-66	10-72	4	10	210	PRODUCED (B)	ESTIMATED-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												
221	2350	60.0	4.0		39.0	01-75		13	37	1000		ESTIMATED SINCE 1977
231	250	20.0	20.0	250	25.0	02-64	04-64	2	1	10	CITY WATER (F)	ONE TON OF STEAM, STEAM BOAK
200	290	15.0	19.0	17	34.0	01-66	03-70	20	9	30	GRAVEL BED (P)	
228	270	25.0	17.9	153	28.1	06-50	04-61	9	12	20	GRAVEL BED (P)	
224	340	60.0			34.8	03-67		6	5	40	CARPER, WELL (M)	INJECTION DISC. 1977
502	320	35.0	21.5	86	89.0	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)	ESTIMATED
WHITTINGTON, FRANKLIN												
1329	2300	10.0				09-67	12-68	1	1	40	LAKE, PROD (M)	
	2530	10.0				07-64		1	1	40		
1338	2530	10.0				12-71		2	4	60	PRODUCED (B)	ESTIMATED
1341	2300	10.0				07-72		4	12	180	PRODUCED (B)	ESTIMATED

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.
PROJECT NO., OPERATOR	U = UNIT		S = T - R	1980	12/80	1980	12/80	1980	12/80
WHITTINGTON, FRANKLIN									
CONTINUED									
1337 JUNIPER PETROLEUM C	SE WHITTINGTON	CYPRESS	21,20,29,32,33-58-3E	161	209*	8.8	154	145	1392
		OMAHA							
		MCCLOSKEY							
1334 T. M. TUCK	WHITTINGTON	HARVINSBURG	20-59-3E	160*	2057	5.5	116	160*	1121
		CYPRESS							
WHITTINGTON W, FRANKLIN									
1344 JOHN C. BOWERS	PLAINS PL.	RENAULT	12-58-2E		760		137*		760*
*1312 KENANEE OIL CO.	PLAINS	RENAULT	1,2,11,12,14-59-2E		3375		363		1137
MILBENTON, FAYETTE									
1246 W. L. MELOEN	ST PETER AREA	CARPER	11,12,13-5N-2E1 7,17,18,19-5N-3E	61	12314	15.1	959*	61*	9603*
WILLIAMS C, JEFFERSON									
2019 N. A. BALORIDGE	WILLIAMS SOUTH UNIT	AUX VASES	10,11-38-2E	35*	2016*	1.3	525*	35*	1236*
2028 WALTER DUNCAN	HODGE	BENOIST	2-38-2E	27	520	1.3	32	27	520
2033 PEP DRILLING CO.	LEFFLEM	AUX VASES	35-28-2E/2-39-2E	35	1311*	4.2	192*	35*	1311*
2032 BENNARD POOLSKY	MCLAUGHLIN	BENOIST	2-38-2E	10*	330*	1.6	32*	10*	330*
		AUX VASES							
MOBURN L, BOND									
* 4 E. E. JENNEMAN	SPINDLER LSE	BENOIST	10-6N-2W		194		11		194
3 TRI STAR PROD CO	BLANKENSHIP AREA	DEVUNIAN	34-7N-2W	0	263*	3.3	460*	0	455*
MOGLAWN, JEFFERSON									
2005 K W B OIL PROP. MGMTOPPA		CYPRESS	2-38-1E	270	2942	11.1	209	275	2601
2024 MOBIL OIL CORP.	KAMINSKI ESTATE	BENOIST	2-38-1E	192	1916	10.4	368	131	1471
*2023 TEXACO, INC.	WALKER ?	CYPRESS	2-38-1E		255		5		177
2034 CHARLES P. WOOD	BURKHARDT	BENOIST	35-28-1E	15*	1030*	1.3	279*	15*	1030*
YORK, CLARK, CUMBERLAND									
* 706 C. KEYSEN	CUMBERLAND UNIT	ISABEL	1-9N-10E		37				3
* 703 TRANS-SOUTHMEN	YORK	ISABEL	6-9N-11E		604		20		290
ZEIGLER, FRANKLIN									
1316 V. R. WALLAGHER	BENO LEASE	AUX VASES	20-78-2E	15*	300	5.3	260*	15*	79
1320 V. R. WALLAGHER	PLUMFIELD U	AUX VASES	13,24,25-73-1E/ 16-73-2E	232*	4530	4.7	1921*	182*	2245
ZENITH E, WAYNE									
4090 NAPCO	QUAKEE	SPAN MTN	4-1N-6E		800		1600*		600*
ZENITH N, WAYNE									
*4150 T. W. GEORGE EST.	ZENITH N MCGHEE	SPAN MTN	21-2N-6E		112		9		130
*4137 MOBIL OIL CORP.	ZENITH N FIELD U	SPAN MTN	21-2N-6E		501		56		206

