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PETROLEUM INDUSTRY IN ILLINOIS, 1979

Oil and Gas Developments

Jacob Van Den Berg

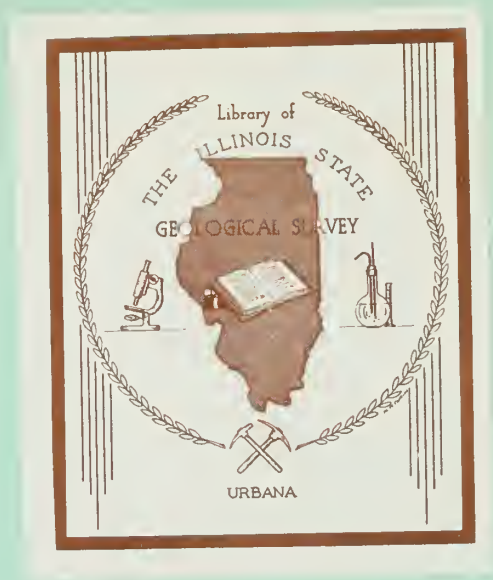
Waterflood Operations

Jaclyn Rendall Elyn

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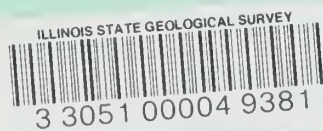
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PETROLEUM INDUSTRY IN ILLINOIS, 1979

ABSTRACT

Illinois produced 21,792,755 barrels of crude oil in 1979, a decrease of 6.7 percent from 1978. The value of this crude oil is estimated to be \$436 million.

New test holes drilled for oil and gas numbered 1,087–52 more than in 1978. These tests resulted in 627 oil wells, 15 gas wells, and 445 dry holes. In addition, 30 former dry holes were reworked or deepened, then recompleted as producers (28 oil, 2 gas); and 19 former producers were reentered and recompleted as oil producers in new pay zones. In oil and gas exploration and development, including service wells and structure tests, total footage drilled in 1979 was 3,035,880, a decrease of 1.2 percent from 1978.

Of the 1,087 newly drilled tests for oil and gas, 182, or 16.7 percent, were half a mile or more from production (wildcats); 35 were completed as producers, a success ratio of 19.2 percent. Forty-nine of the wildcats were drilled more than 1.5 miles from production (wildcat fars). They resulted in 3 producers, a success ratio of 6.1 percent.

In 1979, 190 service wells (water input, salt water disposal, etc.) were reported, a decrease of 16.3 percent from 1978. Of these, 77 were newly drilled wells; and 113 were old wells, mostly former producers, converted to service wells.

Only 2 structure tests were reported in connection with oil exploration and development.

Three oil fields, 23 new pay zones in fields, and 33 extensions to fields were discovered in 1979.

Three new waterflood projects were reported by their respective operators and 17 projects were abandoned. New projects increased the area subject to fluid injection by 110 pay acres.

Secondary recovery production was estimated at 12,249,100 barrels of crude oil. Waterfloods accounted for 12,114,300 barrels, or 55.6 percent of the state total; and pressure maintenance projects reported 134,800 barrels, or 0.6 percent of the state total.

Part I. Oil and Gas Developments

Jacob Van Den Berg

OIL PRODUCTION AND VALUE

Illinois oil fields produced 21,792,755 barrels of crude oil in 1979. Production decreased 6.7 percent –1,569,164 barrels less than in 1978.

Table 1A lists by counties the number of holes drilled, the footage drilled, and the oil production in 1979. Holes drilled are classified as tests for oil and gas, service wells, and structure tests. The oil production and other data for each of the oil fields in Illinois are shown in table 8.

Crude oil production figures by fields are received from one source, the production figure for the state as a whole from another. The latter source is considered to be more accurate concerning the state's entire production. The discrepancy in figures from the two sources is accounted for by the 254,115 barrels of crude oil for which the field and county assignments are unknown (tables 1A and 8).

Ten counties had more than 600,000 barrels of oil production each in 1979. Their combined production accounted for 76.7 percent of the total oil production of Illinois:

County	1979 production (bbl)	Percentage of state's total
White	3,112,980	14.3
Wayne	2,987,724	13.7
Lawrence	2,195,038	10.1
Marion	2,140,226	9.8
Fayette	1,765,949	8.1
Crawford	1,309,213	6.0
Wabash	894,608	4.1
Clay	887,162	4.1
Richland	747,732	3.4
Jefferson	679,642	3.1
TOTAL	16,720,274	76.7

The fields in Illinois that produced more than 200,000 barrels of oil each in 1979 accounted for 67.1 percent of the state's total production:

Field*	1979 production (bbl)	Percentage of state's total
Southeastern Illinois oil field†	3,883,602	17.8
Clay City C	2,913,675	13.4
Salem C	1,978,877	9.1
Louden	1,730,020	7.9
New Harmony C	1,443,589	6.6
Phillipstown C	610,689	2.8
Sailor Springs C	516,386	2.4
Keenville	402,175	1.8
Roland C	371,697	1.7
Johnsonville C	317,110	1.4
Dale C	253,231	1.2
Storms C	211,008	1.0
TOTAL	14,632,059	67.1

* 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 1979 is \$436 million.

1979 DRILLING

In 1979, 1,309 wells were completed as a result of oil and gas exploration and development (table 1A), substantially equivalent to 1,331 completions in 1978. These wells include new holes drilled as oil and gas tests; former dry holes reworked or deepened, then recompleted as producers; former producers reworked or deepened, then recompleted as

producers in new pay zones; new holes drilled as service wells and old holes converted to service wells; and structure tests.

In testing for oil and gas, 1,087 new holes were drilled in 1979, compared with 1,035 in 1978. Wells in secondary and tertiary recovery projects are included. These tests resulted in 627 oil wells, 15 gas wells, and 445 dry holes. In addition, 30 former dry holes were reworked or deepened and recompleted as producers (28 oil, 2 gas), and 19 former producers were reentered and recompleted as oil producers in new pay zones. A total of 190 service wells (water input, salt water disposal, etc.) was reported in 1979, a decrease of 16.3 percent from 1978; these included 77 new wells drilled and 113 old wells converted to service wells. Only 2 structure tests were reported in connection with oil exploration and development.

Discoveries

Three oil fields, 23 new pay zones in fields, and 33 extensions to fields were discovered in 1979 (fig. 1; tables 2, 3, and 4). All of the new fields produce from the Mississippian. Of the 23 new pay zones, 21 are of Mississippian age, 1 is Devonian, and 1 is Ordovician.

Of the new fields, Burnt Prairie Southwest in White County appears to be the most significant. By the end of the year, 21 producers had been reported. Production is predominantly from the McClosky lime, but there is also production from the Aux Vases sand, and minor amounts from the Ohara lime and Spar Mountain sand. Combined initial daily production was 1,919 barrels of oil or an average of 91 barrels. One McClosky well had a reported initial daily production of 360 barrels. Kell East field in Jefferson County had 7 wells. Production is from St. Louis lime. Combined initial daily production was 763 barrels. Woodlawn North field has only 1 well, a McClosky producer that initialled for 3 barrels of oil per day.

Exploration

Of the 1,087 new tests for oil and gas in 1979, 182 (16.7 percent) were wildcats (0.5 miles or more from production). Thirty-five of the wildcats were completed as producers, a success ratio of 19.2 percent. Of the 133 wildcats drilled between 0.5 and 1.5 miles from production (wildcat nears), 32 were producers, a success ratio of 24.1 percent.

The 49 wildcats drilled more than 1.5 miles from production (wildcat fars) resulted in 3 producers, a success ratio of 6.1 percent.

Forty-one of the 44 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 24 wildcats, followed by Jasper (16), Clay (15), Jefferson (14), Wayne (11), Hamilton (9), and Crawford (8).

Deeper production was discovered in 8 oil fields in 1979: St. Louis production in Benton North; Salem production in Iuka, Omega, and Walpole; Ullin production in Bessie and Ellery East; Fort Payne production in Mt. Carmel; and Trenton production in St. Jacob East.

Unsuccessful tests to find deeper production were drilled in 30 fields in 1979. The deepest zones tested and the fields are as follows: Aux Vases in Iola Central; McClosky in Cravat West; St. Louis in Miletus; Salem in Ab Lake West, Coil North, Exchange East, Hidalgo East, Kell East, Roaches, and Yale; Ullin in Albion Consolidated, Beman, Centerville East, Claremont, Hoodville East, Johnsonville Consolidated, Markham City West, Olney Consolidated, Phillipstown Consolidated, and Samsville Northwest; Fort Payne in Gards Point Consolidated and Springerton South; Devonian in Benton North, Bungay Consolidated, Divide Consolidated, Iola South, Louisville North, and Storms Consolidated; and Silurian in Calhoun Consolidated and Louisville.

Testing of the Salem and Ullin continued at a significant, although lower, rate in 1979. Of 1,134 tests, including old wells drilled deeper, 237 (21 percent) bottomed in the Salem or Ullin. Of all tests drilled, 83 were completed as Salem producers and 20 as Ullin producers. Of the 23 new pay zones discovered in fields, 5 are Salem and 3 are Ullin.

Production in Maple Grove Consolidated field in Wayne County was extended to the west (#31, table 3, fig. 1). Five wells in this area of the field were reported by the end of the year. One of the wells, a McClosky producer, had an initial production of 288 barrels of oil, flowing. Another initialled for 482 barrels of oil a day from Spar Mountain and McClosky. A number of permits have been issued to drill additional wells in the area. Maple Grove Consolidated was discovered in 1943.

Hidalgo East in Jasper County, a one-well field discovered in 1966 with production from the McClosky, had 22 producing wells reported in 1979. Initial production figures averaged over 33 barrels of oil per day and ranged as high as 82 barrels per day at one well. Except for a small amount of production from Aux Vases and Spar Mountain, which are new pays in the field, all of the new wells produce from the McClosky.

Just east of Hidalgo East field is Yale field, also discovered in 1966. To the 7 oil wells which had been completed in the field, 6 more were added in 1979—1 producing from McClosky and 5 from Spar Mountain. Combined initial production of the new wells was about 320 barrels per day. Drilling is expected to be brisk in this area of Jasper County in 1980.

FIELDS REVIVED AND ABANDONED

Seven abandoned oil fields were revived by successful drilling in 1979: Amity South in Richland County, Noble West in Clay County, Opdyke in Jefferson County, Roby North in Sangamon County, St. Jacob East in Madison County, Sumner in Lawrence County, and Trumbull North in White County.

Two oil fields were abandoned in 1979: Freemanspur in Williamson County, which had 3 wells and a cumulative production of 4,000 barrels; and Louisville South in Clay County, which had 2 wells and a cumulative production of 1,500 barrels.

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.

CRUDE OIL RESERVES

According to the American Petroleum Institute, the estimate of proved crude oil reserves declined 5.0 million barrels, or 3.6 percent, during 1979.

	Thousands of barrels
Estimated proved reserves 12/31/78	137,927
Additions during 1979:	
New fields, new pay zones, and extensions	1,405
Net upward revisions	13,830
	<u>153,162</u>
Less 1979 production	<u>20,254†</u>
Estimated proved reserves 12/31/79	132,908*

*American Petroleum Institute, June 1980, Reserves of crude oil, natural gas liquids, and natural gas in the United States and Canada as of December 31, 1979; v. 34, p. 22-23.

†This differs from 21,793,000 barrels reported by the Illinois Geological Survey's sources of production figures.

PRODUCTIVE ACREAGE

An estimated 6,360 acres were added to the area productive of oil, and an estimated 310 acres were added to the area productive of natural gas in 1979. The total area in Illinois that has proved productive of oil is 620,930 acres, and of gas, 36,790 acres.

In Illinois the normal spacing pattern for oil wells that produce from depths less than 4,000 feet is 10 acres per well for production from sandstone and 20 acres per well from 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 1,585 million cubic feet of natural gas was produced and marketed in Illinois in 1979, 36.8 percent more than in 1978.

Eldorado East field in Gallatin County sold 33.5 million cubic feet of gas to the Equality and Carmi areas. Harco South field in Saline County provided 9.8 million cubic feet to Harrisburg and Eldorado. Raleigh field in Saline County furnished 7.8 million cubic feet to cities in Saline County. Gas from abandoned mines in Saline County, in the amount of 69.3 million cubic feet, was sold to

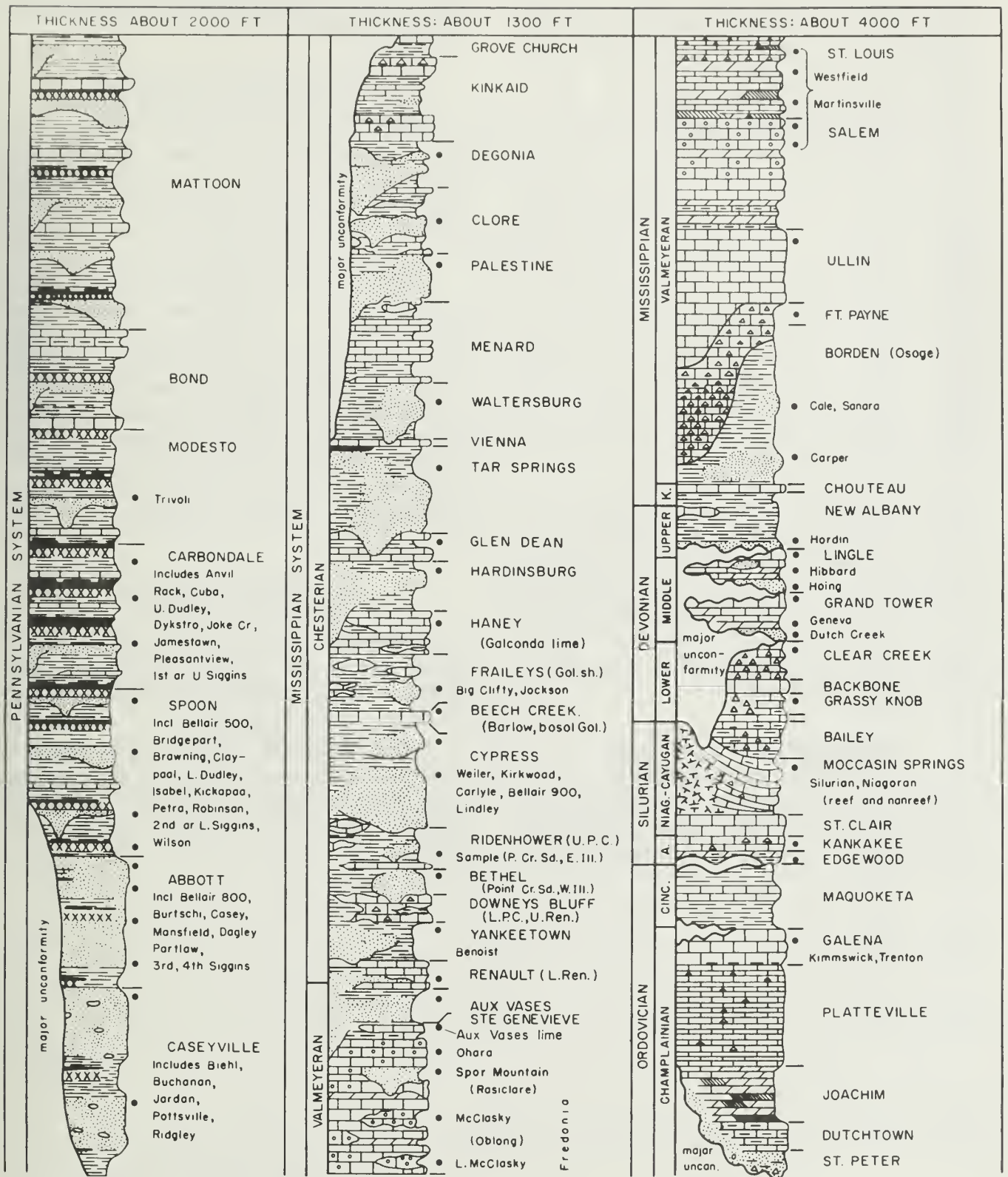


Figure 2. Generalized geologic column of southern Illinois. Solid dots indicate oil and gas pay zones. Formation names are in capitals; other pay zones are not. About 4,000 feet of lower Ordovician and upper Cambrian rocks under the St. Peter are not shown. The names of the Kinderhookian, Niagaran, Alexandrian,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

United Cities Gas Company in Eldorado. Eldorado Consolidated field furnished 9.9 million cubic feet to Eldorado. From Mattoon field in Coles County, 533.7 million cubic feet was furnished to the Effingham, Mattoon, and Paris areas.

From Stubblefield South field in Bond County, 13.4 million cubic feet of gas went into the Illinois Power Company system. Illinois Power Company also purchased 124.7 million cubic feet from New Athens field in St. Clair County, 152.8 million cubic feet from St. Libory field in St. Clair County, and 8.3 million cubic feet from Eden field in Randolph County for its transmission line. Grandview and Inclose fields in Edgar County provided 113.7 million cubic feet of gas for the Central Illinois Public Service Company system in the Mattoon and Paris areas. Fishhook field in Pike County furnished 240.4 million cubic feet to Central Illinois Public Service Company for their transmission line in western Illinois.

Keenville field, Wayne County, supplied 172.3 million cubic feet of gas from oil wells, which was processed and put into the Trunkline Gas Company transmission line. In Loudon field in Effingham and Fayette Counties, 95.1 million cubic feet of gas from oil wells was processed and sold to Natural Gas Pipeline Company of America for their transmission line.

UNDERGROUND STORAGE OF LIQUEFIED PETROLEUM GAS

Twelve caverns, which resulted from the mining of shale or limestone, provide storage capacity for 3,174,000 barrels of liquefied petroleum gases in

Illinois (table 6). Propane, butane, propylene, and ethane are the gases being stored.

UNDERGROUND STORAGE OF NATURAL GAS

In Illinois at the end of 1979, 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 1979

County	Production tests							Service wells						Total oil production (bbl)
	Permits to drill	Total completions	New holes		OWMO		Footage drilled	New service wells	Conversiona		Footage drilled	Structure tests	Total footage drilled	
			Prod.*	D&A	D&A to prod.*	Prod. to prod. in new pay zones			Were prod.	Other†				
Adams	12	7	1	6	-	-	4,779	-	-	-	-	-	4,779	5,920
Bond	11	8	3	2	-	-	8,303	2	1	-	5,435	-	13,738	65,028
Brown	3	7	-(1)	6	-	-	2,258	-	-	-	-	-	2,258	2,236
Bureau	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Champaign	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Christian	38	14	9	3	-	-	18,542	1	-	1	2,440	-	20,982	242,133
Clark	67	28	10	7	1	-	13,812	8	1	1	3,155	-	16,967	323,959
Clay	178	105	64	27	2	-	301,296	2	9	1	1,965	-	303,261	887,162
Clinton	25	11	4	4	-	-	12,966	1	2	-	690	-	13,656	353,268
Coles	23	10	-	5	-(1)	1	7,587	-	4	-	-	-	7,587	119,381
Crawford	262	165	95 (3)	31	3	2	171,496	29	1	1	31,681	2	205,190	1,309,213
Cumberland	12	12	-	1	2	-	4,175	8	1	-	4,019	-	8,194	-
De Witt	10	4	-	4	-	-	6,614	-	-	-	-	-	6,614	90,420
Douglas	7	-	-	-	-	-	-	-	-	-	-	-	-	8,942
Edgar	16	14	1 (10)	3	-	-	7,158	-	-	-	-	-	7,158	83,878
Edwards	81	54	28	18	2	1	157,479	1	3	2	235	-	157,714	435,613
Effingham	13	16	6	8	-	-	41,729	2	-	-	1,860	-	43,589	263,667
Fayette	14	21	14	6	1	-	51,212	-	-	-	-	-	51,212	1,765,949
Franklin	32	22	10	8	-	-	67,036	-	3	1	-	-	67,036	394,546
Gallatin	30	21	10	5	3	-	42,599	-	2	1	-	-	42,599	400,470
Hamilton	57	35	10	22	1	2	125,893	-	2	-	-	-	125,893	414,560
Hancock	-	-	-	-	-	-	-	-	-	-	-	-	-	116
Jackson	1	1	-	1	-	-	1,188	-	-	-	-	-	1,188	1,442
Jasper	112	70	37	26	2	-	161,622	-	4	1	-	-	161,622	523,489
Jefferson	107	84	41	35	2	-	236,025	1	2	3	2,778	-	238,803	679,642
Johnson	2	-	-	-	-	-	-	-	-	-	-	-	-	-
La Salle	2	1	-	1	-	-	3,845	-	-	-	-	-	3,845	-
Lawrence	55	47	18	9	-	1	55,702	11	7	2	15,989	-	71,691	2,195,038
Livingston	1	-	-	-	-	-	-	-	-	-	-	-	-	-
McDonough	5	4	-	4	-	-	2,419	-	-	-	-	-	2,419	25,066
McLean	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Macon	19	19	14	5	-	-	40,415	-	-	-	-	-	40,415	75,704
Macoupin	4	2	-(1)	1	-	-	828	-	-	-	-	-	828	6,018
Madison	22	11	4	5	-	-	11,714	1	1	-	2,607	-	14,321	91,287
Marion	69	30	13	11	-	1	77,593	1	4	1	873	-	78,466	2,140,226
Monroe	14	9	7	1	-	-	3,825	1	-	-	468	-	4,293	14,876
Montgomery	2	2	1	1	-	-	1,626	-	-	-	-	-	1,626	1,827
Moultrie	1	1	-	1	-	-	3,008	-	-	-	-	-	3,008	2,025
Perry	4	3	1	2	-	-	12,681	-	-	-	-	-	12,681	12,509
Piatt	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Pike	2	1	-	1	-	-	175	-	-	-	-	-	175	-
Putnam	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Randolph	2	1	-	1	-	-	1,671	-	-	-	-	-	1,671	45,614
Richland	58	36	15	19	-	1	112,110	-	2	-	-	-	112,110	747,732
St. Clair	11	6	2	3	-(1)	-	6,319	-	-	-	-	-	6,319	26,247
Saline	24	6	2	2	-	-	12,618	-	2	-	-	-	12,618	146,755
Sangamon	21	13	4	9	-	-	21,669	-	-	-	-	-	21,669	159,736
Shelby	5	3	1	2	-	-	8,085	-	-	-	-	-	8,085	28,010
Wabash	100	63	23	23	-	1	104,244	2	12	3	4,093	-	108,337	894,608
Washington	30	27	9	14	-	-	40,122	-	3	1	-	-	40,122	366,161
Wayne	239	145	84	42	4	4	441,035	2	10	3	4,359	-	445,394	2,987,724
White	228	169	86	59	5	5	531,920	4	8	7	10,768	-	542,688	3,112,980
Williamson	5	1	-	1	-	-	3,059	-	-	-	-	-	3,059	87,463
Production, location unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	254,115
Total	2,041	1,309	627 (15)	445	28 (2)	19	2,940,452	77	84	29	93,415	2	3,035,880	21,792,755

*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 1979*

County	Permits issued	Total completions	Injection and withdrawal wells		Service wells		Footage drilled
			New wells	Conversions	New wells	Conversions	
Champaign	6	2	2	-	-	-	8,619
Morgan	3	-	-	-	-	-	-
	<u>9</u>	<u>2</u>	<u>2</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>8,619</u>

TABLE 2. Discovery wells of 3 new fields in 1979

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	Jefferson 8-2S-2E	Charles T. Evans #1 Upton	Woodlawn North	3/6	McClosky	2,304	2,444	10-17-78	
2	Marion 34-1N-3E	Leonard Fields #1 Sattley-Hodges	Kell East	26	St. Louis	2,841	3,225	5-19	
3	White 2-4S-8E	R. K. Petroleum Co. #1 Roser Unit	Burnt Prairie Southwest	36	Ohara	3,436	3,467	1-2	

TABLE 3. Discovery wells of 33 extensions to fields in 1979 (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
4	Christian 2-11N-1E	John P. Potsh #1 Doris Dewerff "A"	Pana	8/10	Benoist	1,471	1,500	2-15	
5	Clay 3-3N-8E	Hubert W. Rose #1 Iva Gaskin et al.	Clay City C	35/42	McClosky Salem	3,050 3,495	3,605	8-13	
6	Clay 3-3N-8E	Hubert W. Rose #1 Vida King	Noble W	21/210	McClosky Salem Ullin	3,047 3,646 3,695	3,712	10-29	Salem and Ullin new pays in field
7	Clay 10-3N-8E	Hubert W. Rose #1 Frutiger	Clay City C	68	McClosky Salem	3,142 3,507	3,626	11-29-78	
8	Clay 29-4N-6E	Eason Oil Co. #1 Marjorie Wolfe	Louisville	5	McClosky Salem	2,880 3,517	3,570	12-16-78	
9	Clay 36-4N-8E	Fletcher F. Farrar #1 Thomann Heirs	Clay City C	3	McClosky Salem	3,070 3,560	3,731	9-9	
10	Clay 20-5N-7E	Pleasure Oil Co., Inc. #2 B. G. Brooks	Sailor Springs C	Oil well	Aux Vases	2,768	3,392	10-29	
11	Crawford 26-8N-12W	Billy Rector #1-A Mark A. Putnam	Main C	30	Robinson	966	1,012	8-14	
12	Edwards 3-3S-10E	C. E. Brehm Drlg. & Prod. #2 Metcalf	Ellery East	40	Ohara	3,321	3,385	11-21-78	

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
13	Franklin 8-5S-4E	C. E. Brehm Drlg. & Prod. #1 Richardson	Taylor Hill	60	Salem	3,635	4,029	11-27	Salem new pay in field
14	Jasper 22-8N-10E	Glennard Bunton #1 Roberts	Hidalgo East	Oil well	McClosky	2,532	2,556	11-15	
15	Jasper 18-8N-14W	Delmar Unfer #1 E. L. Fain	Yale	30	Spar Mtn.	1,651	1,879	7-31	
16	Jefferson 11-1S-3E	Dave Robinson #1 John Bryant	Divide C	32	St. Louis Salem	3,020	3,355	6-14	OWWO, was D&A
17	Jefferson 15-3S-4E	C. E. Brehm Drlg. & Prod. #1 Brehm-Mitchell	Opdyke	4	McClosky	3,107	3,111	11-27	
18	Jefferson 14-4S-3E	C. E. Brehm Drlg. & Prod. #1 Andre Heirs	Spring Garden	8/8	McClosky	3,061	3,125	10-26-78	
19	Jefferson 22-4S-3E	C. E. Brehm Drlg. & Prod. #1 Kelly Comm.	Spring Garden	100	McClosky	3,025	3,090	11-27	
20	Lawrence 1-2N-13W	Cache River Oil Corp. #1 Edmonson	Ruark West C	4/2	McClosky	2,326	2,990	5-15-78	
21	Lawrence 35-4N-13W	Scottie D. West #2 G. Jenner	Lawrence	14/140	McClosky	2,321	2,360	8/1	
22	Macon 31-16N-1E	Charles E. Watters #1 Earl Brown	Blackland	20	Devonian	1,925	1,942	6-26	
23	Macoupin 27-9N-8W	Donald E. Curtis, Inc. #1 Witt	Plainview	Gas well	Pennsyl- vanian	416	416	5-19	
24	Madison 6-3N-5W	Ego Oil Co., Inc. #1 Leder-Brown Comm.	St. Jacob East	9/50	Trenton	2,576	2,579	9-21-78	
25	Richland 26-4N-14W	Marathon Oil Co. #1 M. J. Lathrop	Hadley	9/5	Spar Mtn.	2,947	3,008	11-16	
26	Saline 19-8S-6E	J. D. Turner #1 D. E. & L. E. Rapp	Raleigh South	321	Aux Vases	2,842	3,050	11-3	
27	Shelby 18-9N-4E	R.H.B. Investments #1 Ralph Jones	Louden	8/18	Devonian	3,160	3,160	9-2-78	
28	Wayne 21-1N-5E	Robinson Production, Inc. #1 F. Donoho et al.	Orchardville	50/32	Ohara McClosky	2,945 3,024	3,854	9-1	
29	Wayne 21-1N-5E	Ram Oil Co. #1-A L. Scarbrough	Orchardville	Oil well	Aux Vases	2,908	2,940	11-15	
30	Wayne 5-1N-7E	Booth Oil Co., Inc. #1 Keith	Rinard North	10	Salem	3,706	3,861	12-11	
31	Wayne 15-1N-9E	Van Fossan Oil Assoc. #1 Virgil McKinney	Maple Grove C	144	Aux Vases	3,140	3,941	8-8	
32	Wayne 21-1S-6E	Wagner Oil & Gas #2 Jim Robertson	Johnsonville C	7/7	Aux Vases	3,082	3,131	12-20-78	
33	Wayne 16-2S-8E	Donald E. Schmitt #1 Weiss Comm.	Clay City C	27/120	Spar Mtn.	3,353	3,353	6-17	
34	White 3-4S-8E	R. K. Petroleum Co. #1 Jesse Duckworth "B"	Burnt Prairie Southwest	12	Aux Vases	3,362	3,369	10-16	
35	White 12-4S-8E	C. E. Brehm Drlg. & Prod. #1 Upton	Burnt Prairie Southwest	220	McClosky	3,513	3,584	7-24	McClosky new pay in field
36	White 13-4S-8E	C. E. Brehm Drlg. & Prod. #1 Crebs	Trumbull North	20/30	Ohara	3,420	3,505	11-27	Ohara new pay in field

TABLE 4. Discovery wells of 23 new pay zones in fields in 1979 (C, Consolidated; E, East; W, West; N, North; S, South)

Map no. (fig. 1)	County and location	Operator, well no., and farm	Field	Initial daily prod. oil/water (bbl)	New pay zones	Prod. depth (ft)	Total depth (ft)	Comple- tion date	Remarks
6	Clay 3-3N-8E	Hubert W. Rose #1 Vida King	Noble West	21/210	Salem Ullin	3,646 3,695	3,712	10-29	Also extension to field. Also produces from McClosky.
37	Crawford 4-5N-12W	Louis H. Kapps, Jr. #2 J. Poettker	Main C	10/12	Renault	1,564	1,650	10-17	
38	Edwards 3-3S-10E	Sandy Ridge Oil Co., Inc. #1 Harold Perkins	Ellery East	16/18	Ullin	4,218	4,227	11-25-78	Also produces from Ohara
39	Effingham 16-6N-6E	Leslie Mason #2-A Bushue	Hill	5	Aux Vases	2,507	2,570	9-25	
40	Franklin 30-5S-3E	H & W Oil Co., Inc. #17-B-1 Pickens	Benton North	40/40	St. Louis	3,062	3,762	7-6	
13	Franklin 8-5S-4E	C. E. Brehm Drlg. & Prdg. #1 Richardson	Taylor Hill	60	Salem	3,635	4,029	11-27	Also extension to field.
41	Franklin 13-6S-3E	C. E. Brehm Drlg. & Prdg. #1 Summers—U.S. Steel	Bessie	150	Ullin	3,825	3,900	11-27	
42	Hamilton 34-6S-6E	Texaco, Inc. #8 Charles Johnson "A"	Walpole	5/190	Benoist Ohara Salem	2,962 3,152 4,058	4,410	12-29-78	Also produces from Fredonia and St. Louis.
43	Jasper 30-7N-11E	Edward C. Kock #1 Ervin	Clay City C	6/40	Carper	3,806	4,255	9-26-78	
44	Jasper 10-8N-10E	Parrish Prod. Co. #1 Applegate	Hidalgo East	27/10	Spar Mtn.	2,342	2,422	9-10	Also produces from McClosky.
45	Jasper 14-8N-10E	Joseph G. Bigard #2 Robert Chapman	Hidalgo East	20/50	Aux Vases	2,264	2,435	7-79	Also produces from McClosky.
46	Madison 1-3N-6W	Ego Oil Co., Inc. #1 F & L Leder	St. Jacob East	12/23	Trenton	2,558	2,571	6-8	
47	Marion 17-2N-4E	Marshall Lippert #1 Kulbieda-Thomas	Iuka	57	Salem	2,999	3,123	10-8	
48	Marion 5-3N-1E	Tri-Star Producing Co. #1-T Clara Langenfeld	Patoka South	3/25	Devonian	2,978	4,025	9-24	Also produces from Trenton.
49	Marion 16-3N-4E	Jabe J. Anderson #1 Rose	Omega	10/8	Salem	2,742	3,160	6-15	
50	Wabash 21-1S-12W	Southern Triangle Oil Co. #A-1 Guisewite	Mt. Carmel	1/290	Ft. Payne	3,561	3,561	9-10-78	
51	White 12-4S-8E	R. K. Petroleum Corp. #3 Suma P. Hale et al.	Burnt Prairie Southwest	56/80	Aux Vases	3,336	3,553	8-11	
35	White 12-4S-8E	C. E. Brehm Drlg. & Prdg. #1 Upton	Burnt Prairie Southwest	220	McClosky	3,513	3,584	7-24	Also extension to field.
52	White 12-4S-8E	C. E. Brehm Drlg. & Prdg. #B-1 Hershel Upton	Burnt Prairie Southwest	22	Spar Mtn.	3,451	3,479	8-20	Also produces from Ohara.
36	White 13-4S-8E	C. E. Brehm Drlg. & Prdg. #1 Crebs	Trumbull North	20/30	Ohara	3,420	3,505	11-27	Also extension to field.

TABLE 5. Selected unsuccessful deep tests in 1979

Map no. (fig. 1)	County and location	Operator, well no., and farm	Field or wildcat	Deepest strata tested	Depth to top (ft)	Total depth (ft)	Comple- tion date
53	Clay 32-4N-6E	Eason Oil Co. #1 Spencer-Hoke	Louisville	Silurian	4,718	4,830	1-14
54	Hamilton 21-4S-7E	W. R. Becker #1 Farmer Heirs	Bungay Consolidated	Devonian	?	5,559	10-26
55	Jefferson 18-1S-1E	Illini Drlg. Co., Inc. #1 C. A. Evans	Wildcat near*	Trenton	4,914	5,072	9-17
56	Perry 4-6S-1W	Texaco, Inc. #1 Helen Coen	Wildcat far [†]	Trenton	?	4,615	11-19
57	Richland 7-2N-10E	Heath Oil Prod. #1 A. Ede	Calhoun Consolidated	Silurian	5,061	5,645	5-8
58	Wayne 34-1S-7E	Hobson Oil Co. #2 Taylor	Clay City Consolidated	Clear Creek	5,212	5,233	9-17
59	White 11-6S-9E	Jim Haley Prod. #5 Rudolph	Storms Consolidated	Clear Creek	5,253	5,308	4-24

*Drilled ½ to 1½ miles from production.

†Drilled more than 1½ miles from production.

TABLE 6. Underground storage facilities for liquefied petroleum gases in Illinois, January 1, 1980

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 & Livingston	1961	1963	1965	112	33	—	Mt. Simon	sand	anti-cline	water							
Ashmore	Central Illinois Public Service	Coles & Clark	1960	1963	1963	48	5	—	Spoon	sand	dome	gas							
Brocton	URS	Douglas & Edgar	(potential air storage)			0	5	—	Lingle	lime	dome	water							
Centralia East	Illinois Power Co.	Marion	1960	1964	1966	17	4	—	Pennsylvanian	sand	strati-graphic	gas							
Cooks Mills	Natural Gas Pipeline Co.	1N-1E Coles & Douglas	1956	1959	1959	24	9	—	Cypress	sand	lens	gas							
Corinth	Central Illinois Public Service	Williamson	1972	1972	1972	4	—	—	Hardinsburg	sand	—	gas							
Crab Orchard	Central Illinois Public Service	Williamson	1972	1972	1972														
Crescent City St. P.	Northern Illinois Gas Co.	Iroquois	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	1970	1971	1971	12	3	—	Cypress	sand	strati-graphic	gas							
Elbridge	Midwestern Gas Transmission Co.	Edgar	1961	1965	1966	12	7	—	Grand Tower	lime	drape	water							
Freeburg	Illinois Power Co.	12, 13N-11W St. Clair	1958	1959	1959	87	3	—	Cypress	sand	over reef	gas							
Gillespie-Benld	Illinois Power Co.	1, 2S-7W Macoupin	1958	1958	1959	7	0	—	Pennsylvanian	sand	strati-graphic	gas							
Glasford	Central Illinois Light Co.	8N-6W Peoria	1960	1964	1964	33	14	—	Niagaran	dolo-mite	dome	water							
Herscher Gvl.	Natural Gas Pipeline Co.	7N-6E Kankakee	1952	1953	1953	60	124	24	Galesville	sand	anti-cline	water							
Herscher Mt. S.		30N-10E	1957	1957	1958	55	18	—	Mt. Simon	sand	anti-cline	water							
Herscher-Northwest	Natural Gas Pipeline Co.	Kankakee	1968	1969	1970	20	14	1	Mt. Simon	sand	anti-cline	water							
Hillsboro	Illinois Power Co.	30, 31N-9E Montgomery	1972	1974	1975	4	7	—	St. Peter	sand	dome	water							
Hookdale	Illinois Power Co.	9, 10N-3W Bond	1962	1963	1963	10	4	—	Yankeetown ("Benoist")	sand	strati-graphic & structural	gas							
Hudson	Northern Illinois Gas Co.	4N-2W McLean	1970	1971	1971	32	8	1	Mt. Simon	sand	dome	water							
Hume	URS	24, 25N-2, 3E Edgar	(potential air storage)			0	9	—	Lingle	lime	dome	water							
Lake Bloomington	Northern Illinois Gas Co.	16N-13, 14W McLean	1971	1971	1972	35	16	1	Mt. Simon	dolomite	sand	anti-cline	water						
Lexington	Northern Illinois Gas Co.	25, 26N-2, 3E McLean	1971	1971	1972	32	12	1	Mt. Simon	sand	dome	water							
Lincoln	Central Illinois Light Co.	25N-3, 4E Logan	1971	1974	1974	20	19	—	Silurian	dolo-mite	dome	water							
Loudon	Natural Gas Pipeline Co.	19N-3W Fayette	1967	1967	1969	66	61	—	Grand Tower	lime	anti-cline	oil							
Manlove	Peoples Gas Light & Coke Co.	7, 8, 9N-3E Champaign	1960	1964	1966	137	12	—	Mt. Simon	sand	anti-cline	water							
Media Gvl.	Mid-Continent Gas Storage Co.	21N-7E Henderson	(testing)			3	13	—	Galesville	sand	dome	water							
Media Mt. S. Mills & Edwards	Egyptian Gas Storage Co.	9N-4, 5W Gallatin	1974	1975	1975								2	1	—	Mt. Simon	sand	dome	water
Nevins	Egyptian Gas Storage Co.	7S-9E Gallatin	1974	1975	1975								1	0	—	Tar Springs	sand	lens	gas
Pecatonica	Midwestern Gas Transmission Co.	8S-8E Edgar	1961	1965	1966	13	8	—	Grand Tower	lime	drape	water							
Pontiac Gvl.	Northern Illinois Gas Co.	12, 13N-11W Winnabago	1967	1969	1970	14	15	—	Eau Claire	sand	over reef	water							
Pontiac Mt. S.	Northern Illinois Gas Co.	27N-10E Livingston	1975	1976	1977	10	6	0	Galesville	sand	dome	water							
Richwoods	Gas Utilities Co.	27, 28N-6E Livingston	1966	1968	1969	43	7	1	Mt. Simon	sand	dome	water							
St. Jacob	Mississippi River Transmission Corp.	27, 28N-6E Crawford	1966	1966	1966	4	2	—	Pennsylvanian	sand	—	gas							
Sciota	Central Illinois Public Service	6N-11W Madison	1963	1963	1965	10	4	—	St. Peter	sand	dome	water							
Shanghai	Illinois Power Co.	3N-6W McDonough	1974	1975	1975	12	9	—	Mt. Simon	sand	dome	water							
State Line	Midwestern Gas Transmission Co.	6, 7N-3, 4W Warren & Mercer	1970	1971	1971	9	10	—	Galesville	sand	dome	water							
Tilden	Illinois Power Co.	12, 13N-1W Clark, Ill., & Vigo, Ind.	1961	1963	1964	9	6	—	Grand Tower	lime	drape	water							
Troy Grove	Northern Illinois Gas Co.	12N-10W St. Clair & Washington	1957	1961	1961	45	14	—	Cypress	sand	strati-graphic	gas							
Tuscola	Panhandle Eastern Pipeline Co.	3S-5, 6W La Salle	1957	1958	1959	96	31	—	Eau Claire	sand	dome	water							
Waverly St. P.	Panhandle Eastern Pipeline Co.	34, 35N-1E Douglas & Champaign	(testing)			13	11	1	Mt. Simon	sand	dome	water							
Waverly Gvl.	Panhandle Eastern Pipeline Co.	16, 17N-8E Morgan	1952	1954	1962	59	24	22	St. Peter	sand	dome	water							
		13N-8W Morgan	1969	1969	1970														
		13N-8W							Galesville	sand	dome	water							

projects in Illinois—January 1, 1980

Reservoir data						Capacities (MMcf)*			Withdrawals (MMcf)			Project
Area in acres		Depth (feet)	Thickness or closure (feet)	Average porosity (%)	Average permeability (millidarcys)	Potential working and cushion	Dec. 31, 1979		Max. vol. in storage 1979 (MMcf)	1979 Peak daily	1979 Total	
Storage	Closure						Working	Cushion				
—	12,840	2,154	290	12.3	114	170,000 [†]	52,843 [†]	100,313 [†]	167,188 [†]	671	42,670 [†]	Ancona
—	1,600	400	4-80	15.0	up to 3,000	3,585	1,532	1,981	3,564	30	816	Ashmore
—	32,000	672	220	12.2	—	70,000	—	—	—	—	—	Brocton
463	—	812	49	18.2	200	660	244	416	660	17	280	Centralia
—	1,500	1,600	40	16.0	67	4,750	3,077	1,567	4,645	76	2,719	East Cooks Mills
20	—	2,125	28	—	—	516	351	138	489	2	68	Corinth Crab Orchard
20	—	2,200	19	—	—							
—	16,725	1,200	150	14.5	138	50,000	—	—	—	—	—	Crescent City St. P.
—	—	—	—	—	—	100,000	—	—	—	—	—	Crescent City Mt. S.
—	1,000	875	18	20.6	168	1,406	518	868	1,406	7	253	Eden South
—	1,691	1,925	145	17.5	18	7,466	934	6,295	7,466	17	1,272	Elbridge
4,222	—	350	47	21.5	216	7,151	2,515	4,636	7,151	39	2,193	Freeburg
113	—	510	28	16.0	326	151	34	116	151	4	86	Gillespie- Benld
—	3,200	800	120	12.0	426	12,586	6,292	6,293	12,586	112	2,880	Glasford
6,750	8,000	1,750	100	18.0	467	50,000	13,129	23,283	37,177	793	16,500	Herscher Gvl.
7,500	8,000	2,450	80	12.0	185	67,500	30,080	32,504	65,874	195	14,961	Herscher Mt. S.
—	3,000	2,200	58	15.0	82	17,500	6,609	10,134	17,312	39	3,159	Herscher- Northwest
4,000	—	3,150	100	16.0	250	10,116	4,204	5,912	10,116	41	1,888	Hillsboro
414	—	1,125	28	20.3	458	1,096	699	285	985	29	713	Hookdale
—	13,200	3,800	160	11.0	45	100,000 [†]	6,463 [†]	26,291 [†]	35,055 [†]	97	5,934 [†]	Hudson
—	6,500	670	136	12.4	—	4,000	—	—	—	—	—	Hume
—	10,600	3,525	97	11.0	45	45,000 [†]	12,090 [†]	33,839 [†]	48,342 [†]	149	7,833 [†]	Lake Bloomington
—	14,300	3,800	100	10.7	37	100,000 [†]	7,914 [†]	31,309 [†]	41,746 [†]	91	5,492 [†]	Lexington
—	3,000	1,300	85	12.0	250	12,124	5,455	6,668	12,124	41	1,558	Lincoln
2,610	—	3,050	65	15.0	—	75,000	36,618	31,137	66,478	423	21,698	Louden
—	13,370	3,950	116	11.0	15	200,000	40,030	85,087	127,863	621	25,862	Manlove
—	4,700	2,100	100	17.2	448	62,000	0	0	0	0	0	Media Gvl.
—	3,500	2,500	100	14.3	152	50,000	0	0	0	0	0	Media Mt. S.
—	224	2,302	18	—	—	747	92	70	92	2	55	Mills
—	142	1,825	30	—	—	245	24	77	115	1	29	Edwards
—	1,650	1,975	105	16.5	25	7,212	1,191	5,685	7,212	21	1,339	Nevins
—	2,600	800	38	18.6	556	3,500 [†]	896 [†]	1,956 [†]	3,180 [†]	25	992 [†]	Pecatonica
—	—	2,425	100	18.0	704	50,000 [†]	0 [†]	4,626 [†]	5,050 [†]	81	0	Pontiac Gvl.
3,500	—	3,000	100	10.0	25	45,000 [†]	12,685 [†]	25,345 [†]	42,242 [†]	153	13,165 [†]	Pontiac Mt. S.
—	—	700	—	—	—	105	60	38	98	1	18	Richwoods
550	650	2,860	100	14.0	400+	5,600	333	2,897	3,230	67	1,835	St. Jacob
—	2,500	2,600	70	12.0	39	5,000	1,168	2,266	3,434	14	233	Sciota
—	1,850	2,000	95	15.2	246	11,565	5,557	6,007	11,565	68	3,638	Shanghai
—	496	1,860	91	17.3	47	5,014	1,075	3,920	5,014	14	745	State Line
1,287	—	800	33	20.8	183	3,090	1,174	1,820	3,020	47	1,778	Tilden
—	9,600	1,420	100	17.0	150	80,000 [†]	30,412 [†]	33,982 [†]	75,515 [†]	724	36,973 [†]	Troy Grove
—	—	4,000	—	—	—	9,000	0	7,519	8,068	24	1,008	Tuscola
1,500	7,000	1,800	115	18.0	1,220	55,000	9,920	40,282	50,892	212	8,146	Waverly St. P. Waverly Gvl.
—	—	3,500	68	—	—							

*Million cubic feet. [†]1977 data; 1978 and 1979 data not reported.