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-80				INJECTION WATER			
FIELD, COUNTY										NO. OF		SOURCE		TYPE			
PROJ.	DEPTH	NET	POR	PERM	OIL	DATE	DATE	NO.	ACRES	SD	UNDER	GR	PROU	PROU	(M)	MIXED	REMARKS
NO.	(FT)	PAY	(%)	(MD)	(API)	INJ.	ABO.	WELLS		SAND	GRAVEL	PRODUCE	PRODUCE				
		(FT)															
WHITTINGTON, FRANKLIN																	
CONTINUED																	
1337	2500	8,0				10-71		3	5	100			LAKE, PROD (M)				
	2810	8,0															
	2900	5,0															
1334	2300	10,0				08-71		3	6	90			PRODUCED (M)				*ESTIMATED SINCE 1979
	2500	8,0						3	6	90							
WHITTINGTON W, FRANKLIN																	
*1344	2740	11,0				03-62	07-71	1	5	70			PRODUCED (M)				*ESTIMATED
*1312	2675	10,0	13,0	13	38,0	02-61	05-67	7	8	270			PENN SU, PROU (M)				
WILBERTON, PAYETTE																	
1246	3250	25,0				10-65		8	37	1180			BENDIST, PROU (M)				*EST +INCL PRIM PROU
WILLIAMS C, JEFFERSON																	
2019	2555	11,0	17,6	50	37,0	10-64		2	3	119			PENN SU, PROU (M)				*PARTIAL WF SINCE 1-55 *DATA SINCE 10-64; *ESTIMATED
2028	2500	7,0				06-67		1	1	20			PRODUCED (M)				
2033	2580	20,0				5-60		2	3	70			PRODUCED (M)				*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							
WOBURN C, BONO																	
* 4	1006	14,0				09-51	08-56	1	4	30			PRODUCED (M)				
3	2260	20,0			35,5	11-67		1	2	40			PRODUCED (M)				*TEMP. ABO 72-75; *INJ UISC; *ADJ.
WOODLAWN, JEFFERSON																	
2005	1760	10,0				09-68		3	7	40			PRODUCED (M)				
2024	1950	17,0				01-65		1	3	40			PRODUCED (M)				
*2023	1790	10,0	14,0	225	35,9	03-64	12-65	1	2	40			PRODUCED (M)				*UISC AS WF, SHU ONLY
	1950	27,0						1	2	40							
2034	1965	22,0				11-52		2	5	70			PRODUCED (M)				*EST +INCL PRIM. SINCE 1952
YORK, CLANK, CUMBERLAND																	
* 706	556	11,0	17,8	80	33,8	06-61	12-63	1	2	30			PENN SU (M)				
* 703	590	10,0	21,9	231	30,3	10-50	12-58	3	7	15			PRODUCED (M)				
ZEIGLER, FRANKLIN																	
1316	2620	12,0	21,5	75	38,9	10-68		1	2	40			PENN SAND, PROU. (M)				*EST. 1980; *INCL. PRIM. SINCE 68
1320	2650	15,0	21,5	75	38,9	02-65		6	6	380			PENN SU, PROU (M)				SINCE PUOL DISCOVERY 7-12-63 *ESTIMATED 1980
ZENITH E, WAYNE																	
*4090	3180	8,0				02-67	12-72	2	10	220			PRODUCED (M)				*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 (M)				
*4137	3100	12,9	15,3		38,0	03-59	02-68	2	4	140			CYP, PROU (M)				

TABLE 12. Illinois waterfloods for 1980, 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 1980**	Cumulative 12-31-80**	Total 1980**	Cumulative 12-31-80**	Total 1980**	Cumulative 12-31-80**
Bond	4	3	19	27	350	570	36	2,568	5.0	211	36	1,634
Christian	8	0	70	131	4,540	5,400	4,347	56,367	175.8	5,686	3,602	29,715
Clark	7	21	593	583	4,999	12,577	905	203,243	49.5	9,640	705	82,464
Clay	50	42	370	636	19,709	21,814	9,711	298,570	460.3	28,469	8,271	187,466
Clinton	15†	6	192	254	7,134	7,550	2,996	93,437	159.6	17,813	3,128	161,695
Coles	11	15	181	251	5,485	5,925	393	75,942	40.2	6,060	393	39,538
Crawford	46	48	1,485	1,893	24,841	31,641	19,898	1,047,421	626.3	58,279	19,653	581,933
Cumberland	5	3	352	480	2,448	2,479	2,080	115,920	78.7	14,074	2,485	32,679
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	500	17,711	74.7	1,684	500	17,511
Edwards	24†	17	139	289	6,335	8,619	3,109	126,271	173.5	14,674	2,919	82,439
Effingham	18	4	78	167	3,895	4,661	3,191	78,427	178.5	8,298	2,907	51,175
Fayette	45	10††	805	1,093	35,478	50,828	55,082	1,584,288	1,594.6	191,406	45,787	1,106,774
Franklin	25	19	192	314	9,423	10,669	3,579	295,878	213.1	31,991	3,157	208,340
Gallatin	27	32††	321	471	11,468	13,801	2,950	159,823	226.8	22,438	2,426	68,531
Hamilton	29	48	398	585	21,972	31,928	5,141	498,121	201.2	37,819	5,729	319,100
Jasper	12	19	94	235	8,990	9,853	4,857	112,927	236.8	8,595	5,035	62,560
Jefferson	24†	13	121	237	8,562	8,730	4,290	219,058	220.3	27,368	3,767	353,321
Lawrence	66	27	1,641	1,931	27,409	32,243	36,347	1,073,625	1,653.6	107,640	57,810	798,743
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	33	74	1,650	2,544	1,065	20,587	39.7	1,225	923	14,300
Marion	16	14	459	617	36,591	44,338	95,142	2,325,612	1,866.1	133,977	84,979	1,720,106
Montgomery	0	1	2	2	20	40	0	38	0.0	6	0	15
Perry	2	0	4	8	240	320	105	3,572	4.8	173	105	3,018
Richland	24	26	187	374	17,092	16,822	8,415	288,134	237.0	17,207	8,398	234,604
Saline	16	11	96	162	3,660	5,010	3,041	93,901	111.8	8,091	2,482	42,576
Shelby	3	1	8	13	600	660	253	5,623	19.1	933	253	5,123
Wabash	83	73	615	907	22,530	25,271	7,201	390,143	419.2	43,171	5,505	207,881
Washington	25	2	78	240	4,049	5,096	3,254	103,942	153.8	11,733	3,152	96,065
Wayne	91	61	735	1,099	52,658	60,315	18,244	730,729	645.0	60,817	15,146	392,859
White	148	111	1,729	2,284	52,843	67,180	30,040	1,037,578	1,692.7	106,255	29,328	578,476
Williamson	5	0	12	25	540	680	317	5,490	46.9	1,091	175	1,513
TOTAL	854	635	11,070	15,509	397,631	489,754	326,489	11,077,500	11,604.6	978,456	318,756	7,484,137

* Acreage data are incomplete in a few counties.