TABLE 8. Illinois oil field statistics, 1979

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, 1979

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART 1)	PAY ZONE NAME AND AGE	YEAR	AREA PRO-VEU IN ACRES	PRODUCTION M 8BLS		NUMBER OF WELLS			PRODUCING YEAR	CHARACTER OF OIL			PAY ZONE	DEEPEST TEST	
				1979	END OF 1979	COMP-LETO TO END OF 1979	CO-MPL-ETO IN 1979	AS-ANO-ONED		PERC-FUR OF ROCK	SUL-FUR KIND OF	THI-CKN-ESS			STR-UCT-UME
AB LAKE, GALLATIN, 8S, 10E															
PENNSYLVANIAN	805	1947	80	3.5	127.7	10	0	0	3	35	3	10	M	MIS 2953	
PALESTINE, MIS	1835	1954	40			4	0	0		36	3	5	MF		
WALTERSBURG, MIS	2000	1957	10			1	0	0		37	3	10	M		
MENAUT, MIS	2735		40			3	0	0		37	3	10	M		
AUX VASES, MIS	2770		20			2	0	0		35	L	8	MF		
			10			1	0	0		35	3	9	MF		
AB LAKE SOUTH, GALLATIN, 9S, 10E															
AUX VASES, MIS	2798	1959	10	0.0	3.8	1	0	0	0	36	3	6	M	MIS 2982	
			ARU 1963												
AB LAKE WEST, GALLATIN, 8-9S, 9-10E															
PENNSYLVANIAN	725	1954	450	1.0	540.3	33	0	0	15	35	3	10	M	MIS 3711	
WALTERSBURG, MIS	2020	1956	50			3	0	0		37	3	20	ML		
TAR SPRINGS, MIS	2075	1958	300			19	0	0		37	3	10	ML		
CYPRESS, MIS	2425	1954	30			2	0	0		38	8	10	ML		
AUX VASES, MIS	2735		10			1	0	0		36	3	9	ML		
MCCLOSKEY, MIS	2830		160			17	0	0		36	8	6	ML		
			10			1	0	0		38	L	2	MC		
ADEN C, WAYNE, HAMILTON, 2-3S, 7E															
AUX VASES, MIS	3200	1938	2410	41.7	13490.9	128	0	0	55	39	3	10	A	DEV 5434	
OMARA, MIS	3290	1943	1570			64	0	0		39	3	7	AC		
SPAR MTN, MIS	3320	1943	2040			10	0	0		35	L	7	A		
MCCLOSKEY, MIS	3350	1938	#			6	0	0		35	LS	5	AC		
SALEM, MIS	3735	1948	#			79	0	0		35	L	4	A		
ULLIN, MIS	4132	1959	60			9	0	0		36	L	16	AC		
LINGLE, DEV	5182	1968	50			4	0	0		39	L	16	AC		
UTCH CREEK, DEV	5318	1959	10			1	0	0		3	3	10	A		
			30			3	0	0		40	8	10	A		
ADEN EAST, WAYNE, 2S, 7E															
MCCLOSKEY, MIS	3434	1961	10	0.0	0.0	1	0	0	0	39	OL	6		MIS 3552	
			ARU 1961												
ADEN SOUTH, HAMILTON, 3S, 7E															
AUX VASES, MIS	3245	1945	350	3.1	855.3	29	0	1	8	39	3	8	A	DEV 5462	
OMARA, MIS	3310	1946	170			9	0	0		37	L	7	AC		
SPAR MTN, MIS	3330		350			3	0	1		37	L	7	AC		
MCCLOSKEY, MIS	3395	1945	#			8	0	0		37	LS	8	AC		
			#			17	0	0		38	L	9	AC		
AKIN, FRANKLIN, 6S, 4E															
CYPRESS, MIS	2640	1942	770	6.0	2447.2	60	0	2	14	35	0.14	3	10	A	MIS 4106
AUX VASES, MIS	3100	1942	220			14	0	2		37	0.12	3	22	AL	
OMARA, MIS	3100	1956	530			41	0	0		38	L	18	AC		
MCCLOSKEY, MIS	3270	1943	70			4	0	0		38	L	18	AC		
			#			1	0	0		38	L	9	AC		
AKIN WEST, FRANKLIN, 6S, 4E															
CYPRESS, MIS	2715	1948	120	4.1	245.1	9	0	0	7	35	3	8	A	DEV 5185	
OMARA, MIS	3050	1948	30			2	0	0		37	L	10	AC		
SPAR MTN, MIS	3080	1948	70			2	0	0		37	L	10	AC		
MCCLOSKEY, MIS	3130		#			1	0	0		39	L	12	AC		
SALEM, MIS	3663	1962	3			3	0	0		39	L	4	AC		
ULLIN, MIS	3994	1962	10			1	0	0		38	L	10			
			20			2	0	0		37	L	10			
ALBION CEN, EDWARDS, 2S, 10E															
OMARA, MIS	3350	1955	110	0.0	136.0	7	0	0	1	37	L	5		MIS 3510	
MCCLOSKEY, MIS	3395		110			7	0	0			L	4			
			#			1	0	0			L	4			
ALBION C +, EDWARDS, WHITE, 1-3S, 10-11E, 14W															
MANSFIELD, PEN	1650	1940	5750	174.3	30233.9	495	4	2	167	28	8	5	AM	DEV 5185	
BRIDGEPORT, PEN	1900		1950			6	0	0		29	0.16	8	15	MF	
BIEM, PEN	2000	1944	#			30	0	0		37	0.16	8	15	MF	
DEWONIA, MIS	2125		#			158	0	0		37	0.16	8	15	MF	
WALTERSBURG, MIS	2365	1949	10			2	0	0		35	8	9	MF		
TAR SPRINGS, MIS	2460	1944	690			67	0	2		36	3	16	A		
MARDINSBURG, MIS	2635		140			10	0	0		37	8	5	AL		
CYPRESS, MIS	2860		70			6	0	0		36	3	10	A		
BETHEL, MIS	2960		510			45	1	0		37	8	15	A		
BENOIST, MIS	3000		940			58	0	0		36	8	14	AF		
			210			16	1	0		34	3	13	AF		

(CONTINUE ON NEXT PAGE)

TABLE 8- continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF DISC- (FT) OVERY	AREA PRO- VPU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			PROD- UCING YEAR	CHARACTER OF OIL		PAY ZONE	DEEPEST TEST	
				1979	TO END OF 1979	COMP- LETED TO END OF 1979	CO- MPL- IN 1979	A8- AND- 1979		GR, API	SUL- FUR- PERC- ENT			KIND OF ROCK
*ALBION C, EDWARDS, WHITE, 1-38, 10-11E, 14W (CONTINUED FROM PREVIOUS PAGE)														
AUX VASES, MIS		3045 1942	1710			118	3	0		37	S	18	AF	
OMARA, MIS		3110 1943	1780			11	0	0		40	L	5	AC	
SPAR MTN, MIS		3130	#			7	0	0		38	L	10	AC	
MCCLOSKEY, MIS		3200 1940	#			101	0	0		37	L	12	AC	
*ALBION EAST, EDWARDS, 2S, 14W														
		1943	1320	70.7	2284.8	100	8	3		57		A	MIS 3600	
CYPRESS, MIS		2800	300			25	6	1		32	S	7	A	
BETHEL, MIS		2920	170			11	0	0		38	S	6	AL	
BENOIST, MIS		2925	150			20	2	0		38	S	10	AC	
AUX VASES, MIS		3020	330			22	3	1		34	S	17	AL	
OMARA, MIS		3100 1943	750			16	1	1		38	L	7	A	
SPAR MTN, MIS		3125 1947	#			20	1	0			L	7	A	
MCCLOSKEY, MIS		3155	#			15	1	0			L	7	A	
ALBION NORTHWEST, EDWARDS, 1S, 10E														
MCCLOSKEY, MIS		3300 1967	30	0.9	37.5	3	0	0		2	L	6	MIS 3400	
ALBION WEST, EDWARDS, 3S, 10E														
		1953	40	2.7	10.9	3	0	0		2			MIS 3762	
OMARA, MIS		3230 1976	40			2	0	0			L	8		
MCCLOSKEY, MIS		3375 1953	#			1	0	0			L	5		
ABO 1953, REV 1976														
*ALLEDALE, WABASH, LAWRENCE, 1-2N, 11-13W														
		1912	9870	229.8	23350.4	1171	9	5		356			AM ORD 5143	
PLEASANTVIEW, PEN		660	6610			0	0	0			S	30	AM	
BRIDGEPORT, PEN		1070	#			0	0	0			S	12	AM	
BUCHANAN, PEN		1290	#			0	0	0			S	15	AM	
BIEHL, PEN		1450	#			728	3	2		33	S	20	AM	
JORDAN, PEN		1490	#			28	4	0			S	10	AM	
WALTERSBURG, MIS		1540	320			29	0	0		31	S	15	AM	
TAR SPRINGS, MIS		1600	250			22	0	0		30	S	20	AM	
HAROLDSBURG, MIS		1780	10			2	0	0		34	S	10	AM	
CYPRESS, MIS		1920	1830			89	0	0		34	S	10	AM	
SAMPLE, MIS		1769	1290			12	0	0		35	S	X	AM	
BETHEL, MIS		2010	#			103	0	1		35	S	10	AM	
AUX VASES, MIS		2280	180			14	0	0		37	S	12	AM	
OMARA, MIS		2300	990			20	0	1			L	10	AM	
SPAR MTN, MIS		2300	#			13	0	0			L8	5	AM	
MCCLOSKEY, MIS		2300	#			29	1	1		36	L	8	AM	
ST LOUIS, MIS		2275 1967	30			3	1	0		39	L	15		
SALEM, MIS		2774 1966	80			7	2	0		39	L	10		
ULLIN, MIS		2806 1966	30			2	0	0		39	L	12		
ALMA, MARION, 4N, 2E														
		1941	60	0.0	82.0	6	0	0		0		A	DEV 3692	
CYPRESS, MIS		1605	10			1	0	0		35	S	7	AL	
BENOIST, MIS		1945 1942	50			6	0	0		36	S	8	AL	
SPAR MTN, MIS		2085 1941	40			2	0	0		36	L	10	AC	
ABO														
AMITY, RICHLAND, 4N, 14W														
		1942	70	1.3	58.0	5	0	0		2			MIS 3873	
AUX VASES, MIS		3060 1977	10			1	0	0			S	10		
MCCLOSKEY, MIS		2960 1942	70			5	0	0		36	OL	5	MC	
AMITY S, RICHLAND, 4N, 14W														
SPAR MTN, MIS		2890 1953	20	15.6	15.7	2	1	0		1	38	L	4	MIS 3032
ABO 1953, REV 1979														
AMITY W, RICHLAND, 4N, 14W														
AUX VASES, MIS		2925 1953	10	0.0	0.0	1	0	0		0	38	S	12	MIS 3100
ABO 1954														
ASHLEY, WASHINGTON, 2S, 1W														
BENOIST, MIS		1430 1953	210	8.4	486.5	15	0	1		13	30	S	7	DEV 3116
ASHLEY E, WASHINGTON, 2S, 1W														
BENOIST, MIS		1636 1969	60	1.3	62.7	5	0	0		5		S	6	MIS 1904
ASHMURE E, COLES, 13N, 14W														
(CONTINUED ON NEXT PAGE)														

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	
			AREA PRD- VEU IN ACRES	QUN- ING 1979	TO DISC- END OF 1979	COMP- LETO TO END OF 1979	CU- MPL- AND IN 1979	AB- AND ONED END OF 1979	PROO- UCING YEAR	SUL- FUL PERC- API	KINU OF ROCK	THI- CHN- ESS			STR- UCT- URE
(CONTINUED FROM PREVIOUS PAGE)															
ASHMORE E, COLES, 13N, 14W	PENNSYLVANIAN	415	1956	60	0,0	0,4	6	0	0	4	30	S	14	DEV	1228
				ABU 1957, REV 1962											
ASHMORE S, COLES, CLARK, 12N, 10-11E, 14W															
	UNNAMEU, PEN	420	1958	320	2,3	54,5	24	0	0	17				TRN	2260
	MISSISSIPPIAN	475	1963	320			23	0	0		24	S	X AL		
				20			1	0	0		38	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															
	BENOIST, MIS	1050	1948	2460	43,1	10345,3	188	1	0	55				ORD	3070
	SPAR MTN, MIS	1170	1949	590			47	1	0		36	S	13 A		
	LINGLE, DEV	2300	1948	220			17	0	0		40	S	4 AL		
				2300			126	0	0		38	L	8 A		
ASSUMPTION S, CHRISTIAN, 12N, 1E	LINGLE, DEV	2630	1951	50	0,6	23,6	3	0	0	1	39	L	15	SIL	2600
AVA-CAMPBELL HILL, JACKSON, 7S, 3-4W	CYPRESS, MIS	780	1916	140	0,0	25,0	16	0	0	0	36	S	18 A	TRN	3582
				ABO 1943, REV 1956, ARO 1957											
BALDWIN, RANDOLPH, 4S, 6W	SILURIAN	1535	1954	30	0,2	11,8	3	0	0	1	32	L	X R	TRN	2234
BANNISTER, MARION, 2N, 3E	AUX VASES, MIS	2570	1973	10	0,0	8,6	1	0	0	0		S	5	DEV	4226
				ABO 1978											
BARNHILL, WAYNE, WHITE, 2-38, R-9E															
	AUX VASES, MIS	3325	1939	2120	62,8	6312,6	183	2	0	69				DEV	5500
	OHARA, MIS	3370	1943	1130			88	1	0		39	S	15 AL		
	SPAR MTN, MIS	3400		1210			9	0	0			OL	6 AC		
	MCCLUSKY, MIS	3450	1939	#			11	0	0			LS	9 AC		
	ST LOUIS, MIS	3520		10			78	1	0		38	OL	15 AC		
	SALEM, MIS	3795		200			1	0	0		38	L	7 AC		
							9	0	0		39	L	8 AC		
BARTELBO, CLINTON, 1-2N, 3W															
	CARLYLE (CYP), MIS	985	1936	600	26,4	4196,5	114	1	3	46				STP	4212
	SILURIAN	2420	1939	420			76	0	3		36	S	15 D		
				400			39	1	0		42	L	12 W		
BARTELBO E, CLINTON, 1N, 3W	SILURIAN	2550	1950	210	7,9	948,4	21	0	0	18	42	L	7 W	SIL	2788
BARTELBO S, CLINTON, 1N, 3W	DEVONIAN	2475	1942	60	0,0	23,7	3	0	0	0	40	L	3 A	DEV	2652
				ABU 1962											
BARTELBO W, CLINTON, 1N, 3-4W															
	CYPRESS, MIS	960	1945	290	2,3	100,8	21	0	0	14				SIL	2600
	SILURIAN	2439	1961	290			18	0	0		36	S	15 A		
				10			1	0	0		40	L	7 A		
BEAUCOUP, WASHINGTON, 2S, 2W	CLEAR CREEK, DEV	3050	1951	280	0,9	381,6	14	0	0	10				TRN	4192
	TRENTON, ORD	4095	1952	280			14	0	0		39	L	12 A		
				10			1	0	0		39	L	5 A		
BEAUCOUP S, WASHINGTON, 28, 2W	BENOIST, MIS	1430	1951	260	6,9	1069,1	22	0	0	12	35	S	9 AL	ORD	4170

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE AND SECONDARY RECOVERY (SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISCOVERY (FT) OVERY	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST			
			AREA PRO-VEU IN ACRES	OUR-ING 1979	TO ENO OF 1979	COMP-LETO ENO OF 1979	CO-ETEO IN 1979	AB-AND-ONEO 1979	PROD-UCING ENO OF YEAR	SUL-FUR PERC-API ENT	GR, PERC-API ENT			OF ROCK	THI-EST-UCT-ONE	
BEAVER CREEK, BOND, CLINTON, 3-4N, 2-3W																
BENOIST, MIS		1130 1942	100	2,9	290,6	17	0	1	5	34	0,25	S	6	A	SIL	2558
BEAVER CREEK N, BOND, 4N, 3W																
BENOIST, MIS		1115 1949	80	0,0	0,7	6	0	0	0	24		S	4	A	OEV	2556
AND 1954, REV 1958, AND 1964																
BEAVER CREEK S, BOND, CLINTON, 3-4N, 2-3W																
CYPRESS, MIS		1005 1946	590	7,8	743,1	53	0	0	25			S	20	A	SIL	2606
BETHEL, MIS		1076 1974	20			2	0	0		36		S	7	A		
BENOIST, MIS		1140 1946	10			1	0	0				S	5	A		
BEECKEMEYER GAS, CLINTON, 2N, 3W																
CYPRESS, MIS		1070 1956	10	0,0	0,0	1	0	0	0			S	23		SIL	2730
AND 1958																
BELLAIR, CRAWFORD, JASPER, 8N, 14W																
(500 FT), PEN		1907	2230	X	X	543	0	1	70			S	30	AM	OEV	2732
(800 FT), PEN		560	2140			315	0	1		29		S	X	AM		
(900 FT), MIS		815	#			77	0	0		37		S	X	AM		
CYPRESS, MIS		885	#			190	0	0		37		S	X	AM		
BENOIST, MIS		950	70			5	0	0		36		S	4	AM		
MENAUULT, MIS		1000	420			5	0	0		36		S	10	AM		
AUX VASES, MIS		830	30			6	0	0		37		S	6	AM		
OHARA, MIS		600	220			11	0	0		38		S	X	AM		
CAMPER, MIS		660	30			1	0	0		37		L	4	A		
		1748 1969	50			4	0	0				S	18			
SEE CLARK COUNTY DIV, FOR PRODUCTION																
BELLE PRAIRIE, HAMILTON, 4S, 6-7E																
MCCLOSKEY, MIS		3420 1940	300	11,5	1093,2	17	0	0	9	38	0,12	L	6	AC	OEV	5483
BELLE PRAIRIE W, HAMILTON, 4S, 5E																
ULLIN, MIS		4206 1959	10	0,3	0,8	1	0	0	0	37		L	6		MIS	4389
AND 1960																
BELLE RIVE, JEFFERSON, 3S, 4E																
MCCLOSKEY, MIS		3085 1943	110	1,8	405,8	6	0	0	3	37	0,90	L	6	AC	MIS	4200
BELLMONT, WABASH, 1S, 13-14W																
BETHEL, MIS		1951	30	0,0	73,0	4	0	0	0			S		M	MIS	3006
UHARA, MIS		2650 1951	10		11,0	1	0	0		38		S	7	ML		
		2640 1951	20		62,0	3	0	0		40		L	7	MC		
AND 1972																
BEMAN, LAWRENCE, 3N, 11W																
AUX VASES, MIS		1605 1942	530	1,5	328,1	34	0	0	8			S	20	AL	OEV	3410
STE. G, MIS		1850 1942	100			8	0	0		38		L	7	AC		
			440			30	0	0		38		L	7	AC		
BEMAN E, LAWRENCE, 3N, 10W																
AUX VASES, MIS		1947	110	0,0	116,0	7	0	0	0			S		A	MIS	1924
STE. G, MIS		1805 1947	30			7	0	0		38		S	20	AL		
		1860 1947	110			6	0	0		38		L	7	AC		
AND 1960, REV 1965, AND 1969																
BENNINGTON S, EDWARDS, 1N, 10E																
MCCLOSKEY, MIS		3240 1944	10	0,0	10,4	1	0	0	0	37		L	8	MC	MIS	3420
AND 1946																
BENTON, FRANKLIN, 6S, 2-3E																
PENNSYLVANIAN		1700 1941	2360	32,1	40028,5	268	0	0	80			S	9	AL	TRN	6250
TAW SPRINGS, MIS		2100 1941	20			2	0	0		33		S	10	A		
AUX VASES, MIS		2752 1959	2360			249	0	0		38		S	15	A		
UHARA, MIS		2604 1959	300			21	0	0		38		L	8	A		
MCCLOSKEY, MIS		2906 1960	190			13	0	0				L	8	A		
ST. LOUIS, MIS		2990 1960	#			5	0	0		37		OL	8	AC		
ULLIN, MIS		3705 1960	10			1	0	0		38		L	6	A		
			10			1	0	0		38		L	5	A		
BENTON N, FRANKLIN, 5-6S, 2E																
		1941	830	23,1	3946,8	82	2	0	5			S		A	OEV	4750

(CONTINUED ON NEXT PAGE)

TABLE 8 continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART 11)	PAY ZONE	YEAR OPE- TM (FT)	AREA PRU- VED IN ACRES	PRODUCTION M RBLB		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE	DEEPEST TEST	
				OUR- ING 1979	TO END OF 1979	COMP- LETED TO 1979	CO- MPL 1979	AB- AND- 1979	PROO- UCING END OF YEAR	GR, API	BUL- FUX PERC- ENT			KIND OF ROCK
(CONTINUED FROM PREVIOUS PAGE)														
BENTON N, FRANKLIN, 5-6S, 2E														
CYPRESS, MIS		2460 1944	100			14	0	0		38	S	17	A	
PAINT CREEK, MIS		2501 1962	400			15	1	0		38	S		A	
BETHEL, MIS		2600 1942	#			21	0	0		38	0,15	8	20	AL
AUX VASES, MIS		2685	200			16	1	0		39	0,15	3	10	A
OHARA, MIS		2730	470			13	0	0		38	0,70	L	8	A
SPAR MTN, MIS		2775 1941	#			8	0	0		36	0,15	S	6	A
MCCLOSKEY, MIS		2800	#			20	1	0		34		L	10	A
ST LOUIS, MIS		3062 1979	10			1	1	0				L	10	
BERRY, SANGAMON, 15N, 3W														
DEVONTAN		1743 1962	450	12,7	590,3	44	0	2	20					SIL 1964
SILURIAN		1736 1961	80			2	0	0		38	S	8		
			590			42	0	2		38	L	35		
BERRYVILLE C, WABASH, EDWARDS, MICHLAND, 1-2N, 14W														
		1943	550	4,7	1633,9	31	0	0	6				M	MIS 3688
OHARA, MIS		2900 1943	940			6	0	0		39	L	6	MC	
SPAR MTN, MIS		2850 1943	#			13	0	0			L	12	MC	
MCCLOSKEY, MIS		2890 1947	#			12	0	0		36	L	10	MC	
SALEM, MIS		3370 1975	10			1	0	0			L	10		
ULLIN, MIS		3605 1975	10			1	0	0			L	10		
BESSIE, FRANKLIN, 6S, 3E														
OHARA, MIS		2895 1943	20	7,9	154,9	2	1	0	2	39	0,15	L	10	MC MIS 3900
ULLIN, MIS		3625 1979	10			1	0	0			L	6		
			10			1	1	0						
BLACK BRANCH, SANGAMON, 15N, 4W														
SILURIAN		1600 1967	350	5,5	597,1	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	1,1	494,3	42	1	0	4	39		L	12	MU ORO 3780
BLACKLAND N, MACON, 16N, 1E														
SILURIAN		1948 1960	260	1,3	248,5	22	0	0	4	39		L	11	M SIL 2164
BLACK RIVER, WHITE, 4S, 13W														
GLORE, MIS		1865 1952	80	9,2	53,4	8	3	0	7	36		S	6	MIS 3071
			ABU 1974, REV 1978											
BLAIRSVILLE W, HAMILTON, 4S, 7E														
AUX VASES, MIS		3250 1948	180	0,0	408,3	10	0	0	1				A	MIS 3507
SPAR MTN, MIS		3345	30			3	0	0						
MCCLOSKEY, MIS		3405 1951	160			1	0	0			L	6	AC	
			#			10	0	0	37		L	8	AC	
BLUFORD, JEFFERSON, 2S, 4E														
MCCLOSKEY, MIS		3060 1961	30	1,3	158,6	2	0	0	1	38		OL	6	MIS 3633
BOGOTA, JASPER, 6N, 9E														
SPAR MTN, MIS		3090 1943	190	1,2	536,0	10	0	0	1				A	MIS 3234
MCCLOSKEY, MIS		3110 1943	190			1	0	0			L	4	AC	
			#			9	0	0	39		L	7	A	
BOGOTA N, JASPER, 6N, 9E														
MCCLOSKEY, MIS		3080 1949	20	0,0	0,0	2	0	0	1	37		L	3	MIS 3647
			ABO 1950, REV 1973											
BOGOTA S, JASPER, 5-6N, 9E														
MCCLOSKEY, MIS		3075 1944	300	1,3	546,1	23	0	0	3	37		L	8	MC MIS 3712

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR OF DIS- COVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL		PAY ZONE			DEEPEST TEST	
				OUR- ING 1979	TO END OF 1979	COMP- LEVED TO 1979	CO- ETED AND 1979	AB- ONEO 1979	PROO- UCING END OF YEAR	SUL- FUR ENT	PERG- ENT	KIND OF ROCK	THI- CK- NESS	STR- UCT- URE	ZONE
BODOTA W, JASPER, 6N, 9E															
MCCLOSKEY, MIS		3080 1966	10	0.0	0.0	1	0	0	0	37	0	6	MIS	3655	
ABO 1967															
BONE GAP C, EDWARDS, 1S, 10-11E, 14W															
PENNSYLVANIAN		2110 1952	1270	34.4	2646.5	73	3	1	27				A	MIS	4240
WALTERSBURG, MIS		2310 1951	10			1	0	0		32	3	8	AL		
CYPRESS, MIS		2710 1947	170			17	0	0		35	8	20	A		
BETHEL, MIS		2880 1952	100			7	0	0		37	3	10	A		
AUX VASES, MIS		3020 1947	90			8	3	0		39	8	14	AL		
OHARA, MIS		3040 1948	10			1	0	0		36	8	9	AL		
SPAR MTN, MIS		3045 1947	950			10	0	0		35	L	5	AC		
MCCLOSKEY, MIS		3200 1941	#			7	0	1		34	L	5	AC		
			#			24	0	0		38	0.33	L	6	AC	
BONE GAP E, EDWARDS, 1S, 14W															
OHARA, MIS		2980 1951	190	13.0	96.6	15	1	1	11				M	MIS	4000
MCCLOSKEY, MIS		3050	70			6	1	0			L	10	MC		
SALEM, MIS		3555 1974	#			1	0	0		36	L	5	MC		
			120			9	0	1			L	4			
ABU 1956, REV 1974															
BONE GAP W, EDWARDS, 1S, 10E															
STE, GEN, MIS		3290 1954	100	0.0	31.8	5	0	0	3	36	L	5	MIS	3504	
ABU 1975, REV 1964															
BOULDER +, LLINTON, 2-3N, 2W															
BENOIST, MIS		1190 1942	580	0.0	1120.0	55	0	0	0				D	TRN	3813
GENEVA, DEV		2630 1941	500			33	0	0	37		8	20	D		
STLURIAN		2700 1963	470			22	0	0	28	0.33	0	7	M		
			40			1	0	0	40		L	4			
ABU 1965															
BOULDER E +, CLINTON, 3N, 1W															
UFVONTAN		2850 1955	50	4.4	233.1	5	0	0	3	39	L	5	DEV	2946	
BOURBON C, DOUGLAS, 15N, 7E															
SPAR MTN, MIS		1600 1956	1050	4.9	1811.4	93	0	0	26	34	L8	12	NC	2709	
MCCLOSKEY, MIS		1715 1976	1050			92	0	0			L	5			
			#			1	0	0							
BOURBON S, DOUGLAS, 15N, 7E															
SPAR MTN, MIS		1693 1960	50	0.7	8.1	3	0	0	2	34	8	12	NC	MIS	1780
ABU 1964, REV 1976															
BOWYER, HICKLAND, 5N, 14W															
SPAR MTN, MIS		2883 1958	20	0.0	11.7	2	0	0	0					MIS	2950
MCCLOSKEY, MIS		2876 1971	10			1	0	0	36		8	X			
			10			1	0	0			L	5			
			160			9	0	2							
ABU 1967, REV 1971, ABU 1972															
BOYU, JEFFERSON, 1S, 1-2E															
BENOIST, MIS		2060 1944	1490	17.2	14916.0	127	0	0	39				A	TRN	5400
AUX VASES, MIS		2130 1944	1450			114	0	0	35	0.14	3	19	A		
OHARA, MIS		2230 1945	660			48	0	0	37		3	15	A		
TRENTON, ORU		5000 1967	30			24	0	0	39		L	2	AC		
			80			5	0	0				X			
BROUGHTON, HAMILTON, 6S, 7E															
MCCLOSKEY, MIS		3275 1951	290	61.1	170.0	14	3	2	15					MIS	4446
SALEM, MIS		4024 1978	110			7	3	0	37		L	5			
ULLIN, MIS		4190 1977	20			3	0	0			L	39			
			160			9	0	2			L	10			
ABO 1954, REV 1977															
BROUGHTON S, SALINE, 7S, 7E															
TAR SPRINGS, MIS		2315 1974	20	0.0	0.1	2	0	0	0					MIS	3300
MCCLOSKEY, MIS		3215 1951	10			1	0	0			3	7			
			10			1	0	0	38		L	4			
ABU 1952, REV 1974, ABU 1976															
BROWN, HAMILTON, 1N, 1E															
CYPRESS, MIS		1670 1910	120	1.6	158.0	12	0	0	10	36	8	X	N	MIS	2036

TABLE 8 -continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR DEP- TH (FT)	AREA PRO- VED IN ACRES	PRODUCTION M RBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE			DEEPEST TEST TH (FT)
				1979	TO END OF 1979	COMP- LETED 1979	CO- TO 1979	MPL- AND 1979	AB- AND 1979	PROO- UCING END OF YEAR	SUL- FUM PERC- ENT	KIND OF ROCK	THI- CK- NESS	STR- UCT- URE		
BROWNS, EDWARDS, WABASH, 1-2S, 14W																
		1943	1060	23.6	2815.3	69	0	0	32				A	OEV	9200	
BIEML, PEN		1870 1962	10			1	0	0	32	S	8	8	A			
TAR SPRINGS, MIS		2365 1947	40			1	0	0	36	S	14	AL				
CYPRESS, MIS		2640 1943	380			26	0	0	36	0.18	S	13	A			
BETHEL, MIS		2785 1944	80			5	0	0	39	S	12	AL				
AUX VASES, MIS		2965	10			1	0	0	36	S	7	AL				
OHARA, MIS		2965 1946	770			13	0	0	34	L	4	AC				
SPAR MTN, MIS		2975 1947	#			1	0	0		L	3	AC				
MCCLOSKEY, MIS		3000 1944	#			35	0	0	38	L	6	A				
BROWNS E, WABASH, 1-2S, 14W																
		1946	900	13.1	2965.1	76	0	2	17					MIS	3729	
PENNSYLVANIAN		1844 1963	10			1	0	0	32	S	x					
CYPRESS, MIS		2570 1946	790			72	0	2	36	S	13	HL				
SPAR MTN, MIS		2950 1977	70			3	0	0		S	5					
SALEM, MIS		3420 1976	30			4	0	0		L	20					
BROWNS S, EDWARDS, 2S, 14W																
		1943	120	6.7	131.8	11	0	0	8				N	MIS	3670	
WALTERSBURG, MIS		2330 1976	10			1	0	0		S	10					
BETHEL, MIS		2850 1943	60			5	0	0	38	S	15	NL				
AUX VASES, MIS		2950 1947	40			5	0	0	36	S	8	NL				
OHARA, MIS		3020 1976	20			2	0	0		L	6					
ADD 1968, REV 1970																
BRUBAKER, MARION, 3N, 3E																
		1973	170	40.1	345.8	11	0	0	9					SIL	5200	
SPAR MTN, MIS		2341 1975	50			2	0	0		S	20					
MCCLOSKEY, MIS		2395 1975	#			1	0	0		OL	5					
ST LOUIS, MIS		2550 1976	40			3	0	0		L	46					
SALEM, MIS		2765 1974	10			1	0	0		O	7					
DEVONIAN		3820 1973	70			4	0	0	34	L	1					
BUCKHOHN, BRUNN, 1-2S, 4W																
		1961	50	0.0	0.0	5	0	0	4	37	0	3		SIL	705	
ADD 1964, REV 1973																
BUCKNER, FRANKLIN, 6S, 2E																
		1963	90	8.5	87.8	7	1	0	5	38	S	12		MIS	3060	
AUX VASES, MIS		2601														
BULPITT S, CHRISTIAN, 13N, 3W																
		1962	60	0.0	3.4	4	0	0	0	38	L	15		OV3	1990	
DEV-SIL		1911														
ADD 1969																
BUNGAY C, HAMILTON, 4S, 7E																
		1941	3300	44.3	14370.0	256	1	0	73				A	OEV	5566	
RENAULT, MIS		3270	550			22	0	0	39	S	10	AL				
AUX VASES, MIS		3295 1941	2770			196	1	0	39	0.24	S	15	AL			
OHARA, MIS		3335	370			5	1	0		L	8	AC				
SPAR MTN, MIS		3400 1943	#			3	0	0		L	8	AC				
MCCLOSKEY, MIS		3425 1943	#			18	0	0	36	0.24	L	8	AC			
ULLIN, MIS		4190 1959	10			1	0	0	38	L	10	AC				
BURNT PRAIRIE S, WHITE, 4S, 9E																
		1947	40	0.3	31.2	5	1	0	2					MIS	3600	
AUX VASES, MIS		3330	10			1	0	0	37	S	24					
OHARA, MIS		3415 1947	40			1	0	0	38	L	6					
MCCLOSKEY, MIS		3460	#			3	1	0		L	4					
BURNT PRAIRIE SW, WHITE, 4S, 9E																
		1979	270	126.6	126.6	21	21	0	21					MIS	3596	
AUX VASES, MIS		3336 1979	60			9	9	0		S	6					
OHARA, MIS		3436 1979	210			3	3	0		L	8					
SPAR MTN, MIS		3451 1979	#			2	2	0		S	4					
MCCLOSKEY, MIS		3513 1979	#			12	12	0		L	6					
CALHOUN CEN, RICHLAND, 2N, 10E																
		1950	30	0.0	0.5	3	0	0	0				M	MIS	3533	
SPAR MTN, MIS		3245	30			2	0	0		L	6	MC				
MCCLOSKEY, MIS		3280 1950	#			1	0	0	37	L	3	MC				
ADD 1952, REV AND ADD 1959																

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR DEP- OF TH UISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL			DEEPEST TEST		
				1979	1979	COMP- LETED TO END OF 1979	CO- MPL- AB- ETED AND- ONED 1979	PROD- UCING YEAR API	PERC- ENT	PAY ZONE	THI- STR- UCT- ZONE	DEP- TH (FT)				
*CALMOUN C, RICHLAND, WAYNE, 2=3N, 9=10E																
		1944	1980	17,8	4155,2	110	0	0	14							
OHARA, MIS		3140 1944	1970			22	0	0		39	OL	9	A	81L	5645	
SPAR MTN, MIS		3160	#			25	0	0		37	OL	6	A			
MCCLOSKEY, MIS		3180 1944	#			64	0	0		39	0,15	OL	10	A		
ST LOUIS, MIS		3370 1967	10			1	0	0		39	L	9				
SALEM, MIS		3730 1967	20			2	0	0		39	L	8				
*CALMOUN E, RICHLAND, 2N, 10=11E																
MCCLOSKEY, MIS		3265 1950	150 ABU 1977	0,0	330,6	9	0	0	0	39	L	5	MC	MIS	3380	
CALMOUN N, RICHLAND, 3N, 10E																
		1944	60	1,8	84,8	4	0	0	1					A	MIS	3280
SPAR MTN, MIS		3155 1944	60			1	0	0			LS	10	A			
MCCLOSKEY, MIS		3170 1944	#			4	0	0		36	OL	11	A			
*CALMOUN S, WAYNE, RICHLAND, EDWARDS, 1=2N, 9E																
		1953	570	14,0	720,4	34	0	0	12						MIS	4152
AUX VASES, MIS		3175 1953	20			2	0	0		38	L	5				
OHARA, MIS		3232 1963	550			4	0	0			L	8				
SPAR MTN, MTS		3224 1962	#			17	0	0			L	5				
MCCLOSKEY, MIS		3209 1961	#			20	0	0		37	OL	6				
			ABU 1953, REV 1961													
CARLINVILLE +, MACDUPIN, 9N, 7W																
UNNAMED, PEN		380 1909	40 ABU 1925, REV 1942	0,0	X	8	0	0	2	28	S	X	A	MIS	1380	
CARLINVILLE N +, MACDUPIN, 10N, 7W																
POTTSVILLE, PEN		440 1941	100 ABU 1954	0,0	1,0	16	0	0	0	20	0,35	S	10	TRN	1970	
CARLINVILLE S, MACDUPIN, 9N, 7W																
PENNSYLVANIAN		539 1958	10 ABU 1964	0,0	0,0	1	0	0	0	26	S	X		PEN	1020	
*CARLYLE, CLINTON, 2N, 3W																
		1911	1310	22,7	4232,5	204	2	0	31					A	3TP	4120
GOLCONDA, MIS		900 1952	10			7	0	0		35	L	10	AC			
CARLYLE (CYP), MTS		1035 1911	1300			202	2	0		35	0,26	S	20	AL		
CARLYLE E, CLINTON, 2N, 2W																
BENOIST, MIS		1197 1963	30 ABU 1972, REV 1976	0,0	0,4	2	0	0	1	34	B	4		MIS	1245	
*CARLYLE N, CLINTON, 3N, 3W																
BENOIST, MIS		1150 1950	530	12,8	943,4	45	0	0	31	34	S	6	AL	DEV	2558	
CARLYLE S, CLINTON, 1N, 3W																
CYPRESS, MIS		1075 1951	20 ABU 1953	0,0	2,0	2	0	0	0	35	S	4		MIS	1194	
*CARM1, WHITE, 5S, 9E																
		1940	250	2,4	401,7	21	0	0	3					M	MIS	3546
PENNSYLVANIAN		1210	10			1	0	0		32	S	10	ML			
CYPRESS, MIS		2600	100			8	0	0		36	S	15	ML			
AUX VASES, MIS		3145	50			5	0	0		37	S	8	ML			
MCCLOSKEY, MIS		3150 1940	110			8	0	0		35	OL	6	MC			
			ABU 1949, REV 1952													
CARM1 N, WHITE, 5S, 9E																
		1942	80	2,2	298,3	6	0	0	3					A	MIS	3452
CYPRESS, MIS		2940	20			1	0	0		36	S	13	AP			
SAMPLE, MIS		3080 1954	10			1	0	0		37	S	12	AP			
AUX VASES, MIS		3270 1942	60			5	0	0		36	0,14	S	14	AP		
*CASEY, CLARK, 10=11N, 14W																
		1906	3040	X	X	515	3	0	227					AM	TRN	2608
UPPER GAS, PEN		265	2730			43	0	0		32	S	X	AM			
LOWER GAS, PEN		300	4			89	3	0		30	S	X	AM			
CASEY, PEN		445	#			373	0	0		35	S	10	AM			
CARPER, MIS		1300	250			20	0	0		38	S	50	AM			
			SEE CLARK COUNTY OIL FOR PRODUCTION													