** Projects not reporting in 1980 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 1980

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 1980**	Cumulative 12-31-80**	Total 1980**	Cumulative 12-31-80**	Total 1980**	Cumulative 12-31-80**
Aden C	2	2	41	36	3,380	3,940	608	35,251	15.7	1,908	608	11,519
Akin	2	3	9	18	380	510	11	3,554	1.2	510	11	3,119
Albin C	19	11	105	211	4,364	5,958	2,822	120,576	114.4	13,368	2,397	76,120
Albin East	1	0	8	15	400	820	168	1,339	40.8	390	168	1,300
Allendale	18	21	138	188	2,973	3,383	888	94,314	55.1	7,587	545	35,259
Ashley	1	0	4	14	180	180	145	4,250	8.4	272	145	4,250
Ashley E	1	0	2	4	60	60	25	930	1.1	57	25	930
Assumption C	5	0	26	50	2,070	2,630	1,327	43,390	48.1	5,052	1,098	22,073
Barnhill	2	5	36	52	960	1,050	0	16,477	1.9	2,022	10	3,581
Bartelso	1	2	22	27	320	320	100	6,949	5.2	1,258	100	4,928
Beaucoup	1	0	1	3	280	367	230	1,661	2.6	21	45	762
Beaucoup S	2	0	8	11	257	257	160	10,711	5.5	487	278	9,468
Beaver Creek	1	1	2	5	50	90	31	515	1.4	43	31	398
Beaver Creek S	2	0	4	15	180	180	150	2,627	9.3	322	150	2,591
Ballair	2	1	106	130	717	747	325	96,411	13.3	2,720	325	43,412
Belle Prairie	1	0	1	8	160	160	0	620	7.0	140	0	560
Beman	1	1	6	9	280	280	61	1,357	2.2	65	61	1,041
Benton	2	0	33	39	3,390	3,390	1,328	231,486	36.8	21,380	1,305	172,088
Benton N	1	2	30	47	910	1,100	0	8,372	0.0	1,319	0	4,011
Berryville C	1	2	3	5	121	320	51	1,802	3.3	412	51	913
Bone Gap C	2	0	2	12	180	270	113	3,668	6.5	629	108	3,335
Boyd	1	0	7	18	2,133	2,133	200	77,577	7.2	4,343	200	47,399
Brown	1	0	1	2	40	40	22	487	2.5	31	11	244
Browns	3	0	16	22	930	950	105	5,940	21.4	899	211	2,171
Browns E	1	3	27	32	673	1,010	100	5,414	1.5	1,649	10	1,948
Bungay C	7	5	52	91	2,510	2,680	566	45,295	29.7	4,130	557	30,421
Calhoun S	1	0	1	5	40	300	50	377	8.0	172	50	376
Carlyle N	1	0	1	7	80	100	50	1,180	3.1	106	50	603
Carmi	1	0	1	2	60	60	50	508	2.8	87	50	508
Carmi N	1	0	1	4	80	80	20	1,045	2.1	79	20	805
Centerville	1	1	2	2	40	40	15	459	0.6	20	15	203
Centerville E	4	1	98	99	2,160	2,160	495	39,305	23.1	3,687	495	29,313
Central City	1	0	1	5	60	60	25	402	1.3	29	25	402
Centralia	5	2	120	112	4,704	4,824	1,485	48,741	69.1	12,383	1,700	129,651
Clay City C	102	56	725	1,269	59,362	62,803	26,826	846,656	1071.4	64,466	24,015	537,610
Coil	3	0	6	12	510	530	192	7,001	35.2	1,412	181	3,559
Coil W	1	2	9	13	285	310	91	2,809	7.9	306	55	1,335
Concord C	3	12	57	87	1,733	1,970	131	25,215	6.5	2,584	147	14,355
Concord E C	1	2	8	10	190	190	30	1,490	1.6	120	30	1,297
Cordes	2	0	18	31	1,115	1,115	255	33,758	22.4	6,678	597	37,556
Corinth	1	0	1	3	130	180	40	304	6.1	90	22	22
Dale C	19	36	291	435	16,042	25,758	4,198	411,093	144.2	28,701	4,689	262,413
Deering City	1	0	1	4	50	50	25	562	1.1	122	25	482
Divide C	5	1	20	36	1,525	1,535	1,328	38,813	27.3	2,055	1,059	228,424
Dubois C	5	1	15	49	680	680	190	4,420	13.9	431	190	3,761
Dudley	7	0	12	50	480	460	500	5,711	74.7	1,084	500	5,511
Edinburg W	1	0	1	10	230	230	0	1,061	0.0	157	0	693
Eldorado C	6	4	39	70	1,800	2,560	2,290	59,204	73.6	4,724	1,736	26,703
Energy	1	0	2	4	100	130	32	1,429	7.3	98	0	1,298
Exchange N C	1	0	4	9	400	400	238	3,424	3.6	478	89	1,213
Exchange W	1	0	2	7	511	511	52	1,131	9.2	188	52	477
Frogtown N	1	0	3	8	140	140	0	0	9.1	97	0	0
Gard's Point	2	0	2	11	220	260	70	1,605	6.3	127	70	1,370
Germantown E	1	0	2	11	300	300	154	4,878	10.7	1,240	154	4,878
Goldengate C	5	13	130	127	4,689	5,010	333	36,129	24.0	3,068	333	15,253
Goldengate N C	2	1	6	7	140	140	45	1,397	2.1	174	25	785
Half Moon	2	0	7	12	550	1,560	66	13,077	5.3	948	70	5,623
Marco	2	0	8	16	310	310	255	4,957	10.4	324	250	2,897
Herald C	16	10	89	151	3,476	4,821	1,245	43,505	111.6	5,298	1,070	19,928
Hill E	2	1	5	27	380	380	31	8,476	2.1	511	31	6,391
Hord	1	0	1	2	50	70	8	204	1.9	41	8	138
Ingraham	1	1	10	22	437	692	15	2,744	4.1	852	2	1,555
Inman E C	5	7	136	184	4,380	4,515	280	64,203	26.5	10,063	275	21,262
Inman W C	12	9	88	115	2,759	3,445	1,077	33,765	79.2	3,880	818	18,393
Iola C	9	3	68	98	2,707	3,205	2,486	69,234	113.6	4,118	2,164	46,193

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 1980**	Cumulative 12-31-80**	Total 1980**	Cumulative 12-31-80**	Total 1980**	Cumulative 12-31-80**
Irvington	7	0	16	88	960	2,000	1,367	27,734	71.6	2,237	1,369	27,181
Irvington E	3	0	4	21	250	250	115	3,830	12.6	591	115	3,830
Iuka	1	0	1	3	270	270	28	63	5.7	114	26	557
Johnson S	2	4	136	140	764	1,045	380	35,480	21.1	2,551	380	23,343
Johnson N	1	3	92	104	1,343	1,343	150	115,021	8.3	3,301	0	33,226
Johnsonville C	7	3	88	131	10,310	12,380	5,792	193,539	163.9	15,097	5,451	128,606
Johnsonville W	2	2	12	21	520	620	346	7,713	3.6	889	131	3,213
Johnston City E	2	0	8	14	260	320	242	3,710	29.8	745	150	150
Johnston City N	1	0	1	4	50	50	3	47	3.7	158	3	43
Junction E	1	0	4	5	100	100	100	1,085	5.1	72	100	891
Keensburg S	2	1	9	14	280	450	350	7,298	17.6	624	350	4,431
Kincaid C	1	0	42	69	2,200	2,500	2,930	11,731	110.5	440	2,414	6,764
King	2	2	9	12	300	360	35	3,687	4.3	407	35	2,199
Lancaster	3	0	28	45	840	1,015	132	8,199	8.2	1,935	130	2,727
Lancaster S	1	1	3	12	150	150	10	1,245	0.5	251	10	888
Lawrence	57	19	1,565	1,832	25,276	29,791	36,019	1,050,478	1,631.1	104,907	57,515	785,068
Lawrence W	1	1	12	19	447	447	35	1,556	1.7	211	35	670
Lexington	1	0	3	6	200	280	151	2,743	2.8	69	151	911
Lillyville	1	0	2	2	160	160	140	2,639	5.4	310	70	961
Livingston S	3	0	4	25	370	310	165	2,724	12.8	259	153	1,757
Louden	38	9	775	997	32,775	48,035	53,292	1,532,965	1,504.5	187,132	43,691	61,454
Main C	44	47	1,379	1,763	24,124	30,894	19,573	951,010	613.0	55,559	19,328	538,521
Maple Grove C	2	3	13	30	720	870	50	2,875	1.3	441	50	2,161
Marine	1	0	3	7	240	964	300	3,054	5.4	46	300	2,986
Mason N	1	0	1	3	130	130	140	2,693	3.3	182	140	2,729
Mattoon	10	9	122	190	4,305	4,595	368	64,711	38.7	5,337	368	33,036
Mattoon N	1	0	5	8	160	160	25	1,695	1.5	168	25	1,555
Maunie N C	3	8	45	72	1,670	2,510	95	17,615	14.4	3,006	95	10,036
Maunie South C	2	4	69	64	1,430	1,450	150	25,937	21.9	3,298	152	17,894
Miletus	1	0	1	1	20	20	25	344	1.6	20	25	339