TABLE 8--continued

WELL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA PRO-VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		DEEPEST TEST		
				OUR-ING 1979	TO ENO OF 1979	COMP-LETO ENO OF 1979	CO-MPL-IN 1979	AB-ANO 1979	PROD-UCING YEAR	SUL-PUM GR, API ENT	KIND OF ROCK	THI-CKN-ESS	STR-UCT-URE				
														DEP-TH (FT)		ZONE	DEP-TH (FT)
*CLAY CITY C, CLAY, WAYNE, RICHLAND, JASPER, 1-7N, 1-23, 6-11E (CONTINUED FROM PREVIOUS PAGE)																	
TAN SPRINGS, MIS		2560 1949	130			8	0	0		38	S	15	AL				
CYPRESS, MIS		2635 1937	8240			577	6	1		36	S	15	AL				
BETHEL, MIS		2800	260			23	3	0		39	S	15	AL				
AUX VASES, MIS		2940 1942	31270			2122	18	31		38	S	15	AL				
OHARA, MIS		3020	66230			250	2	5		38	OL	5	AC				
SPAR MTN, MIS		3030	#			652	10	7		38	L8	8	AC				
MCCLOSKEY, MIS		3050 1937	#			3129	52	20		39	OL	10	AC				
ST. LOUIS, MIS		3025 1949	2790			235	2	2		38	L	3	A				
SALEM, MIS		3590 1950	5870			349	35	11		39	L	10	A				
ULLIN, MIS		3600 1952	310			24	4	1		40	L	17	A				
CAMPER, MIS		3806 1979	10			1	1	0			S	6					
LINGLE, DEV		4350 1949	20			1	0	0		39	L	10	A				
CLEAR LAKE P, SANGAMON, 16N, 4W																	
SILURIAN		1996 1970	40	0.3	24.0	2	0	0		1	25	L	12	SIL	1653		
CLIFFORD, WILLIAMSON, 8S, 1E																	
AUX VASES, MIS		1957	40	0.0	15.0	2	0	0		0				MIS	2625		
SPAR MTN, MIS		2380 1957	40			2	0	0		38	S	7					
MCCLOSKEY, MIS		2470 1957	20			1	0	0			L8	7					
		2540 1957	#			1	0	0		38	L	5					
AND 1965																	
*COIL, WAYNE, 1S, 5E																	
AUX VASES, MIS		1942	480	66.2	3104.5	35	0	0		23				A	MIS	3650	
MCCLOSKEY, MIS		2910 1942	310			22	0	0		39	D,12	S	10	A			
ST LOUIS, MIS		3065 1942	10			1	0	0		38	OL	15	AC				
SALEM, MIS		3021 1967	100			6	0	0			L	9					
		3510 1977	90			8	0	0			L	14					
COIL N, WAYNE, 1N-1S, 5E																	
AUX VASES, MIS		2841 1958	100	9.6	242.4	9	0	0		6	39	S	7	MIS	3680		
*COIL W, JEFFERSON, 1S, 4E																	
AUX VASES, MIS		1942	550	25.7	1201.8	49	0	0		19				A	MIS	3666	
OHARA, MIS		2720 1944	180			15	0	0		39	S	15	AL				
SPAR MTN, MIS		2790 1942	220			11	0	0			L	7	AC				
MCCLOSKEY, MIS		2605	#			2	0	0			L	X	AC				
ST LOUIS, MIS		2880 1942	#			13	0	0		38	L	8	AC				
SALEM, MIS		3040 1967	160			15	0	0		39	L	7					
		3546 1961	160			12	0	0		37	L	10	A				
COLLINSVILLE, MAUISON, 3N, 8W																	
SILURIAN		1305 1909	40	0.0	1.0	6	0	0		0	37	L	20	ML	STP	2177	
*COLMAR=PLYMOUTH, MANCUCK=MCDONOUGH, 4-5N, 4-5W																	
MOINE, DEV		450 1914	2520	25.2	5023.8	505	0	0		67	35	0,38	S	14	AL	8MK	1095
*CONCORD C, WHITE, 6S, 10E																	
TAN SPRINGS, MIS		1942	2010	126.3	8420.8	190	9	0		70				A	DEV	5313	
HARDINSBURG, MIS		2270 1943	350			26	0	0		36	S	11	AL				
CYPRESS, MIS		2510 1954	350			30	0	0		36	S	7	A				
AUX VASES, MIS		2625 1944	270			19	0	0		37	S	10	AL				
OHARA, MIS		2905 1942	670			40	0	0		36	0,15	S	14	AL			
SPAR MTN, MIS		2930 1943	1080			2	0	0			L	8	AC				
MCCLOSKEY, MIS		3035	#			3	0	0			L	8	AC				
ST LOUIS, MIS		2990	#			56	0	0		37	L	10	AC				
ULLIN, MIS		3370 1976	220			16	7	0			L	7					
		3900 1975	280			14	5	0			L						
CONCORD E C, WHITE, 6-7S, 10E																	
WALTERSBURG, MIS		1942	420	3.7	896.1	39	0	1		12				A	MIS	3125	
TAN SPRINGS, MIS		2140	40			4	0	0		33	S	10	A				
CYPRESS, MIS		2175	70			5	0	0		36	S	4	A				
WENAU, MIS		2540	190			18	0	0		38	S	6	A				
AUX VASES, MIS		2800	20			2	0	0		36	L	6	A				
OHARA, MIS		2825	70			7	0	1		36	S	12	A				
SPAR MTN, MIS		2895	120			3	0	1			L	6	AC				
MCCLOSKEY, MIS		2895	#			5	0	1			S	5	AC				
		2965	#			3	0	0		37	L	8	AC				

TABLE 8 continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR DEP- TM (FT)	AREA PRO- VED IN ACRES	PRODUCTION M BBL		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		DEEPEST TEST		
				UN- ING 1979	TO END OF 1979	COM- LETEO TO END OF 1979	CO- MPL- ETED IN 1979	AB- AND- ONEO 1979	PROO- UCING END OF YEAR	SUL- FUR PERC- ENT	KIND OF ROCK	TMI- E88	STR- UC7- UME	ZONE	DEP- TH (FT)		
*COOKS MILLS C +, COLES, DOUGLAS, 13-14N, 7-8E																	
		1941	3100	9.4	3082.3	248	0	0	53					A	DEV	3059	
CYPRESS, MIS		1600 1955	10			1	0	0		39	S		20	A			
AUX VASES, MIS		1765 1941	10			2	0	0		37	S		15	A			
SPAR MTN, MIS		1800 1946	3040			240	0	0		37	S		9	A			
MCCLOSKEY, MIS		1840 1955	#			1	0	0			L		4	A			
CARPER, MIS		2700 1963	20			1	0	0		38	S		5				
DEVONIAN		2867 1963	40			4	0	0		37	L		3				
*CORDES, WASHINGTON, 3S, 3W																	
BENDIST, MIS		1260 1939	1630	38.7	10288.7	155	0	0	36	36	0.19	S	14	A	TRN	3680	
*CORINTH, WILLIAMSON, 8S, 4E																	
		1957	310	12.6	525.4	20	0	0	18						MIS	3550	
AUX VASES, MIS		2885 1957	290			18	0	0		38	S		10				
UMARA, MIS		2929	50			2	0	0		38	L		X				
SPAR MTN, MIS		2985 1957	#			2	0	0		38	L		10				
*CORINTH E, WILLIAMSON, 8S, 4E																	
MCCLOSKEY, MIS		3035 1957	10 ARO 1960	0.0	10.6	1	0	0	0	38	L		10		MIS	3113	
*CORINTH N, WILLIAMSON, 8S, 4E																	
AUX VASES, MIS		2935 1957	10 ARO 1960	0.0	3.7	1	0	0	0	36	S		16		MIS	3180	
*CORINTH S, WILLIAMSON, 9S, 4E																	
CYPRESS, MIS		2350 1972	10 ARO 1975	0.9	6.0	1	0	0	0		S		4		MIS	2820	
*COTTAGE GROVE, SALINE, 9S, 7E																	
UMARA, MIS		2770 1955	10 ARO 1963	0.0	12.5	1	0	0	0	38	L		X		MIS	2977	
*COULTERVILLE N, WASHINGTON, 3S, 5W																	
SILURIAN		2290 1958	50	1.3	38.6	5	0	0	3	42		L			ORO	3204	
*COVINGTON S, WAYNE, 2S, 6E																	
		1943	530	4.6	487.9	19	0	0	3					AC	DEV	3300	
MCCLOSKEY, MIS		3310 1943	440			13	0	0		36	0.18	L		5	AC		
S7, LOUIS, MIS		3361 1962	10			1	0	0		36		L		4			
ULLIN, MIS		4148 1960	80			5	0	0		36		L		12	AC		
*CRAIG, PERKY, 4S, 4W																	
TRENTON, OHO		3650 1948	10 ARO 1951, REV 1965, ARO 1967	0.0	2.9	2	0	0	0	35		L		20	A	ORO	3750
*CRAVAT, JEFFERSON, 1S, 1E																	
BENDIST, MIS		2070 1939	120	0.9	384.5	11	0	0	6	34	0.23	S	10	A	DEV	3850	
*CRAVAT W, JEFFERSON, 1S, 1E																	
		1956	140	1.6	137.7	15	0	0	14						MIS	2390	
PENNSYLVANIAN		1045 1956	130	1.6	137.7	14	0	0		32		S		10			
BETMEL, MIS		2070 1960	10	0.0	0.0	1	0	0				S		10			
*CROSSVILLE, WHITE, 4S, 10E																	
		1946	110	0.0	16.0	11	0	0	0					M	MIS	3283	
BETMEL, MIS		2880 1948	40			3	0	0		38	S		9	HL			
AUX VASES, MIS		3030 1956	30			3	0	0		37	S		20	HL			
UMARA, MIS		3100	80			1	0	0			L		3	HC			
MCCLOSKEY, MIS		3120 1946	#			4	0	0		38	L		5	HC			
			ARO 1952, REV 1954, ARO 1958														
*CROSSVILLE W, WHITE, 4S, 10E																	
		1952	240	0.0	375.5	17	0	0	0					M	MIS	3500	
CYPRESS, MIS		2810 1973	10			1	0	0			S		18				
AUX VASES, MIS		3030 1952	130			9	0	0		37	S		8	HL			
UMARA, MIS		3110 1958	150			1	0	0		37	L		X	M			
SPAR MTN, MIS		3150 1958	#			3	0	0			L		X	M			
MCCLOSKEY, MIS		3185 1956	#			7	0	0		38	L		X	HC			
			ARO 1953, REV 1956, ARO 1975														

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL			PAY ZONE			DEEPEST TEST TH (FT)	
				OUR- ING TO 1979	TO END OF 1979	COMP- LETED TO 1979	CO- MPL- ETED IN 1979	AB- ANO- ONEO 1979	PROO- UCING END OF YEAR	GR, PERC- ENT	SUL- FUR ENT	KIND OF ROCK	IMI- ESTR- URE	BTR- UCT- URE	ZONE			
*DAHLGREN, HAMILTON, 33, SE																		
MCCLOSKY, MIS		1941	620	0.9	1215.9	45	0	0		2							OEV	5299
ULLIN, MIS		3300 1941	620			44	0	0			37	0.16	L	11	A			
		4110 1956	10			1	0	0			39		L	19	A			
*DAHLGREN W, JEFFERSON, 43, 4E																		
ULLIN, MIS		4019 1960	20	0.0	30.5	2	0	0		0	38		L	6		OEV	5245	
			490 1966															
*DALE C, FRANKLIN, HAMILTON, 8ALINE, 5-7S, 4-7E																		
TAR SPRINGS, MIS		1940	18490	253.2	99996.7	1623	2	12		195						PC	13051	
HARDINBURG, MIS		2430 1943	480			41	0	0			36		S	25	A			
CYPRESS, MIS		2480	120			12	0	0			38		S	10	A			
BETHEL, MIS		2700 1940	1570			126	0	1			39		S	15	A			
AUX VASES, MIS		2975	3460			285	0	2			38	0.19	S	18	A			
OHARA, MIS		3150 1945	18600			1310	1	11			37	0.15	S	20	A			
SPAR MTN, MIS		3110	3810			109	0	2			38	0.22	L	10	A			
MCCLOSKY, MIS		3130	#			14	0				38		L8	7	A			
ST. LOUIS, MIS		3150 1940	#			149	2	1			36	0.19	L	7	A			
ULLIN, MIS		3163 1965	60			7	1	0			39		L	X				
		4168 1978	40			4	2	0					L	10				
*DAWSON, SANGAMON, 16N, 3W																		
SILURIAN		1636 1971	10	0.0	0.0	1	0	0		0			L	10		SIL	1705	
			480 1972															
*DECATUR, MACON, 16-17N, 2E																		
SILURIAN		2000 1953	110	0.0	15.0	6	0	0		0	37		L	7	MU	ORO	2800	
			480 1959															
*DECATUR N, MACON, 17N, 3E																		
SILURIAN		2200 1954	10	0.0	0.1	1	0	0		0	38		L	10	MU	SIL	2240	
			480 1955															
*DEERING CITY, FRANKLIN, 7S, 3E																		
AUX VASES, MIS		1957	110	1.5	323.7	8	0	0		6						MIS	3146	
MCCLOSKY, MIS		2810 1957	80			6	0	0			38		S	20				
		2913 1963	30			2	0	0			34		OL	4				
*DEERING CITY E, FRANKLIN, 7S, 3E																		
MCCLOSKY, MIS		2965 1974	10	1.3	8.6	1	0	0		1			L	7		MIS	3117	
*DIVIDE C, JEFFERSON, 1S, 3-4E																		
AUX VASES, MIS		1943	4280	156.7	11378.5	290	24	6		142						OEV	4700	
OHARA, MIS		2820 1947	170			10	0	1			38		S	10	AL			
SPAR MTN, MIS		2700 1944	2590			8	0	0					L	10	AC			
MCCLOSKY, MIS		2700 1945	#			20	0	1			38		L8	6	A			
ST. LOUIS, MIS		2750 1943	#			158	1	3			37	0.21	L	6	AC			
SALEM, MIS		2840 1955	320			33	6	1			37		L	7	AC			
		3190 1960	1660			107	19	2			37		L	10	AC			
*DIVIDE S, JEFFERSON, 28, 3-4E																		
MCCLOSKY, MIS		2880 1948	300	0.0	497.2	16	0	0		1	37		L	5		MIS	3580	
*DIX S, JEFFERSON, 1S, 2E																		
BENOIST, MIS		1950 1941	20	0.0	13.4	2	0	0		0	35		S	8	N	MIS	2283	
			480 1946															
*DOLLVILLE, BHELBY, 12N, 2E																		
BETHEL, MIS		1509 1961	100	0.1	34.9	4	0	0		3	37		S	4		MIS	1600	
*DUBOIS CEN, WASHINGTON, 33, 1W																		
BENOIST, MIS		1954	130	6.3	253.1	12	0	0		8						OEV	3100	
SPAR MTN, MIS		1335 1955	110			12	0	0			30		S	12				
		1330 1954	70			3	0	0			35		L	8				
*DUBOIS C, WASHINGTON, 33, 1-2W																		
CYPRESS, MIS		1949	1550	48.8	2355.4	130	3	5		90						ORO	4217	
BENOIST, MIS		1230 1947	1130			89	1	0			37		S	10	AL			
		1325 1939	490			43	2	0			30	0.26	S	10	AL			

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF J18C- OVER7	AREA PRU- VEU IN	PRODUCTION M BBLs			NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST		
				OUR- ING	TO ENO OF	TO ENO OF	CO- LETEO	CO- MPL	AB- IN	AND- ONEO	PRUO- UCING ENO OF	SUL- PERC- UR	FUR- UP			KIND OF	THI- CKN-
*DUDLEY, EUGAR, 13-14N, 13W																	
UPPER DUDLEY, PEN		1948	800	79.0	2385.2	119	1	0	103					M	STP	2997	
LOWER DUDLEY, PEN		410	800	#		24	0	0	25				20	ML			
						95	1	0	24				8	50	ML		
DUDLEYVILLE E, 80N, 4-5N, 2-3W																	
DEVONIAN		2370	20	0.0	2.8	2	0	0	0	37			L	5	ORD	3397	
			ABU	1961													
DUPD, ST, CLAIN, 1N, 18, 10W																	
TRENTON, ORD		700	900	17.0	3001.1	323	2	0	28	33	0.70		L	50	A	CAM	3111
EUBERLE, EFFINGHAM, 6N, 6E																	
CYPRESS, MIS		1947	190	3.5	139.1	14	0	0	5					N	MIS	2882	
SPAR MTN, MIS		2475	100			4	0	0	37				8	10	NL		
MCCLUSKY, MIS		2680	110			2	0	0					LS	5	NC		
		2820	#			4	0	0	38				L	7	N		
			ABU	1967, REV 1973													
EOINBURG, CHRISTIAN, 14N, 3W																	
LINGLE, DEV		1810	10	0.0	2.3	1	0	0	0	38			L	2	A	DEV	1853
			ABU	1951													
EOINBURG S, CHRISTIAN, 14N, 3W																	
MISBARU, DEV		1795	20	0.0	4.4	2	0	0	0	39			LS	13	SIL	1902	
			ABU	1963													
*EOINBURG W, CHRISTIAN, SANGAMON, 14N, 3-4W																	
DEVONIAN		1954	1760	27.8	3028.0	128	0	0	66					A	ORD	2285	
SILURIAN		1660	60			7	0	0	41				S	6	A		
		1690	1730			123	0	0	41				L	8	A		
ELBA, GALLATIN, 8S, 8E																	
CYPRESS, MIS		1955	210	0.0	25.0	13	0	0	0						MIS	2991	
BETHEL, MIS		2617	10			1	0	0	37				S				
RENAULT, MIS		2660	80			3	0	0	36				S	10			
AUX VASES, MIS		2770	10			1	0	0	36				L	3			
UMARA, MIS		2780	120			5	0	0	38				S	5			
		2820	40			3	0	0	38				L	11			
			ABU	1960													
*ELBRIDGE, EUGAR, 12-13N, 11W																	
PENNSYLVANIAN		1949	440	4.2	1522.1	40	0	0	19					U	TRN	3300	
FREDONIA, MIS		760	10			2	0	0	30				S	3	U		
DEVONIAN		950	430			37	0	0	35				L	3	U		
		1950	20			2	0	0	37				L	20	U		
*ELORAADO C +, SALINE, 8S, 6-7E																	
OGONIA, MIS		1941	3560	85.0	11995.4	298	1	7	88					A	MIS	3606	
PALESTINE, MIS		1700	20			2	0	0					S	16			
WALTERSBURG, MIS		1920	430			28	0	2	36				S	20	AL		
TAR SPRINGS, MIS		2125	1930			145	1	4	38				S	25	AL		
HARDINSBURG, MIS		2200	270			19	0	0	37				S	15	AL		
CYPRESS, MIS		2350	300			30	0	1	38				S	8	AL		
SAMPLE, MIS		2575	270			19	0	0	37				S	8	AL		
BENOIST, MIS		2680	70			6	0	0	37				S	18	AL		
AUX VASES, MIS		2778	#			1	0	0					S	10			
UMARA, MIS		2900	90			66	0	0	37				S	12	AL		
SPAR MTN, MIS		2900	#			3	0	0					L	5	AC		
MCCLUSKY, MIS		2975	#			2	0	0	39	0.14			LS	4	AC		
						2	0	0					L	5	AC		
*ELORAADO E +, SALINE, 8S, 7E																	
PALESTINE, MIS		1953	440	2.1	430.2	31	0	1	6					A	MIS	3666	
TAR SPRINGS, MIS		1915	30			2	0	0	36				S	10	AL		
CYPRESS, MIS		2190	40			3	0	0	35				S	10	AL		
AUX VASES, MIS		2515	90			6	0	0	37				S	20	AL		
SPAR MTN, MIS		2885	340			20	0	1	38				S	6	AL		
		2975	10			1	0	0	38				L	4	AC		
ELORAADO W +, SALINE, 8S, 6E																	
PALESTINE, MIS		1955	50	0.0	46.0	6	0	0	1						MIS	3138	
RENAULT, MIS		1940	40			3	0	0	30				S	18			
		2910	20			2	0	0	37				L	6			

(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 BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE		DEEPEST TEST		
				DEP- OF TM	OF UI SC-	PRO- VEU	OUR- ING	TO ENO OF	COMP- LETED	CO- MPL	AB- AND	PROD- UCING	SUL- FUR	KIND OF	THI- OF	STR- UCT-
	NAME AND AGE	(FT)	IN ACRES	1979	1979	1979	1979	1979	1979	YEAR	API	PERC- ENT	ROCK	ESS	URE	(FT)
(CONTINUED FROM PREVIOUS PAGE)																
ELDORADO W +, SALINE, 8S, 6E	AUX VASES, MIS	2960	1955	20		2	0	0			36		L	6		
ELK PRAIRIE, JEFFERSON, 4S, 2E	MCCLOSKEY, MIS	2735	1938	20	0,0	41,1	2	0	0	0						MIS 3470
	SALEM, MIS	3076	1960	20			2	0	0		37		L	7		
				10			1	0	0		37		L	8		
				ARD 1940, REV 1960, ABD 1970												
ELKTUN, WASHINGTON, 2S, 4W	BAILEY, UEV	2340	1955	40	0,0	2,6	2	0	0	0	40		L	30		OEV 2685
				ABU 1960												
ELKTUN N, WASHINGTON, 2S, 4W	HARDIN, UEV	2320	1971	160	3,0	74,1	9	0	0	9			S	7		ORO 3275
ELKVILLE, JACKSON, 7S, 1W	BENOIST, MIS	2000	1941	10	0,0	4,0	1	0	0	1	36	0,22	S	10		SIL 3914
ELLERY E, EDWARDS, 2S, 10E	AUX VASES, MIS	3180	1953	430	16,6	1011,8	35	4	0	8			S	35	M	MIS 4227
	OHARA, MIS	3255	1952	240			23	4	0		36		L	6	HL	
	SPAR MTN, MIS	3255		260			11	0	0		37		L	4	MC	
	MCCLOSKEY, MIS	3260	1978	#			3	0	0				L	4	MC	
	ULLIN, MIS	4218	1979	#			1	0	0				L	6		
				10			1	1	0				L	9		
ELLERY N, EDWARDS, WAYNE, 2S, 9-10E	BETMEL, MIS	3100	1954	120	4,2	76,3	10	0	0	4			S	35	M	OEV 5425
	AUX VASES, MIS	3230	1954	20			2	0	0				S	12	HL	
	OHARA, MIS	3300	1972	90			2	0	0				L	4		
	SPAR MTN, MIS	3345		#			4	0	0				S	8	HL	
	MCCLOSKEY, MIS	3420	1942	#			2	0	0		37	0,19	L	7	MC	
	ST LOUIS, MIS	3436		10			1	0	0				L	6		
				ARD 1943, REV AND ABD 1951, REV 1954												
ELLERY S, EDWARDS, 2-3S, 10E	AUX VASES, MIS	3200	1947	110	3,4	176,4	11	1	0	2			S	15	M	MIS 4253
	MCCLOSKEY, MIS	3300	1943	30			5	0	0		36		L	9	HL	
	ULLIN, MIS	4196	1978	70			5	1	0		36		L	10	MC	
				10			1	0	0				L	10		
				ARD 1952, REV 53, ABD 59, REV 8 ABD 60, REV 78												
ELLIDTSTOWN, EFFINGHAM, 7N, 7E	SPAR MTN, MIS	2730	1947	10	0,0	13,7	1	0	0	0	39		S	8	HL	MIS 2884
				ABO 1951												
ELLIDTSTOWN E, EFFINGHAM, 7N, 7E	CYPRESS, MIS	2485	1954	90	3,2	130,4	7	0	0	1			S	5	HL	MIS 3292
	SPAR MTN, MIS	2750	1962	10			1	0	0		35		L	10		
	MCCLOSKEY, MIS	2771	1962	80			3	0	0		37		L	8		
				#			3	0	0		37		L	8		
				ABD 1956, REV 1962												
ELLIDTSTOWN N, EFFINGHAM, 7N, 7E	CYPRESS, MIS	2430	1953	310	0,3	270,0	19	0	1	4			S	4	HL	MIS 3350
	AUX VASES, MIS	2710	1966	20			2	0	0		36		S	2		
	SPAR MTN, MIS	2666	1964	10			1	0	0		37		S	2		
	MCCLOSKEY, MIS	2738	1964	270			2	0	0		37		L	3		
				#			14	0	1		37		OL	17		
				ARD 1958, REV 1964												
ENERGY, WILLIAMSON, 9S, 2E	AUX VASES, MIS	2354	1968	110	7,8	186,9	9	0	0	9			S	16		MIS 2694
ENFIELD, WHITE, 5S, 8E	AUX VASES, MIS	3250	1950	510	36,5	1225,0	39	0	1	12			S	10	A	MIS 4620
	OHARA, MIS	3310		320			21	0	0		39		L	4	AL	
	MCCLOSKEY, MIS	3385	1950	170			4	0	0		37		L	8	AC	
	ULLIN, MIS	4320	1977	#			5	0	0		37		L	8	AC	
				20			2	0	1				L	19		
				ABO 1951, REV 1952												

TABLE 8—continued

WELL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (+ SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF (FT) OVERY	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL			DEEPEST TEST DEP- TH (FT)			
			AREA PRO- VED IN ACRES	DUM- ING 1979	TO END OF 1979	COMP- LETE TO END OF 1979	CO- MPL- ETED IN 1979	AS- ANO- ONE 1979	PROD- UCING END OF YEAR	SUL- FUR PERC- ENT	PAY ZONE				
											KIND OF ROCK		THI- CK- ESS	STR- UCT- URE	
ENFIELD N, WHITE, 58, 8E															
		1976	260	62.5	275.3	20	1	0	12			MIS	4500		
AUX VASEB, MIS		3320 1976	230			16	1	0			8	12			
UMARA, MIS		3400 1976	20			3	0	0			L	6			
ULLIN, MIS		4385 1977	10			1	0	0							
ENFIELD S, WHITE, 63, 8E															
		1961	30	0.0	0.0	2	0	0	0			MIS	3314		
AUX VASEB, MIS		3174 1961	10			1	0	0	39		S	2			
MCCLOSKEY, MIS		3277 1961	30			2	0	0	38		L	6			
ABD 1963															
EVER8, EFFINGHAM, 8N, 7E															
		1948	80	1.0	128.5	6	0	0	2			A	ORO	5370	
SPAR MTN, MIS		2610	70			3	0	0	39		L	7	AL		
MCCLOSKEY, MIS		2660 1948	#			2	0	0			L	4	AC		
SALEM, MIS		3126 1975	10			1	0	0			L	4			
ABD 1949, REV 1953															
EVERS 8, EFFINGHAM, 7N, 7E															
		1948	10	0.0	2.4	1	0	0	0	38	L8	8	AC	MIS	2783
SPAR MTN, MIS		2650 1948													
ABD 1951															
EWING, FRANKLIN, 5S, 3E															
		1944	200	3.2	533.7	10	0	0	2			A	MIS	3951	
AUX VASEB, MIS		2835 1947	40			3	0	0	38		8	8	AL		
MCCLOSKEY, MIS		2970 1944	160			7	0	0	36		L	7	A		
ABD 1971, REV 1976															
EWING E, FRANKLIN, 5S, 3E															
		1956	200	25.2	125.0	15	0	0	13				ORO	9511	
OHARA, MIS		3010 1956	10			1	0	0	38		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		3880 1976	170			12	0	0			L	6			
REV 1976															
EXCHANGE, MARION, 1N, 3E															
		1943	40	1.1	71.2	4	0	0	2			M	SIL	4908	
OHARA, MIS		2695	30			1	0	0	37		L	10	MC		
MCCLOSKEY, 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	20			2	0	0			L	15			
ABD 1967, REV 1975															
*EXCHANGE E, MARION, 1N, 4E															
		1955	230	2.3	542.7	16	0	0	1				MIS	3531	
OHARA, MIS		2775 1955	220			1	0	0			L	14			
SPAR MTN, MIS		2780	#			7	0	0	37		L	11			
MCCLOSKEY, 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	9.9	817.0	24	0	0	15			MC	MIS	3390	
SPAR MTN, MIS		2682 1967	200			1	0	0			L	3			
MCCLOSKEY, 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		
ABD 1952, REV 1955, ABD 1959, REV 1963															
*EXCHANGE W, MARION, 1N, 3E															
		1957	310	8.2	270.6	25	0	0	7				MIS	3008	
OHARA, MIS		2540 1957	230			1	0	0			L	7			
SPAR MTN, MIS		2570 1966	#			10	0	0			S	6			
MCCLOSKEY, MIS		2650 1957	#			11	0	0	37		L	6			
ST LOUIS, MIS		2720 1967	130			8	0	0	38		L	11			
*FAIKMAN, MARION, CLINTON, 3N, 1E, 1W															
		1939	610	10.7	2121.2	61	0	0	18			A	ORO	4100	
BENOIST, MIS		1435 1939	480			44	0	0	38	0.27	8	10	A		
TRENTON, ORD		3950 1957	280			18	0	0	40		L	20	A		
FANCHER, SHELBY, 10N, 4E															
		1962	10	0.0	0.0	1	0	0	0	34	S	3	MIS	1889	
BENOIST, MIS		1749 1962													
ABD 1962															

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (• SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR	PRODUCTION M BBLs			NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST		
			AREA PRO- VED IN ACRES	OUR- ING TO 1979	TO END OF 1979	COMP- LTD TO 1979	CO- MPL- IN 1979	AB- AND 1979	PROO- UCING END OF YEAR	GR, PERC- ENT	SUL- FOR ROCK	KIND OF LSS			MI- I- URE	STR- UCT- URE
FENNER LAKE, GALLATIN, 9S, 10E																
AUX VASES, MIS		2672	1963	10	0.0	4.7	1	0	0	0	36	L	8	MIS	2662	
FENRIN, CLINTON, 2N, 1W																
DEVONIAN		2840	1976	10	0.0	0.0	1	0	0	1				ORO	3956	
TRENTON, ORD		3930	1976	10			1	0	0			L	7			
				10			1	0	0			L	18			
FICKLIN, DOUGLAS, 16N, 8E																
SPAR MIN, MIS		1470	1969	70	2.4	32.5	5	0	0	5		8	8	CAM	5301	
FITZGERRELL, JEFFERSON, 4S, 1E																
BENOISI, MIS		2760	1944	10	0.0	16.0	1	0	0	0				MIS	3012	
AUX VASES, MIS		2800		10			1	0	0	37		8	5			
				10			1	0	0	37		3				
*FLOKA S, CLAY, 2N, 6E																
MCCLOSKEY, MIS		2985	1946	60	0.0	168.0	4	0	0	0	39	L		AC	DEV	4770
FLORA SE, CLAY, 2N, 6E																
MCCLOSKEY, MIS		3073	1972	100	7.7	49.6	8	0	0	7		L	5	MIS	3700	
FORSYTH, MACON, 17N, 2E																
SILURIAN		2118	1963	350	31.1	82.8	23	10	0	18	38	L	14	SIL	2220	
FRANCIS MILLS, SALINE, 7S, 7E																
CYPRESS, MIS		2675	1952	10	0.1	97.3	1	0	0	1	36	S	5	MIS	3238	
FRANCIS MILLS S, SALINE, 7S 7E																
OHARA, MIS		3010	1955	20	0.0	5.6	2	0	0	0				MIS	3180	
SPAR MIN, MIS		3042	1962	20			2	0	0			L	11			
				#			1	0	0	37		L	6			
ABU 1957, REV AND ABU 1962																
FREEBURG +, ST. CLAIR, 1-2S, 7W (NOW FREEBURG GAS STORAGE PROJECT)																
CYPRESS, MIS		380	1955	20	0.0		2	0	0	0	30	S	30	ORD	2008	
FREEMANSPUR, WILLIAMSON, 8S, 2E																
AUX VASES, MIS		2500	1968	60	0.0	4.0	3	0	1	0		S	13	MIS	2779	
ABU 1971, REV 1975, ABU 1979																
FRIENDSVILLE CEN, WABASH, 1N, 13W																
BETHEL, MIS		2330	1946	180	3.7	146.3	13	1	0	4				MIS	2797	
OHARA, MIS		2597	1972	50			5	0	0	35		S	15	MC		
SPAR MTN, MIS		2629	1972	130			5	1	0			L	8			
				#			3	0	0			S	4			
ABU 1956, REV 1972																
*FRIENDSVILLE N, WABASH, 1N, 12-13W																
BIEM, PEN		1620	1946	220	1.3	277.0	20	0	0	2				MC	MIS	2676
BETHEL, MIS		2308	1959	220			19	0	0	34		8	12	MC		
				10			1	0	0	35		S	11	M		
FROGTOWN, CLINTON, 2N, 3-4W																
CARLYLE(CYP), MIS		950	1918	90	0.0		14	0	0	0	32	S		ML	TRN	3290
ABU 1933, REV 1949, ABU 1956																
*FROGTOWN N, CLINTON, 2-3N, 3-4W																
ST. LOUIS, MIS		1200	1951	440	8.9	2125.5	37	0	1	22				U	SIL	2456
DEV-SIL		2250	1951	60			5	0	0	35		L	10	U		
				410			32	0	1	35		L	8	K		
*GARUS POINT C, WABASH, 1N, 14W																
OHARA, MIS		2870	1951	690	16.3	1061.2	40	1	3	23				MIS	4205	
MCCLOSKEY, MIS		2905	1976	680			38	1	3	40		L	6	MC		
				#			1	0	0			OL	4			

(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 OPE- TH (FT)	AREA PRU- VEU IN ACRES	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST				
				1979	1979	1979	COMP- LETO 1979	CO- MPL- 1979	AB- AND- 1979	PROD- UCING YEAR	SUL- FUR PERC- ENT	KIND OF ROCK			THI- STR- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)
				1979	1979	1979	1979	1979	1979	1979	1979	1979			1979	1979	1979	1979
(CONTINUED FROM PREVIOUS PAGE)																		
*GARUS POINT C, WABASH, IN, 14W	ULLIN, MIS	3698	1975	10			1	0	0				L	8				
GAYS, MOULTRIE, 12N, 6E	AUX VASES, MIS	1970	1946	90	2.0	106.9	6	0	0	1	36	8	5	M	DEV 3305			
	CANPER, MIS	2963	1963	10			1	0	0		37	S	16					
	DEVONIAN	3205	1955	10			1	0	0		38	L	3	MC				
ARO 1950, REV 1955																		
*GERMANTOWN E, CLINTON, 1-2N, 4W	SILURIAN	2350	1956	380	9.8	1983.6	27	0	0	24	40	L	30	M	TRN 3310			
*GILA, JASPER, 7-0N, 9E	MCCLOSKEY, MIS	2850	1957	490	0.2	1048.1	34	0	0	2	39	OL	3	MC	MIS 2971			
GILLESPIE-WYEN, MACOUPIN, 8N, 6W	UNNAMED, PEN	650	1915	70	0.6		X	23	0	0	2	28	S	X	T ORO 2560			
GLENARM, SANGAMON, 14N, 5W	SILURIAN	1680	1955	130	0.4	59.7	9	0	0	1	40	L	9		SIL 1821			
ABU 1957, REV 1959, ARO 1960, REV 1961																		
*GOLDENGATE C, WAYNE, WHITE, EDWARDS, 2-4S, 9-10E	CYPRESS, MIS	2942	1960	90	200.0	18046.3	544	14	4	207	36	S	8	A	DEV 5522			
	BETMEL, MIS	3110	1951	350			22	0	0		37	S	11	ML				
	AUX VASES, MIS	3180	1944	3740			202	5	2		40	0.14	S	15	AL			
	OHARA, MIS	3250	1943	4760			56	5	1		39	OL	6	AC				
	SPAR MTN, MIS	3275		#			85	6	0		38	OL	7	AC				
	MCCLOSKEY, MIS	3310	1939	#			175	7	1		36	0.19	OL	7	AC			
	ST. LOUIS, MIS	3430	1952	30			4	0	0		40	L	10	ML				
	SALEM, MIS	4130	1975	130			10	1	0			L	30					
	ULLIN, MIS	4125	1961	140			10	2	0		39	L	9	A				
	DUTCH CREEK, DEV	5346	1961	350			16	0	0		39	S	10					
GOLDENGATE E, WAYNE, 3S, 9E	OHARA, MIS	3290	1951	10	0.7	21.5	2	0	1	1	37	L	3		MIS 3420			
	SPAR MTN, MIS	3340	1976	10			1	0	0			S	4					
ABU 1957, REV 1968																		
*GOLDENGATE N C, WAYNE, 1-2S, 6-9E	BETMEL, MIS	3095	1952	10	18.6	664.5	56	0	0	39	38	S	3	M	MIS 4383			
	AUX VASES, MIS	3235	1948	390			33	0	0		39	S	25	ML				
	OHARA, MIS	3300	1945	520			10	0	0		37	L	4	MC				
	SPAR MTN, MIS	3325	1945	#			18	0	0		37	L	5	MC				
	MCCLOSKEY, MIS	3350		#			21	0	0		39	L	6	MC				
GRANDVIEW +, EDGAR, 12-13N, 13W	PENNSYLVANIAN	560	1945	70	0.4	7.0	7	0	0	5	30	S	10	M	ORO 2694			
GRAYSON, SALINE, 8S, 7E	CYPRESS, MIS	2515	1957	10	0.0	22.9	3	0	0	0					MIS 3045			
	AUX VASES, MIS	2913	1961	10			1	0	0		37	S	6					
	MCCLOSKEY, MIS	2920	1957	20			1	0	0		38	L	4					
ABD 1972																		
GREENVILLE GAS +, BONO, 5N, 3W	LINGLE, DEV	2240	1957	10	0.0	0.0	1	0	0	0	38	L	5	A	TRN 3184			
ABD 1958																		
HADLEY, RICHLAND, 4N, 14W	SPAR MTN, MIS	2970	1976	200	2.2	12.1	12	4	0	11		S	10		MIS 3106			
*HALF MOON, WAYNE, 1S, 9E	AUX VASES, MIS	3190	1951	20	5.6	3274.1	68	0	3	19	38	S	18	ML	DEV 5369			
	OHARA, MIS	3280		1240			39	0	3		40	L	11	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- TH OF DISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL			DEEPEST TEST DEP- TH (FT)
				OUR- ING	TO END OF 1979	COMP- LEVED TO END OF 1979	CO- MPL- IN 1979	AB- AND 1979	PROD- UCING YEAR	SUL- FUR PERC- OF	PAY ZONE		DEP- TH (FT)	
											ROCK	EST		
(CONTINUED FROM PREVIOUS PAGE)														
*HALF MOON, WAYNE, 1S, 9E														
SPAR MTN, MIS		3280 1947	#			11	0	1				L	4	MC
MCCLOSKEY, MIS		3300 1947	#			22	0	0		37		L	10	MC
SALEM, MIS		3985 1977	10			1	0	0				L	6	
*MARCO +, SALINE, 8S, 5E														
		1954	1140	25.2	1880.9	94	0	1		37				MIS 3424
MAHONINGBURG, MIS		2330 1956	30			1	0	0		36		8	6	
CYPRESS, MIS		2618 1959	50			4	0	0		36		8	8	
SAMPLE, MIS		2675 1954	30			4	0	0		39		8	8	
AUX VASES, MIS		2860 1955	990			75	0	1		41		8	15	
OHARA, MIS		2965 1956	220			6	0	0				L	10	
SPAR MTN, MIS		2970 1956	#			8	0	0		39		L8	10	
*MARCO E +, SALINE, 8S, 5E														
		1955	330	4.6	355.1	30	0	0		8				MIS 3421
CYPRESS, MIS		2575 1955	120			12	0	0		38		8	20	
AUX VASES, MIS		2865 1956	220			13	0	0		38		8	8	
OHARA, MIS		2880 1955	40			4	0	0		39		L	14	
*HARRISBURG +, SALINE, 8S, 6E														
		1952	100	0.0	252.3	10	0	0		0				MIS 2930
WALTERSBURG, MIS		2020 1955	90			9	0	0		38		8	14	
TAM SPRINGS, MIS		2115 1952	10			1	0	0		37		8	6	
			480	1971										
HARRISBURG S, SALINE, 9S, 6E														
CYPRESS, MIS		2300 1955	10	0.0	0.0	1	0	0		0 37		8		MIS 2352
			480	1956										
HARRISBURG W, SALINE, 9S, 6E														
TAM SPRINGS, MIS		1944 1974	30	0.0	7.3	3	0	0		1		8	18	MIS 2903
HARRISTOWN, MACON, 16N, 1E														
SILURIAN		2050 1954	250	3.2	193.2	16	2	0		6 39		L	3	MU SIL 2117
HARRISTOWN S, MACON, 16N, 1E														
SILURIAN		2140 1975	90	39.1	91.6	7	1	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, MIS		2978 1969	10	0.0	0.0	1	0	0		0		L	5	MIS 3600
			480	1973										
*EMERALD C +, WHITE, GALLATIN, 6-8S, 9-10E														
		1940	6380	156.9	17210.1	559	1	1		210				A DEV 5285
PENNSYLVANIAN		1060	390			1	0	0		29		8	10	AL
PENNSYLVANIAN		1500 1940	#			23	0	0		36		8	15	AL
PENNSYLVANIAN		1750	#			5	0	0		29		8	18	AL
UEGONIA, MIS		1920 1947	80			3	0	0		36		8	12	AL
GLORE, MIS		1965	60			2	0	0		36		8	10	AL
PALESTINE, MIS		1940	10			2	0	0		34		8	20	AL
WALTERSBURG, MIS		2240 1947	530			46	0	0		33		8	10	A
TAM SPRINGS, MIS		2260 1944	740			60	0	0		38	0.24	8	13	A
CYPRESS, MIS		2660 1947	1900			160	0	0		35	0.22	8	14	A
BETHEL, MIS		2790	190			20	0	0		37		8	11	AL
AUX VASES, MIS		2920 1943	3050			229	0	1		38		8	6	AL
OHARA, MIS		2965	540			8	0	0		37		L	4	AC
SPAR MTN, MIS		3005	#			7	0	0				L	4	AC
MCCLOSKEY, MIS		3010 1945	#			26	1	0		35		L	10	AC
SALEM, MIS		3870 1976	10			1	0	0				L	5	
ULLIN, MIS		3960 1977	10			1	0	0				L	12	
*HERRIN, WILLIAMSON, 8S, 2E														
CYPRESS, MIS		2221 1965	10	0.0	2.0	1	0	0		0 36		8	9	MIS 2682
			480	1972										
*MICKOHY MILL, MARION, 1N, 4E														
		1964	80	0.4	25.3	6	0	1		1				MIS 3500
CYPRESS, MIS		2478 1964	10			1	0	0		36		8	10	

(CONTINUED ON NEXT PAGE)