Mill Shoals	9	7	64	78	2,372	2,713	566	40,172	27.9	2,912	596	21,474
Mode	1	0	3	5	330	350	45	606	3.8	343	45	616
Montrose	1	0	1	1	40	40	0	103	0.2	11	0	9
Mt. Carmel	15	17	121	162	4,473	4,740	1,840	55,891	85.2	5,968	1,332	32,131
New Harmony C	78	47	856	1,233	28,204	33,207	14,269	538,574	880.9	64,968	11,848	292,301
New Haven C	2	3	24	33	1,085	1,302	205	4,419	18.7	1,438	127	1,257
New Memphis	1	0	3	23	580	640	550	9,015	27.6	443	550	6,695
Oakdale N	1	0	3	4	290	290	138	1,784	2.5	350	138	1,643
Oak Point	1	1	20	14	360	480	40	4,238	1.9	216	40	3,925
Odin	1	0	4	9	120	290	187	8,654	1.2	1,324	187	391
Old Ripley	1	0	10	11	110	110	0	1,248	0.0	95	0	425
Olney C	1	8	33	44	2,238	2,418	57	17,973	1.5	1,595	43	11,251
Omaha	5	2	22	52	1,711	2,908	1,099	26,657	83.8	5,014	934	14,771
Omaha W	1	0	1	7	100	100	60	2,478	2.8	169	60	2,273
Orchardville	2	0	4	4	110	230	84	675	8.9	143	70	240
Orient	1	0	1	1	40	40	28	538	2.0	204	15	171
Oskaloosa	1	1	15	10	596	596	35	2,238	1.7	1,356	35	4,205
Pana	1	0	1	2	40	40	90	185	17.2	37	90	185
Passport	3	0	5	6	505	505	46	14,191	4.6	861	46	7,935
Patoka	3	2	72	82	1,713	1,713	393	90,053	15.9	9,091	393	70,209
Patoka E	3	1	9	27	320	580	642	13,241	39.9	984	524	10,916
Patoka S	3	0	34	41	860	980	470	15,115	22.9	1,273	426	10,474
Phillipstown C	24	15	168	297	5,391	7,897	3,493	64,891	344.2	13,514	2,963	39,496
Raccoon Lake	1	1	3	9	190	190	359	6,950	6.4	285	359	7,751
Raleigh	1	2	22	19	440	590	60	7,212	2.9	1,292	60	1,901
Raleigh S	3	1	8	10	310	490	155	5,946	7.5	447	155	3,586
Reservoir	2	0	2	4	130	130	25	965	4.1	160	25	965
Richview	5	0	11	33	427	367	827	18,523	25.7	1,457	448	10,201
Rochester	3	0	12	22	400	480	0	24,211	1.4	1,528	0	8,528
Roland C	17	14	259	322	10,655	13,809	7,752	215,889	250.6	18,765	7,301	113,041
Ruark	2	0	2	3	96	140	68	1,282	4.0	168	35	692
Ruark W	1	2	20	19	420	420	0	6,623	0.0	750	0	4,411
St. Francisville	1	2	5	7	140	150	0	908	0.0	29	0	318
St. Jacob	3	0	13	24	720	950	600	14,601	21.5	889	470	9,557
St. James	7	1	22	76	1,723	1,813	1,729	39,900	88.8	3,453	2,065	36,198