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST	
				DUR- ING 1979	TO END OF 1979	COM- PLET- ED 1979	CO- AS- AND- ONE 1979	PROD- UCING END OF YEAR	SUL- FUR PERC- ENT	KIND OF ROCK	THI- CK- NESS	STR- UCT- URE			DEP- TH (FT)
(CONTINUED FROM PREVIOUS PAGE)															
#MICKROY HILL, MARION, IN, 4E															
	BENDIST, MIS	2645 1964	20			2	0	0		37		8	7		
	SPAR MTN, MIS	2835 1964	30			3	0	1		37		8	6		
			ARU 1972, REV 1978												
#HIGALGO, JASPER, 8N, 10E															
	MCCLUSKY, MIS	2575 1940	50	1.0	27.0	5	0	0	1	37	0.20	L	4	MC	DEV 4246
			ARU 1952, REV 1965												
#HIGALGO E, JASPER, 8N, 10E															
	AUX VASES, MIS	1966	340	36.9	51.0	23	22	0	23						MIS 2823
	SPAR MTN, MIS	2264 1979	40			3	3	0				8	4		
	MCCLUSKY, MIS	2342 1979	300			1	1	0				8	4		
		2467 1966	#			21	20	0	37			0	6		
#HIGALGO N, CUMBERLAND, 9N, 9E															
	SPAR MTN, MIS	1946	220	1.1	46.3	16	0	0	10						MIS 2807
	MCCLUSKY, MIS	2655 1946	220			11	0	0	37			8	12		
		2676 1959	#			8	0	0	37			0L	9		
#HIGALGO S, JASPER, 8N, 10E															
	MCCLUSKY, MIS	2628 1964	80	0.0	2.6	5	0	0	1	37		0	4		MIS 3040
			ARU 1973, REV 1978												
#HIGHLAND, MADISON, 4N, 5W															
	HARDIN, DEV	1941 1960	10	0.0	0.0	1	0	0	0	37		8	7	U	DEV 1983
			ARU 1962												
#MILL, EFFINGHAM, 6N, 6E															
	AUX VASES, MIS	1943	80	4.4	52.2	7	1	0	3						MIS 2963
	SPAR MTN, MIS	2530 1978	20			2	1	0				8	8		
	MCCLUSKY, MIS	2547 1977	70			1	0	0				8	4		
		2565 1943	#			4	0	0	39			L	5	N	
			ARU 1950, REV 1970, ARU 1972, REV 1977												
#MILL E, EFFINGHAM, 6N, 6E															
	CYPRESS, MIS	1954	490	2.2	1301.1	38	0	0	3						MIS 3251
	AUX VASES, MIS	2460 1955	290			26	0	0		37		8	8		
	SPAR MTN, MIS	2650 1957	10			1	0	0		37		8	10		
	MCCLUSKY, MIS	2660 1954	250			2	0	0				L	5		
	ST. LOUIS, MIS	2700 1954	#			9	0	0	40			L	7		
		2924 1966	10			1	0	0				0	14		
#MILLSBORD, MONTGOMERY, 9N, 3W															
	LINGLE, DEV	2012 1962	30	0.0	0.2	3	0	0	0	36		8	4		DEV 2153
			ARU 1967												
#HOFFMAN, CLINTON, 1N, 2W															
	CYPRESS, MIS	1939	360	7.3	841.9	54	0	0	31					A	DEV 2914
	BENDIST, MIS	1190	190			16	0	0		36		8	11	A	
		1320 1939	240			39	0	0		33	0.21	8	7	A	
#HOLLIDAY, FAYETTE, 9N, 3E															
	DEVONIAN	3150 1977	10	0.0	0.0	1	0	0	0			8	6		DEV 3237
			ARU 1978												
#HOODVILLE E, HAMILTON, 5S, 7E															
	MCCLUSKY, MIS	3365 1944	40	0.0	0.6	2	1	0	0	37		L	3	N	MIS 4461
			ARU 1944												
#HORO, CLAY, 5N, 6E															
	AUX VASES, MIS	1950	270	1.4	591.3	19	0	0	2					M	MIS 2954
	STE. GEN, MIS	2702 1959	70			6	0	0		38		8	10	M	
		2800 1950	270			13	0	0		37		L	5	M	
#HORO N, EFFINGHAM, 6N, 6E															
	CYPRESS, MIS	1958	60	2.9	185.7	6	0	0	4						MIS 2860
	AUX VASES, MIS	2430 1958	40			3	0	0		33		8			
		2635 1959	30			3	0	0		38		8	10		
#HORO S C, CLAY, 5N, 6E															
		1942	380	0.9	1800.6	28	0	1	8					N	MIS 3104

(CONTINUED ON NEXT PAGE)

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			DEEPEST TEST								
			PRO- VEU	OUR- IN	TO 1% END OF 1979	COMP- LE	CO- 7EO	MPL- AB-	AB- ON-	PROO- UCING	BUL- FUR	PAY ZONE		PERC- OF	OF CKN- UC7-	ZONE	7M DEP- (FT)				
	NAME AND AGE	(FT) OVERY	ACRES	1979	1979	END OF 1979	1979	1979	1979	1979	YEAR	API	ENT	ROCK	ESR	URE					
*MORU S C, CLAY, 5N, 6E																					
	AUX VASES, MIS	2735 1955	20				2	0	1		37										
	STE, GEN, M18	2790 1942	380				26	0	0		36			L		8 N 7 NC					
			ABU 1945, REV 1951																		
HORNBY 8, MACOUPIN, 8N, 6W																					
	PENNSYLVANIAN	640 1956	50	0,0	0,0		4	0	0		0	28				8	1	PEN	715		
			ABU 1957, REV 1959, ABU 1960																		
HOYLETON W, WASHINGTON, 1S, 2W																					
	CLEAR CREEK, OEV	2895 1955	10	0,0	3,7		1	0	0		0	39				L	12	SIL	2965		
			ABU 1964																		
HUEY, CLINTON, 2N, 2W																					
	DENOIST, M18	1260 1945	80	0,0	5,4		7	0	0		0	34				8	6	AL	OEV	2770	
			ABU 1974																		
HUEY S, CLINTON, 1-2N, 2-3W																					
	CYPRESS, M18	1953	310	3,4	278,7		23	0	0		15								SIL	2675	
	SILURIAN	1080 1953	190				17	0	0			34				S	5				
		2585 1956	110				6	0	0			40				L	10				
HUNT CITY, JASPER, 7N, 10E																					
	SPAR MTN, M18	2540 1945	10	0,0	0,8		1	0	0		0	37				8	10	ML	M18	3020	
			ABU 1950																		
HUNT CITY E, JASPER, 7N, 14W																					
	FREDONIA, M18	1952	90	0,0	20,9		8	0	0		1								SIL	3460	
	ST. LOUIS, M18	2000 1952	90				8	0	0			40				L	4				
		2147 1966	10				1	0	0			39				O	20				
			ABU 1954, REV 1965																		
HUNT CITY S, JASPER, 7N, 14W																					
	MCCLOSKEY, M18	2341 1966	30	0,4	15,1		3	0	0		2	38				L	4		M18	2766	
HUTTON, COLES, 11N, 10E																					
	PENNSYLVANIAN	530 1939	20	0,0	15,0		2	0	0		0	30				S	15		M18	969	
			ABU 1946																		
ILLIUPOLIS, SANGAMUN, 16N, 2W																					
	SILURIAN	1765 1977	30	1,2	4,6		1	0	0		1					L	3		SIL	1803	
*INA, JEFFERSON, 48, 2-3E																					
	RENAULT, M18	1938	430	0,0	747,7		28	0	0		0								A	M18	3521
	AUX VASES, M18	2725 1954	150				7	0	0			36				S	10	AL			
	SPAR MTN, M18	2682 1958	30				3	0	0			36				S	26	A			
	MCCLOSKEY, M18	2775 1957	110				3	0	0							S	10	A			
	ST. LOUIS, M18	2775	8				4	0	0			35				L	10	A			
	SALEM, M18	3000 1938	90				8	0	0			37	0,20			L	4	AC			
		3210 1957	40				4	0	0			37				L	9	A			
			ABU 1946, REV 1954, ABU 1977																		
INA N, JEFFERSON, 4S, 3E																					
	MCCLOSKEY, M18	2940 1949	10	0,0	0,7		1	0	0		0	35				L	4		M18	3689	
			ABU 1950																		
INCLOSE 4, EUGAR, CLARK, 12N, 13-14W																					
	ISABELL, PEN	345 1941	110	0,2	X		15	0	0		4	30				S		AL	M18	1600	
*INGHAM, CLAY, 4N, 8E																					
	TAR SPRINGS, M18	1942	680	4,7	1005,6		47	0	0		5								M	M18	3702
	AUX VASES, M18	2332 1969	10				1	0	0												
	SPAR MTN, M18	2915	80				6	0	0			38				S	15	ML			
	MCCLOSKEY, M18	3000	620				34	0	0			37	0,21			L	7	MC			
		3075 1942	8				8	0	0			37	0,21			L	8	MC			
			ABU 1942, REV 1943, ABU 1944, REV 1950, ABU 1966, REV 1969																		
*INMAN E C, GALLATIN, 7-8S, 10E																					
	PENNSYLVANIAN	1940	4760	97,4	22244,0		447	11	0		153								A	OEV	5100
	PENNSYLVANIAN	780	80				4	0	0			38				S	10	AP			
	DEGONIA, M18	1450	8				2	0	0							S	4	AP			
	CLORE, M18	1690	90				4	0	0			37				S	10	AP			
	PALESTINE, M18	1725 1942	50				6	0	0			36				S	8	AP			
		1640 1942	90				4	0	0			35				S	13	AP			
			(CONTINUED ON NEXT PAGE)																		

TABLE 8 -continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TM OF UISC- OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BLS		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST UEP- TM (FT)
				QUN- ING 1979	TO END OF 1979	COMP- LETEO TO END OF 1979	CU- MPL- AND ONED 1979	AS- AND 1979	PROD- UCING YEAR	SUL- FUM PERC- ENT	KINU OF ROCK	HI- STR- URE	TO ZONE		
(CONTINUED FROM PREVIOUS PAGE)															
*INMAN E C, GALLATIN, 7-83, 10E															
WALTERSBURG, MIS		1980	1220			83	0	0		37	8	18	AF		
TAN SPRINGS, MIS		2080	1870			160	3	0		37	0,24	8	13	AF	
HAMOINSBURG, MIS		2139	240			17	0	0		34	8	10	AF		
CYPRESS, MIS		2390	2410			166	0	0		37	0,23	8	14	AF	
RENAULT, MIS		2675	20			2	1	0		36	8	5	AF		
AUX VASES, MIS		2715	730			47	6	0		37	8	8	AF		
OHARA, MIS		2795	160			2	0	0			L	5	AF		
SPAR MTN, MIS		2790	#			1	0	0			L	7	AF		
MCCLOSKY, MIS		2800	#			8	1	0		39	L	8	AF		
ST. LOUIS, MIS		2960	40			6	0	0		38	L	10	AF		
*INMAN W C, GALLATIN, 7-83, 9-10E															
		1940	3890	93,9	9185,2	350	0	5		175				T	MIS 3357
PENNSYLVANIAN		925	190			5	0	0			S	8	NL		
PENNSYLVANIAN		1630	#			4	0	0			S	5	NL		
BIEMEL, PEN		1750	#			7	0	0		35	S	12	NL		
PALESTINE, MIS		1765	40			4	0	0		35	S	13	NL		
WALTERSBURG, MIS		2080	130			8	0	0		37	8	10	TL		
TAN SPRINGS, MIS		2140	1340			93	0	1		36	S	8	TL		
HAMOINSBURG, MIS		2300	300			22	0	0		32	S	10	TL		
CYPRESS, MIS		2475	2210			170	0	5		37	S	10	T		
SAMPLE, MIS		2610	50			1	0	0		36	S	30	T		
RENAULT, MIS		2775	30			3	0	0		37	L	7	T		
AUX VASES, MIS		2790	910			73	0	0		37	8	15	TL		
OHARA, MIS		2815	260			6	0	0			L	12	TC		
SPAR MTN, MIS		2815	#			4	0	0		38	L	8	TC		
MCCLOSKY, MIS		2940	#			16	0	0		36	0,19	L	6	TC	
ST LOUIS, MIS		3180	10			1	0	0		39	L	6			
IOLA CEN, CLAY, 5N, 5E															
		1954	200	10,9	77,5	18	1	0		9				MIS 2800	
CYPRESS, MIS		2277	130			11	1	0			S	15			
BENOIST, MIS		2420	60			6	0	0		36	S	5			
				ABU 1957, NEV 1965											
*IOLA C, CLAY, EFFINGHAM, 5-6N, 5-6E															
		1939	3450	152,0	16274,8	307	0	2		208			A	DEV 4227	
TAN SPRINGS, MIS		1890	20			1	0	0		35	S	9	AL		
CYPRESS, MIS		2125	780			52	0	1		35	S	15	A		
BETMEL, MIS		2255	60			5	0	0		36	S	10	AL		
BENOIST, MIS		2290	1260			87	0	0		36	0,14	S	12	A	
RENAULT, MIS		2320	10			1	0	0			L	X	AC		
AUX VASES, MIS		2325	2420			195	0	1		36	0,25	S	10	A	
OHARA, MIS		2410	1470			1	0	0			L	6	A		
SPAR MTN, MIS		2430	#			68	0	1		37	LS	7	A		
MCCLOSKY, MIS		2425	#			55	0	0		38	OL	10	A		
IOLA S, CLAY, 4N, 5E															
		1947	350	2,4	533,5	27	0	1		9			A	31L 5075	
BENOIST, MIS		2490	170			11	0	0		36	S	10	AL		
SPAR MTN, MIS		2590	240			8	0	0			L	6	AC		
MCCLOSKY, MIS		2650	#			8	0	1		37	L	3	AC		
CARPER, MIS		3900	10			1	0	0		38	S	7			
IOLA W, CLAY, 5N, 5E															
		1945	10	0,0	0,5	1	0	0		0	37	L	11	MC MIS 2613	
				ABD 1945											
*IRVINGTON, WASHINGTON, 18, 1W															
		1940	1420	87,9	9517,1	141	2	0		92			A	ORO 4440	
BEECH CREEK, MIS		1525	10			1	0	0		38	L	3	AC		
CYPRESS, MIS		1380	410			35	0	0		36	8	12	A		
BENOIST, MIS		1535	1040			45	0	0		37	0,16	8	12	A	
CLEAR CREEK, DEV		3090	300			19	2	0		39	0,27	L	12	A	
TRENTON, ORO		4275	110			6	0	0		39	L	90	A		
*IRVINGTON E, JEFFERSON, 18, 1E															
		1951	340	17,8	1114,6	27	0	0		25				MIS 2222	
PENNSYLVANIAN		1030	40			5	0	0		32	8	15			
CYPRESS, MIS		1750	120			7	0	0		37	8	15			
BENOIST, MIS		1950	200			18	0	0		37	8				
IRVINGTON N, WASHINGTON, 1N, 1S, 1W															
		1953	310	15,8	1420,7	28	0	0		26			A	ORO 4334	
CYPRESS, MIS		1340	60			5	0	0		37	8	16	AL		
BENOIST, MIS		1470	250			22	0	0		39	S	6	AL		

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- VEO IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL		PAY ZONE		DEEPEST TEST ZONF TH (FT)	
				1979	1979	COM- PLET- ED 1979	CO- TO 1979	AR- AND 1979	PROD- UCING END OF 1979	SUL- FUR PERC- ENT	KIND OF ROCK	THI- CK- NESS	STR- UCT- URE			
*JOHNSONVILLE W, WAYNE, 1N, 1S, 5-6E (CONTINUED FROM PREVIOUS PAGE)																
BETHEL, MIS		2925	1952	40			1	0	0		37	S	7	ML		
AUX VASES, MIS		2900	1943	440			37	0	0		37	S	6	ML		
OHARA, MIS		2930		390			5	0	0			L	6	MC		
SPAR MTN, MIS		3015		#			10	0	0			L	4	MC		
MCCLOSKEY, MIS		3100	1942	#			19	0	0		40	L	7	MC		
ULLIN, MIS		3823	1978	10			1	0	0			L	19			
*JOHNSTON CITY E, WILLIAMSON, 8S, 3E																
		1959		290	42.9	1109.3	20	0	0		13				MIS	2497
CYPRESS, MIS		2290	1959	130			9	0	0		37	S	20			
BETHEL, MIS		2500	1975	10			1	0	0			S	5			
AUX VASES, MIS		2620	1962	260			12	0	0		36	S	10			
OHARA, MIS		2660	1975	20			1	0	0			L	5			
SPAR MTN, MIS		2660	1963	#			2	0	0			L	7			
MCCLOSKEY, MIS		2680	1963	#			1	0	0		38	OL	12			
JOHNSTON CITY N E, WILLIAMSON, 8S, 3E																
AUX VASES, MIS		2818	1969	50	4.2	227.4	4	0	0		4	S	16		MIS	3014
*JUNCTION, GALLATIN, 9S, 9E																
		1939		380	1.3	696.6	32	0	1		7				MIS	3600
PENNSYLVANIAN		1150	1947	30			4	0	1		35	S	7	ML		
WALTERSBURG, MIS		1750	1939	300			26	0	0		37	S	14	ML		
HARDINSBURG, MIS		2120	1949	30			1	0	0		34	S	5	ML		
CYPRESS, MIS		2275	1954	20			2	0	0		37	S	12	ML		
MCCLOSKEY, MIS		2730	1955	10			1	0	0		37	L	9	MC		
*JUNCTION E, GALLATIN, 8-9S, 9E																
		1953		150	4.9	132.1	9	0	0		6				MIS	2970
WALTERSBURG, MIS		2000	1953	140			4	0	0		37	S	14			
TAN SPRINGS, MISS		2119	1973	10			1	0	0			S	25			
*JUNCTION N, GALLATIN, 8-9S, 9E																
		1946		270	1.4	253.8	24	0	0		10				MIS	2983
PENNSYLVANIAN		1565	1947	100			10	0	0		36	S	14	ML		
WALTERSBURG, MIS		1990	1973	80			5	0	0			S	20			
CYPRESS, MIS		2450	1954	30			3	0	0		37	S	10	ML		
AUX VASES, MIS		2725	1946	40			3	0	0		36	S	4	ML		
SPAR MTN, MIS		2860	1955	40			3	0	0		37	L	6	MC		
JUNCTION CITY C, MARION, 2N, 1E																
		1910		170	0.7	33.3	17	0	0		11				DEV	3346
OYKSTRA(CUBA), PEN		510	1910	170			11	0	0		32	S	X	NL		
WILSON, PEN		680	1952	#			6	0	0			S	8	NL		
KEENSBURG E, WABASH, 2S, 13W																
		1939		40	0.0	9.0	3	0	0		0				MIS	2802
OHARA, MIS		2705	1945	40			1	0	0			L	10	MC		
MCCLOSKEY, MIS		2710	1939	#			2	0	0		38	0.26	L	6	MC	
*KEENSBURG S, WABASH, 2-3S, 13W																
		1944		330	19.1	1086.2	31	0	0		17				MIS	3475
PENNSYLVANIAN		1145	1944	150			16	0	0		33	S	15	AL		
CYPRESS, MIS		2385	1951	130			11	0	0		36	S	9	AL		
OHARA, MIS		2715	1944	30			2	0	0		38	L	10	AC		
SALEM, MIS		3200	1973	20			2	0	0			L	8			
*KEENVILLE, WAYNE, 1S, 5E																
		1945		1300	402.2	4056.4	107	1	1		54				MIS	4050
AUX VASES, MIS		2960	1945	360			27	0	0		37	S	20	AL		
OHARA, MIS		3050	1946	440			5	0	0			L	5	AC		
SPAR MTN, MIS		3060		#			1	0	0			L	10	AC		
MCCLOSKEY, MIS		3180		#			29	0	0		37	L	7	AC		
SALEM, MIS		3620	1977	520			48	1	1		37	L	8			
KEENVILLE E, WAYNE, 1S, 5E																
		1951		140	7.0	109.8	10	0	1		6				MIS	3982
SPAR MTN, MIS		3075	1967	90			1	0	0			L	4			
MCCLOSKEY, MIS		3120	1951	#			6	0	1		37	L	10			
ST LOUIS, MIS		3190	1967	10			2	0	0		39	L	10			
SALEM, MIS		3709	1977	60			6	0	1			L	10			

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		
				M BBLs	COMP. CO.	LETED	MPL	A8-	PROO-	8UL-	PERC-	KIND			THI-	STR-
(SEE PART II)	NAME AND AGE	DEP. OF TH OILC- (FT) QUERY	PRU- IN ACRES	OUR- ING 1979	TO END OF 1979	TO END OF 1979	IN 1979	ONE- 1979	END OF 1979	YEAR	API	ENT	ROCK	ESS	UKE	(FT)
KELL, JEFFERSON, 18, 3E																
MCCLOSKEY, M18		2625 1942	50	0,0	14,0	5	0	0	0	37	0,26	L		A	M18	2921
A8U 1944, REV 1958, A80 1962																
KELL E, JEFFERSON, MARION, 1N-1S, 3E																
ST LOUIS, M18		2841 1979	100	47,8	47,8	7	7	0	7			L		8	M18	3511
KELL N, MARION, 1N, 3E																
ST LOUIS, M18		1976	70	0,8	1,2	6	3	0	6						M18	3118
SALEM, M18		2695 1976	20			2	0	0				L		4		
		277U 1976	70			6	3	0				L		4		
KELL W, MARION, 1N, 2E																
MCCLOSKEY, M18		2354 1962	10	0,0	0,8	1	0	0	0	38		OL		6	M18	2475
A8U 1964																
KELLERVILLE, ADAMS, BRUNN, 1-2S, 5W																
SILURIAN		637 1959	640	5,9	226,5	58	1	1	16	37		0		7	AC	3TP
KENNEN, CLAY, 3N, 5-6E																
TAM SPRINGS, M18		220U 1945	1290	15,8	2482,9	109	0	0	25						31L	4970
BENOIST, M18		269U 1942	10			1	0	0		37		S		7	AL	
RENAULT, M18		2761 1958	710			57	0	0		37	0,22	S		10	A	
AUX VASES, M18		2835 1943	240			17	0	0		37		S		9	A	
SPAR MTN, M18		2875 1947	850			49	0	0		38		S		9	AL	
MCCLOSKEY, M18		2930 1945	160			6	0	0				LS		5	AC	
ST. LOUIS, M18		2978 1964	8			6	0	0		37		L		7	AC	
CAMPER, M18		4221 1959	10			1	0	0		37		L		4		
DEVONIAN		4424 1959	40			1	0	0		39		S		10	A	
						2	0	0		36		L		55	A	
KENNEN N, CLAY, 3N, 6E																
BENOIST, M18		2755 1947	390	0,0	888,6	36	0	0	1						A	ORO
MCCLOSKEY, M18		297U 1947	80			31	0	0		37		S		6	A	6032
						5	0	0		37		L		6	AC	
KENNEN S, CLAY, 2N, 5E																
BENOIST, M18		1950	40	0,0	20,6	4	0	0	0						A	M18
AUX VASES, M18		2730 1967	20			2	0	0		37		S		5	A	3000
MCCLOSKEY, M18		2768 1971	10			1	0	0				S		6		
		267U 1950	30			4	0	0		37		L		10	AC	
A8U 1952, REV 1967, A80 1978																
KENNEN W, CLAY, 3N, 5E																
CYPRESS, M18		2600 1947	410	3,1	2113,2	35	0	0	8						A	OEV
BENOIST, M18		2705 1947	350			27	0	0		37		S		26	A	4800
RENAULT, M18		2802 1960	230			14	0	0		38		S		9	A	
AUX VASES, M18		2837 1960	10			1	0	0		37		S		10	A	
MCCLOSKEY, M18		2870 1947	110			8	0	0		38		S		24	A	
			20			2	0	0		38		L		4	A	
KEYESPORT, CLINTON, 3N, 2W																
BENOIST, M18		1180 1949	180	0,3	176,1	20	0	0	13	35		S		8	AL	M18
KINGAID C, CHRISTIAN, 1S-14N, 3W																
CEDAR VALLEY, DEV		1800 1955	2620	101,5	5390,1	148	0	0	200						MU	SIL
SILURIAN		1674 1959	10			147	0	0		38		08		19	MU	1971
						1	0	0		38		0		7		
KING, JEFFERSON, 3-4S, 3E																
RENAULT, M18		2716 1942	1430	5,9	3729,1	112	0	0	32						A	ORO
AUX VASES, M18		2725 1942	10			1	0	0		39		S		1	A	6015
OHARA, M18		2765 1947	1360			104	0	0		39	0,17	S		15	AL	
SPAR MTN, M18		2815	320			11	0	0				L		10	AC	
MCCLOSKEY, M18		2840 1942	8			7	0	0		40	0,16	LS		10	AC	
			8			4	0	0				L		5	AC	
KINMUNDY, MARION, 4N, 2-3E																
BENOIST, M18		1915 1950	80	1,0	93,1	7	0	0	3						A	OEV
SALEM, M18		2430	20			2	0	0		34		S		3	A	3650
			10			1	0	0		36		L		7	A	

(CONTINUED ON NEXT PAGE)

TABLE 8 continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA		PRODUCTION M BBLs			NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		DEEPEST TEST	
			PRO- DUCE IN ACRES	DU- RING 1979	TO END OF 1979	COM- PLET- ED TO END OF 1979	CO- MPL- ETED IN 1979	AS- AND- ONED 1979	PROD- UCING END OF YEAR	SUL- FUR- PERC- ENT	KIND OF RUCK	IM- CHN- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)			
(CONTINUED FROM PREVIOUS PAGE)																		
KINMUNDOY, MARION, 4N, 2-3E	CARPER, MIS	1962	50			4	0	0			37	S						
			ARU 1960, REV 1962															
KINMUNDOY N, MARION, 4N, 3E	BENOIST, MIS	1953	10	0,0	2,9	2	0	0		0	34	S				MIS	2301	
			ARU 1954, REV 1951, ARD 1974															
LACLODE, FAYETTE, 5N, 4E	BENOIST, MIS	1943	50	0,7	33,4	6	0	0		1	36	S	0,18	S	15	A	MIS	2608
LAKEMOOD, SHELBY, 10N, 2-3E	BENOIST, MIS	1941	120	1,0	277,8	12	0	0		3							SIL	3127
	AUX VASES, MIS	1941	70			7	0	0		30				S	7	AL		
		1941	50			5	0	0		32	0,23	S		S	8	AL		
*LANCASTER, WABASH, LAWRENCE, 1-2N, 13W																		
	TAR SPRINGS, MIS	1940	1970	34,3	5273,2	148	0	0		54							OEV	4555
	BETHEL, MIS	1959	10			0	0	0		31				S	3	A		
	OHARA, MIS	1944	980			0	0	0		36				S	14	AL		
	SPAR MTN, MIS	1964	1000			0	0	0						L	10	AC		
	MCCLOSKEY, MIS	1940	#			9	0	0		40	0,28	L		L	6	AC		
			#			51	0	0						L	7	AC		
LANCASTER CEN, WABASH, 1N, 13W																		
	OHARA, MIS	1946	240	0,3	376,8	16	0	0		0							MIS	3607
	SPAR MTN, MIS	1947	240			5	0	0						L	7	MC		
	MCCLOSKEY, MIS	1946	#			10	0	0		37				L	7	MC		
			#			3	0	0						L	8	MC		
			ARU 1961, REV 1972, ARD 1976															
LANCASTER E, WABASH, 2N, 13W																		
	BRIDGEPORT, PEN	1944	70	0,0	76,3	6	0	0		1							MIS	2750
	BUCHANAN, PEN	1976	60			1	0	0						S	13			
	BIEHL, PEN	1944	#			1	0	0						S	5			
	SPAR MTN, MIS	1947	#			4	0	0		31				S	10	ML		
			10			1	0	0		36				L	6	MC		
			ARD 1975, REV 1976															
*LANCASTER S, WABASH, 1N, 13W																		
	BETHEL, MIS	1946	310	14,1	448,5	22	0	1		16							MIS	3489
	OHARA, MIS	1949	270			19	0	0		36				S	6	ML		
	MCCLOSKEY, MIS	1946	70			3	0	1						L	6	MC		
			#			1	0	0		39				L	12	MC		
LANGELISCH-KUESTER, MARION, 1N, 1E																		
	UNNAMED, PEN	1910	120	1,7	37,9	16	0	0		1							OEV	3509
	CYPRESS, MIS	1951	10			2	0	0		32				S	X	N		
		1910	110			14	0	0		35				S	X	N		
*LAWRENCE, LAWRENCE, CRAWFORD, 2-5N, 11-13W																		
	TRIVOLI, PEN	1906	36170	X	X	7011	15	13		2670							CAM	9261
	CUBA, PEN	450	11010			19	0	0		28				S	X	A		
	BRIDGEPORT, PEN	800	#			5	0	0						S	X	A		
	PENNSYLVANIAN	950	#			1370	3	1		36				S	40	A		
	BUCHANAN, PEN	1250	#			23	0	0						S	15	A		
	RIOGLEY	1300	#			579	7	1		33				S	15	A		
	TAR SPRINGS, MIS	1410	70			X	0	0						S	X			
	MARDINSBURG, MIS	1570	110			8	0	0		34				S	10	A		
	JACKSON, MIS	1370	1510			12	0	0		33				S	10	A		
	CYP(KIRKWOOD), M	1400	2220			325	1	0		33				S	15	A		
	SAMPLE, MIS	1600	9820			4523	3	9		40				S	30	A		
	BETHM(TRACEY), MIS	1650	#			180	0	0		35				S	8	A		
	BENOIST, MIS	1695	#			1014	0	1		38				S	20	A		
	AUX VASES, MIS	1775	760			99	2	0		37				S	7	A		
	OHARA, MIS	1750	12430			57	0	0		38				S	8	A		
	SPAR MTN, MIS	1860	#			15	0	0						L	8	A		
	MCCLOSKEY, MIS	1860	#			76	0	0		33				L3	4	A		
	ST. LOUIS, MIS	1660	310			1153	1	1		40				L	10	A		
	SALEM, MIS	1955	130			14	1	0		35				L	10	A		
	DEVONIAN	2934	60			7	0	0		36				L	2	A		
	TRENTON ,OKO	4492	80			14	0	0		39				L	12			
			#			1	0	0						L	40			
			SEE LAWRENCE COUNTY DIVISION FOR PRODUCTION															
LAWRENCE COUNTY DIVISION, LAWRENCE, CRAWFORD																		
(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 BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST			
				PRO- VED IN ACRES	OUR- TO 1979	COM- PLET- ED 1979	CO- MP- LET- ED 1979	AB- AND 1979	PROD- UCING YEAR	SUL- FUR API	PERC- ENT OF GR.	KIND OF ROCK			THI- CK- NESS	STR- UCT- URE	DEP- TH (FT)
LAWRENCE COUNTY DIVISION, LAWRENCE, CRAWFORD																	
(CONTINUED FROM PREVIOUS PAGE)																	
1900																	
				37110	2076,0	381348,1	7100	15	13	2702				CAM	9261		
TOTALS FOR LAWRENCE AND ST. FRANCISVILLE POOLS																	
*LAWRENCE W, LAWRENCE, 3N, 13W																	

		1952		960	11,4	524,5	79	2	12	43				MIS	3059		
PAIN T CR E E K, MIS		1976 1962		700			9	0	1		35	S	13				
B E T H E L, MIS		2050 1952		#			42	0	1		33	S	15				
A U X V A S E S, MIS		2110 1953		70			7	0	2		36	S	8				
O H A R A, MIS		2214 1968		260			1	0	1			L	16				
S P A R M T N, MIS		2193 1963		#			6	1	1			L	2				
M C C L O S K Y, MIS		2225 1953		#			16	1	0		40	L	11				
*LEXINGTON W, WABASH, 1S, 14W																	

		1947		160	0,0	477,9	15	0	0	3				DEV	5020		
C Y P R E S S, MIS		2585 1953		10			1	0	0		32	S	10	A			
B E N D I S T, MIS		2733 1972		20			2	0	0			S	4	AL			
O H A K A, MIS		2912 1968		130			1	0	0			L	3				
M C C L O S K Y, MIS		2970 1947		#			12	0	0		38	L	8	AC			
LEXINGTON N, WABASH, 1S, 14W																	

S T E. G E N, MIS		2915 1951		20	0,0	6,4	2	0	0	0	38	L	4	HC	MIS	3045	
				ABU	1958												
*LILLYVILLE, CUMBERLAND, EFFINGHAM, 8-9N, 6-7E																	

		1946		190	9,0	636,0	15	0	0	9				DEV	4000		
S P A R M T N, MIS		2433 1968		200			1	0	0			S	6				
M C C L O S K Y, MIS		2425 1946		#			13	0	0		36	L	10	A			
LILLYVILLE N, CUMBERLAND, 9N, 7E																	

		1974		80	28,8	476,3	5	0	0	5				ORD	6500		
S P A R M T N, MIS		2405 1974		80			5	0	0			S	7				
M C C L O S K Y, MIS		2440 1974		#			5	0	0			L	20				
S A L E M, MIS		2840 1974		60			4	0	0			L	5				
G E N E V A, DEV		3625 1974		30			3	0	0			D	10				
LIS, JASPER, 7N, 9E																	

S P A R M T N, MIS		3022 1964		10	0,0	0,5	1	0	0	0	37	S	5	MIS	3050		
				ABU	1967												
LITCHFIELD, MONTGOMERY, 8-9N, 5W																	

U N N A M E D, PEN		660 1886		150	0,0	24,0	18	0	0	0	23	0,24	S	0	STP	3000	
				ARO	1904, REV	1942, ARU											
LITCHFIELD S, MONTGOMERY, 8N, 5W																	

P E N N S Y L V A N I A N		610 1967		80	0,0	0,0	7	0	0	5	23		S	3	DEV	1920	
*LIVINGSTON, MADISON, 6N, 6W																	

P E N N S Y L V A N I A N		535 1948		490	6,9	723,9	66	0	0	25	35		S	15	ML	ORD	2378
*LIVINGSTON S +, MADISON, 5-6N, 6W																	

P E N N S Y L V A N I A N		530 1950		670	14,6	579,7	78	2	2	55	35		S	7	ML	SIL	1735
*LOCUST GROVE, WAYNE, 1N, 9E																	

		1951		150	0,3	252,3	13	0	0	1				MIS	4190		
A U X V A S E S, MIS		3215 1951		110			8	0	0		36	S	10				
O H A R A, MIS		3240 1951		40			4	0	0			L	6				
M C C L O S K Y, MIS		3280 1951		#			1	0	0		37	L	6				
LOCUST GROVE S, WAYNE, 1S, 9E																	

		1953		180	0,2	114,9	11	0	1	0				MIS	3413		
O H A R A, MIS		3248 1958		180			2	0	0		39	L	6				
S P A R M T N, MIS		3300 1953		#			6	0	1		37	L	10				
M C C L O S K Y, MIS		3286 1958		#			4	0	0		39	L	4				
				ABU	1971, REV	72, ABO	74, REV	78, ABO	79								
LOGAN, FRANKLIN, 7S, 3E																	

		1966		30	0,9	85,5	3	0	0	2				MIS	3176		
A U X V A S E S, MIS		2920 1968		10			1	0	0			S	8				
S P A R M T N, MIS		3028 1966		20			1	0	0			L	4				

(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	ACRES	1979	TO 1979	COMP- LETED	CO- MPL	AB- ETEO	PROD- AND- UCING	BUL- PERC- ENT	KINU OF	THI- EBB	STR- UME	ZONE	TH (FT)	
LOGAN, FRANKLIN, 7S, 3E (CONTINUED FROM PREVIOUS PAGE)																	
MCCLOSAY, MIS		3082	1966	#				1	0	0		34	L			8	
LONG BRANCH, SALINE, MAMILTON, 7S, 6E																	
PALESTINE, MIS		2070	1950	70	1.0	333.0		12	0	0		3			A	MIS 3389	
CYPRESS, MIS		2745	1951	20				2	0	0			8		8	AL	
AUX VASES, MIS		3095		40				3	0	0		37		8	13	AL	
MCCLOSAY, MIS		3220	1950	20				6	0	0		37		8	9	AL	
								2	0	0		37		L	5	AC	
LONG BRANCH S, SALINE, 8S, 6E																	
CYPRESS, MIS		2660	1955	10	0.0	8.9		1	0	0		0		3		MIS 3210	
																ABU 1971	
*LOUDDEN +, FAYETTE, EFFINGHAM, 6=9N, 2=4E																	
CYPRESS, MIS		1500	1937	25380	1730.0	369020.2		2443	21	9		1270			A	PC 8616	
BETHEL, MIS		1540		21480				1603	4	3			36	0.25	8	30	A
BENOIST, MIS		1550	1937	9190				385	4	2			38	0.24	8	15	A
AUX VASES, MIS		1600		7120				736	2	0			38	0.20	3	10	A
MCCLOSAY, MIS		1785	1955	990				13	0	0			37	0.17	8	6	AL
CARPER, MIS		2630	1952	30				2	0	0			37		L	4	AC
GENEVA, DEV		3000	1937	3440				4	0	0			36		8	9	AL
TRENTON, ORD		3905	1955	20				144	16	5			28	0.48	0	15	A
								2	0	0			L		12	A	
LOUISVILLE, CLAY, 4N, 6E																	
AUX VASES, MIS		2800	1974	430	21.9	186.7		36	4	8		23				OEV 4865	
RENAULT, MIS		2735	1978	10				4	0	0			3		6		
SPAR MTN, MIS		2860	1974	430				1	0	0			8		6		
MCCLOSAY, MIS		2872	1974	#				8	2	2			3		10		
SALEM, MIS		3386	1974	20				25	2	6			OL		6		
ULLTN, MIS		3530	1974	10				2	1	1			L		4		
								1	0	0			L		4		
*LOUISVILLE N, CLAY, 4N, 6E																	
AUX VASES, MIS		2755	1953	110	0.0	56.3		8	0	0		1			M	SIL 4650	
SPAR MTN, MIS		2812	1961	40				2	0	0			37		3	10	ML
				70				6	0	0			37		L	9	ML
																	ABU 1954, REV 1962, ABU 1973, REV 1974
LOUISVILLE S, CLAY, 3N, 6E																	
AUX VASES, MIS		2623	1960	20	0.1	1.5		2	0	1		0				OEV 4740	
UMARA, MIS		2693	1960	10				1	0	1			38		8	6	
				10				1	0	0			36		L	2	
																	ABU 1967, REV 1976, ABU 1979
LYNCHBURG, JEFFERSON, 3S, 4E																	
MCCLOSAY, MIS		3045	1951	60	1.3	326.1		3	0	0		1	38		L	8	AC
*MCKINLEY, WASHINGTON, 3S, 4W																	
BENOIST, MIS		1050	1940	250	0.0	767.2		30	0	0		5			U	ORD 3983	
STLURTAN		2240	1940	180				17	0	0			41	0.18	3	5	U
				190				12	0	0			40		L	40	R
*MADDOGA, FRANKLIN, 5S, 4E																	
SALEM, MIS		4124	1978	30	0.8	7.8		2	0	0		1				OEV 5249	
ULLIN, MIS		4097	1961	20				1	0	0					L	10	
				10				1	0	0			37		L	12	
																	ABU 1965, REV 1978
*MAIN C +, CHAWFORD, LAWRENCE, JASPER, 5=8N, 10=14W																	
CUBA, PEN		510	1906	42520	1309.2	230979.7		11894	98	55		3333				STP 5317	
UNNAMEO, PEN		750		60050				75	0	0			32		3	X	ML
ROBINSON, PEN		950		#				4	0	0					3	5	ML
PENNSYLVANIAN		1250		#				10319	80	54			35		8	25	ML
BARLOW, MIS		1201	1968	10				66	0	0					3	X	ML
CYPRESS, MIS		1480	1954	660				1	0	0				OL		10	
PAINT CREEK, MIS		1280		5060				43	0	0			34		8	15	ML
BETHEL, MIS		1400		#				X	0	0			36		3	30	ML
RENAULT, MIS		1564	1979	10				177	7	0			36		3	18	ML
AUX VASES, MIS		1430		3200				1	1	0					3	10	
SPAR MTN, MIS		1515		690				151	13	0			35		8	15	ML
MCCLOSAY (OBLONG), MIS		1400		#				2	0	0					3	6	MC
SALEM, MIS		1815	1947	290				150	0	0			35		L	X	MC
DEVONTAN		2795	1941	500				14	0	0			37		L	5	MC
								16	1	1			40		L	11	MC

(CONTINUE ON NEXT PAGE)

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (+ SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP. OF TH OVERY	AREA PRO. VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST
				OUR. TO ING 1979	TO END OF 1979	COMP. LATED TO END OF 1979	CO. MPL. IN 1979	AB. AND ONED 1979	PROO. UCING END OF YEAR	SUL. FUK GR, PERC- API ENT	KIND OF ROCK	TMI. ES	STR. URE	ZONE	TH (FT)
(CONTINUED FROM PREVIOUS PAGE)															
*MAIN C +, CRAWFORD, LAWRENCE, JASPER, 5-8N, 10-14W															
TRENTON, ORO 3900 1976 420 25 2 0 L 75															
*MAPLE GROVE C, EDWARDS, WAYNE, 1-2N, 9-10E															
AUX VASES, MIS	3145 1943	2410	32,8	4648,1	142	6	0	46							DEV 5220
OHARA, MIS	3230 1945	730			49	2	0		38	S	15	A			
SPAR MTN, MIS	3250	#			6	0	0		27	L	3	AC			
MCCLOSKY, MIS	3260 1943	#			89	3	0		41	L	6	A			
ST LOUIS, MIS	3500 1977	10			1	0	0			L	6				
SALEM, MIS	3660 1967	100			7	0	0		39	L	4				
ULLIN, MIS	4057 1976	20			2	0	0			L	7				
MAPLE GROVE S C, EDWARDS, IN, 10E															
	1945	240	14,2	244,0	17	0	0	9							MIS 4200
OHARA, MIS	3260 1951	190			3	0	0		40	L	6				
SPAR MTN, MIS	3275	#			2	0	0			L	6				
MCCLOSKY, MIS	3275	#			9	0	0		38	L	6				
SALEM, MIS	3850 1976	40			3	0	0			L	85				
ULLIN, MIS	4170 1977	10			1	0	0			L	28				
MANCUE, JEFFERSON, 3S, 2E															
	1938	20	0,8	16,3	2	0	0	2							MIS 3520
SPAR MTN, MIS	2700 1976	10			1	0	0			S	18				
MCCLOSKY, MIS	2745 1938	20			2	0	0		25	0,54	L	15	MC		
*MARINE, MADISON, 4N, 6W															
DEV-SIL	1700 1943	2470	42,9	12018,9	148	0	0	114	35	0,28	L	20	K	ORO 2619	
MARINE W, MADISON, 5N, 7W															
DEVONIAN	1653 1965	100	0,0	25,2	6	0	0	0	35		L	3		ORO 2355	
		ARO 1978													
MARION, WILLIAMSON, 9S, 3E															
AUX VASES, MIS	2385 1950	20	0,1	0,4	2	0	0	1							MIS 2560
OHARA, MIS	2470 1975	10			1	0	0	40		S	5				
		10			1	0	0			L	8				
		ARO 1951, REV 1975													
MARION E, WILLIAMSON, 9S, 3E															
BETHEL, MIS	2295 1959	10	0,0	1,1	2	0	0	0	37		S	8		MIS 2642	
		ARO 1963													
MARION W, ST. CLAIR, RANDOLPH, 3-4S, 7W															
CYPRESS, MIS	215 1960	70	0,0	0,0	3	0	0	0	25		S	3		ORO 2413	
		ARO 1966													
*MARKHAM CITY, JEFFERSON, 2-3S, 4E															
STE. GEN, MIS	3070 1942	340	3,2	1608,5	19	0	0	4	38	0,06	L	10	A	MIS 4050	
*MARKHAM CITY N, JEFFERSON, WAYNE, 2S, 4-5E															
AUX VASES, MIS	2950 1944	310	6,9	1457,9	23	0	0	8							MIS 3950
MCCLOSKY, MIS	3075 1943	120			9	0	0	38		S	6	AL			
		310			16	0	0	37	0,24	L	8	AC			
*MARKHAM CITY W, JEFFERSON, 2-3S, 4E															
AUX VASES, MIS	2905 1945	500	0,9	2387,1	40	0	1	2							MIS 3906
MCCLOSKY, MIS	3035 1946	310			19	0	0	39		S	15	AL			
SALEM, MIS	3774 1969	10			23	0	1	37		L	7	AC			
		10			1	0	0			L	4				
*MARTINSVILLE, CLARK, 9-10N, 13-14W															
SMALLOW, PEN	255 1907	2590	X	X	388	0	1	160							STP 3411
CASEY, PEN	500	2290			10	0	0			S	X	U			
MARTINSVILLE, MIS	480	#			99	0	0			S	X	U			
CAMPER, MIS	1340	520			28	0	1			L	X	U			
DEVONIAN	1550	1040			84	0	0	37		S	40	U			
TRENTON, ORO	2700	700			45	0	0	38		L	A	U			
		510			35	0	0	40		L	X	U			
SEE CLARK COUNTY DIVISION FOR PRODUCTION															