TABLE 13—continued

Field	Number of active projects	Number of abandoned projects	Wells		Acrea in waterflood projects*		Water injection (M bbl)		Oil production (M bbl)		Water production† (M bbl)	
			Water input	Pro-ducera	Subject to injection	Total in production	Total 1980**	Cumulative 12-31-80**	Total 1980**	Cumulative 12-31-80**	Total 1980**	Cumulative 12-31-80**
Sailor Springa C	40	22	194	344	8,520	9,853	7,100	157,376	258.0	18,442	6,156	103,261
Salem C	8	5	307	406	32,597	39,444	92,376	2,223,087	1,812.4	135,591	82,101	629,395
Schnell	1	0	1	1	103	103	0	858	0.7	43	0	327
Sesaer C	5	1	28	63	1,410	1,550	680	14,354	52.9	2,238	680	8,603
Shattuc	1	0	5	10	150	150	174	1,658	9.6	187	174	1,119
Siggins	3	3	467	579	2,797	2,928	1,940	136,426	73.1	16,463	2,415	52,558
Sorento C	1	1	5	5	120	190	5	348	0.3	16	5	162
Staunton W	1	0	2	7	40	40	0	16	0.0	1	0	2
Stewardson	2	0	4	6	240	280	208	5,007	15.3	586	208	4,497
Storms C	16	6	166	173	3,560	4,430	4,585	192,159	190.6	8,167	6,789	130,197
Sumpter E	5	1	17	44	820	1,600	549	14,761	32.2	1,133	533	7,772
Sumpter N	2	0	4	6	280	578	100	2,685	5.3	252	99	1,240
Sumpter S	2	2	14	11	270	310	99	2,452	18.4	314	99	1,138
Tamaroa	1	0	3	4	180	260	55	2,948	2.5	126	55	2,194
Tamaroa S	1	0	1	4	60	60	50	624	2.3	47	50	824
Thackeray	2	0	12	9	540	540	455	16,465	23.1	1,923	400	11,018
Thompsonville N	1	3	21	21	632	726	60	5,978	16.7	1,016	0	1,040
Tonti	3	1	19	23	620	930	2,139	26,345	66.7	1,212	2,373	34,679
Trumbull C	6	0	18	42	780	830	490	11,575	30.0	1,037	495	6,020
Valier	1	0	1	1	70	70	120	582	7.2	73	120	582
Walpole	2	3	26	31	2,320	2,380	20	28,003	6.6	3,083	170	15,852
Wamac W	3	0	4	20	150	300	388	9,465	18.5	936	305	7,172
West Frankfort C	4	6	30	57	1,041	1,371	495	12,800	49.4	1,649	235	7,148
Westfield	2	4	80	78	1,160	7,850	300	6,877	15.9	160	250	413
Westfield E	1	0	4	10	60	60	35	596	2.3	58	35	439
Whittington	5	0	17	35	600	905	585	7,310	30.8	553	569	5,458
Wilberton	1	0	8	37	1,180	1,180	61	12,314	15.1	959	61	9,603
Williams C	4	0	7	12	279	332	107	4,179	8.4	741	107	3,397
Woburn C	1	1	2	6	70	180	0	457	3.3	57	0	649
Woodlawn	3	1	8	19	230	270	437	6,143	22.8	861	421	5,779
Zeigler	2	0	7	8	420	420	247	4,830	15.0	2,181	197	2,324

* Acreage data are incomplete in a few fields.

** Projects not reporting in 1979 are included as of last reporting date.

† Not all projects reported produced water.

TABLE 14. Summary of waterflood statistics, 1949-1980

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 oil recovery per acre subjected to injection (bbl)	
		Annual	Cumulative*	Annual	Cumulative*	Annual	Cumulative*			Inj.	Prod.	Subjected to inj.	Total		Produced	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	8,560	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
1979†	853	332,790	10,515,779	12,114.3	928,080	None	34,247	21,793	55.6	11,469	15,709	411,974	807,435	51.0	2,253	11.3
1980†	854	325,205	10,822,865	11,483.1	938,756	None	34,247	22,702	50.6	11,054	15,405	393,571	821,615	47.9	2,385	11.5

* 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.