TABLE 8 continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE	YEAR	AREA PRO-VEU IN ACRES	PRODUCTION M BbLS		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		DEEPEST TEST			
				DEP-TH (FT)	OF UISC-VEU IN	TO END OF 1979	TO END OF 1979	CUM-LETEO 1979	CO-MPL-1979	AB-ONOED 1979	PRUO-UCING END OF YEAR	SUL-FUR PERC-ENT	KING OF ROCK	TMI-CKN-ESS	STR-UCT-UME	ZONE	DEP-TH (FT)	
																		1951
*MASON N, EFFINGHAM, 6N, 5E																		
BENOIST, MIS		1951	240	2,1	412,1	16	0	0	9				A	MIS	2553			
AUX VASES, MIS		2290 1951	180			11	0	0	38				13	AL				
SPAR MTN, MIS		2355 1951	10			1	0	0	36				5	AL				
MCCLOSKEY, MIS		2390 1951	90			4	0	0					18	AC				
		2475	#			3	0	0	37				5	AC				
MASSILUN, WAYNE, EDWARDS, 1S, 9-10E																		
OHARA, MIS		3255 1946	70	0,0	91,2	3	0	U	0	37			L	A	MC	MIS	3472	
			ABU	1953														
MASSILUN S, EDWARDS, 1S, 10E																		
OHARA, MIS		3315 1947	10	0,0	0,3	1	0	0	0	37			L	9	MC	MIS	3441	
			ABU	1947														
*MATTOON, COLES, 11-12N, 7-8E																		
CYPRESS, MIS		1750 1939	6160	106,9	20322,7	568	1	11	231				A	STP	4915			
AUX VASES, MIS		1900	3360			261	0	3		39	0,16		13	A				
SPAR MTN, MIS		1950 1944	580			29	0	1		32			8	15	AL			
MCCLOSKEY, MIS		2010	4840			394	0	7		38	0,21		3	12	A			
SALEM, MIS		2236 1977	#			8	0	0		37			L	5	AC			
CARPER, MIS		2950 1955	60			4	0	1					L	6				
DEVONIAN		3162 1970	430			24	1	0		39			S	10	A			
			30			4	0	0		34				9				
*MATTOON N, COLES, 13N, 7E																		
SPAR MTN, MIS		1902 1960	160	1,6	369,0	12	0	0	3	40			S	12	A	MIS	1967	
MATTOON S, CUMBERLAND, 11N, 7E																		
CARPER, MIS		3035 1962	50	0,0	4,7	3	0	0	0	36			S	10		MIS	3337	
			ABU	1966														
MAUNIE E, WHITE, 6S, 11E																		
TAR SPRINGS, MIS		1951	80	0,6	64,6	6	0	0	1							AF	MIS	3088
AUX VASES, MIS		2280 1962	10			1	0	0		35			S	8				
		2870 1951	70			5	0	U		35			S	20	AF			
			ABU	1952, REV 1955														
*MAUNIE N C, WHITE, 5-6S, 10-11E, 14W																		
PENNSYLVANIAN		1941	2130	19,4	5023,1	177	0	U	45							A	MIS	4687
WALTERSBURG, MIS		1320	10			1	0	0		34			S	20	AL			
TAM SPRINGS, MIS		2305 1952	130			10	0	0		37			S	12	AL			
MAHOINSBURG, MIS		2350	160			10	0	U		35			S	10	AL			
SAMPLE, MIS		2565	10			1	0	0		36			S	10	A			
BETHEL, MIS		2630	480			2	0	U		35			S	13	AL			
RENAULT, MIS		2820 1941	#			30	0	U		35			S	13	AL			
AUX VASES, MIS		2935	10			1	0	U		36			L	2	AC			
OHARA, MIS		2930 1943	870			93	0	U		35			S	13	AL			
SPAR MTN, MIS		2995 1944	890			8	0	0		37			L	4	AC			
MCCLOSKEY, MIS		3025 1947	#			24	0	U		36			L	6	AC			
		3035 1945	#			24	0	U		33			L	10	AC			
*MAUNIE SOUTH C, WHITE, 6S, 10-11E																		
BRIDGEPORT, PEN		1941	1750	39,0	7418,7	175	1	U	54							A	OEV	4908
BIEM, PEN		1400	180			11	0	U		24			S	7	AL			
DEGONIA, MIS		1649 1959	#			3	0	0		31			S	X	AL			
PALESTINE, MIS		1900 1942	120			13	0	0		35			S	10	AL			
WALTERSBURG, MIS		2010 1941	640			54	0	0		35			S	17	AL			
TAR SPRINGS, MIS		2210	20			2	0	0		37			S	19	AL			
CYPRESS, MIS		2270 1942	830			53	0	0		35			S	16	AF			
BETHEL, MIS		2590	390			30	0	0		36			S	10	AL			
AUX VASES, MIS		2735	10			1	0	0		37			S	X	AL			
SPAR MTN, MIS		2645 1941	180			14	1	0		37			S	12	AL			
MCCLOSKEY, MIS		2900	40			1	0	0					L	8	AC			
ST LOUIS, MIS		2920	#			4	0	0		35			L	6	AC			
SALEM, MIS		3293 1975	10			1	0	0					L	9				
ULLIN, MIS		3874 1973	10			1	0	U					L					
		3964 1975	10			1	0	0					L	6				
MAYBERRY, WAYNE, 2-3S, 6E																		
MCCLOSKEY, MIS		1941	230	32,8	455,6	19	3	1	13							A	OEV	5377
SALEM, MIS		3350 1941	190			12	3	0		39	0,16		L	8	AC			
ULLIN, MIS		3840 1977	20			2	0	0					L	8				
		4300 1977	70			7	0	1					L	25				

TABLE 8--continued

WELL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART I)	PAY ZONE NAME AND AGE	YEAR DEP- TH (FT)	OF DISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BLS		NUMBER OF WELLS					CHARACTER OF OIL			PAY ZONE		DEEPEST TEST
					OUR- ING 1979	TO END OF 1979	COMP- LEVED TO END OF 1979	CO- EYES IN 1979	AB- AND- ONED 1979	PROD- UCING END OF YEAR	GR, API	SUL- FUR PERC- ENT	KIND OF ROCK	MI- ES	STR- UCY- UNE	ZONE	DEP- TH (FT)
MAYBERRY N, WAYNE, 2S, 6E	MCCLOSKEY, MIS	3330	1948	10	0.0	1.4	1	0	0	0	39	L	2	MIS	3463		
				AND 1950													
MECHANICSBURG, SANGAMON, 16N, 3W	SILURIAN	1734	1972	150	7.3	192.0	11	1	0	9		L	16	SIL	1776		
MELROSE, CLARK, 9N, 13W	ISABEL, PEN	840	1953	180	3.9	X	16	0	0	5	35	S	10	PEN	914		
MELROSE S, CLARK, 9N 13W	ISABEL, PEN	865	1953	20	0.0	0.0	2	0	0	0	35	S	7	PEN	888		
				AND 1959, REV 1964, AND 1969													
MILETUS, MANION, 4N, 4E	BENDIST, MIS	2140	1947	220	1.4	368.7	16	0	0	4				A	DEV	3950	
	AUX VASES, MIS	2200	1947	130			8	0	0		35	S	7	A			
	MCCLOSKEY, MIS	2350	1947	140			8	0	0		36	S	7	A			
				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	S	2	DEV	2160		
				AND 1971													
MILL SHOALS, WHITE, HAMILTON, WAYNE, 2-4S, 7-8E	AUX VASES, MIS	3245	1939	3260	38.0	11926.2	252	3	0	73				A	MIS	3455	
	OHARA, MIS	3320		2720			200	2	0		36	0.14	S	11	A		
	SPAR MTN, MIS	3345		1030			9	0	0				DL	11	AC		
	MCCLOSKEY, MIS	3375	1939	#			14	0	0				LS	8	AC		
	ST. LOUIS, MIS	3546	1960	#			40	0	0		36		DL	5	AC		
	SALEM, MIS	3970	1961	10			1	0	0		39		L	10	AC		
	ULLIN, MIS	4110	1959	20			3	1	0		38		L	8	A		
				10			1	0	0		38		L	10	A		
MILLS PRAIRIE, EDWARDS, 1N, 14W	OHARA, MIS	2925	1948	10	0.0	1.9	1	0	0	0	37	L	5	MC	MIS	3010	
				AND 1952													
MILLS PRAIRIE N, EDWARDS, 1N, 14W	OHARA, MIS	2425	1953	30	0.0	4.9	2	0	0	0	37	L	5	MC	MIS	3003	
				AND 1956													
MITCHELLSVILLE, SALINE, 10S, 6E	DEONIA, MIS	1330	1955	30	0.5	25.4	3	0	0	1				MIS	2452		
	WALTERSBURG, MIS	1505	1955	10			1	0	0		35	S	6				
	CYPRESS, MIS	2107	1973	10			1	0	0		38	S	9				
				10			1	0	0			S	20				
MUDE, SHELBY, 10N, 4E	BETHEL, MIS	1682	1961	360	2.9	338.2	19	0	0	14				DEV	3265		
	BENDIST, MIS	1742	1961	140			9	0	0		35	S	12				
	AUX VASES, MIS	1772	1961	360			13	0	0		34	S	8				
				10			2	0	0		37	S	8				
MONTRORSE, EFFINGHAM, 8N, 7E	MCCLOSKEY, MIS	2523	1968	40	2.4	133.1	6	0	0	3		L	7	MIS	3005		
MUNTRORSE N, CUMBERLAND, 9N, 7E	MCCLOSKEY, MIS	2500	1969	20	0.2	20.0	2	0	0	2		DL	10	DEV	3980		
MT. AUBURN C, CHRISTIAN, 15N, 1-2W	SILURIAN	1920	1943	7240	38.8	6711.1	433	0	3	117	37	0.28	L	13	MU	TRN	2577
MT. CARMEL ++, WABASH, 1N, 13, 12W	BRIDGEPORT, PEN	1370	1946	4680	158.6	18640.7	547	3	8	187				A	DEV	4237	
	BIEHL, PEN	1470		1170			6	1	0		34		S	20	AL		
	JORDAN, PEN	1520		#			88	1	0		36	0.28	S	20	AL		
	PALESTINE, MIS	1580		#			6	0	0				S	15	AL		
				60			9	0	0		35		S	10	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 OF OIL		PAY ZONE			DEEPEST TEST	
				PRO-VED IN ACRES	M BBL	COM-PLETED TO	CO-PL-ETED IN	AB-AND-ED	PRD-UCING YEAR	SUL-FUR GR. API	PERC-ENT	KIND OF ROCK	THICK-NESS	STR-UCTURE	ZONE	DEP-TH (FT)	
																	1979
(CONTINUED FROM PREVIOUS PAGE)																	
MT. CARMEL ++, WABASH, 1N, 18, 12W																	
WALTERSBURG, MIS		1690	30			3	0	0			36	8	10	AL			
TAR SPRINGS, MIS		1790 1939	430			35	0	0			36	8	13	AL			
JACKSON, MIS		2020 1945	10			1	0	0			8	8	25	AL			
CYPRESS, MIS		2025 1940	3660			336	0	6			38	0,17	8	15	AL		
SAMPLE, MIS		2095	100			4	0	0			37	8	7	AL			
BETHEL, MIS		2110	#			13	0	0			35	8	16	AL			
OMARA, MIS		2320	1350			23	0	1			35	OL	5	AC			
SPAR MTN, MIS		2350	#			14	0	0			39	0,26	8	5	AL		
MCCLOSKEY, MIS		2360	#			66	0	2			37	0,42	OL	6	AC		
SALEM, MIS		2696 1966	90			6	0	0			L		14				
ULLIN, MIS		3097 1978	10			1	0	0			L		10				
FT PAYNE, MIS		3561 1979	10			1	1	0			L		61				
MT. ERIE N, WAYNE, 1N, 9E																	
		1944	200	0,0	390,7	14	0	0		1			M	MIS	4100		
AUX VASES, MIS		3110 1944	110			5	0	0		40	S		8	ML			
OMARA, MIS		3170 1949	130			2	0	0			L		6	MC			
MCCLOSKEY, MIS		3240 1944	#			5	0	0		37	L		5	MC			
ABO 1966, MEV 1967																	
MT. OLIVE +, MONTGOMERY, 8N, 5W																	
POTTSVILLE, PEN		605 1942	80	0,3	X	7	1	0		5	33	0,16	8	6	A	81L	1876
MT. VERNON, JEFFERSON, 3S, 3E																	
		1943	250	4,6	393,2	18	0	0		7			A	MIS	3262		
AUX VASES, MIS		2665 1943	70			5	0	0		36	8		8	A			
OMARA, MIS		2750 1943	180			2	0	0			L		6	AC			
MCCLOSKEY, MIS		2800 1943	#			13	0	0		39	0,18	L	7	AC			
MT. VERNON N, JEFFERSON, 2S, 3E																	
MCCLOSKEY, MIS		2675 1956	20	0,4	65,6	2	0	0		2	38		L	6		MIS	2751
MUKDOCK, DOUGLAS, 16N, 10E																	
PENNSYLVANIAN		370 1955	10	0,0	0,0	3	0	0		0	36		S	16		PEN	424
ABO 1957, REV 1961, ABO 1968																	
NASHVILLE, WASHINGTON, 2S, 3W																	
		1973	490	79,4	856,0	36	4	1		28						ONO	3776
DEVONIAN		2625 1973	40			4	0	0			0		40				
SILURIAN		2650 1973	480			34	4	1		41	L		40	M			
NASHVILLE N, WASHINGTON, 1-26, 3W																	
SILURIAN		X 1979	X	0,0	0,0	X	X	X		0			L	X	X		
NASON, JEFFERSON, 3-4S, 2E																	
		1943	30	0,6	54,3	3	0	0		1				ML	MIS	3925	
OMARA, MIS		2758 1962	30			1	0	0		37	L		4				
SPAR MTN, MIS		2790 1943	#			2	0	0		37	S		12	ML			
NEW BAUEN E, CLINTON, 1N, 5W																	
SILURIAN		1435 1958	290	7,3	267,1	23	0	0		12	39		L	15	M	81L	2200
NEW BELLAIN, CHAWFORD, 8N, 13W																	
		1942	140	0,1	10,1	10	1	1		2					M	OEV	2832
ISABEL, PEN		650 1952	20			2	0	0		32	8		3	ML			
CYPRESS		1165 1942	70			5	1	0		29	0,30	S	10	ML			
AUX VASES, MIS		1280 1956	60			3	0	1			S		20	M			
ABO 1948, MEV 1952, ABO 1954, MEV 1956																	
NEW CITY, SANGAMUN, 14N, 4W																	
SILURIAN		1730 1954	440	2,5	220,3	39	0	2		8	39		L	11	MU	81L	1855
NEW CITY S, CHRISTIAN, 14N, 4W																	
SILURIAN		2006 1963	20	0,0	63,4	2	0	0		0	39		L	17		81L	1918
ABO 1974																	
NEW DOUGLAS S, BONU, 6N, 5W																	
(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 IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL	PAY ZONE	DEEPEST TEST			
				OUR-ING 1979	TO END OF 1979	COMPL-ETED TO END OF 1979	CO-PL-AB-ANU-ONED END OF YEAR	PROD-UCING GR. API	SUL-FUR PERC-ENT				KINU-OF ROCK	THI-ESS	STR-UCT-URE
(CONTINUED FROM PREVIOUS PAGE)															
NEW DOUGLAS S, BOND, 6N, 5W	PENNSYLVANIAN	640 1957	20	0,0	3,4	2	0	0	0	32	S	7	PEN	705	
(CONTINUED FROM PREVIOUS PAGE)															
*NEW HARMONY C **, WHITE, WABASH, EDWARDS, 1N, 1-9S, 13-14W		1939	26060	1443,6	161998,6	2705	34	12	1036			A	SMK	7692	
JAMESTOWN, PEN		720	1870			4	0	0		32	S	13	AL		
BRIDGEPORT, PEN		1340	#			9	0	0			S	7	AL		
MANSFIELD, PEN		0	#			0	0	0			S	X	AL		
BETHEL, PEN		1650	#			133	1	2		33	S	20	AL		
JOHNSON, PEN		1760	#			0	0	0			S	X	AL		
UEGONIA, MIS		1925	140			11	1	0		34	S	10	AL		
CLORE, MIS		1980	100			11	0	0		36	S	10	AL		
PALESTINE, MIS		2000	270			23	0	0		25	S	10	AL		
WALTERSBURG, MIS		2155	1330			133	1	0		36	0,40	S	20	AL	
TAR SPRINGS, MIS		2215	2570			219	1	4		35	0,19	S	26	ALF	
HARDINSBURG, MIS		2290 1958	20			1	0	0		35		L	10	ALF	
CYPRESS, MIS		2570	11070			1062	4	2		35		S	20	ALF	
SAMPLE, MIS		2660	11110			60	0	0		36		S	20	ALF	
BETHEL, MIS		2700	#			991	4	3		37	0,24	S	27	ALF	
MENAUT, MIS		2761	10			1	0	0		34		S			
AUX VASES, MIS		2800	8440			629	1	0		37	0,14	S	15	ALF	
UHARA, MIS		2900	5340			56	0	3		39		OL	6	AC	
SPAR MTN, MIS		2910	#			50	0	0		38		LS	10	AC	
MCCLUSKY, MIS		2925	#			292	2	0		37	0,33	OL	9	AC	
ST. LOUIS, MIS		3153 1953	550			37	1	0		36		L	X		
SALEM, MIS		3364 1959	340			25	1	0		37		L	16	AC	
ULLIN, MIS		3755	140			10	1	0		36		L	6	AC	
FORT PAYNE, MIS		4500 1978	700			27	22	0				L			
(CONTINUED FROM PREVIOUS PAGE)															
NEW HARMONY S (ILL), WHITE, 5S, 14W		1941	90	0,0	113,3	8	0	0	1			A	MIS	3207	
WALTERSBURG, MIS		2250 1941	30			3	0	0		35		S	18	AF	
TAR SPRINGS, MIS		2350	10			1	0	0		36		S	16	AF	
CYPRESS, MIS		2670 1951	10			1	0	0		35		S	8	AF	
BETHEL, MIS		2815	20			2	0	0		36		S	10	AF	
AUX VASES, MIS		3005 1949	10			1	0	0		37		S	7	AF	
MCCLUSKY, MIS		3010	20			1	0	0		37		L	5	AF	
(CONTINUED FROM PREVIOUS PAGE)															
NEW HARMONY S (IND), WHITE, 5S, 14W		1946	50	0,0	446,4	6	0	0	1			T	MIS	3068	
UEGONIA, MIS		1850	20			2	0	0		35		S	8	TF	
PALESTINE, MIS		1955	50			1	0	0		24		S	10	TF	
WALTERSBURG, MIS		2120	50			3	0	0		37		S	30	TF	
(CONTINUED FROM PREVIOUS PAGE)															
NEW HAVEN C **, WHITE, 7S, 10-11E		1941	780	56,5	2691,1	67	3	0	40			A	MIS	3900	
UEGONIA, MIS		1789 1975	10			1	0	0				S	6		
TAR SPRINGS, MIS		2105 1941	330			24	0	0		38	0,27	S	12	AF	
HARDINSBURG, MIS		2245	10			1	0	0		36		S	8	AF	
CYPRESS, MIS		2445 1949	480			24	3	0		39		S	12	AF	
AUX VASES, MIS		2720	130			11	0	0		37		S	15	AF	
UHARA, MIS		2799 1959	140			2	0	0				L	12	A	
SPAR MTN, MIS		2828 1960	#			2	0	0				L	15	A	
MCCLUSKY, MIS		2820	#			6	1	0		35		OL	8	AC	
(CONTINUED FROM PREVIOUS PAGE)															
NEW MEYRON E **, CRAWFORD, 6N, 12W		1955 1954	50	0,0	0,3	4	0	0	0	35		S	4	MIS	1571
(CONTINUED FROM PREVIOUS PAGE)															
NEW MEMPHIS, CLINTON, 1N, 1S, 5W	SILURIAN	1980 1952	790	34,1	2633,3	45	1	0	43	41	L	K	TRN	2900	
(CONTINUED FROM PREVIOUS PAGE)															
NEW MEMPHIS N, CLINTON, 1N, 5W	UEV-SIL	2050 1954	90	19,9	119,4	7	0	0	7	40	L	15	ORD	2915	
(CONTINUED FROM PREVIOUS PAGE)															
NEW MEMPHIS S, CLINTON, WASHINGTON, 1S, 5W	SILURIAN	2000 1952	20	0,0	0,7	2	0	0	0	41	L	25	ORD	2914	
(CONTINUED FROM PREVIOUS PAGE)															
NEWTON, JASPER, 6N, 9E		2950 1944	50	1,0	111,1	6	0	0	1	37	L	6	MC	MIS	3040
(CONTINUED FROM PREVIOUS PAGE)															
NEWTON N, JASPER, 7N, 10E															

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- OF TH DISC- (FT) QUERY	AREA PRU- YEU IN	PRODUCTION M BBLs			NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE			DEEPEST TEST TH (FT)
				TO ING	TO END OF 1979	8,8 ABU 1960,REV	CUM- TO 1979	CU- ETEO 1979	AR- AND 1979	PRO- UCING YEAR	SUL- FUR API	PERL- GR	KIND OF ROCK	THI- CKN- ESS	SIR- UCT- UME		
(CONTINUED FROM PREVIOUS PAGE)																	
NEWTON N, JASPER, 7N, 10E	MCCLUSKY, MIS	2855 1945	100 ARU 1948,REV	0,5 1960,ABU	8,8 1964,REV	7	0	0	1	37	L	5	MC	MIS	2968		
NEWTON W, JASPER, 6-7N, 9E	SPAR MTN, MIS MCCLUSKY, MIS	1947 2912 1962 3000 1947	550 450 #	3,2 315,0		35	0	0	10		L	5		MIS	3425		
			ABU 1947,REV	1452,ARU	1953,REV	29	0	0	38		L	7	MC				
NOBLE W, CLAY, 3N, 8E	MCCLUSKY, MIS SALEM, MIS ULLIN, MIS	3035 1951 3646 1979 3695 1979	20 20 10 10	1,5 10,8		2	1	0	1		L	8		MIS	3712		
			ARU 1959			2	1	0	36		L	13					
NORRIS CITY W, WHITE, 6S, 8E	ULLIN, MIS	4204 1978	10	0,2	1,4	1	0	0	1		L	14		MIS	4460		
*OAKDALE, JEFFERSON, 2S, 4E	AUX VASES, MIS MCCLUSKY, MIS	1956 2860 1956 2985 1956	450 370 90	2,6 875,4		34	0	0	4		S	35		MIS	3783		
						26	0	0	38		L	5					
*OAKDALE N, JEFFERSON, 2S, 4E	MCCLUSKY, MIS	2932 1960	170	3,7	684,0	13	0	0	6	37	OL	5		MIS	3630		
OAKLEY, MACON, 16N, 3E	CEVAH VALLEY, OEV	2285 1954	170 ABU 1965,REV	0,0 1974	22,9	10	0	0	1	37	L	5		OEV	2335		
*OAK POINT, CLARK, JASPER, 8-9N, 14W	ISABEL, PEN AUX VASES, MIS CAMPER, MIS	1952 560 1955 1185 1955 2220 1952	780 10 680 90	4,2 572,9		63	0	0	29		S	10	M	OEV	2691		
						1	0	0	37		S	17	ML				
						55	0	0			S	x	ML				
OAK POINT W, CLARK, CUMBERLAND, 9N, 11E, 14W	AUX VASES, MIS	1190 1955	120	0,1	18,1	10	0	0	6	35	S	8		MIS	1560		
OCONEE, SHELBY, 10N, 1E	LINGLE, OEV	2850 1975	70	1,7	22,4	4	0	0	3		S	6		OEV	3139		
*OOLIN, MARION, 2N, 1-2E	CYPRESS, MIS BENOIST, MIS MCCLUSKY, MIS	1945 1750 1945 1912 1963 2085 1957	350 340 10 30	3,3 1874,1		34	0	0	25		S	13	A	OEV	3597		
						30	0	0	37		S	3	AL				
						1	0	0	37		L	12	A				
OKAWVILLE, WASHINGTON, 1S, 4W	SILURIAN	2325 1951	50 ABU 1969	0,0	63,3	4	0	0	0	40	L	3	R	SIL	2603		
OKAWVILLE NC, WASHINGTON, 1S, 4W	DEV-SIL	2200 1955	220	4,9	178,2	17	0	0	11	40	L			ORO	3070		
*OLD RIPLEY, BONO, 5N, 4W	PENNSYLVANIAN AUX VASES, MIS	1954 600 1954 941 1964	890 880 10	10,3 553,6		87	1	0	65		S	17	A	OEV	2221		
						86	1	0	34		S	19					
						1	0	0	36		S						
OLD RIPLEY N, BONO, 5N, 4W	MARION, OEV	1991 1962	20 ABU 1966	0,0	3,0	1	0	0	0	35	S	1		OEV	2040		
*OLNEY C, HIGHLAND, JASPER, 4-5N, 10		1938	3940	33,8	8402,2	230	0	3	29		A			MIS	4030		

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISCOVERY	AREA PRODUCED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST (FT)
				1979	END OF 1979	COMPLETED TO END OF 1979	CO-PRODUCED TO END OF 1979	ABANDONED TO END OF 1979	PRODUCTION TO END OF YEAR	GR. API	SULFUR PERCENT	KIN. OF ROCK	TI. OF CKN.	STR. UCT.	
(CONTINUED FROM PREVIOUS PAGE)															
*OLNEY C, RICHLAND, JASPER, 4-5N, 10															
AUX VASES, MIS	2918 1960		90			6	0	0		37		S	X	A	
OMARA, MIS	3005 1943		3870			15	0	0		37	0,19	L		6	A
SPAR MTN, MIS	3050 1946		#			77	0	2		37	0,19	L		5	A
MCCLOSKEY, MIS	3100 1938		#			140	0	1		37	0,19	L		6	A
*OLNEY S, RICHLAND, 3N, 10E															
OMARA, MIS	3142 1962	1937	1020	4,9	1085,8	61	1	0		17				M	DEV 4910
SPAR MTN, MIS	3100		1020			1	0	0						L	4
MCCLOSKEY, MIS	3115		#			38	0	0		36				L	4
			#			36	1	0		37				L	3
*OMAHA W, GALLATIN, 7-8S, 8E															
JAKE CREEK, PENNSYLVANIAN	385 1940		1760	93,1	6262,4	161	1	2		85				U	DEV 5320
BIEMEL, PEN	1335 1948		#			6	1	0						S	20
PALESTINE, MIS	1700 1940		410			27	0	0		26	0,24	S		S	10
TAR SPRINGS, MIS	1900		170			9	0	0		27		S		S	10
HANDSINGBURG, MIS	2179 1961		80			6	0	0		29		S		S	15
CYPRESS, MIS	2402 1959		150			12	0	0		35		S		S	15
PAINT CREEK, MIS	2450 1961		40			1	0	0		37		S		S	18
BETHEL, MIS	2570 1955		#			3	0	0		35		S		S	12
AUX VASES, MIS	2730 1955		890			67	0	2		40		S		S	10
OMARA, MIS	2734 1958		350			18	0	0		39		L		S	14
SPAR MTN, MIS	2722 1958		#			5	0	0				S		S	20
MCCLOSKEY, MIS	2800 1961		#			6	0	0				L	X	U	14
*OMAHA E, GALLATIN, 8S, 8E															
CYPRESS, MIS	2530 1957	1946	130	0,0	61,2	11	0	0		1		S		M	MIS 3007
AUX VASES, MIS	2790		30			3	0	0		41		S		S	6
OMARA, MIS	2855 1946		10			1	0	0		38		S	X	M	
SPAR MTN, MIS	2942 1960		90			3	0	0		37		L		MCF	8
MCCLOSKEY, MIS	2884 1958		#			1	0	0				L		MCF	9
			#			3	0	0		38		L		MCF	10
*OMAHA S, GALLATIN, SALINE, 8S, 7-8E															
CYPRESS, MIS	2535 1953	1951	140	0,0	94,3	9	0	1		1		S		N	MIS 3035
AUX VASES, MIS	2870 1955		40			5	0	1		36		S		NL	15
SPAR MTN, MIS	2845 1951		40			3	0	0		38		S		N	11
			10			1	0	0		37		L		NC	1
*OMAHA W, SALINE, GALLATIN, 7-8S, 7-8E															
CYPRESS, MIS	2600 1950	1950	160	8,4	433,1	14	0	0		12		S		A	MIS 3025
SAMPLE, MIS	2600 1967		70			6	0	0		38		S		AL	14
AUX VASES, MIS	2600 1950		80			6	0	0		38		S		AL	12
MCCLOSKEY, MIS	2910		20			2	0	0		37		S		AL	30
			10			1	0	0		38		L		AC	8
*OMEGA, MARION, 3N, 8E															
BENDIST, MIS	2280 1963	1946	80	1,1	26,5	7	1	1		1		S			MIS 3160
MCCLOSKEY, MIS	2490 1946		10			1	0	0		38		S			3
SALEM, MIS	2742 1979		70			5	0	1		38		L		0	10
			10			1	1	0				L			4
*OPUYKE, JEFFERSON, 3S, 4E															
OMARA, MIS	3016 1962	1961	50	0,8	8,0	3	1	0		1					MIS 3175
MCCLOSKEY, MIS	3074 1961		50			1	0	0				L			8
			#			3	1	0		37		OL			20
*ORCHAROVILLE, WAYNE, 1N, 5E															
SAMPLE, MIS	2655 1958	1950	220	22,4	411,5	19	2	0		11		S		A	MIS 4000
AUX VASES, MIS	2800 1951		10			1	0	0		36		S		A	
OMARA, MIS	2880		200			14	1	0		36		S		AL	16
MCCLOSKEY, MIS	2905 1950		70			3	1	0		37		L		AC	3
			#			5	1	0				L		AC	5
*ORCHAROVILLE N, WAYNE, 1N, 5E															
PAINT CREEK, MIS	2655 1956	1956	20	0,1	24,7	2	0	0		1		S			DEV 4884
AUX VASES, MIS	2780 1971		10			1	0	0				S			6
			10			1	0	0				S			4

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR OF DISC- OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE			DEEPEST TEST ZONE (FT)
				1979	TO END OF 1979	COM- PLETED TO END OF 1979	CO- MPL- ETED IN 1979	AS- AND- ONED 1979	PROO- UCING END OF YEAR	SUL- FUR- PERC- ENT	KIND UP ROCK	THI- CKN- ESS	STR- UCT- URE		
*ORIENT, FRANKLIN, 73, 2E															
AUX VASES, MIS		2660 1965	40	3,7	196,8	4	0	0	4	38	8	24	MIS	2650	
ORIENT N, FRANKLIN, 73, 2E															
AUX VASES		2680 1967	10 ARD 1972	0,0	0,3	1	0	0	0	38	8	4	MIS	3049	
*OSKALOOSA, CLAY, 3-4N, 5E															
BENDIST, MIS		2595 1950	490	3,8	2623,9	44	0	0	9				A	OEV	4510
AUX VASES, MIS		2643 1958	450			40	0	0	37		3	15	A		
MCCLOSKEY, MIS		2755 1957	150			11	0	0	37		3	4	A		
			280			14	0	0	36		L	4	A		
*OSKALOOSA E, CLAY, 3N, 5-6E															
AUX VASES, MIS		2820 1947	30	0,0	35,2	2	0	0	0				A	MIS	3397
MCCLOSKEY, MIS		2895 1951	20		7,0	1	0	0	37		3	5	AL		
			10		28,0	1	0	0	33		L	4	AC		
			ARD 1954												
OSKALOOSA S, CLAY, 3N, 5E															
STE GENEVIEVE, MIS		2770 1951	130	0,4	89,9	11	0	0	5	35	L	4	AC	OHV	5848
*PANA, CHRISTIAN, 11-12N, 1E															
BENDIST, MIS		1470 1951	140	20,3	152,8	12	7	U	10	37	S	8		OEV	2847
PANA CEN, CHRISTIAN, 11N, 1E															
BENDIST, MIS		1528 1978	50	5,9	6,8	4	1	U	4		S	5		MIS	1661
PANA S, CHRISTIAN, 11N, 1E															
DEVONIAN		2881 1974	130	0,0	0,1	6	0	U	3		L	5		OEV	2929
PANAMA +, BOND, MONTGOMERY, 7N, 3-4W															
GOLCUNJA, MIS		705 1940	60	0,3	23,2	6	0	0	1				A	ORV	2950
BENDIST, MIS		865	40			4	0	0	31		L	12	A		
			30			3	0	0	28		S	12	A		
PANKEYVILLE, SALINE, 9S, 6E															
CYPRESS, MIS		2250 1956	30	0,0	6,1	2	0	0	0					MIS	2742
AUX VASES, MIS		2511 1961	20		6,1	2	0	0	37		S	4			
			10			1	0	U	38		S	22			
			ARD 1957, REV 1961, ARD 1961												
PANKEYVILLE E, SALINE, 9S, 7E															
CYPRESS, MIS		2250 1956	10	0,0	0,0	1	0	0	0					MIS	2604
PAINT CREEK, MIS		2360 1956	10			1	0	0	37		S	4			
			10			1	0	0	36		S	13			
			ARD 1957												
*PARKERSBURG C, RICHLAND, EDWARDS, 1-3N, 10-11E, 14W															
PENNSYLVANIAN		2100 1941	5360	18,7	11158,0	331	4	2	70				A	OEV	5128
WALTERSBURG, MIS		2430 1967	1000			1	0	0	36		S	18			
TAN SPRINGS, MIS		2440 1967	150			12	0	0	39		S	10	A		
CYPRESS, MIS		2630 1942	10			1	0	U	36		S	2	A		
BETHMEL, MIS		2930 1942	200			12	1	0	36		S	12	A		
AUX VASES, MIS		3070	310			21	1	0	35		S	12	A		
OHARA, MIS		3100	20			2	0	0	37		S	20	A		
SPAR MTN, MIS		3150 1945	4770			7	0	0	36	0,34	L	10	A		
MCCLOSKEY, MIS		3175 1941	#			57	0	2	36	0,31	OL	10	A		
SALEM, MIS		3796 1978	#			206	1	1	36		L	4			
ULLIN, MIS		3906 1978	40			4	3	0			L	4			
			10			1	0	0			L	4			
PARKERSBURG S, EDWARDS, 1N, 14W															
PENNSYLVANIAN		1400 1948	100	2,4	104,0	9	0	0	3					MIS	3695
CYPRESS		2750 1954	70			6	0	0	35		S	10			
BETHMEL, MIS		2815 1948	10			1	0	0	36		S	4			
			20			3	0	0	35		S	5			
PARKERSBURG W, RICHLAND, EDWARDS, 2N, 10E															
		1943	320	0,0	237,0	19	0	0	0				A	MIS	3780

(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 OISC- (FT) OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE			DEEPEST TEST DEP- TH (FT)
				OUR- ING 1979	TO END OF 1979	COMP- LETED END OF 1979	CO- MPL- ETED AND 1979	AB- AND 1979	PROD- UCING END OF YEAR	SUL- FUR PERC- ENT	KIND OF ROCK	THI- MI- LESS	STR- UCT- UME	ZONE	
PARKERSBURG W, RICHLAND, EDWARDS, 2N, 10E (CONTINUED FROM PREVIOUS PAGE)															
	OHARA, MIS	3220 1945	320			2	0	0							
	MCCLOSKEY, MIS	3260 1943	#			17	0	0	38			L	5	AC	
													L	6	AC
PANNELL, DEWITT, 21N, 4E															
		1963	610	8.0	210.9	39	0	0	38						TRN 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	10.4	3410.5	65	0	0	16					A	MIS 3031
	AUX VASES, MIS	2924 1964	20			5	0	0	36			S	6	A	
	SPAR MTN, MIS	3005 1945	970			2	0	0	38			L	5	AC	
	MCCLOSKEY, MIS	3020	#			59	0	0	37			L	10	A	
PASSPORT N, RICHLAND, 5N, 9E															
	AUX VASES, MIS	2940 1959	60	1.6	73.8	5	0	0	2	36		S	10		MIS 3564
*PASSPORT S, RICHLAND, CLAY, 4N, 8-9E															
		1948	130	0.0	171.9	11	0	0	1					A	MIS 3692
	TAR SPRINGS, MIS	2360 1962	10			1	0	0	37			S	9		
	CYPRESS, MIS	2065 1948	80			7	0	0	39			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	
	MCCLOSKEY, MIS	3030	#			2	0	0	38			L	8	AC	
PASSPORT W, CLAY, 4N, 8E															
	STE. GEN, MIS	3030 1954	150	0.0	69.4	11	0	0	0	37		L	5	AC	MIS 3570
*PATOKA, MARION, CLINTON, 3-4N, 1E, 1W															
		1937	1560	25.0	14723.8	202	0	0	105						ORD 4056
	CYPRESS, MIS	1280	60			8	0	0	39			S	10	U	
	BENDIST, MIS	1410 1937	1000			180	0	0	37	0.16		S	27	U	
	AUX VASES, MIS	1459 1970	40			3	0	0				S	13		
	SPAR MTN, MIS	1550	510			15	0	0	39	0.31		S	9	U	
	GENEVA, DEV	2035 1943	30			3	0	0	40	0.26		D	10	U	
	TRENTON, OH	3950 1956	630			34	0	0	42			L	25	U	
*PATOKA E, MARION, 4N, 1E															
		1941	570	46.3	5776.2	65	0	1	35						ORD 4178
	CYPRESS, MIS	1340 1941	570			55	0	1	36	0.18		S	16	U	
	BENDIST, MIS	1465	50			5	0	0	36	0.23		S	10	U	
	MCCLOSKEY, MIS	1635 1953	40			3	0	0	34			L	8	U	
	GENEVA, DEV	2950 1952	20			2	0	0	35			D	30	R	
*PATOKA S, MARION, 3N, 1E															
		1953	1060	38.4	2501.7	88	2	0	68					A	ORD 4041
	CYPRESS, MIS	1350 1953	830			63	0	0	36			S	10	A	
	BENDIST, MIS	1461 1959	230			20	0	0	37			S	15	A	
	SPAR MTN, MIS	1624 1959	50			2	0	0				S	5	A	
	DEVONIAN	2976 1979	40			1	1	0				L	10		
	TRENTON, OH	3990 1973	200			6	2	0	43			L	18		
PATOKA W, FAYETTE, 4N, 1W															
	BENDIST, MIS	1380 1950	200	0.0	303.6	20	0	0	0	32		S	6	A	MIS 1735
*PHILLIPSTOWN C, WHITE, EDWARDS, 3-5E, 10-11E, 14W															
		1939	7320	610.7	31130.4	684	21	10	337					A	DEV 5350
	ANVIL ROCK, PEN	795 1943	1840			1	0	0	36			S	10	AF	
	CLARK-BROGPT, PEN	1350	#			14	0	0	36			S	10	AF	
	PENNSYLVANIAN	1450	#			17	3	1	36			S	10	AF	
	BIZEL, PEN	1875	#	1550		#	0	0	33	26	0	S	0		30
	KINKAIO, MIS	1954 1961	10			86	0	0		0.22		S	15	AF	
	DEVONIA, MIS	1975 1943	810			1	0	0				S	17	AF	
	CLORE, MIS	2010 1942	170			66	1	3	38			S	15	AF	
	PALESTINE, MIS	2050 1942	140			16	0	0	34			S	12	AF	
	WALTERSBURG, MIS	2280 1943	200			14	0	0	32			S	11	AF	
	TAR SPRINGS, MIS	2295 1943	1410			25	0	4	34			S	11	AF	
	CYPRESS, MIS	2720 1943	620			114	2	3	35			S	15	AF	
	PAINT CREEK, MIS	2780 1944	1580			53	4	1	36			S	12	AF	
	BETHEL, MIS	2810 1943	#			7	0	0	37			S	9	AF	
						113	0	0	36			S	15	AF	

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

WELL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART I)	PAY ZONE	YEAR	AREA PRO- VDU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE		DEEPEST TEST (FT)
				1979	TO END OF 1979	COM- PLETED IN 1979	CO- MPL- IN 1979	AB- AND- ONED IN 1979	PROD- UCTING YEAR	GR. API	MUL- PUR- ENT	KIND OF ROCK	THI- CK- NESS	
*PHILLIPSTOWN C, WHITE, EDWARDS, 3-5S, 10-11E, 14W (CONTINUED FROM PREVIOUS PAGE)														
AUX VASES, MIS		2880 1939	1220			94	7	1		37		3	15	AF
OMARA, MIS		3010 1943	2210			32	3	0		36		L	10	ACF
SPAR MTN, MIS		2960	#			40	3	1		38	0.21	L6	10	ACF
MCCLOSKEY, MIS		3000 1939	#			78	3	0		34	0.21	L	6	ACF
ST LOUIS, MTS		3120 1976	20			2	1	0				L	20	
SALEM, MIS		3798 1978	10			1	0	0				L	8	
PINKSTAFF, LAWRENCE, 4N, 11W														
MCCLOSKEY, MIS		1735 1951	10 ARD 1951	0.0	0.1	1	0	0		0 37		L	4	MIS 2290
PINKSTAFF E, LAWRENCE, 4N, 11W														
STE GEN, MIS		1640 1955	130 ARD 1961, REV 1975	2.6	X	9	0	0		7 35		L	6	MIS 2250
PITTSBURG N +, WILLIAMSON, 8S, 3E														
BETMEL, MIS		1964 2459 1972	40 10	4.1	74.9	4	0	0		3				MIS 3070
AUX VASES, MIS		2578 1964	30			3	0	0				S	8	
PIXLEY, CLAY, 4N, 8E														
CYPRESS, MIS		2680 1959	20 ARD 1960	0.0	0.0	2	0	0		0 35		S	9	MIS 3121
PLAINVIEW +, MACCUPIN, 9N, 8W														
PENNSYLVANIAN		410 1942	10	0.0	2.0	1	0	0		0 34		S	5	PEN 563
PLAINVIEW S, MACCUPIN, 8N, 8W														
PENNSYLVANIAN		444 1959	10 ARD 1962	0.0	X	1	0	0		0 34		S	8	PEN 642
POSEN, WASHINGTON, 3S, 2W														
TRENTON, ORD		3900 1952	50	2.0	117.6	4	0	0		1 37		L	25	A ORD 3954
POSEN N, WASHINGTON, 3S, 2W														
TRENTON, ORD		4015 1953	10 ARD 1959	0.0	3.9	1	0	0		0 37		L	15	AC ORD 4112
POSEN S, WASHINGTON, 3S, 2W														
BENOIST, MIS		1255 1955	50 ARD 1959	0.0	X	4	0	0		0 34		S	7	MIS 1300
POSEY, CLINTON, 1N, 2W														
CYPRESS, MIS		1941 1105 1941	330 320	9.6	523.1	30	0	0		26				M SIL 2798
DEVONIAN		2675 1959	10			29	0	0		36	0.18	S	5	M
POSEY E, CLINTON, 1N, 2W														
DEV-SIL		2740 1952	470	13.9	669.1	27	0	0		23 38		L	8	DEV 2805
POSEY W, CLINTON, 1N, 3W														
DEVONIAN		2585 1954	20 ARD 1954, REV 1977	0.6	2.3	2	0	0		1 37		L	15	SIL 2670
PRENTICE +, MORGAN, 16N, 8W														
PENNSYLVANIAN		270 1953	30	0.0	0.0	3	0	0		0 30		S	10	ORD 1513
PYRAMID, WASHINGTON, 2S, 1W														
DEVONIAN		3109 1962	100	0.0	44.1	6	0	0		1 36		8	6	DEV 3255
*RACCOON LAKE, MARION, 1N, 1E														
CYPRESS, MIS		1949 1625 1949	380 240	6.7	3432.1	47	0	0		13				SIL 3530
BENOIST, MIS		1715 1957	20			18	0	0		34		S	10	U
OMARA, MIS		1885 1949	190			2	0	0		37		S	15	DL
SPAR MTN, MIS		1930 1949	#			1	0	0				L	5	UC
MCCLOSKEY, MIS		1950 1949	#			11	0	0		36		S	12	UC
						13	0	0		36		L	10	UC

(CONTINUED ON NEXT PAGE)

ILLINOIS GEOLOGICAL SURVEY LIBRARY JUN 11 1981

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OEP- OF TH UISC- (FT) OVERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTEN OF OIL			PAY ZONE		DEEPEST TEST
				1979	TO ING END OF 1979	COM- LETO TO 1979	CO- MPL- IN 1979	AS- ANO- ONED 1979	PROO- UCING END OF YEAR	GR, API	SUL- PERC- ENT	KINU OF RUCK	THI- CKN- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)
(CONTINUED FROM PREVIOUS PAGE)																
*RACLOON LAKE, MARION, 1N, 1E	DEV-SIL	3330 1951	270			15	0	0		40	0	10	R			
*RALEIGH, SALINE, 7-8S, 6E		1953	630	4.3	2256.0	59	0	0		11					A	OEV 5511
TAR SPRINGS, MIS		2235 1954	20			2	0	0		35	8	20	A			
CYPRESS, MIS		2550 1953	450			39	0	0		34	8	12	A			
PAINT CREEK, MIS		2738 1958	17			1	0	0		34	8	5	A			
AUX VASES, MIS		2905 1953	100			11	0	0		38	8	5	A			
OMARA, MIS		3054 1959	57			1	0	0			L	3	A			
SPAR MTN, MIS		3025 1957	#			2	0	0		38	L5	10	A			
MCCLOSKEY, MIS		3045 1974	#			1	0	0			OL	4				
*RALEIGH 3 +, SALINE, 8S, 5-6E		1955	400	14.2	1427.7	35	1	0		12					MIS	3455
WALTERSBURG, MIS		2046 1959	60			4	0	0		39	8	10				
BETHEL, MIS		2739 1958	10			1	0	0		37	8	8				
AUX VASES, MIS		2860 1955	320			32	1	0		40	8	16				
MCCLOSKEY, MIS		2960 1974	10			1	0	0			OL	13				
RAYMOND, MONTGOMERY, 10N, 4-5W	POTTSVILLE, PEN	590 1940	60	0.5	31.6	10	0	0		3	35	0.22	8	10	ML	OEV 2049
*RAYMOND E, MONTGOMERY, 10N, 4W	PENNSYLVANIAN	595 1951	60	0.7	32.5	5	0	0		2	34		8	10		MIS 1008
RAYMOND S, MONTGOMERY, 10N, 4W	UNNAMEU, PEN	605 1959	10	0.0	0.0	1	0	0		0	34		8	6		PEN 680
			ARD 1959													
*RESERVOIR, JEFFERSON, 1S, 3E		1950	330	5.0	600.7	20	0	1		7				MC	MIS	3211
SPAR MTN, MIS		2443 1959	320			2	0	0			8	7	M			
MCCLOSKEY, MIS		2700 1950	#			18	0	1		37	L	6	MC			
SALEM, MIS		3034 1961	10			1	0	0		39	L	12	M			
*RICHVIEW, WASHINGTON, 2S, 1W	CYPRESS, MIS	1500 1946	760	37.9	2991.7	84	0	4		61	39		8	12	AL	MIS 3291
RIUGWAY, 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	8	18	ML			
MCCLOSKEY, MIS		2840 1946	10		0.1	1	0	0		38	L	6	MC			
			ARD 1946, REV 1955, ARD 1956													
RIFFLE, CLAY, 4N, 6E	SPAR MTN, MIS	2735 1948	80	0.0	80.9	5	0	0		0	36		L	7	MC	MIS 2848
			ARD 1961													
RINARD, WAYNE, 2N, 7E	MCCLOSKEY, MIS	3145 1937	17	0.0	7.0	1	0	0		0	39		L	5	AC	MIS 3260
			ARD 1942													
RINARD N, WAYNE, 2N, 7E		1952	300	1.7	369.3	23	1	2		6				M	MIS	3950
OMARA, MIS		3132 1977	290			1	0	0					L	6		
SPAR MTN, MIS		3135	#			1	0	0					L	6	MC	
MCCLOSKEY, MIS		3140 1952	#			20	0	2		39	L	5	MC			
SALEM, MIS		3561 1976	10			2	1	0			L	25				
RINARD S, WAYNE, 1N, 6E	SPAR MTN, MIS	3268 1965	10	0.0	0.8	1	0	0		0	39		L	4		MIS 3347
			ARD 1964													
RITTER, RICHLAND, 3N, 10-11E	BYE, GEN, MIS	3215 1950	110	0.5	264.4	6	0	0		1	38		L	5		MIS 3925
			ARD 1960, REV 1961													
*RITTER N, RICHLAND, 3N, 11E		1951	180	0.0	161.3	11	0	0		0						MIS 3288

(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)	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE	DEEPEST TEST DEP- TH (FT)		
			AREA PRU- VEO IN ACRES	HOUR- ING 1979	TO END OF 1979	COMP- CO- LETEN TO END OF 1979	AB- AND ONED 1979	PROD- UCING END OF YEAR	SUL- FUM PERC- ENT	GR. API	KIND OF RUCK			THI- ESS	STR- UCT- URE
(CONTINUED FROM PREVIOUS PAGE)															
RITTER N, RICHLAND, 3N, 11E															
OMARA, MIS		3203	180			1	0	0		39	L	6			
SPAR MTN, MIS		3215	#			8	0	0			L	6			
MCCLOSKEY, MIS		3205	#			3	0	0			L	5			
ARU 1967															
RIVERTON S, SANGAMON, 15N, 4W															
SILURIAN		1590	40	1,0	92,4	3	0	0		3 38	0	8	SIL 1670		
HOACHES, JEFFERSON, 2S, 1E															
BENOIST, MIS		2000	260	7,6	627,8	17	4	1		4		A	DEV 3840		
OMARA, MIS		2170	10			3	0	0		38	S	X	AL		
SPAR MTN, MIS		2190	250			4	1	0		37	L	5	AC		
MCCLOSKEY, MIS		2250	#			11	3	0		37	L	12	AC		
			#			6	0	1		37	L	4	AC		
HOACHES N, JEFFERSON, 2S, 1E															
BENOIST, MIS		1944	420	3,4	1129,4	35	0	0		2		A	TRN 4996		
SPAR MTN, MIS		1925	420			32	0	0		37	S	7	A		
IRENTON		2115	60			4	0	0		34	L	8	AC		
		4852	10			1	0	0		42	L	40			
ROBY, SANGAMON, 15N, 3W															
SILURIAN		1775	370	8,6	397,3	24	1	1		14 38	L	5	MU SIL 1905		
ABU 1951, REV 1954															
ROBY E, CHRISTIAN, SANGAMON, 15N, 2-3W															
DEVONIAN		1970	1400	122,9	1304,5	91	1	1		57			SIL 1923		
SILURIAN		1757	20			2	0	0			S	2			
		1840	1310			90	1	1			L	20			
ROBY N, SANGAMON, 16N, 3W															
SILURIAN		1699	60	0,0	19,0	5	1	0		1 38	L	4	TRN 2300		
ARU 1964, REV 71, ABU 73, REV 79															
ROBY W, SANGAMON, 15N, 3W															
HUBBARD, DEV		1655	40	0,1	6,3	4	0	0		3 37	8	5	MU TRN 2259		
ARD 1963, REV 1967															
ROCHESTER ++, WABASH, 2S, 13W															
PENNSYLVANIAN		1948	390	2,6	2557,4	53	0	0		21		M	MIS 3450		
WATERSBURG, MIS		1300	230			23	0	0		32	S	16	MCF		
SALEM, MIS		1940	220			29	0	0			S	20	ML		
		3210	20			2	0	0			L	30			
ROLAND C +, WHITE, GALLATIN, 5-7S, 6-9E															
PENNSYLVANIAN		1939	11190	371,7	58430,5	986	5	2		342		A	DEV 5266		
DEVONIA, MIS		1410	30			6	0	0		36	S	10	A		
CLURE, MIS		2065	40			4	0	0		35	8	7	A		
PALESTINE, MIS		1993	90			6	0	0		36	8	4	A		
WALTERSBURG, MIS		2085	40			4	0	0		34	S	2	A		
TAR SPRINGS, MIS		2200	1870			121	0	1		31	0,25	8	15 AL		
MARIONSBURG, MIS		2300	730			50	1	0		35	S	15	AL		
GOLCUNDA, MIS		2550	1910			153	0	0		37	0,30	S	20 AL		
CYPRESS, MIS		2505	10			1	0	0		35	S	5	A		
PAINT CREEK, MIS		2700	2490			160	1	0		36	0,12	S	15 AL		
BETHEL, MIS		2800	2330			40	1	0		37	8	12	AL		
AUX VASES, MIS		2800	#			88	1	1		37	0,20	S	12 AL		
OMARA, MIS		2880	4360			271	0	0		39	0,12	8	13 AL		
SPAR MTN, MIS		3020	2530			31	2	0		36	OL	6	AC		
MCCLOSKEY, MIS		3050	#			33	2	0		38	L	6	AC		
ST. LOUIS, MIS		3070	#			111	3	0		38	0,20	L	6 AC		
SALEM, MIS		0	50			5	0	0		37	L	X	AC		
ULLIN		4089	60			6	3	0		38	L	19			
		4050	110			3	1	0		38	L	4			
ROLAND W, SALINE, 7S, 7E															
AUX VASES, MIS		2935	10	0,0	22,3	1	0	0		0 40	S	15	ML MIS 3161		
ABU 1959															
ROSE HILL, JASPER, 8N, 9E															
MCCLOSKEY, MIS		2695	10	0,0	7,3	1	0	0		0 39	L	10	MIS 3052		
ABU 1976															

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- VEU IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		OEEPEST TEST DEP- TH (FT)		
				1979	TO END OF 1979	COMP- LETEO END OF 1979	CO- MPL- IN 1979	AS- ANO- UNED 1979	PROD- UCING END OF YEAR	SUL- FUR PERC- ENT	PAY ZONE KIND OF ROCK	THI- CKN- ESS	STR- UCT- URE				
														1941		1941	1941

*RUARK, LAWRENCE, 2N, 12-13W																	
		1941	480	5.3	2650.6	54	0	0	19								
PENNSYLVANIAN		1600 1941	380			42	0	0		33		S	10	AL	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			
OHARA, MIS		2275 1954	10			1	0	0		37		L	5	AC			

*RUARK W C, LAWRENCE, 2N, 13W																	
		1947	740	17.3	1523.1	66	1	0	30						M	MIS	3112
WALTERSBURG, MIS		1780 1947	50			7	0	0		38		S	10	ML			
CYPRESS, MIS		2165 1952	10			1	0	0		35		S	9	ML			
BETHEL, MIS		2220 1948	580			45	0	0		36		S	20	ML			
OHARA, MIS		2350 1952	300			4	0	0				L	5	MC			
SPAR MTN, MIS		2390	#			2	0	0				L	5	MC			
MCCCLUSKY, MIS		2400 1950	#			19	1	0		38		L	3	MC			

*RURAL HILL N, HAMILTON, 5S, 5E																	
		1949	140	8.7	242.3	11	0	0	3						M	MIS	4450
CYPRESS, MIS		2930 1956	110			8	0	0		35		S	10	ML			
OHARA, MIS		3330 1977	20			1	0	0				L	6	AL			
SPAR MTN, MIS		3325 1949	#			1	0	0		37		L	8	MC			
ST LOUIS, MIS		3640 1977	10			1	0	0				L	7				
SALEM, MIS		3860 1976	20			1	0	0				L	35				
ULLIN, MIS		4220 1977	20			2	0	0				L	7				
			ABU 1950, REV 1956, ABD 1969, REV 1976														

KUSHVILLE, SCHUYLER, 2N, 1W																	
		743 1966	10	0.0	0.0	1	0	0	0	37		L	22		TRN	975	
			ABU 1969														

KUSHVILLE NW, SCHUYLER, 2N, 2W																	
		669 1960	30	0.0	0.5	3	0	0	0	36		L	3	AC	TRN	1038	
			ABO 1976														

RUSSELLVILLE GAS +, LAWRENCE, 4-SN, 10-11W																	
		1580 1937	40	0.2	12.8	4	0	0	2	35		L	7	AC	OEV	3133	
			ABU 1958, REV 1977														

RUSSELLVILLE W, LAWRENCE, 4N, 11W																	
		1565 1955	10	0.0	2.0	1	0	0	0	37		L	22		MIS	1646	
			ABU 1957														

*ST. FRANCISVILLE, LAWRENCE, 2N, 11W																	
		1845 1900	950	X	X	89	0	0	32	32		S	6	ML	MIS	2465	
			SEE LAWRENCE COUNTY DIVISION FOR PRODUCTION														

*ST. FRANCISVILLE E, LAWRENCE, 2N, 11W																	
		1941	450	0.3	726.0	39	0	0	17						A	MIS	1960
PENNSYLVANIAN		1260 1954	60			6	0	0		30		S	8	AL			
WALTERSBURG, MIS		1300	10			1	0	0		37		S	6	AL			
HARDINSBURG, MIS		1460 1950	40			3	0	0		35		S	6	AL			
CYPRESS, MIS		1605	60			3	0	0		36		S	15	AL			
BETHEL, MIS		1750 1941	320			25	0	0		40	0.21	S	20	A			
SPAR MTN, MIS		1622 1963	10			1	0	0		36		L	5				

*ST. JACOB, MADISON, 3N, 6W																	
		2260 1942	1050	24.9	4175.5	55	0	0	28	40	0.23	L	17	A	PC	5019	

ST. JACOB E, MADISON, 3N, 6W																	
		1955	30	2.0	3.5	3	2	0	2							ORO	2600
HARDIN, OEV		1840 1955	10			1	0	0		23		S	X	U			
TRENTON, ORD		2558 1979	20			2	2	0				L	4				
			ABU 1957, REV 1979														

*ST. JAMES, FAYETTE, 5-SN, 2-3E																	
		1938	2280	118.9	20780.4	263	0	0	139						A	OEV	3470
GOLCONDA, MIS		1555	10			1	0	0		34		L	15	A			
CYPRESS, MIS		1580 1938	1900			200	0	0		37	0.31	S	16	A			
BENOIST, MIS		1746 1959	10			1	0	0		36		S	8	A			
SPAR MTN, MIS		1860 1954	100			10	0	0		38		L	16	A			
CARPER, HTS		3070 1961	670			52	0	0		37		S	35	A			

ST. PAUL, FAYETTE, 5N, 3E																	
		1941	380	6.7	1043.9	36	0	0	19						A	OEV	3575
BENOIST, MIS		1900 1941	240			18	0	0		34	0.23	S	9	A			

(CONTINUED ON NEXT PAGE)

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF UISC- (FT) UVERY	AREA PRU- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL			PAY ZONE		DEEPEST TEST DEPTH (FT)	
				UUN- ING 1979	TO END OF 1979	COMP- LETED TO END OF 1979	CO- MPL- IN 1979	AB- ANO- ONEO 1979	PRUD- UCING END OF YEAR	SUL- FUR- PERC- ENT	KIND UP RUCK	THI- GKN- ESS	STR- UCT- UME		
				1979	1979	1979	1979	1979	1979	API	ENT	RUCK	ESS		UME
(CONTINUED FROM PREVIOUS PAGE)															
ST. PAUL, FAYETTE, 5N, 3E															
SPAR MTN, MIS		2080	10			1	0	0		36	L	6	A		
CAMPER, MIS		3288 1963	290			19	0	0		36	B	2A			
*STE. MARIE, JASPER, 5N, 10-11E, 14W															
STE. GEN, MIS		2900 1941	1210	9.7	2089.6	72	0	3		8 37	0.14	L	8	AC	MIS 3470
STE. MARIE E, JASPER, 6N, 14W															
ST. GEN, MIS		2685 1949	70	0.9	35.0	8	0	0		1 38		L	10	MC	MIS 3191
STE. MARIE W, JASPER, 5-6N, 10E															
AUX VASES, MIS		1949	410	6.1	468.3	21	0	0		12				M	MIS 3225
STE GEN, MIS		2720 1949	10			1	0	0		37	S	25	ML		
		2815 1949	410			21	0	0		40	L	6	MC		
*SAILOR SPRINGS C, CLAY, EFFINGHAM, JASPER, 3-6N, 6-8E															
TAN SPRINGS, MIS		1938	1974N	516.4	59011.4	1310	15	29		617				A	DEW 4486
GLEN DEAN, MIS		2340 1941	810			58	0	0		37	0.17	S	12	A	
JACKSON, MIS		2390 1943	10			1	0	0		38		L	8	A	
CYPRESS, MIS		2550 1942	1019N			749	3	17		38	0.28	S	12	A	
BETHEL, MIS		2740 1946	710			42	0	1		37		S	20	A	
AUX VASES, MIS		2825 1942	2710			201	9	4		37		S	13	A	
DHARA, MIS		2900 1947	8060			17	0	0		37		OL	6	A	
SPAR MTN, MIS		2900 1945	#			195	1	4		33		LS	A	A	
MCCLOSKEY, MIS		2925 1938	#			340	0	4		40		OL	8	A	
ST LOUIS, MIS		3310 1967	70			8	0	0		39		L	11	A	
SALEM, MIS		3260 1978	50			4	2	0				L	12		
SAILOR SPRINGS E, CLAY, 4N, 8E															
CYPRESS, MIS		1944	180	0.1	83.2	15	0	0		1				U	MIS 3614
MCCLUSKY, MIS		2695 1944	110			10	0	0		36		S	A	U	
SALEM, MIS		3020 1955	50			5	0	0		37		L	7	U	
		3550 1967	20			1	0	0		38		L	6		
ABU 1952, REV 1955, ABU 1956, REV 1960, ABU 1961, REV 1966															
SAILOR SPRINGS N, CLAY, 4N, 8E															
SPAR MTN, MIS		1948	80	0.0	4.8	5	0	0		0				M	MIS 3126
MCCLUSKY, MIS		2985 1948	80			3	0	0				L	2	MC	
		3030	#			4	0	0		37		L	2	MC	
ABU 49, REV 50, ABD 51, REV 55, ABU 56, REV 57, ABU 60															
*SALEM C, MARION, JEFFERSON, 1-2N, 18, 1-2E															
BENOIST, MIS		1938	13640	1978.9	370199.3	2867	0	7		1278				A	PC 9210
AUX VASES, MIS		1780 1938	10830			623	0	2		37		S	40	A	
DHARA, MIS		1825	7590			822	0	0		37	0.21	S	40	A	
SPAR MTN, MIS		2075	9550			2	0	0		37		L	3	A	
MCCLOSKEY, MIS		2100	#			151	0	3		37		LS	15	A	
ST. LOUIS, MIS		2050	#			892	0	2		35		L	17	A	
SALEM, MIS		2100	210			19	0	0		37		L	X	A	
DEVONIAN		2160 1939	1400			279	0	2		37		L	17	A	
TRENTON, OHD		3440 1939	6000			662	1	0		42	0.28	L	40	A	
		4500 1941	1920			151	0	0		37		L	50	A	
SAMSVILLE, EDWARDS, 1N, 11E															
WALTERSBURG, MIS		2420 1942	70	0.0	1.0	5	0	0		0 38		S	7	A	MIS 3303
ABU 1952, REV 1974, ABD 1977															
*SAMSVILLE N, EDWARDS, 1N, 14W															
BETHEL, MIS		2900 1945	200	0.0	259.2	16	0	0		0 38		S	6	A	MIS 4040
ABU 1976															
SAMSVILLE NW, EDWARDS, 1N, 10E															
DHARA, MIS		1955	20	0.0	4.2	2	0	0		0					MIS 4012
SPAR MTN, MIS		3190 1955	10			1	0	0		38		L	4		
		3301 1970	10			1	0	0				L	10		
ABU 1956, REV 1970, ABD 1977															
SANDOVAL, MARION, 2N, 1E															
CYPRESS, MIS		1909	500	23.7	6277.7	154	0	0		10				U	STP 5023
BENOIST, MIS		1400 1909	20			1	0	0		37		S	10	U	
GENEVA, UEV		1540 1909	480			124	0	0		35		S	20	U	
		2920	240			28	0	0		38	0.38	0	9	H	
REV 1975															

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (+ SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR DEP- TM OF UISC- UVERY	AREA PRO- VEU IN ACRES	PRODUCTION M BBLs			NUMBER OF WELLS					CHARACTER OF OIL			DEEPEST TEST DEP- TM (FT)	
				1979	TO ING END OF 1979	TO ING END OF 1979	COMP- LTED TO 1979	MPL- AR- ONE 1979	PROO- UCING END OF YEAR	SUL- FUR PERC- ENT	PAY ZONE KIND OF ROCK	STR- UCT- URE				
SANDUVAL W, CLINTON, 2N, 1W																
CYPRESS, MIS		1420 1946	10	0,0	26.3	1	0	0	0	37	3	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	8	10	A	DEV	2542	
			ABU 1947													
*SCHNELL, HIGHLAND, 2N, 9E																
		1938	190	6,9	373.2	15	0	0	9					MIS	3690	
AUX VASES, MIS		2956 1969	130			8	0	0			3	10				
SPAR MTN, MIS		3090 1974	10			1	0	0			8	15				
MCCLUSKY, MIS		3000 1938	80			7	0	0	39	0,19	OL	5	AC			
SCHNELL E, HIGHLAND, 2N, 9E																
		1954	130	15,9	16,5	9	7	0	8					MIS	3776	
SPAR MTN, MIS		3101 1978	130			5	4	U			3	5				
MCCLUSKY, MIS		3115 1954	#			5	4	0	38		L	4	AC			
			ABO 1954, REV 1978													
SCIOIA, MCDONOUGH, 7N, 3W																
UFVONIAN		519 1960	10	0,0	0,0	1	0	0	0	28	L	16		SIL	760	
			ABU 1960													
*SEMINARY, RICHLAND, 2N, 10E																
MCCLUSKY, MIS		3195 1945	120	0,0	228,4	8	0	0	0	38	L		MC	MIS	3475	
			ABU 1966													
*SELBEN C, FRANKLIN, 5-6S, 1-2E																
		1942	1680	52,9	3622,1	110	0	0	69					A	DEV	4688
CYPRESS, MIS		2455 1953	50			3	0	0	38		3	5	AL			
RENAULT, MIS		2690	340			26	0	U	37	0,17	3	10	AC			
AUX VASES, MIS		2700 1942	1260			74	0	0	38	0,17	3	10	AL			
UHAMA, MIS		2675 1951	110			2	0	U			L	8	A			
SPAR MTN, MIS		2810 1944	#			5	0	0			L	10	AC			
MCCLUSKY, MIS		2840	#			5	0	0	39		L	5	AC			
ST. LOUIS, MIS		3002 1957	10			1	0	0	37		L	20	AC			
CLEAR CREEK, DEV		4360 1949	140			9	0	0	40		L	1	AC			
SHARPSBURG, CHRISTIAN, 14N, 2W																
		1974	40	0,6	6,1	3	0	U	3					SIL	2062	
DEVONIAN		1972 1975	30			2	0	0			L	3				
STLUMTAN		1990 1974	10			1	0	0			L	3				
*SHATTUC, CLINTON, 2N, 1W																
		1945	280	7,8	808,6	36	0	0	16					A	ORO	4078
CYPRESS, MIS		1280 1945	150			15	0	U	36		3	7	AL			
BENOIST, MIS		1420 1947	80			7	0	0	35		3	13	AL			
TRENTON, ORD		4020 1948	180			15	0	0	40		L	13	A			
SHATTUC N, CLINTON, 2N, 1W																
BENOIST, MIS		1445 1961	10	0,0	2,4	1	0	0	0	36	3	7		TRN	4134	
			ABU 1964													
SHAWNEETOWN, GALLATIN, 9S, 9E																
		1945	80	0,0	16,9	6	0	0	0					M	MIS	2837
PALESTINE, MIS		1720 1955	40			2	0	0	35		3	28	M			
WALTERSBURG, MIS		1900 1955	10			1	0	0	37		3	12	M			
TAR SPRINGS, MIS		1960 1955	60			3	0	U	37		3	11	M			
CYPRESS, MIS		2375 1956	10			1	0	0	38		3	14	M			
BETHEL, MIS		2400 1968	10			1	0	U			3	1	M			
AUX VASES, MIS		2650 1945	10			1	0	0	38		3	10	MP			
			ABU 1950, REV 1955, ABU 1960, REV 1968, ABU 1969													
SHAWNEETOWN E, GALLATIN, 9S, 10E																
		1952	30	0,0	18,3	4	0	0	2					MIS	2830	
WALTERSBURG, MIS		1855 1955	10			2	0	U	37		3	10				
BETHEL, MIS		2480 1955	10			1	0	U	37		3	1				
AUX VASES, MIS		2660 1952	10			1	0	0	38		3	9				
*SHAWNEETOWN N, GALLATIN, 9S, 10E																
		1948	50	0,0	104,9	4	0	U	0					M	MIS	3131
AUX VASES, MIS		2750 1955	40			3	0	0	38		3	20	MP			
MCCLUSKY, MIS		3045 1948	10			1	0	0	36		L	6	MP			
			ABU 1953, REV 1955, ABU 1966													

TABLE 8—continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART III)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF (FT) OVERY	PRODUCTION M BBL			NUMBER OF WELLS				CHARACTER OF OIL		PAY ZONE			DEEPEST TEST
			AREA PRU- VFO ACRES	JUN- ING 1979	TO END OF 1979	COM- LETE TO 1979	CO- MPL- ANU- 1979	AR- ONED 1979	PRU- UCING YEAR	SUL- FUM API	PERC- OF GR.	KIND OF ROCK	MI- CT- URE	STR- UCT- URE	ZONE TH
*SHELBYVILLE C, SHELBY, 11N, 4E	AUX VASES, MIS	1860 1946	110	1.1	46.8	9	0	0	1	34	S	19	A	MIS	3501
SHUMWAY, EFFINGHAM, 9N, 5E	MCCLUSKY, MIS	2223 1965	10 ARU 1969	0.0	3.4	1	0	0	0	37	L	3		MIS	2273
SICILY, CHRISTIAN, 13N, 4W	SILURIAN	1860 1956	70 ARU 1967	0.0	49.4	6	0	0	0	39	L	16		SIL	1884
*SIGGINS, CUMBERLAND, CLARK, 10-11N, 10-11E, 14W		1906	4450	X	X	1127	2	8	437					TRN	3541
	1ST (UP) SIGGINS, PEN	400	4430			894	2	0		36	S	25	U		
	2ND (LO) SIGGINS, PEN	460	#			95	0	8		36	S	X	U		
	3RD, 4TH SIGGINS, PEN	580	#			209	0	0		37	S	40	U		
	TRENTON, OH	3013 1972	10			1	0	0		40	L	67			
	SEE CLARK COUNTY DIVISION FOR PRODUCTION														
SILOAM, BROWN, 2S, 4W	SILURIAN	603 1959	280	2.2	243.6	26	0	0	11	37	O	4	AC	STP	1115
*SORENTO C, BOND, 6N, 4W		1938	700	1.1	1932.5	58	0	0	5					TRN	2684
	PENNSYLVANIAN	570 1956	60			4	0	0		31	S	20	A		
	LINGLE, DEV	1875 1938	640			52	0	0		35	S	8	A		
SORENTO W, BOND, 6N, 4W	DEVONIAN	1880 1956	10 ARU 1956	0.0	0.0	1	0	0	0	37	L	X		ORD	2706
SPARTA *, HANCOCK, 4-5S, 5-6W	CYPRESS, MIS	850 1888	20 ARU 1900	0.0	X	2	0	0	0	35	S	7	U	TRN	3130
SPARTA S, HANCOCK, 5S, 5W	CYPRESS, MIS	880 1949	10 ARU 1950	0.0	0.0	1	0	0	0	35	S	8	A	MIS	909
SPRINGERTON S, WHITE, 4S, 8E		1976	760	196.3	674.2	59	3	3	53					MIS	4500
	AUX VASES, MIS	3325 1977	690			52	3	0			S	8			
	UHARA, MIS	3424 1978	90			1	0	0			L	4			
	SPAR MTN, MIS	3440 1976	#			4	0	2			S	9			
	MCCLUSKY, MIS	3494 1978	#			2	0	0			L	6			
	SALEM, MIS	4290 1977	10			1	0	0			L	5			
	ULLIN, MIS	4385 1977	20			2	0	1			L	4			
SPRINGFIELD E, SANGAMON, 15N, 4W		1960	230	0.6	330.7	22	0	0	5					SIL	1705
	HIBBARD, DEV	1625 1960	10			1	0	0		37	S	4	U		
	SILURIAN	1600 1960	220			22	0	0		39	O	12	M		
SPRING GARDEN, JEFFERSON, 4S, 3E	MCCLUSKY, MIS	3090 1977	220	120.7	244.1	13	10	0	13		OL	10		MIS	3942
*STAUNTON *, MACOUPI, 7N, 7W	PENNSYLVANIAN	515 1952	30	0.0	4.1	2	0	0	1	35	S	11	A	ORD	2371
*STAUNTON W, MACOUPI, 7N, 7W	PENNSYLVANIAN	505 1954	260	5.4	128.4	27	0	0	16	35	S	10		SIL	1512
*STEWARTSON, SHELBY, 10N, 5E		1939	330	15.0	946.1	28	0	0	23					DEV	3414
	AUX VASES, MIS	1945 1939	330			27	0	0		38	0.18	S	9	A	
	SPAR MTN, MIS	2021 1958	70			5	0	0		37	S	4	A		

TABLE 8--continued

TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- OF TM OVERY	AREA PRU- VED ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL			PAY ZONE	DEEPEST TEST UET- TM (FT)	
				TO ING 1979	TO END OF 1979	COMP- LETED TO END OF 1979	CO- AB- ETED IN 1979	AB- AND UNED END OF YEAR	PROD- UCING YEAR	GR. API	SUL- FUR PERC- ENT	KINU OF RUCK	TM- CKN- L&S			STR- UCT- URE
STEWARUSON E, SHELBY, 9-10N, 6E																
AUX VASES, MIS		1963	30	0,6	20,1	3	0	0		2					MIS	2280
SPAR MTN, MIS		1963	10			1	0	0		36			8	6		
		1963	30			3	0	0		37			8	6		
STEWARUSON W, SHELBY, 10N-5E																
BENDIST, MIS		1920 1970	10	0,0	0,0	1	0	0		0			8	5	MIS	2102
			ARU 1971													
STIRITZ, WILLIAMSON, 8S, 2E																
BETHEL, MIS		2470 1976	110	13,3	184,6	7	0	0		5					MIS	2756
AUX VASES, MIS		2525 1971	40			2	0	0					8	4		
			70			5	0	0					8	6		
*STORMS C +, WHITE, 5-6S, 9-10E																
PENNSYLVANIAN		1320 1939	4700	211,0	21106,2	437	1	4		167				AM	DEV	5308
BIHEL, PEN		1840 1951	340			10	0	1					10	A		
UEGONIA, MIS		2090 1954	#			16	0	0					8	4	AF	
CLURE, MIS		2100 1954	180			13	0	0					8	7	AL	
PALESTINE, MIS		2150 1941	250			30	0	0					8	10	AL	
WALTERSBURG, MIS		2230 1939	70			6	0	0					8	12	AL	
TAM SPRING, MIS		2340 1946	2720			248	2	0			0,28		8	15	AL	
HARDINSBURG, MIS		2476 1959	300			28	0	1					8	10	MF	
CYPRESS, MIS		2700 1946	20			2	0	0					8	9	MF	
BETHEL, MIS		2810	330			22	0	2					8	10	MF	
RENAULT, MIS		2990	40			4	0	0					8	X	MF	
AUX VASES, MIS		3000 1946	20			2	0	0					L	5	A	
UMARA, MIS		3095	1020			76	0	0					8	13	AF	
SPAR MTN, MIS		3115 1950	290			9	0	0					L	10	AC	
MCCLUSKY, MIS		3055	#			9	0	1					L	2	AC	
SALEM, MIS		3738 1966	10			1	0	0					L	5	MC	
													L	6		
*STRINGTOWN, RICHLAND, 4-5N, 11E, 14W																
STE. GEN, MIS		3025 1941	550	0,0	1608,6	37	0	0		U 40	0,24	DL	8	AC	MIS	3651
			ARU 1975													
STRINGTOWN E, RICHLAND, 4N, 14W																
MCCLUSKY, MIS		3010 1948	10	0,0	2,0	1	0	0		0 37		L	8		MIS	3175
			ARU 1950													
STRINGTOWN S, RICHLAND, 4N-14W																
SPAR MTN, MIS		3117 1970	30	0,0	0,2	3	0	0		0		S	8		MIS	3186
			ARU 1976													
STURBLEFIELD S +, DOND, 4N, 3W																
PENNSYLVANIAN		540 1974	130	22,1	51,6	10	2	0		8					DEV	2455
CYPRESS, MIS		485 1955	40			3	0	0					8	15		
UEVONIAN		2185 1963	10			1	0	0		35			8	8		
			80			6	2	0		37			L	8		
			ARU 1956, REV 1963, ARU 1965, REV 1974													
SUMNER, LAWRENCE, 4N, 13W																
MCCLUSKY, MIS		2260 1944	20	0,2	15,9	2	0	0		1 39		L	4	MC	MIS	2365
			ARU 1953, REV 1979													
SUMNER DEN, LAWRENCE, 4N, 13W																
SPAR MTN, MIS		2544 1966	10	0,0	0,0	1	0	0		0 37		L	5		MIS	3100
			ARU 1968													
SUMNER S +, LAWRENCE, 3N, 13W																
AUX VASES, MIS		2620 1964	60	0,0	0,0	4	0	0		0 36		S	8		MIS	2990
			ARU 1969													
SUMPTER, WHITE, 4S, 9E																
DEGONIA, MIS		2140 1975	360	10,2	421,7	25	0	0		13				A	ORD	7652
CLURE, MIS		2195 1975	10			1	0	0					8	5		
TAM SPRING, MIS		2575 1945	10			1	0	0					8	5		
HARDINSBURG, MIS		2655 1951	280			19	0	0		37			8	18	AF	
CYPRESS, MIS		2860 1948	10			1	0	0		36			8	14	AF	
UMARA, MIS		3222 1960	70			5	0	0		37			8	15	AF	
			10			1	0	0		36			L	6	A	
*SUMPTER E, WHITE, 4-5S, 10E																
CYPRESS, MIS		2795 1951	1610	67,2	2820,1	98	0	2		35				A	MIS	4204
(CONTINUED ON NEXT PAGE)			220			18	0	0		37			8	16	AL	

TABLE 8-continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DIS- COVERY	PRODUCTION M BLS		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST		
			ANFA PRO- VED IN ACRES	DUR- ING 1979	TO END OF 1979	CUM- LETED TO END OF 1979	CU- PLE- TIED IN 1979	AB- AND- ONED 1979	PRO- DUCING END OF YEAR	SUL- FUM PERC- ENT	KIND OF RUCR			THI- CK- NESS	STR- UCT- URE
			OE P- TM (FT)	1979	1979	1979	1979	1979	1979	API	ENT			ENT	ENT
(CONTINUED FROM PREVIOUS PAGE)															
*SUMPTER E, WHITE, 4-5S, 10E															
BETMEL, MIS		2922 1960	20			2	0	0		35	S	12	A		
AUX VASES, MIS		3020 1952	420			27	0	1		39	S	15	AL		
OMARA, MIS		3115 1951	1110			44	0	1		36	L	12	AC		
SPAR MTN, MIS		3140 1952	#			18	0	0		36	L	8	AC		
MCCLOSKEY, MIS		3150	#			3	0	0		33	L	9	AC		
*SUMPTER N, WHITE, 4S, 9E															
		1952	280	7.7	684.8	20	0	0		9				OE V 5500	
AUX VASES, MIS		3185 1952	240			16	0	0		37	S	3	NL		
MCCLOSKEY, MIS		3312 1974	10			1	0	0			OL	4			
ULLIN, MIS		4230 1975	30			3	0	0			L	30			
*SUMPTER S, WHITE, 4-5S, 9E															
		1948	250	17.1	923.1	29	0	0		8				AF MIS 3430	
TAR SPRINGS, MIS		2580 1948	120			13	0	0		34	S	8	AF		
BETMEL, MIS		3025	10			1	0	0		35	S	15	AF		
AUX VASES, MIS		3260	210			16	0	0		37	S	10	AF		
SUMPTER W, WHITE, 4S, 9E															
AUX VASES, MIS		3165 1952	20	0.1	24.7	2	0	0		1 37	S	5	NL	MIS 3409	
			ABU 1964		REV 1969										
TAMAROA, PERRY, 4S, 1W															
		1942	340	4.7	449.1	22	0	0		9				TRN 4287	
CYPRESS, MIS		1120 1942	230			17	0	0		30	0.12	S	13	AL	
TRENTON, OND		4135 1964	110			6	0	0		38	L	40			
*TAMAROA S, PERRY, 4S, 1W															
CYPRESS, MIS		1155 1957	250	6.4	327.4	20	0	0		12 28	S	7		MIS 1385	
TAMAROA W, PERRY, 4S, 2W															
CYPRESS, MIS		1100 1956	20	0.0	2.5	3	0	0		1 34	S	5		OE V 2402	
TAYLOR HILL, FRANKLIN, 5S, 4E															
		1949	170	24.7	140.5	15	5	1		9				MIS 4093	
OMARA, MIS		3055 1949	70			4	2	0		37	L	4			
SALEM, MIS		3635 1979	10			1	1	0			L	6			
ULLIN, MIS		3940 1961	150			9	2	1		38	L	15			
			ARD 1968, REV 1977												
TEUTOPULIS, EFFINGHAM, 8N, 4E															
		1966	170	8.9	143.1	11	0	1		9				MIS 2845	
SPAR MTN, MIS		2402 1966	160			11	0	1			L	5			
MCCLOSKEY, MIS		2530 1967	#			1	0	0		38	OL	4			
ST LOUIS, MIS		2570 1967	40			3	0	0		39	L	4			
TEUTOPULIS S, EFFINGHAM, 8N, 6E															
		1968	50	0.2	19.8	3	0	0		2				MIS 2950	
SPAR MTN, MIS		2477 1968	50			2	0	0			S	4			
MCCLOSKEY, MIS		2535 1968	#			2	0	0			OL	5			
*THACKERAY, HAMILTON, 5S, 7E															
		1944	830	21.5	4397.4	75	0	1		29				OE V 5611	
CYPRESS, MIS		3030	20			2	0	1		36	S	24	A		
AUX VASES, MIS		3360 1944	760			68	0	0		37	S	15	AL		
OMARA, MIS		3435 1946	120			1	0	0			L	5	AC		
MCCLOSKEY, MIS		3500 1946	#			6	0	0		37	L	10	AC		
THOMPSONVILLE, FRANKLIN, 7S, 4E															
		1940	380	4.0	395.1	37	0	0		12				OE V 5400	
OMARA, MIS		3110 1967	310			7	0	0			L	4			
SPAR MTN, MIS		3190 1967	#			1	0	0			LS	4			
MCCLOSKEY, MIS		3200 1940	#			19	0	0		38	0.16	L	10	A	
ST LOUIS, MIS		3450 1967	80			10	0	0		39	L	10			
			ABU 1967, REV 1967												
*THOMPSONVILLE E, FRANKLIN, 7S, 4E															
AUX VASES, MIS		3150 1949	180	5.4	624.3	14	0	0		1 38	S	8	NL	MIS 3371	

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (+ SECONDARY RECOVERY SEE PART 11)	PAY ZONE NAME AND AGE	YEAR DEP- TH OF UISC- VERY (FT)	AREA PRO- VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS					CHARACTER OF OIL			PAY ZONE		DEEPEST TEST	
				1979	END OF 1979	COMP- LETED TO	CO- MPL- ETED IN	AS- ANO- ONED END OF YEAR	PROO- UCING END OF GR, API	BUL- FUR PERC- ENT	KIND OF ROCK	THI- CK- ESS	STR- UCT- URE	ZONE	DEP- TH (FT)		
*THOMPSONVILLE N, FRANKLIN, 73, 4E																	
		1944	870	20.7	3602.0	87	0	2	12						A	MIS	3498
	CYPRESS, MIS	2750 1948	20			1	0	0						S	10 AL		
	AUX VASES, MIS	3100 1944	860			86	0	2	35					S	20 AL		
TILDEN, RANDOLPH, 4S, 5W																	
	SILURIAN	2160 1952	610	37.0	4501.9	35	0	0	30	40				L	60 R	ORO	3093
TILDEN N, ST CLAIR, WASHINGTON, RANDOLPH, 3-48, 5-6W																	
	SILURIAN	2014 1968	500	28.4	846.3	31	0	0	32	42				L	70 W	ORO	2810
TOLIVER E, CLAY, 5N, 6-7E																	
		1943	180	14.3	271.9	14	3	0	8						M	MIS	3519
	CYPRESS, MIS	2510 1955	10			1	0	0						S	14 M		
	AUX VASES, MIS	2740 1967	90			4	2	0	36					S	4		
	SPAR MTN, MIS	2615	110			4	0	0	36					L	6 MC		
	MCCLUSKY, MIS	2840 1943	8			5	1	0	35					OL	8 MC		
TOLIVER S, CLAY, 4N, 6E																	
		1953	70	0.0	57.6	4	0	0	0						M	MIS	2915
	AUX VASES, MIS	2765 1953	10		21.0	1	0	0	36					S	MC		
	MCCLUSKY, MIS	2875 1956	60		37.0	3	0	0	34					L	5 MC		
			AND 1964														
*TUNTI, MARION, 2-3N, 2E																	
		1939	570	72.4	14149.2	107	0	0	63						U	ORO	4900
	DENOIST, MIS	1930 1939	140			18	0	0	36					S	20 U		
	AUX VASES, MIS	2005 1939	180			26	0	0	37					S	30 U		
	SPAR MTN, MIS	2125	630			16	0	0	36					LS	12 U		
	MCCLUSKY, MIS	2130 1939	8			73	0	0	38	0.21				OL	15 U		
	DEVONIAN	3500	80			7	0	0	37					C	7 R		
TOVEY, CHRISTIAN, 13N, 3W																	
	SILURIAN	1850 1955	10	0.0	28.0	1	0	0	0	38				L	10	SIL	1881
			AND 1973														
*TRUMBULL C, WHITE, 5S, 6-9E																	
		1944	1520	55.2	3781.2	115	1	0	56						A	MIS	4285
	PENNSYLVANIAN	830 1974	10			1	0	0						S	12		
	TAR SPRINGS, MIS	2528 1962	30			2	0	0	35					S	5		
	CYPRESS, MIS	2845 1944	420			32	0	0	36					S	10 A		
	BETHEL, MIS	2955 1959	50			2	0	0	37					S	9 A		
	AUX VASES, MIS	3170 1946	520			42	0	0	36					S	9 A		
	OHARA, MIS	3230	690			19	0	0	36					L	15 AC		
	SPAR MTN, MIS	3270 1946	8			13	0	0	36					L	6 AC		
	MCCLUSKY, MIS	3290 1947	8			20	1	0	36					L	5 AC		
	ULLIN, MIS	4110 1978	10			1	1	0						L	20		
*TRUMBULL N, WHITE, 4S, 8E																	
		1961	50	1.3	8.2	4	1	0	1							MIS	3537
	AUX VASES, MIS	3325 1961	20			1	0	0	36					S	6		
	OHARA, MIS	3420 1979	30			1	1	0						L	4		
	MCCLUSKY, MIS	3466 1961	8			2	0	0	37					OL	16		
			AND 1966, REV 1979														
TURKEY BEND, PERRY, 4S, 2W																	
	TRENTON, ORO	3940 1957	30	1.8	54.1	2	1	0	2	39				L	1	ORO	4044
*VALIEN, FRANKLIN, 6S, 2E																	
		1942	110	6.8	114.4	6	0	0	2							MIS	2900
	AUX VASES, MIS	2685 1963	100			5	0	0	39					S	7		
	MCCLUSKY, MIS	2715 1942	10			1	0	0	39					L	12 ML		
			AND 1945, REV 1963														
VENOENNES, JACKSON, 7S, 2W																	
	DEVONIAN	3300 1975	60	1.4	10.9	4	0	0	4	39				L	10	ORO	7094
VIRDEN W, MACOUPIN, 12N, 7W																	
	DEVONIAN	1361 1963	30	0.0	0.0	2	0	0	0	38				L	20	DEV	1390
			AND 1971														

TABLE 8 - continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- 7H (FT)	AREA PRO- VED ACRES	PRODUCTION M BBLs			NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE	DEEPEST TEST ZONE (FT)	
				1979	1979	END OF 1979	CUM- LETED END OF 1979	CO- EYED 1979	AB- AND 1979	PRD- UCING END OF YEAR	SUL- PUR API	PERC- ENT	KING OF ROCK			THI- ESB
WAGGNER +, MONTGOMERY, 11N, 5W	POITTSVILLE, PEN	610 1940	40	0,0	12,0	7	0	0	1	28	0,21	S	10	SIL	1945	
WAKEFIELD, JASPER, 5N, 9E	SPAR MTN, MIS	3100 1946	40	0,0	1,7	2	0	0	0	38		L	5	MIS	3207	
WAKEFIELD N, JASPER, 5N, 9E	MCCLOSKY, MIS	3000 1953	10	0,0	23,2	1	0	0	0	37		L	6	MIS	3204	
WAKEFIELD S, RICHLAND, 5N, 9E	MCCLOSKY, MIS	3040 1955	80	0,0	7,2	5	0	0	0	37		L	4	MIS	3650	
WALPOLE, HAMILTON, 6-7S, 6E		1941	2180	16,1	10528,0	134	1	0	59			S	15	A	OEV	5325
	TAR SPRINGS, MIS	2465	110			7	0	0		37		S	8	AL		
	BENOIST, MIS	2962 1979	10			1	1	U				S	20	A		
	AUX VASES, MIS	3070 1941	2080			121	0	0	0,13			S	4	A		
	OHARA, MIS	3152 1979	200			1	1	U		37		L	7	AC		
	SPAR MTN, MIS	3195 1954	#			3	0	0				L	7	AC		
	MCCLOSKY, MIS	3162 1960	#			11	1	U		37		OL	7	AC		
	ST, LOUIS, MIS	3544 1960	20			2	1	U		38		L	8	AC		
	SALEM, MIS	4058 1979	10			1	1	U				L	16			
WALPOLE S, HAMILTON, 7S, 6E	AUX VASES, MIS	3120 1951	40	0,0	123,3	2	0	0	0	37		S	6	AL	MIS	3362
WALTONVILLE, JEFFERSON, 3S, 2E		1943	60	1,1	141,3	5	0	0	3			S	9	A	MIS	3375
	BENOIST, MIS	2460 1943	50			4	0	0		38	0,14	S	14	A		
	ST, LOUIS, MIS	2767 1962	10			1	0	0		37		L				
WAMAC, MARTIN, CLINTON, WASHINGTON, 1N, 1E, 1W		1921	310	0,0	692,3	119	0	0	1			S	20	DF	ORO	4160
	PETRU, PEN	720 1921	300			117	0	0		36		S	9	DF		
	DEVONIAN	3015 1959	10			1	0	0		38		L		DF		
WAMAL E +, MARION, 1N, 1E	ISABEL, PEN	845 1952	140	1,4	52,0	11	0	0	4	30		S	15	ML	OEV	3405
WAMAC W, CLINTON, 1N, 1W		1962	260	18,0	1001,4	28	0	0	22			S	8		OEV	3050
	CYPRESS, MIS	1312 1962	130			15	0	U		35		S	12			
	BENOIST, MIS	1466 1962	130			13	0	0		36		S				
WAPELLA E, DEWITT, 21N, 3E		1962	350	82,5	3018,7	36	0	0	36			S	5		SIP	2216
	DEVONIAN	1108 1963	30			3	0	0		31		L	6	M		
	SILURIAN	1112 1962	350			36	0	0		31		O				
WARNENTON-BURTON, EDGAR, COLES, 13-14N, 13-14W	UNNAMED, PEN	200 1906	470	0,0	32,1	47	0	0	1	31		S	20	ML	THN	2212
WATERLOO, MONROE, 1-2S, 10W	TRENTON, ORO	410 1920	380	14,9	269,1	59	7	0	20	30	0,97	L	50	A	PC	2768
WATSON, EFFINGHAM, 7N, 5-6E		1957	30	0,6	60,8	3	0	0	1			S	5		MIS	2647
	SPAR MTN, MIS	2415 1957	30			2	0	0				S				
	MCCLOSKY, MIS	2434 1958	#			1	0	0		38		L	11			
WATSON W, EFFINGHAM, 7N, 5E	AUX VASES, MIS	2208 1965	10	0,7	13,4	1	0	0	1	39		S	12		MIS	2316

TABLE 8--continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (* SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEP- TH OIBC- (FT) UVERY	AREA		PRODUCTION M BBLs		NUMBER OF WELLS			CHARACTER OF OIL		PAY ZONE			DEEPEST TEST	
			PRO- VED IN ACRES	TO ING 1979	TO END OF 1979	COMP- LETED TO END OF 1979	CO- MPL- ETED 1979	AN- O- 1979	PROO- UCING END OF YEAR	SUL- FUR PERC- ENT	KIND OF ROCK	THI- = UP	STR- = URE	ZONE	DEP- TH (FT)	

WAVERLY +, MORGAN, 13N, 8W	DEV-SIL	1946	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, 2S, 6E	BALEM, MIS	1978	10	0,3	1,3	1	0	0	1		L	28		MIS	4130	
WEAVER, CLARK, 11N, 10W		1949	560	11,5	2397,0	45	1	0	27					M	DEV	2160
	COLE, MIS	1953	30			1	0	0		30	S	5	U			
	DEVONIAN	1949	530			43	1	0	37		L	10	K			

*WEST FRANKFUR C, FRANKLIN, 7S, 2-3E																
		1941	1700	63,8	7490,6	151	0	3	53					A	DEV	4869
	TAR SPRINGS, MIS	1941	680			70	0	2		39	0,13	8	20	A		
	AUX VASES, MIS	1947	420			37	0	0		38		S	20	AL		
	OHARA, MIS	1943	850			44	0	1		38		L	8	AC		
	SPAR MTN, MIS		#			6	0	0				L	8	AC		
	MCCLUSKY, MIS	1947	#			21	0	0		38		L	14	AC		

*WEST SEMINARY, CLAY, 2N, 7E																
		1959	320	0,0	819,9	29	0	0	2					MC	MIS	3198
	AUX VASES, MIS	1959	230			18	0	0		37		S	10	MC		
	SPAR MTN, MIS	1959	290			3	0	0				L	6	MC		
	MCCLUSKY, MIS	1959	#			14	0	0		38		OL	12	MC		

*WESTFIELD, CLARK, COLES, 11-12N, 11E-14W																
		1904	9710	X	X	1875	7	0	276					U	STP	3009
	GAS, PEN	280	1610			258	2	U		28		S	25	U		
	WESTFIELD, MIS	335	8930			47	4	U		32		L	X	U		
	CARPER, MIS	875	580			29	1	0		38		S	18	U		
	TRENTON, OMO	2300	1710			87	0	0		38	0,18	L	40	U		
SEE CLARK COUNTY DIVISION FOR PRODUCTION																

*WESTFIELD E +, CLARK, 11-12N, 14W																
	PENNSYLVANIAN	1947	310	0,3	12,5	44	0	0	31	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	1949	275		0,4	1	0	0	0	28		S	5			
	PENNSYLVANIAN	1949	490			1	0	0				S	10			
AND 1957																

*WHITEASH, WILLIAMSON, 8S, 2E																
		1972	70	1,8	26,9	5	0	0	4						MIS	2651
	AUX VASES, MIS	1973	60			4	0	0				S	12			
	OHARA, MIS	1972	20			2	0	0				L	8			

*WHITTINGTON, FRANKLIN, 5S, 3E																
		1939	1090	68,9	2850,7	81	1	2	50					A	DEV	4810
	HARDINSBURG, MIS	1948	430			28	0	2		38		S	10	A		
	CYPRESS, MIS		240			16	0	0		35		8	10	A		
	BETHEL, MIS	1961	60			3	0	0		38		S	4	A		
	AUX VASES, MIS		120			11	0	0		38		8	15	A		
	OHARA, MIS		410			13	0	0		37		L	10	AC		
	SPAR MTN, MIS		#			8	0	0				L	10	AC		
	MCCLUSKY, MIS	1939	#			7	0	0		38	0,24	L	9	AC		
	ST. LOUIS, MIS	1939	80			9	1	0		38	0,24	L	6	AC		
	SALEM, MIS	1977	50			4	1	0				L	10			
	ULLIN, MIS	1977	20			1	0	0				L	7			

*WHITTINGTON S, FRANKLIN, 5-6S, 3E																
	CYPRESS, MIS	1950	120	2,0	478,9	10	0	0	10	35		S	10	A	MIS	3904

*WHITTINGTON W, FRANKLIN, 5S, 2-3E																
		1943	670	0,0	1571,2	38	0	0	2					A	MIS	3535
	BENOIST, MIS	1949	10			1	0	0		36		S	10	AL		
	HENAUPT, MIS	1956	480			21	0	0		37		L	X	A		
	AUX VASES, MIS	1944	180			13	0	0		38		S	15	AL		
	OHARA, MIS	1943	110			5	0	0				L	5	AC		
	SPAR MTN, MIS	1947	#			2	0	0				L	4	AC		
	MCCLUSKY, MIS	1900	#			3	0	0		38		L	6	AC		

TABLE 8 continued

POOL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (a SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR DEPT. OF DISC. OVERY	AREA PRO. VED IN ACRES	PRODUCTION M BBLs		NUMBER OF WELLS				CHARACTER OF OIL			PAY ZONE		DEEPEST TEST (FT)		
				1979	TO END OF 1979	COMP. LETED TO 1979	CO-ETED IN 1979	AB-AND UNED 1979	PROO-UCING YEAR	GR. API	SUL-FUR PERC-ENT	KIND OF ROCK	THI-ESS	STR-UCT-UNE		ZONE	

*WILBERTON, PATETTE, 5N, 2-3E																	
		1959	1070	17,0	1624,7	58	0	0	36							ORO	4528
	BONDEN, MIS	2628 1963	10			1	0	0	35			8		38			
	CAMPER, MIS	3203 1961	1060			46	0	0	37			8		39			
	LINGLE, DEV	3466 1959	60			5	0	0	28			8		4			

*WILLIAMS C, JEFFERSON, 2-3S, 2E																	
		1948	490	10,7	1405,3	45	0	0	31						A	DEV	4578
	BENOIST, MIS	2490 1949	730			17	0	0	39			8		10	AL		
	AUX VASES, MIS	2550 1949	400			29	0	0	37			8		5	AL		
	MCCLOSKEY, MIS	2600	10			1	0	0	37			L			AC		

*WUBURN C, BOND, 6-7N, 2W																	
		1940	1430	28,0	4572,4	140	0	2	51						A	ORO	3290
	CYPRESS, MIS	665 1950	310			20	0	0	35			8		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			8		10	AL		
	LINGLE, DEV	2275 1949	720			56	0	2	35			8		8	AC		
	TRENTON, ORO	3170 1947	370			23	0	0	39	0,27		L		12	A		

*WOODLAWN, JEFFERSON, 2-3S, 1-2E																	
		1940	1900	50,9	18298,0	194	0	3	66						A	ORO	5101
	TAR SPRINGS, MIS	1440	30			3	0	0	35			8		X	AL		
	CYPRESS, MIS	1600 1943	180			3	0	1	37			8		10	AL		
	BENOIST, MIS	1960 1940	1860			175	0	3	37	0,16		8		25	A		
	AUX VASES, MIS	1975 1945	270			24	0	0	38			8		10	A		
	SPAR MTN, MIS	2205 1947	240			15	0	0	38			L		15	A		
	MCCLOSKEY, MIS	2200 1948	#			1	0	0				L		3	A		
	LINGLE, DEV	3690 1945	70			11	0	0	37			8		6	A		

*WOODLAWN N, JEFFERSON, 2S, 2E																	
	MCCLOSKEY, MIS	2304 1979	10	X	X	1	1	0	1			L		9	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	0,19		8		13	A		
	CAMPER, MIS	4230 1962	110			7	0	0	38			8		12			

*XENIA E, CLAY, 2N, 5E																	
		1951	300	6,6	927,0	29	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	190	47,4	55,6	13	6	0	11							MIS	2702
	SPAR MTN, MIS	2070 1966	190			6	9	0				L		10			
	MCCLOSKEY, MIS	2140 1966	#			7	1	0	37			L		6			

*YORK, CUMBERLAND, CLARK, 9-10N, 10-11E, 10W																	
	ISABEL, PEN	590 1907	410	X	X	79	0	2	8	31		8		15	AM	DEV	2642
SEE CLARK COUNTY DIVISION FOR PRODUCTION, ABO 1945, REV 1950																	

*ZEIGLER, FRANKLIN, 7S, 2E																	
	AUX VASES, MIS	2614 1963	350	16,3	2118,6	34	0	0	33	37		8		19	MIS	3030	

*ZENITH, WAYNE, 2N, 5E																	
		1948	50	0,0	24,6	5	0	0	2							MIS	3601
	MCCLOSKEY, MIS	2970 1948	40			4	0	0	38			L		7	AC		
	ST LOUIS, MIS	3086 1969	10			1	0	0				L		6			
ABO 1956, REV 1969, ABO 1970, REV 1973																	

*ZENITH E, WAYNE, 1N, 6E																	
	SPAR MTN, MIS	3170 1965	250	2,6	538,0	14	0	0	11	37		L		10	MIS	3850	

*ZENITH N, WAYNE, 2N, 6E																	
		1951	440	26,7	1454,3	33	0	0	20						N	MIS	3935
	SPAR MTN, MIS	3080 1951	280			15	0	0	38			L		6	NC		

(CONTINUED ON NEXT PAGE)

TABLE 8--continued

WELL, COUNTY, LOCATION BY TOWNSHIP AND RANGE (= SECONDARY RECOVERY SEE PART II)	PAY ZONE NAME AND AGE	YEAR OF DISC- VERY	AREA PRO- VED IN ACRES	PRODUCTION M BBLs			NUMBER OF WELLS			CHARACTER OF OIL		PAY ZONE	DEEPEST TEST
				1979	TO 1979	END OF 1979	COMP- TO	CO- MPL- AB-	PROO- UCING END OF YEAR	SUL- FUR KIND OF ROCK	PERC- ENT		
(CONTINUED FROM PREVIOUS PAGE)													
ZENITH N, WAYNE, 2N, 6E													
MCCLOSKEY, MIS		3140 1951	#				6	0	0			L	4 NC
SALEM, MIS		3634 1972	250				16	0	0			L	4 NC
ZENITH S, WAYNE, 1N, 5E													
OHARA, MIS		2920 1949	300	0,0	765.9		15	0	0	0			M MIS 3827
MCCLOSKEY, MIS		2985 1949	#				2	0	0			L	6 MC
							13	0	0	37		L	7 MC
				ADD 1966, REV 1967, ADD 1970									
TOTAL			620,930		3,123,626		655			24,171			
				21,793			68,480		416				

TABLE 9. Illinois gas field statistics, 1979

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

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

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

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

x Correct figure not determinable.
* Field also listed in table 8 (oil production).
† From oil wells.
†† Gas storage project.

Abd: Field abandoned. Rev: Field revived.

Field; county; location by township and range	Pay zone		Year of discovery	Area proved in acres	Gas production million cu ft		Number of wells			Pay zone			Deepest test		
	Name and age	Depth (ft)			During 1979	To end of 1979	Completed to end of 1979	Completed in 1979	Abandoned 1979	Producing end of year	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	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	S	23		Sil	2,730
	Benoist, Mis	1,155	1975	80			1				S	13			
				10			1								
					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			Pro- ducing end of year	Pay zone			Deepest test	
	Name and age	Depth (ft)			During 1979	To end of 1979	Completed to end of 1979	Com- pleted in 1979	Aban- doned 1979		Kind of rock, average thickness			Zone	Depth (ft)
											in feet, structure				
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*; Macoupin; 10N; 7W															
	Pottsville, Pen	440	1941	40	0	0	1	0	0	0	S 10	X	Trn	1,970	
					Abd 1954										
Carlyle*; Clinton; 2N; 3W															
	Cypress, Mis	1,015	1958	20	0	x	2	0	0	0	S x	AL	St. P	4,120	
Casey*; Clark															
	Casey, Pen	440		x	0	x	x	0	0	0	S x	AM	Trn	2,608	
Claremont; Richland; 3N; 14W															
	Spar Mtn, Mis	3,200	1950	160	0	0	1	0	0	0	L 5	MC	Mis	3,340	
					Abd 1952										
Cooks Mills C* ⁺⁺ ; Coles, Douglas; 14N; 7-8E															
			1941	950	0	1,895.4	23	0	0	0			A	Dev	3,059
	Cypress, Mis	1,600		680			14				S 10		A		
	Aux Vases, Mis	1,800		40			1				S 8		A		
	Spar Mtn, Mis	1,765		450			6				S 15		A		
Cooperstown; Brown; 1S; 2W															
	Silurian	516	1977	20	0	0	2	1	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	8.3	366.2	15	0	0	3	S		Mis	2,377	
Eldorado C*; Saline; 8S; 7E															
			1941	300	55.9	3,782.9	18	0	0	3			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	33.5	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	23.3	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 1979	To end of 1979	Com- pleted to end of 1979	Com- pleted in 1979	Aban- doned 1979	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, S11	450	1955	7,260	240.4	240.4	69	0	0	5	L	5	X	St. P	1,018
Freeburg* ^{††} ; St. Clair; 1-2S; 7W															
	Cypress	380	1956	700	0	*	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	1,190	113.7	*	54	10	1	20			M	Ord	2,694
	Gas, Pen	400		1,150			53	10			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	9.8	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	*	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	*	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	931.3	4	0	0	0	S	10	X	Mis	2,997
Kansas Gas; Edgar; 13N; 14N															
	Unnamed, Pen	410	1958	30	0	*	3	0	0	0	S	x	X	Mis	778
Keenville; Wayne; 1S; 5E															
	Salem, Mis	3,620	1978	x	172.3 [†]	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

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 1979	To end of 1979	Com- pleted to end of 1979	Com- pleted in 1979	Aban- doned 1979		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	7.8	570.3	2	0	0	1	S 7	X	Dev	5,511	
Redmon N; Edgar; 14N; 13W															
	Pennsylvanian	365	1955	50	0	0	2	0	0	0	S 3	X	Mis	450	
Richwood (Gas) ^{††} ; Crawford; 6N; 11W															
	Pennsylvanian	612	1959	160	0	28.6	4	0	0	0	S 9	X	Pen	1,001	
Roland C*; Gallatin; 7S; 8E															
	Waltersburg, Mis	2,150	1940	160	0	0	1	0	0	0	S 19	AL	Dev	5,266	
Russellville Gas*; Lawrence; 4-5N; 10-11W															
			1937	1,800	0	7,081.6	60	0	0	0			A	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. Libory; St. Clair; 1S; 6W															
			1964	280	152.8	152.8	8	1	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		Mis	2,756	
Storms C*; White; 5-6S; 9-10E															
			1939	440	0	x	9	0	0	0			A	Dev	5,174
	Gas, Pen	1,090		170			2				S 40	Af			
	Waltersburg, Mis	2,230		280			7				S 15	AL			
Stubblefield S*; Bond; 4N; 4W															
			1962	240	13.4	370.5	11	0	0	3				Dev	2,455
	Pennsylvanian	590	1971	20			0				S x	X			
	Cypress, Mis	920	1962	220			0				S x	X			
Sumner S (Gas); Lawrence; 3N; 13W															
	Aux Vases, Mis	2,566	1959	40	0	0	2	0	0	0	S 10		Mis	2,990	
Tamaroa*; Perry; 4S; 1W															
	Cypress, Mis	1,120	1942	20	0	0	2	0	0	0	S 13	AL	Trn	4,287	
Tilden N Gas ^{††} ; Washington, St. Clair; 3S; 5-6W															
	Cypress, Mis	780	1961	x	0	x	x	0	0	0	S 25		Ord	2,810	

TABLE 9—continued

Field; county; location by township and range	Pay zone		Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells			Pay zone			Deepest test		
	Name and age	Depth (ft)			During 1979	To end of 1979	Completed to end of 1979	Com- pleted in 1979	Aban- doned 1979	Pro- ducing end of year	Kind of rock, average thickness in feet, structure			Zone	Depth (ft)
Waggoner*; Montgomery; 11N; 5W															
	Pottsville, Pen	523	1959	10	0	0	1	0	0	0	S	2	X	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			A	Ord	2,070
	Pennsylvanian	250		160			1				S	13	AL		
	Devonian	1,000		700			6				L	10	A		
	Trenton, Ord	1,513	1963	40			1				L	x	X		
Westfield E*; Clark; 12N; 14W															
	Pennsylvanian	400	1947	60	0	0	3	0	0	0	S	11	ML	Mis	795
Totals for Illinois (estimated)				33,790	1,584.7	30,426.4	817	17	4	58					

Part II. Waterflood Operations

Jaclyn Rendall Elyn

SUMMARY OF SECONDARY RECOVERY OPERATIONS

In 1979, 3 waterflood projects were reported for the first time by their respective operators. Seventeen 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.

A total of 110 pay acres was added in 1979 to the pay area under fluid injection, bringing the total to 417,352 acres. Pressure maintenance area remains at 5,378 acres, and waterflood acreage is 411,974. Total pay acreage in Illinois, primary and secondary, increased to 807,435 at the end of 1979. Waterflood acreage is 51.0 percent of the total pay in Illinois.

Secondary recovery oil production in 1979 was 12,249,100 barrels, a decline of 8 percent from 1978. Waterfloods accounted for 12,114,300 barrels or 55.6 percent of the total oil produced during 1979 in Illinois; pressure maintenance projects reported 134,800 barrels or 0.6 percent of the total oil produced during 1979.

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 1979," 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, 1979," 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 1979 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 1979," is a tabulation of statistics for those fields in which secondary recovery oil is being produced.

Table 14, "Summary of Waterflood Statistics 1949-1979," is a tabulation of waterflood data, compiled on an annual basis for the past 31 years.

CONCLUSIONS

In spite of the fact that waterflood operations appear to have been applied to almost all of the productive acreage in Illinois in which waterflooding is feasible, the total secondary recovery acreage is only slightly more than 50 percent of the total productive acreage. This relationship has existed for the past 12 years and will probably continue into the future.

ABBREVIATIONS

The following abbreviations are used in tables 10 through 14:

abd - abandoned	incl - includes, including, included
adj - adjacent	inj - injection
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 1979

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	49	0	42	91
400-420	Clinton	14	1	6	21
500-525	Coles	11	0	15	26
589-698	Crawford	44	0	48	92
700-708	Cumberland	5	0	3	8
800-802	Douglas	0	0	3	3
900-907	Edgar	7	0	1	8
1000-1040	Edwards	24	1	16	41
1100-1121	Effingham	18	0	4	22
1200-1255	Fayette	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	13	0	18	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	23	0	26	49
3600-3627	Saline	16	0	11	27
3800-3803	Shelby	3	0	1	4
3836-3999	Wabash	85	0	70	155
4000-4026	Washington	25	0	2	27
4046-4199	Wayne	91	0	61	152
4200-4458	White	147	0	112	259
4501-4505	Williamson	5	0	0	5
	Total	850	3	631	1,484

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBLs)			
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.	TOTAL CUM.	
F, M,				1979	12/79	1979	12/79
AS LAKE W, GALLATIN							
*1417 COY OIL CO	AS LAKE WEST UNIT	WALTERSBURG	30,31-88-10E	1091	184	526	
*1421 COY OIL CO	AS LAKE WEST UNIT	AUX VASES	30,31-88-10E	219			
*1452 PAUL B, KNIGHT	GOLOEN-CONN	WALTERSBURG	29,31,32-88-10E	400	70	400	
ADEN C, HAMILTON, WAYNE							
4181 BARBER OIL	NORTH ADEN UNIT	AUX VASES	28,32,33-28-7E	328	1695	9.2	45
		HCCLOSKY	4,5,8-38-7E		1660		328
4158 FAIRFIELD OIL CO	SW FAIRFIELD UNIT	AUX VASES	22-28-7E	10	1644	0.9	137
*4101 TEXACO, INC.	ADEN SOUTH	AUX VASES	8,9,16,17,20-38-7E		6138		1070
*4102 TEXACO, INC.	ADEN SOUTH	HCCLOSKY	8,9,16,17,20-38-7E		6506		660
ADEN S, HAMILTON							
*1521 M. WEINERT EST.	SOUTH ADEN UNIT	AUX VASES	29,30-38-7E	2477	176		
		SPAR MTN					
		HCCLOSKY					
AKIN, FRANKLIN							
*1310 C. E. BREHM	LAHIO TRUSTEE A U	AUX VASES	36-68-4E		109		
1311 C. E. BREHM	AKIN SE U	AUX VASES	25-68-4E		2341	0.6	260
*1317 C. E. BREHM	U S COAL & COKE	CYPRESS	23-68-4E		129		42
1321 C. E. BREHM	U S STEEL	AUX VASES	26-68-4E		604	0.8	138
*1327 FARRAR OIL CO.	AKIN UNIT		35-68-4E		360		68
ALBION C, EDWARDS, WHITE							
1001 ACME CASING	SOUTH ALBION U BIENL	BIENL	1,2-38-10E	75	3620	6.4	525
*1011 ACME CASING	S ALBION L BIENL U	BIENL	1-38-10E, 35,36-28-10E		3224		704
1002 NICK SABARE	H, WICK	BRIDGEPORT	24-28-10E	75	2550	3.5	161
		WALTERSBURG					
		OHAMA					
1020 C. E. BREHM	MICHAELS	BIENL	11-38-10E			4.2	143
*4201 CONCHO PET. CO.	NORTH CROSSVILLE UNIT	CYPRESS	27,30,35-38-10E		3620		313
*4202 CONCHO PET. CO.	N CROSSVILLE U	TAR SPRINGS	34,35-38-10E		868		58
*1014 CONTINENTAL OIL	STAFFORD	HCCLOSKY	13-28-10F		625		43
*1038 DELTA OIL CORP.	WOKTON-WORKS	HCCLOSKY	13-28-10E		2000		126
*1019 FIRST NATL PET	BROWN	AUX VASES	6-28-11E		120		100
1006 GETTY OIL CO	SW ALBION BIENL SO U	BIENL	2,11,14-38-10E	463	22348	3.0	1744
1026 J&H OIL CO	MAXWELL-HOSSBARGER	BETHEL	15-38-10E	20	569	0.9	40
4200 MOBIL OIL CORP.	BIENL U 1	BIENL	22,23-38-10E	136	4957	4.9	1360
4308 MOBIL OIL CORP.	W GRAYVILLE U	BETHEL	23-38-10E	148	2988	4.9	418
		AUX VASES					
1005 BERNARD PODOLSKY	ALBION E U	AUX VASES	1-28-10E, 16-28-11E	110	2259	1.8	200
1035 RK PET. CORP.	RK EAST ALBION UNIT	AUX VASES	6-28-11E, 1-28-10E	25	1639	2.6	117
*1000 REBSTOCK OIL CO.	BIENL U 2	BIENL	14-38-10E		4194		614
*1018 REBSTOCK OIL CO.	EAST ALBION UNIT	AUX VASES	36-18-10E, 31-18-11E		1756		194
4321 J. W. RUOY ORLG.	ROBINSON	TAR SPRINGS	23-38-10E	15	219	1.4	15
		BETHEL					
4434 J. W. RUOY ORLG.	GRIESSBAUM	CYPRESS	26-38-10E	70	372	4.3	31
		BETHEL					
		AUX VASES					
1012 SABER OIL CO	HUNTING L&L	OHAMA	12-28-10E	80	1335	4.7	197
1033 SABER OIL CO	ALBION U	AUX VASES	12-28-10E, 7,18-28-11E	100	3316	7.1	365
		OHAMA					
1037 SO. TRIANGLE CO.	SOUTH ALBION WF	BETHEL	24,25-28-10E	155	1336	9.5	103
1003 SUPERIOR OIL CO.	30,31-28-11E SRPU 1	BIENL	25,36-28-10E	648	14366	10.4	2027
1004 SUPERIOR OIL CO.	SOUTH ALBION UNIT 2	WALTERSBURG	30,31-28-11E				
		MANAYELO	1,2,11,12-38-10E	354	4720	15.8	2080
		BRIDGEPORT		207	6777		
		BIENL		137	6854		
		WALTERSBURG			2305		
		AUX VASES			1328		
1032 SUPERIOR OIL CO.	WORKS UNIT	WALTERSBURG	18,19-28-11E	71	1033	12.5	144
		BETHEL		68	260		240
		AUX VASES			39		
		HCCLOSKY		242	5810		
1036 SUPERIOR OIL CO.	WILLETT	WALTERSBURG	30-28-11E	5	178	5.4	543
*1030 TEXACO, INC.	BARNES EAST	WALTERSBURG	24-28-10E		544		33
1039 TEXACO, INC.	G, WORKS	BETHEL	13-28-10E	81	1755	5.2	121
		AUX VASES					
		HCCLOSKY					
*4353 F. O. WALL	GRAYVILLE WEST U	CYPRESS	22-38-10E	16	219	61	265
1031 WARRIOR OIL CO.	E. ALBION WALT, SAND U.	WALTERSBURG	31-18-18W 6-28-14W		5876	1.1	758
ALBION EAST, EDWARDS							
1040 ZANETIS OIL PROP	ALBION EAST	CYPRESS	28-28-14W	142	1171	42.2	349
		BETHEL					142
		OHAMA					1132
ALLENDALE, LAWRENCE, WABASH							
3969 ABHLAND O AND R	FRIENDSVILLE COOP	BIENL	30-1N-12W		4970	2.5	322
3902 BEULIGHANN ET AL	PRICE-ROBINSON	BIENL	14-1N-12W	60	537	2.4	39
*3865 JOHN BLEDSOE, JR	HOVERHALE	BETHEL	36-2N-12W		64		20
*3848 CHARLES E. CARR	NAYLOR-ROBSON-PAYNE	BIENL	8-1N-12W		1000		200
*3447 G. B. ENGLE	PATTON COOP	CYPRESS	28-1N-12W		1000		180
*3971 T. W. GEORGE EST.	YOUNG WF	BETHEL	1-1N-12W		208		
*3990 M AND M OIL CO	BUCHANAN	CYPRESS	33-1N-12W		367		44
*3900 CECIL A. MAMHAN	GILLIATT-ALKA	BIENL	13-1N-12W		2735		244
3436 HOCKING OIL	JOHN SCHAFFER	ST. LOUIS	15-1N-12W	1	1	0.4	1
*3869 ILLINOIS OIL CO.	FRENCH ET AL	BIENL	32-2N-12W		39		10
3499 ILLINOIS OIL CO.	PRICE MEIRS	BRIDGEPORT	2-1N-12W		228		18
*3906 ILLINOIS OIL CO.	YOUNG	BIENL	1-1N-12W		4547		205
*3944 IND. FARM BUR.	WOODS *C*	BIENL	20-1N-12W		633		45
*3992 IND. FARM BUR.	KEYSER *B*	BIENL	13-1N-12W		303		20
3698 JACK KENEIFF	MERSHEY-COGAN	BIENL	35-2N-12W		9		
		CYPRESS		20	720	1.2	78
3966 JACK KENEIFF	COGAN	BIENL	35-2N-12W	15	1102	1.1	202
		CYPRESS		10	299		5
*3999 JACK KENEIFF	WALBER	TAR SPRINGS	2-1N-12W		26		6

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER				
FIELD, COUNTY		DEPTH	NET	POR	PERM	OIL	DATE	DATE	NO. OP	ACRES	SOURCE	TYPE						
NO.	(FT)	PAY	(%)	(MO)	GRAV	PIST	ASD	WELLS	UNDER	BR	GRAVEL	(B)	BRINE	PROD	PRODUCED	(M)	MIXED	REMARKS
	(FT)				(API)	INJ.		INJ.	PROD.	INJ.								
AB LAKE W, GALLATIN																		
*1417	2025	17,0	16,3	20	36,9	07-59	06-64	6	9	180	SH GRAY, PENN 80 (F)							*INCL 1421
*1421	2750	10,0	16,3	27	37,1	07-59	06-64	1	2	30	SH GRAY, PENN 80 (F)							*INCL WITH 1417
*1452	2000	15,0				05-64	12-71	2	5	90	PRODUCED (B)							*ESTIMATED
ADEN C, HAMILTON, WAYNE																		
4181	3150	12,0	12,0		36,0	01-64		10	11	1000	PENN 80, PROD (B)							*1-79 TO 10-79; *INCL BOTH PAYS
	3350	14,0			38,0	01-64		7	6	1000								*THRU 1975
4158	3250	9,0	21,0	156	40,0	02-62		1	1	100	PENN 80, PROD (B)							
*4101	3200	10,0	22,0	150	37,0	08-64	03-66	12	12	640	PRODUCED (B)							*INCL 4102
*4102	3350	3,6			37,0	08-66	03-66	11	5	640	PRODUCED (B)							*INCL WITH 4101
ADEN S, HAMILTON																		
*1521	3245	21,0				03-64	04-70	4	10	150	PENN 80, PROD (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.F.OIL RECOVERED
1311	3120	20,0	20,5	175	38,0	10-61		3	11	150	PENN 80, PROD (B)							*INJ. CURTAILED 9-76
*1317	2840	15,0	13,0	90	34,0	05-62	12-76	2	6	80	PENN 80, PROD (B)							*ESTIMATED SINCE 1968
1321	3100	16,0			38,0	06-65		1	4	60	PENN 80, PROD (B)							*INJ. DISC. 79
*1327	3060	14,7			37,0	01-66	05-78	3	3	100								*ESTIMATED; *SHO 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	2080	9,2	16,8	384	32,3	04-51	01-72	2	7	120	PRODUCED (B)							
1002	1550	12,0				01-72		1	1	30	PRODUCED (B)							*ESTIMATED
	2380	12,0				01-72		1	2	40								
	3150	10,0				07-51		1	4	80								
	2055	8,0				6-56		8	3	30								*EST. +ADJ. TO PROJ 1006 SINCE 56
*4201	2850	12,0	18,0		37,0	10-52	12-58	8	21	250	RIVER, PROD (M)							
*4202	2460	6,0	18,0		37,0	10-52	12-58	4	5	100	RIVER, PROD (M)							
*1014	3222	4,0	16,3	898	39,0	05-63	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	HARINGSBURG (B)							*EST. +INCL PRIM, 52-55
1006	1850	16,2	18,0	150	32,2	01-55		8	11	403	GRAVEL, PROD (M)							
1026	2990	8,0				06-62		1	1	30	PRODUCED (B)							*EST; OP SUSPENDED 1970-72
4200	1900	21,2	20,2	265	38,0	06-68		3	7	170	RIVER, PROD (M)							
4308	2930	19,0				02-68		4	7	160	SHALLOW SO, PROD (M)							
	3160	18,0						4	10	160								
1005	3050	25,0	15,0	25	41,0	03-68		4	4	90	PURCHASED (F)							
1035	3010	18,3				10-66		4	3	70	CITY WATER (F)							*ESTIMATED SINCE 1977
*1000	1900	30,0	19,3	303	35,8	09-50	01-72	2	5	50	RIVER, PROD (M)							*ESTIMATED SINCE 1969
*1018	3000	14,3	18,0	13	37,5	11-59	12-67	6	5	340	PENN 80, PROD (B)							
4321	2434	10,0			33,0	06-69		1	1	40	PRODUCED (B)							*ESTIMATED SINCE 1976
	2932	10,0				11-69		1	2	30								
4434	2770	15,0				11-71		1	1	20	PRODUCED (B)							*ESTIMATED SINCE 1976
	2950	15,0						2	4	60								
	3060	18,0						1	1	20								
1012	3230	8,0				11-66		1	1	30	PRODUCED (B)							*EST +INCL PRIM PROD
1033	3025	15,0	17,3	35	39,0	02-66		7	10	200	PENN 80, PROD (B)							*ESTIMATED SINCE 1973
	3060	13,0						3	9	120								
1037	3000	8,0	15,0	13	36,0	02-72		4	4	100	PENN SAND (B)							*ESTIMATED
1003	2025	12,3	18,5	47	36,0	01-55		4	4	222	SH SO, PROD (M)							
	2400	7,1	18,6	74	36,0			4	4	325								
1004	1630	10,0	20,6	53	37,0	01-67		2	4	90	GRAVEL BED, PROD (M)							*INCL ALL PAYS
	1870	12,2	20,2			08-56		1	3	257								
	2050	15,8	18,2	338		08-56		1	1	80								
	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	4	70	SH SO (F)							*INCL ALL PAYS; *TEMP ASD 6-68 TO 9-78; *TEMP ASD 1-68 TO 4-77
	2919	6,0	14,6	10				1	5	100								
	3040	5,0	15,8	53			01-68	1	3	50								
	3068	8,0	14,2	3003				3	6	200	PRODUCED (B)							
1036	2400	8,5	19,2	209	38,0	10-65		1	11	40	SH SO (F)							
*1030	2370	20,0			39,0	11-63	12-66	1	4	40	PRODUCED (B)							*SHO ONLY
1039	2970	8,0	13,0	22		11-69		1	1	30	PRODUCED (B)							
	3041	18,0	16,7	153				1	2	40								
	3110	33,0	15,0	205				1	1	30								
*4333	2850	12,0	17,0	50	38,0	05-62	01-71	4	5	225	BIEM, PROD. (B)							*ESTIMATED SINCE 1968
1031	2250	11,2	20,6	167	36,0	10-65		1	3	88	GRAY, PROD (M)							
ALBION EAST, EDWARDS																		
1040	2770	15,0				09-72		7	16	40	PENN SAND, PROD (M)							*ESTIMATED
	2890	10,0								160								
	3070	8,0								220								
ALLENOALE, LAWRENCE, WABASH																		
3969	1600	15,0	14,2	335	33,0	10-60		2	8	100	PRODUCED (B)							*INJ DISC 12-78, SHO ONLY
3902	1472	10,0	17,0		35,0	12-65		2	2	10	SH SO, PROD (M)							*ESTIMATED SINCE 1976
*3865	1948	30,0	18,7	77	36,4	02-65	01-72	1	1	20	SH SO, PROD (M)							*NO DATA 1966-69; INACTIVE 70-71
*3868	1520	7,0				7-64	12-76	4	6	100	PRODUCED (B)							*EST. +NO DATA RECEIVED
*3867	2020	13,0				7-53	6-59	4	5	90	FRESH PROD. (M)							*EST. +NO DATA RECEIVED
*3971	2020	15,0				01-58	04-63	2	2	40	GRAVEL BED (F)							*ESTIMATED; *INCL WITH 3906
*3990	2000	20,0	16,0	128	39,0	11-59	09-68	1	1	40	GRAVEL BED, PROD (M)							
*3900	1485	15,0	24,6	1066	32,5	11-54	09-68	5	3	35	SH SO, PROD (M)							
3836	2559	5,0	12,0			10-79		1	1	70	PRODUCED (B)							
*3869	1575	8,0	17,0	40	36,0	05-65	01-70	1	1	10	SH SO (F)							
3899	1120	8,0	15,0	150	34,0	11-70		1	1	20	WELL (F)							*ESTIMATED; *INJ. SUOP, 1-78
*3906	1375	15,0	17,0	150	36,0	01-58	1-75	8	10	120	SH SO, PROD (M)							*ESTIMATED; *INCL 3971
*3944	1520	15,0			28,4	11-53	06-57	5	7	147	PRODUCED (B)							

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	TOTAL
A B O				1979	12/79	1979	12/79	1979
B P, H								
ALLENDALE, LAWRENCE, WABASH								
CONTINUED								
3952 L AND M DRILLING	STANLEY PRICE	BIEHL	19=1N=12W	887				348
3905 HERMAN LOEB	ALLENDALE (FLOOD 19)	BIEHL	3,4,9,10=1N=12W	300	39059	18.6	2136	
		JORDAN						
3871 O. LOEFFLER ESTATE,	FRIENDSVILLE EAST U.	BIEHL	18,19=1N=12W	260	2289	8.2	500	260
		BIEHL	13,24=1N=13W					1838
		BIEHL	16=1N=12W	20	704	1.1	70	20
3883 O. LOEFFLER ESTATE,	G.O. ADAMS COOP	CYPRESS						542
		SETHEL						
3901 O. LOEFFLER ESTATE,	CLARK, BARTH, PINNICK	TAR SPRINGS	25,36=2N=12W	60	318	6.6	29	60
3951 U. LOEFFLER ESTATE,	ALLENDALE WEST U	BIEHL	8=1N=12W	15	5230	0.6	529	15
3996 O. LOEFFLER ESTATE,	SPARKS-PETER UNIT	BIEHL	36=2N=12W	50	1302	0.6	79	50
3909 H & G CORP.	ALLENDALE U	BIEHL	3=1N=12W		5273		285	
		JORDAN						420
3911 C.A. ROBINSON	HAOEN	BIEHL	6,7=1N=11W	588		14		300
3964 ROYALCO, INC.	ALLENDALE U	SETHEL	13=1N=12W	4764		313		1544
3993 ROYALCO, INC.	STILLWELL COURTER U	WALTERSBURG	21,22=1N=12W	1625		341		653
		CYPRESS						
3920 SKILES OIL CORP.	YELTON-KERZAN	BIEHL	5=1N=12W				53	73
2231 WAYNE SMITH, OP.	SAND BARREN UNIT 1	BIEHL	26=2N=12W	47	3825	2.0	397	45
		JORDAN						342
2232 WAYNE SMITH, OP.	SAND BARREN UNIT 2	BIEHL	23,26=2N=12W	4	797	7.3	197	5
3903 WAYNE SMITH, OP.	TAYLOR-WHEATLEY	BIEHL	7,18=1N=12W		1124		217	909
		JORDAN						
3908 WAYNE SMITH, OP.	SHAW-SMITH-NIGH	BIEHL	35=2N=12W		1586		120	1466
		JORDAN						
3859 SO. TRIANGLE CO.	STOLTZ U	BIEHL	25=1N=12W	65	718	5.7	97	65
3904 TAHARACK PET.	PATTON C	CYPRESS	28=1N=12W		644		90	147
2201 TRIPLE B OIL CO	HERSHEY U	SETHEL	27,34,35=2N=12W		1325		94	537
3865 UNIVERSAL OPRING	LITHELAND-SMITH UNIT	BIEHL	5=1N=12W	4	1673	0.8	134	4
3973 UNIVERSAL OPRING	SOUTH ALLENDALE	BIEHL	15=1N=12W		845		38	247
		CYPRESS						
3860 ZANETIS OIL PROP	HAUF	CYPRESS	15=1N=12W		131		25	151
		CYPRESS						
ASHLEY, WASHINGTON								
4023 N. A. BALDRIDGE	ASHLEY	BENOIST	32,33=28=1W	145	4105	8.5	264	145
		BENOIST						4105
ASHLEY E, WASHINGTON								
4022 N. A. BALDRIDGE	ASHLEY EAST	BENOIST	25,26=28=1W	25	905	1.3	56	25
		BENOIST						905
ASSUMPTION C, CHRISTIAN								
104 FEAR AND DUNCAN	ASSUMPTION WFU	LINGLE	17,20=13N=1E	150	1989	7.0	156	150
100 JUNIPER PETROLEUM C	BENOIST	BENOIST	3,4,9,10=13N=1E	146	858	5.5	1468	141
101 JUNIPER PETROLEUM C	DEVONIAN	LINGLE	3,4,9,10,15,16=13N=1E	835	24700	17.8	2103	515
102 JUNIPER PETROLEUM C	ROSCILARE	SPAR MTN	9,10=13N=1E	139	5283	2.2	1103	56
105 J. W. RUOY ORLS.	PEABODY-RIOGE	LINGLE	16=13N=1E	80	1510	7.0	173	80
		LINGLE						1007
BARNHILL, WAYNE, WHITE								
4103 ASHLAND O AND R	BARNHILL U	MCCLOSKEY	26,34,35=28=8E		9137		1235	
4170 BERNARD PODOLSKY	BOZE UNIT	AUX VASES	27,28,34=28=8E		851	1.6	133	11
4171 BERNARD PODOLSKY	CALDWELL UNIT	AUX VASES	34=28=8E		1883	0.8	95	2
4199 SAM TIPPS	BOZE U	AUX VASES	28,33,34=28=8E		319		38	
4129 WAYNE DEY	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	OHAMA	27=28=8E		53		7	2
BARTELBO, CLINTON								
402 ED KAPEB	M.S. WOODARD, TRUSTEE	CYPRESS	5,8=1N=3W	50	2771	3.1	379	50
400 T. R. KENWIN	BELLE OIL	CYPRESS	4=1N=3W		478		135	187
401 ROBBEN OIL CO.	ROBBEN OIL UNIT	CYPRESS	4=1N=3W		3100		639	1621
		CYPRESS						
BEAUCOUP, WASHINGTON								
4013 COLLINS BROS.	BEAUCOUP UNIT	CLEAR CREEK	9,10=23=2W	95	1431	0.9	18	20
		CLEAR CREEK						717
BEAUCOUP S, WASHINGTON								
4005 SHELL OIL CO.	BEAUCOUP S. UNIT	BENOIST	33,34=28=2W	222	10388	6.4	440	360
4008 GEORGE THOMPSON	GILBERT	BENOIST	34=23=2W	8	171	0.4	41	8
		BENOIST						171
BEAVER CREEK, BONO, CLINTON								
1 T. H. CONREY, JR	WRONE C	BENOIST	36=4N=3W		106		23	
2 K W B OIL PROP.	HGHTJACOBS	BENOIST	31=4N=2W	27	378	1.1	19	26
		BENOIST						367
BEAVER CREEK S, BONO, CLINTON								
415 NICK SABARE	HONO	BENOIST	5=3N=2W			0.3	20	
405 T. H. CONREY, JR	R-K-R=8	BENOIST	12,13,14=3N=3W	100	2477	6.7	293	100
		BENOIST						244
BELLAIR, CRAWFORD, JASPER								
600 BELLAIR OIL	BELLAIR	PENNSYLVNIN	2,11,12=8N=14W	60	32073	2.5	904	60
601 BELLAIR OIL	FULTON (BELLAIR)	PENNSYLVNIN	1,2,11,12=8N=14W	300	62670	11.6	1642	300
666 HAUBAU PET. CORP	GRANT	CYPRESS	13=8N=14W		1343		161	380
		CYPRESS						
BELLE PRAIRIE, HAMILTON								
1577 CARL SUSSY	HLSK, SMPHO, LEACH, BONA	MCCLOSKEY	1,2,11=48=6E	60	620	9.3	133	60
		MCCLOSKEY						560
BEMAN, LAWRENCE								
2248 E. L. WHITHER	DECATUR INVESTMENT	BTE GEN	23,24=3N=11W		683		40	400
2287 ZANETIS OIL PROP	ALEXANDER	BTE GEN	23=3N=11W	61	613	1.3	23	61
		BTE GEN						580
BENTON, FRANKLIN								
1300 SHELL OIL CO.	BENTON U	TAR SPRINGS	23,24,25,26,35,36=68=2E	737	280046	18.0	19583	797
		TAR SPRINGS	27, 18, 30, 31=68=3E					164760
1314 SHELL OIL CO.	SHELL-BENTON DEEP	AUX VASES	25,36=68=2E	504	10112	14.0	1660	365
		OHAMA						6023
		MCCLOSKEY						
BENTON N, FRANKLIN								
1328 FARRAR OIL CO.	BENTON NORTH UNIT	SETHEL	25,35,36=58=2E		3458		740	1855
		AUX VASES						
		OHAMA						

RESEVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79			INJECTION WATER		
FIELD, COUNTY		PERM	OIL	OATE	OATE	NO. OF	ACRES		SOURCE		TYPE		REMARKS		
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	(MO)	GRAV (API)	FIRST INJ.	ASD.	UNDER INJ.	SUBSANO	GHGRAVEL	(F) FRESH (B) BRINE (M) MIXED				
ALLENOALE, LAWRENCE, WABASH CONTINUED															
*3952	1920	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 800 (F)	*ESTIMATED SINCE 1971			
	1495	13.0	14.9	100											
3871	1920	20.0	15.0	200	35.0	06-64		3	8	100	SH 50 (F)	*ESTIMATED SINCE 1972			
3883	1996	10.0			37.0	05-64		1	3	40	SH 80, 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	80	SH 80, PROD (M)	*ESTIMATED SINCE 1972			
3996	1375	15.0	18.0	200	37.0	10-62		3	3	50	SH 80, PROD (M)	*ESTIMATED SINCE 1972			
3909	1500	18.0	15.0	1400	34.0	09-53		3	3	40	TAR SPRG, PROD (B)	*INJ IN LINE WELLS SINCE 1969/ *NO DATA SINCE 78			
	1538	18.0													
3911	1450	20.0	18.0		36.5	10-66		3	6	153	SH 80 (F)				
*3966	2120	20.0	20.1	115	33.5	07-59	12-69	10	14	180	PRODUCED (B)	*INCL 3992			
*3993	1500	11.0	18.6	48	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	2	2	20		*ADJ TO 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 80, PROD (B)	*ESTIMATED SINCE 1968			
3868	1500	15.0			37.0	04-65		1	3	60	PENN 50, PROD (B)	*ESTIMATED			
*3973	1480	13.0	15.0	160	32.9	03-61	09-67	6	3	60	SH 50, 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	600	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	8	280	PRODUCED (B)	*ESTIMATED SINCE 1976			
BARNHILL, WAYNE, WHITE															
*4103	3350	9.0			39.0	01-51	03-63	10	22	260	CYPRESS (B)	*TEMP SHUT-DOWN 3-72			
4170	3300	14.0			38.2	10-63		4	4	120	PENN 50 (B)	*INJ, CURTAILED 10-73			
4171	3560	15.0			36.9	10-63		5	4	140	PENN 80 (B)				
*4199	3328	25.0				11-63	12-70	2	4	70	PENN 50, 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 50, PROD (B)				
*4105	3323	8.0	20.1	108	39.0	10-56	12-59	2	6	40	PENN 50, PROD (B)				
BARTELBO, 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	TAR 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	280	PENN 50 (M)	*ESTIMATED 1979			
BEAUCOUP S, WASHINGTON															
4005	1440	6.0	19.0	240	36.0	11-60		7	10	230	PENN 80, 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, BOND, 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	20	PRODUCED (B)				
BEAVER CREEK S, BOND, CLINTON															
415	1180	12.0			33.0	08-69		1	4	40	CYPRESS, PENN (B)	*UUMP 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 80, 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 80, PROD (M)				
BELLE PRAIRIE, HAMILTON															
1577	3400	7.0				03-68		1	8	160	PRODUCED (B)	*EST. *INCL, PRIM SINCE 70			
BEMAN, 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		23	18	2200	LAKE, PROD (M)				
1314	2760	17.0	18.2		39.0	05-62		9	6	550	CYPRESS, PROD (M)				
	2810	7.0						5	7	320					
	2890	12.0						3	6	320					
BENTON N, FRANKLIN															
*1328	2550	8.0				02-66	04-71	6	9	140	VEGONIA, PROD (B)				
	2660	12.0						6	9	140					
	2730	5.0						4	4	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.			
A B O				1979	12/79	1979			
P M				12/79	1979	12/79			
BENTON N, FRANKLIN CONTINUED									
*1328 FARRAR OIL CO.	BENTON NORTH	MCCLOSKEY	PAINT CREEK 36-58-2E	+	1241**	+	113*	+	700**
1332 M & W OIL CO.	NORTH BENTON UNIT		PAINT CREEK 1-68-2E		3673*		466*		1456*
*1326 SHAKESPEARE OIL			OMAHA SPAR MTN						
BERRYVILLE C, EDWARDS, WABASH									
*3962 PHILLIPS PET. CO	TARPLEY C	MCCLOSKEY	2-1N-14W		35				103
*3963 PHILLIPS PET. CO	TOWNSEND	MCCLOSKEY	35-2N-14W		50				86
1024 RK PET. CORP.	W SALEM WFU	SPAR MTN	9-1N-14W	50*	1666	3.2	409	50*	673
BLACKLAND, CHRISTIAN, MACON									
*2300 FEAR AND DUNCAN	DANERY C	SILURIAN	5-15N-1E		6				6
BONE GAP C, EDWARDS									
1013 H. G. CANTRELL	BONE GAP UNIT	WALTERSBURG	18-1S-14W	80	3023*	4.7	58T	80*	3023*
1034 BERNARD POOLSKY	BONE GAP SOUTH U	CYPRESS	19-18-14W	40*	532	3.6	35	3T	204
BOULDER, CLINTON									
*411 TEXACO, INC.	BOULDER BENOIST 80 U	BENOIST	2-2N-2W, 3S, 36-3N-2W		9234		681		4368
BOURBON C, DOUGLAS									
800 T. J. LOGUE	BOURBON POOL WF	SPAR MTN	2, 11, 12-15N-7E		6000		506*		
BOYO, JEFFERSON									
2000 N. A. BALDRIDGE	BOYO FIELD UNIT	BENOIST	18, 19, 20, 29, 30-18-2E/	240*	58749**	8.2	4336	240*	47199*
		AUX VASES	13, 24, 25-18-1E		18628*				
BROWN, MAHON									
2615 DONALD G. SEARY	LEONARD-LANCASTER	CYPRESS	16-1N-1E	7	465	0.3	28	4	233
BROWNS, EDWARDS, WABASH									
3850 GALLAGHER DRILLING	SCHONAMAN WF	OMAHA	3, 10-2S-14W	39	640*	14.3	362*	7	113*
1021 SUPERIOR OIL CO.	BROWNS U CYP=BETHEL	CYPRESS	28, 33-18-14W	18	2592	2.1	432	14	766
		BETHEL			1141*				
3894 TARTAN OIL CO.	BROWNS U	TAR SPRINGS	33-18-14W	90*	1462*	3.9	84	90*	1081*
		CYPRESS							
BROWNS E, WABASH									
3912 T. W. GEORGE EST.	BELLMONT WF ASSOC	CYPRESS	1, 2, 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	11-2S-14W	147	1207	2.4	142	22	526*
3913 MOBIL OIL CORP.	BELLMONT	CYPRESS	2, 11-28-14W		822		582		268
BUNGAY C, HAMILTON									
*1554 ALENE BLADES	HAYES	AUX VASES	15-48-7E		488		41		140
1574 C. E. BREHM	BUNGAY	AUX VASES	15, 16-48-7E	30*	6285*	2.3	703	30*	6285*
1550 COLLINS BROS.	SOUTH BUNGAY UNIT	RENAULT	34, 35-48-7E	120*	5369*	3.9	341	120*	3703*
1558 COLLINS BROS.	NORTH BUNGAY	RENAULT	13, 14, 23, 24-48-7E	25*	5980*	0.4	509	25*	3423*
		AUX VASES							
1572 COLLINS BROS.	DOELL	AUX VASES	17-48-7E	200*	1740*	10.8*	167*	200*	1740*
1576 WALTER DUNCAN	WALKER	AUX VASES	16-48-7E	30*	1353*	1.4	47	30*	1353*
1555 EXXON	BUNGAY A V UNIT	AUX VASES	14-48-7E	24	1211	2.9	379	24	410
1527 FEAR AND DUNCAN	O'DELL	RENAULT	16-48-7E	75*	964*	6.1	158	75*	936*
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**		8487**
*1500 TEXACO, INC.	BLAIRSVILLE U	AUX VASES	16, 17, 20, 21-48-7E		7692		699		2457
*1530 TEXACO, INC.	J. A. LYNCH	AUX VASES	16-48-7E		1921		75		707
CALMOUN C, RICHLAND, WAYNE									
*3400 ASHLAND O AND R	CALMOUN	MCCLOSKEY	7, 18-2N-10E, 13-2N-9E		3032		157		
3401 SAM TIPPS	BOWLANDER UNIT	MCCLOSKEY	6, 7-2N-10E		2175		235*		1681*
3447 UNION OIL CALIF.	CALMOUN	MCCLOSKEY	12, 13, 24-2N-9E		6000		405*		6000*
CALMOUN E, RICHLAND									
3423 ALVA C. DAVIS	SLUNAKER	MCCLOSKEY	7-28-11E		93		1*		4*
CALMOUN S, EDWARDS, RICHLAND, WAYNE									
4086 ZANETIS OIL PROP	RUTGER	MCCLOSKEY	1, 2-1N-9E	51	327	8.8	164	51*	326*
CARLYLE N, CLINTON									
407 T. M. CONREY, JR	KREITEMEYER	BENOIST	23-3N-3W	60*	1130*	3.6	103	60*	553*
CARMH, WHITE									
4402 ROYAL O AND G	NIEKAMP	MCCLOSKEY	26-58-9E	58	458**	3.9	84**	58	458**
CARMH N, WHITE									
4443 NICK SABARE	GATES-REBSTOCK	AUX VASES	3, 4-58-9E	20*	1025*	2.1	77*	20*	785*
CABEY, CLARK									
*217 CALVAN AMERICAN	SMAYNER	CABEY	23, 24-10N-14W		49				
*201 FOREST OIL CO.	CABEY	CABEY	14, 15, 23-10N-14W		8030		462		
*202 O. W. FRANCHOT	N. CABEY	CABEY	33, 34-11N-14W		3032		34		
			4, 5-10N-14W						
CENTERVILLE, WHITE									
4409 ABBER OIL CO	BROWN UNIT	OMAHA	2-48-9E	16*	444*	0.5	15	14*	184*
4267 O. S. LESM	CENTERVILLE E	SPAR MTN	12-48-9E				4		4
CENTERVILLE E, WHITE									
4203 ABBER OIL CO	E. CENTERVILLE UNIT	TAR SPRINGS	18-48-10E	60*	10318*	3.1	1026	60*	8285*
		CYPRESS							
		BETHEL							
		AUX VASES							
4379 ABBER OIL CO	EAST CENTERVILLE UNIT	TAR SPRINGS	7, 8, 17-48-10E	400*	25700*	17.8	2241	400*	18875*
		WALTERSBURG							
		CYPRESS							

RESERVOIR STATISTICS (AV. VALUE)												DEVELOPMENT AS OF 12-31-79			INJECTION WATER		
FIELD, COUNTY												NO. OF WELLS			SOURCE TYPE		
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	PERM (MO)	OIL GRAV (API)	OATE FIRST INJ.	OATE 2ND INJ.	NO. OF WELLS	ACRES UNDER	BU SAND	(F) FRESH	(H) BRINE	(M) MIXED	REMARKS			
BENTON N, FRANKLIN																	
CONTINUED																	
*132A	2800		4.0					3	4	140							
1332	2550		12.0			39.6	06-69	4	4	100				PRODUCED (H)			
*132B	2590		9.2	15.0	22	36.0	12-66	12-77	5	13	180			PENN SU (H)			
	2755		6.0	12.0				1	3	80				*ESTIMATEU 1974-77			
	2800		6.0					1	1	40							
BERRYVILLE C, EDWARDS, WABASH																	
*3942	2890		10.0				09-52	01-53	1	2	14			TAR SPGS, PROD (H)			
*3943	2890		10.0				02-52	06-53	1	2	27			TAR SPGS, PROD (H)			
1024	2990		10.0				01-70		1	1	200			SUPPLY WELL (M)			
														*ESTIMATEU 1979			
BLACKLAND, CHRISTIAN, MACON																	
*2300	1920		10.0			37.0	10-63	12-63	1	2	80			AUX VASES (H)			
BONE GAP C, EDWARDS																	
*1013	2310		20.0	18.0	120	34.6	06-52		1	10	120			PRODUCED (H)			
1034	2320		10.0	17.3			02-66		1	2	100			PRODUCED (H)			
														*ESTIMATEU SINCE 1973			
BOULDER, CLINTON																	
*411	1200		25.0	17.9	104	34.6	09-60	10-64	25	17	470			PROD (H)			
BOURBON C, DOUGLAS																	
*800	1600		12.0			34.0	09-59	11-66	18	30	800			PRODUCED (H)			
														*DATA WERE ESTIMATEU			
BOYO, JEFFERSON																	
2000	2065		17.3	17.5	173	39.5	06-55		2	8	1564			PRODUCED (H)			
	2130		11.9	21.4	24	36.8	03-55		5	10	569			*ESTIMATEU SINCE 70 + INCLUDES BOTH PAYS SINCE 76			
BROWN, MARION																	
*2615	1650		10.0			33.0	07-60		1	2	40			PRODUCED (H)			
BROWNS, EDWARDS, WABASH																	
3850	3022		8.0			35.4	11-66		2	4	380			SH 80 (F)			
1021	2640		8.2	16.8	106	36.8	11-59		1	3	190			PRODUCED (H)			
	2780		6.3	17.5	5	36.8				3	120			*ADJUSTED BY OPERATOR			
3894	2300		10.0	16.0			11-62		2	2	60			PRODUCED (H)			
	2600		15.0	17.0					11	7	180			*ESTIMATEU			
BROWNS E, WABASH																	
*3912	2570		13.0				01-51	01-57	18	18	290			SH 80, PROD (M)			
*3914	2560		8.0			37.0	04-56	09-74	1	2	75			PENN SU, PROD (H)			
3950	2580		7.0	16.0		35.0	08-67		2	4	139			GRAV BED (F)			
*3913	2570		11.0			35.0	11-47	07-63	2	8	169			TAR SPGS, PROD (H)			
														*ADJUSTED			
														*NO INJ SINCE 12-58			
BUNGAY C, HAMILTON																	
*1554	3275		13.5	21.8	104	36.0	09-65	12-70	2	4	60			SH 80, PROD (M)			
1574	3270		12.0				11-64		2	25	270			PRODUCED (H)			
1550	3280		6.0	12.0	244	38.5	08-64		7	7	300			PENN SU, PROD (H)			
1558	3280		8.0	18.9	325	39.0	09-65		4	5	100			PENN SU (H)			
	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	3	40			PRODUCED (H)			
1555	3275		12.0	20.6	312	36.6	05-69		1	5	220			PRODUCED (H)			
1527	3254		12.0	14.0	350	38.0	01-67		1	4	60			PRODUCED (H)			
*1519	3331		15.0	20.0	80	39.1	09-66	04-73	3	4	90			SH 80, PROD (M)			
*1522	3300		17.0	22.0	182	41.0	05-61	1-76	8	5	390			CYPRESS, PROD (H)			
*1500	3330		15.5	19.6	92	37.0	06-48	07-64	10	12	440			PENN, PROD (H)			
*1530	3300		25.0	17.8	107	37.0	09-61	10-68	5	5	130			PENN SU, PROD (H)			
														*ESTIMATEU SINCE 1970			
														*ESTIMATEU 1971-73			
														*ESTIMATEU + NO DATA 1975-76			
CALHOUN C, RICHLAND, WAYNE																	
*3400	3150		6.0			37.0	09-51	08-64	3	8	280			CYPRESS (H)			
*3401	3130		10.0	11.2	67	39.0	06-50	12-66	3	10	220			PRODUCED (H)			
*3447	3175		20.0				01-49	12-64	8	13	570			PRODUCED AND CYPRESS			
														*NO DATA 1959-1966			
														*ESTIMATEU			
CALHOUN E, RICHLAND																	
*3423	3268		10.0			37.2	08-65	12-71	2	3	100			TAR SPR, PROD (H)			
														*INACTIVE 1966-71			
CALHOUN S, EDWARDS, RICHLAND, WAYNE																	
4086	3250		23.0			39.0	08-64		1	5	80			PRODUCED (H)			
														*ESTIMATEU			
CARLYLE N, CLINTON																	
407	1142		7.0			34.0	06-55		1	7	80			PRODUCED (H)			
														*ESTIMATEU			
CARMI, WHITE																	
4402	3143		8.0			30.0	09-65		1	2	60			PENN SD, PROD (H)			
														*EST 75-78 + ADJ BY OPERATOR			
CARMI N, WHITE																	
4443	3230		13.0				6-59		1	4	80			PENN & PROD (H)			
														*ESTIMATEU + INCL PRIM SINCE 1959			
CASEY, CLARK																	
*217	450		21.5	22.4	108	31.8	08-53	08-54	9	4	40			SH 80 (F)			
*201	450		10.0			31.9	03-50	03-61	76	66	280			GRAV BED AND PROD (M)			
*202	290		20.0	21.5	400	26.0	12-53	12-68	15	12	40			SH 80, PROD (M)			
CENTERVILLE, WHITE																	
4409	3360		13.0			37.0	12-65		1	1	20			PENN SU (H)			
*4267	3366		7.0			43.0	06-54	12-55	1	1	20			TAR SPRINGS (H)			
														*ESTIMATEU			
														*INCL PRIMARY SINCE 6-54			
CENTERVILLE E, WHITE																	
4203	2470		17.0	16.0	97		03-56		5	8	130			PALESTINE, PROD (H)			
	2850		17.0	15.0	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	15.7		36.6	01-63		22+	17+	420+			SH 80, PROD (M)			
	2632		10.0						1	1	10						
	2850		39.0	14.4					16	16	340			*ESTIMATEU + INCL 4246 WELLS AND ACREAGE			

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL/D)			
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				1979	12/79	1979	12/79
+ = P.M.				1979	12/79	1979	12/79
CENTERVILLE E, WHITE CONTINUED							
4379	ABSMER OIL CO	BETHEL					
		AUX VASES					
		MCCLOSKEY					
4394	ABSMER OIL CO	JONES-BAIRO		30*	1329*	1.6	139
4376	NICK BABARE	JONES ESTATE		25*	1249*	1.2	182
4246	SUN OIL CO.	E, CENTERVILLE			269		39
CENTRAL CITY, MARION							
2623	WILLIAM PFEFFER	PFEFFER U	PENNSYLVANIA	25*	37*	1.3	28
CENTRALIA, CLINTON, MARION							
419	KARCHMER PIPE	KARCHMER-TRENTON	TRENTON	20*	3765	20.9	535
							20*
							1766*
403	M. D. MORGAN	CENTRALIA FIELD	RENOIST		880*		98*
420	MUBERT ROSE	BUEHLER COMM	DEVONIAN		450*	14664*	15.9
412	FRED SEIP	ROTHMEYER, BUEHLER, COE	CYPRESS	20*	1167*	0.9	73
416	FRED SEIP	HEFTER MHS	BENOIST		90*	898*	4.9
404	SHELL OIL CO.	CENTRALIA U	CYPRESS	102*	2564*	25.7	11245
							957
							10750*
408	DOMIO PETROLEUM	COPPLE TRENTON	BENOIST		236		74
							21
CHESTERVILLE E, DOUGLAS							
801	ROYAL CO, INC.	ARCOLA UNIT	SPAR MTN		6471		1130
							1977
CLARKSBURG, SHELBY							
3303	SCHAEFER OIL CO.	CLARKSBURG	BENOIST		10*		4*
							10*
CLAY CITY C, CLAY, JASPER,							
1900	ASHLAND O AND R	8008 EAST	MCCLOSKEY		333		16
3402	ASHLAND O AND R	NOBLE NORTH	MCCLOSKEY		318		8
1928	ATHENE DEVEL.	ROBERTSON-SHOWERS	MCCLOSKEY				91
3419	WM. BECKER	WAKEFIELD-MARRELL U	CYPRESS	60*	2733*	3.5	421
362	C. E. 8007M	STANFORD	AUX VASES		175		35
381	C. E. 8007M	HURO & PETTIOHNN	AUX VASES	10*	545*	0.2	32
1915	C. E. 800TH	DELLA MARVE	SPAR MTN	30*	998*	1.2	94
3405	C. E. 800TH	S. NOBLE CONSLO	MCCLOSKEY	10*	4017*	1.2	167
							10*
							1647*
3403	M. L. BROCKMAN	EAST NOBLE UNIT	SPAR MTN		3464*		251*
380	BRUER & ROBINSON	NORTH CLAY CITY	CYPRESS		4500*		311*
4064	CARL BUSBY	G87N, 8MS, MNBS, FBL, MCN	AUX VASES	200*	1545*	14.6	120
4107	CONTINENTAL OIL	WILSON 'B'	SPAR MTN		212		13
4073	COY OIL CO.	EAST GEFF	AUX VASES		581		32
4147	CULLUM OIL CO.	ROBERTSON-BING-CREWS	AUX VASES	150*	3466*	9.4	252
1913	ODHAN OIL PROP.	BERGBOWER	MCCLOSKEY		141		17
4109	F AND W OIL CO.	MILLER-LAMBRICH U	OHARA				144
							144
4146	F AND W OIL CO.	MT. ERIE UNIT	AUX VASES		8541*	4.6	1092
4174	FANRAR OIL CO.	MOLY	AUX VASES	100*	1439*	4.0	158*
							45*
							5094*
4156	FARMER PETR COOP	BEARD, BORAH, WILSON U	AUX VASES		815*	1.1	384
1927	FINKS OIL CO.	ROUTE 33	MCCLOSKEY	150*	2110*	9.5	129
4111	GALLAGHER DRILLING	H. OBERMAN	AUX VASES	201*	944*	4.4*	57*
							108*
							663*
4175	OSWALD W. GEBELL	NE GEFF UNIT	AUX VASES	13	284*	3.6	53*
4173	J. O. GORDON	BOTHWELL	MCCLOSKEY	50*	809*	2.5*	101*
1906	GLEN BRIFITH	WILLOW HILL COOP	MCCLOSKEY		116**		26*
317	GULF OIL CO	S. STANFORD U	AUX VASES		2805		370
4130	GULF OIL CO	WINDNA	MCCLOSKEY		25		300
4094	ILL. L&E, OP.	BLACKBURN	AUX VASES		47		6
4141	ILL. L&E, OP.	MILL, THOMPSON, GRON,	AUX VASES		610		36
4197	ILL. L&E, OP.	BORAH	AUX VASES		15*		61
4198	ILL. L&E, OP.	J. O. VUROLAS	OHARA		205*		41*
4184	ILL. MID-CONT.	CREWS-SHORT COUP	AUX VASES		503*		34*
4119	KIRBY PETROLEUM	KIRBY	AUX VASES		2464		360
1925	O. R. LEAVELL	NEWTON EAST	MCCLOSKEY	60*	1140*	3.2	80*
							60*
							882*
4057	E. K. LEWIS	DLIE GROVE	MCCLOSKEY	10*	267*	0.9	50*
4056	OAE V LOVE	AVRES	SPAR MTN			9.4	87
4140	OAE V LOVE	BARNARD-MOLMAN-LISTON	AUX VASES	30*	670*	2.9	83
3416	MARATHON OIL CO.	NOBLE COOP U	MCCLOSKEY				
3421	HURVIN OIL CO.	WAKEFIELD POOL U	CYPRESS		2966**	11.8	445
4055	HURVIN OIL CO.	ELM RIVER FLOOD	AUX VASES		1330**		170**
4058	HURVIN OIL CO.	BORAH	AUX VASES				53*
4060	HURVIN OIL CO.	PIKE	AUX VASES	70*	1087*	3.3*	53*
4092	NOAM PET	CREWS MIDDLE UNIT	AUX VASES	190*	3900	5.0	170
300	O M AND F OIL CO	N CLAY CITY U	MCCLOSKEY		319*		154*
372	PARTLOW, COCHNOR	HENDERSON & SKELTON	CYPRESS	120*	1545*	13.3	249
							120*
							1570*
4069	PARTLOW, COCHNOR	HOBBELTON & GILL	SPAR MTN	100*	1310*	5.1	165
							100*
							1360*
301	PHILLIPS PET. CO	MINNIE	SPAR MTN		181		79
3427	BERNARD POODLSKY	COEN U	AUX VASES	13	253	0.8	41
3449	BERNARD POODLSKY	CLARK-GROSS-EVANS	CYPRESS	70*	840*	7.2	158*
4087	BERNARD POODLSKY	W JEFFERSONVILLE	AUX VASES	10	668	0.9	45
4149	BERNARD POODLSKY	MARSHALL	AUX VASES		640*	0.7	26*
4159	BERNARD POODLSKY	NW FAIRFIELD U	OHARA	31	2754	8.0	359
4194	BERNARD POODLSKY	GRAY	AUX VASES	18	1932	2.3	101
4082	RAYMAC PETROLEUM CO.	CREWS-SHORT COUP	AUX VASES	68	1414	2.1	176
384	E S REYNOLDS EST.	WEILER, EDENS, HOSLEY, DEHART	CYPRESS		1005**	9.4	289
							289
							1005*
1901	ROBINSON PROD.	NE MCCLOSKEY U NO 1	MCCLOSKEY		1367		282
1902	ROBINSON PROD.	WILLOW HILL, SE BAR	MCCLOSKEY		332*		639
4046	ROBINSON PROD.	GILL-BISSEY-GRITH	AUX VASES	90	310	10.4	44
							90
							310

RESERVOIR STATISTICS (AV. VALUE)				DEVELOPMENT AS OF 12-31-79				INJECTION WATER			
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE	REMARKS	
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	(MO) (API) INJ.	(MO) (API) INJ.	WELLS	UNDER PRODUCTION	30-BAND GR# GRAVEL PRODUCE	(F) (M) MIXED		

CENTERVILLE E, WHITE CONTINUED

4379	2980	18.0	14.1			15	16	330			
	3080	19.6	19.6	109		18	15	350			
	3225	6.0				1	2	60			
4394	2910	15.0	14.4	109	36.6	10-63			PRODUCED (B)		*ESTIMATED
4376	2500	16.0	15.7	21	35.4	09-63			PURCHASED (B)		*ESTIMATED
*4246	2530	6.0			36.6	10-50	09-57		PRODUCED (B)		*ACREAGE&WELLS INCL. W/4379

CENTRAL CITY, MARION

2623	864	22.0			34.0	10-64	1	5	60	PRODUCED (B)	*ESTIMATED
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CENTRALIA, CLINTON, MARION

419	3950	99.9			40.0	11-66	21	32	1080	AUX VASES (R)	*ESTIMATED 1974.	
* 403	1368	10.0			38.0	10-55	01-74	1	3	40	CYPRESS, PROD (B)	*ESTIMATED
420	2080	29.0			38.8	06-66		2	2	269	PRODUCED (B)	*ESTIMATED
412	1200	10.0		80	34.0	11-60		3	6	45	PRODUCED (B)	*ESTIMATED SINCE 1970
416	1360	10.0			35.0	09-70		1	5	100	PRODUCED (B)	*ESTIMATED SINCE 75; CORRECTED
404	1200	20.4	20.2	225	34.8	05-56		90	61	1450	PENN. A V, DEV SOURCE#1	
	1350	19.6	19.6	186						1560	CYP, DEV, PROD (B)	
* 408	3950	22.0	10.0		39.8	11-51	03-73	2	12	160	DEVONIAN (B)	

CHESTERVILLE E, DOUGLAS

* 401	1725	10.0	16.0	167	38.0	09-61	08-73	14	24	780	RIVER, PROD (M)	
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CLARKSBURG, SHELBY

*3403	1775	11.0				10-74	10-75	1	2	30	PRODUCED (B)	*ESTIMATED
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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 (R)	
*1928	3275	25.0				6-66	01-79	5	4	80		*ADJ TO PROJ. 1922 SINCE 661
3419	2540	28.0	18.0	140		07-60		5	5	100	PENN 30, PROD (B)	*ESTIMATED SINCE 1970
* 362	2970	10.0			36.0	12-66	04-73	1	1	20	PENN 80, PROD (R)	
381	2960	16.0				11-71		3	5	80	PRODUCED (R)	*ESTIMATED
1915	2960	10.0	13.6		35.1	03-62		2	3	50	PENN 30, PROD (B)	*ESTIMATED SINCE 1968
3405	2975	5.0	15.0	24		07-57		1	2	448	PRODUCED (B)	*ESTIMATED SINCE 1970
*3403	2950	11.0			38.0	05-55	12-71	5	18	260	PRODUCED (B)	*NOT OPERATED 1968-1971
* 380	2630	15.0				06-58	03-67	3	13	160	SM, SU, PROD, (M)	*ESTIMATED
4064	3090	10.0				1-72		3	7	120	PRODUCED (B)	*ESTIMATED SINCE 1974
*4107	3160	10.0				04-55	04-63	1	2	40	CYPRESS, PROD (R)	
*4073	3075	10.0	19.0	30	40.0	01-69	01-72	3	3	100	SM BAND (F)	
4147	3130	12.0			39.0	01-61	4	10	250	PENN 30, PROD (B)	*ESTIMATED SINCE 1973	
*1913	2850	16.0				10-60	12-64	1	10	240	CYPRESS (R)	
*4109	3060	15.0				08-50	01-63	4	4	150	CYPRESS (R)	*DUMP FLOOD, NO RECORD
	3080	15.0						4	4	150		
	3100	15.0						4	4	150		
4146	3000	11.0	13.0	16	40.2	10-60		6	12	720	SM 80, PROD (M)	*SMU INTO CYP. + EST. SINCE 71
4174	3121	7.0				08-64		1	3	40	PRODUCED	*ARU 1965-66; +EST. SINCE 1976
								1	3	40		
4156	3100	14.0			40.0	07-62		2	4	200	PENN 30 (R)	*SMU SINCE 12-69
1927	2950	23.0				06-69		1	4	110	PRODUCED (R)	*ESTIMATED
4111	3050	15.0				06-71	05-75	2	4	70	PENN SAND, PROD (B)	*ADJUSTED BY OPERATOR
	3100	8.0				04-58				70		
	3150	10.0				06-71	05-75			70		
4175	3031	15.0	20.0	27	38.5	02-64		1	3	50	PENN 30, PROD (B)	*TEMP ADJ 9-70 TO 1-77
4173	2990	5.0			37.0	07-63		2	2	20	PRODUCED (B)	*EST. + AFFECTED BY ADJ A.V. FLOOD
1906	2634	9.0	15.0	24		06-57		1	1	70	PRODUCED (B)	*EST. + NO DATA 6-74 AND SINCE 78
* 317	2975	11.8	19.8	97	38.8	05-54	12-60	9	4	170	PENN 30, PROD (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 30 (R)	
*4141	3130	12.0			32.6	03-60	10-65	3	7	160	PRODUCED (B)	
*4197	3040	22.0				01-66	01-73	1	1	20	PRODUCED (B)	*INJ SUSPENDED 8-64
*4198	3215	20.0			38.0	10-62	08-68	1	3	40	PENN 80 (B)	*NO DATA BEFORE 1965
*4184	3154	15.0	14.0	40		12-65	05-74	3	3	60	PENN 80 (R)	*ESTIMATED
*4119	2900	5.0	19.0		38.0	01-55	05-62	4	15	400	PENN 30, PROD (B)	
1925	2650	15.0				08-70		4	12	280	CYP, SURFACE (M)	*INACTIVE 72-73; +EST SINCE 74
	2950	18.0						3	12	280		
4057	3064	12.0				12-58		1	1	30	PRODUCED (B)	*EST. + INCL PRIM SINCE 1956
4056	3250	14.0				8-69		1	1	20	AUX VASES	*EST. + ACCIDENTAL DR DUMP FLOOD
4140	3135	13.0			38.4	12-60		2	4	60	PRODUCED (B)	*ESTIMATED SINCE 1970
*3416	2500					08-54	10-60	3	8	120	PRODUCED (B)	*INCL WITH 3409
3421	2535	21.0			35.0	10-60		6	13	320	TAR SPGS (B)	*INJ. TERMINATED 1973; +EST
*4055	3025	15.0				8-63	8-69	5	4	150	PRODUCED (B)	*EST. + NO DATA
*4058	3000	24.0				10-60	12-72	5	2	30		*EST. + ADJ. TO 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 30, PROD (B)	*ESTIMATED 1979 ONLY
* 300	3010	5.0				06-55	01-76	4	4	220	RIVER, PROD (M)	*ESTIMATED
372	2650	10.0				06-69		1	4	80	PRODUCED (B)	*ESTIMATED
	2920	20.0						1	4	80		
	3002	8.0						1	5	80		
4069	2640	12.0				06-68		1	5	60	PRODUCED (B)	*ESTIMATED
	3010	8.0						1	5	60		
* 301	2990	30.0	14.0	2000	38.5	07-53	05-58	1	1	20	PROD (B)	
3427	2800	6.0			36.0	05-64		1	4	50	PENN 30, PROD (B)	*DATA NOT AVAILABLE
3449	2615	9.0				07-62		1	5	60	PRODUCED (B)	*EST. + INCL. PRIM. SINCE 66
4087	3120	13.0				06-67		3	8	120	SM WELL (F)	
4149	3120	20.0			38.0	11-65		3	8	120	PURCHASED (F)	*INJECTION CURTAILED 10-73
4150	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 (R)	
4082	3100	21.0				04-67		2	4	70	PRODUCED (R)	
384	2600	20.0				06-61		1	11	120	PRODUCED (B)	*ESTIMATED +ADJ. TO PROJECTS 335 & 358 SINCE 1961; INCL SOME SALEM OIL
	2910	11.0						1	1	20		
	2975	4.0						1	1	20		
*1901	2530	6.2	14.0		38.0	05-51	01-70	2	6	235	PRODUCED (B)	
*1902	2560	8.2	14.0		40.0	05-53	01-70	3	5	415	SM 80, PROD (M)	
4046	2884	8.0			39.0	8-76		1	5	70	PRODUCED (R)	

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY	PROJECT U = UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION		OIL PRODUCTION		WATER PRODUCTION		
PROJECT NO., OPERATOR				TOTAL	CUM.	TOTAL	CUM.	TOTAL	CUM.	
• ABO				1979	12/79	1979	12/79	1979	12/79	
• P.M.										
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY										
CONTINUED										
4048	ROBINSON PROD.	HINKEL	AUX VASES	33,34=1N=8E	23	49	17.8	37	23	49
4067	ROBINSON PROD.	NE GEFU-HURPHY	AUX VASES	5,6=18=8E	107	933	11.3	123	35	210
			OHAMA							
4068	ROBINSON PROD.	CARTER U	AUX VASES	28,29,32,33=1N=8E	30	242	8.9	52	18	24
4084	ROBINSON PROD.	WESLEY FELLER	AUX VASES	7=1N=8E		368		83		408
4179	ROBINSON PROD.	MILLER S THACKER	AUX VASES	19=18=8E	88	489	4.0	75	40	251
4115	ROBINSON, PUCK.	N PUCKETT U	AUX VASES	9=28=8E		966		122		
4116	ROBINSON, PUCK.	S PUCKETT U	AUX VASES	16=23=8E		4337		458		1798
1918	HUBERT ROSE	LIBERTY W UNIT	MCCLOSKY	16,21=5N=10E		319		24		24
1930	HUBERT ROSE	MCCLANE-HAY	MCCLOSKY	8,17=6N=10E	75	925	3.5	176	75	925
1931	HUBERT ROSE	HATTINGLY	AUX VASES	5=5N=10E			3.4	58	30	360
			SALEM							
3433	HUBERT ROSE	OUNOAS WEST UNIT	MCCLOSKY	28,33=5N=10E		1384		65		170
3436	HUBERT ROSE	SOUTH NOBLE UNIT	MCCLOSKY	29,32=3N=9E	80	1993	1.4	139	80	1192
4186	HUBERT ROSE	BYCAMORE CONSOL	AUX VASES	22,23,24=2N=7E	300	4033	11.6	283	300	2578
			MCCLOSKY							
347	J. W. RUOY ORLG.	EO WILSON	AUX VASES	32=3N=8E		235		44		41
363	J. W. RUOY ORLG.	CLARK LEASE	CYPRESS	20=3N=8E		62		7		32
4088	J. W. RUOY ORLG.	FLEXTER	AUX VASES	3=1N=7E	20	546	0.9	145	20	373
3444	PREO BEIP	R. S. SHAYTO	MCCLOSKY	20=3N=9E	100	1529	8.9	158	100	1569
3445	SHAKESPEARE OIL	RUNYON-TOTTEN U	SPAR MTN	25=3N=9E	54	611	5.0	33	44	336
4117	SHAKESPEARE OIL	E. BANKER SCHUL U	CYPRESS	22=2N=8E		801		219		587
4118	SHAKESPEARE OIL	E. GEFU UNIT	AUX VASES	12,13=18=7E, 7,17,18=18=8E		953		966		3900
			OHAMA							
4166	SHULMAN BROTHERS	W GEFU U	AUX VASES	28,33=1N=7E/3,4=18=7E	100	3711	4.2	212	100	2392
			OHAMA			467				
			MCCLOSKY			2900				
4177	SHULMAN BROTHERS	NE GEFU U	AUX VASES	1,11,12,13=18=7E	60	9879	3.4	131	60	4640
4196	JOE SHIMPINS OIL	HEISNER UNIT	AUX VASES	3=28=8E,33,34=18=8E		2344		239		1033
3428	WAYNE SMITH, OP.	ONION HILL U	AUX VASES	1,12=4N=9E, 36=5N=9E		5929		158		3127
			SPAR MTN			427		22		240
4190	S. ILL. OIL PROD	SOUTH CIBNE U	AUX VASES	27=1N=7E	15	800	0.6	93	15	603
1907	M. M. SPICKLER	WILLOW HILL	MCCLOSKY	36=7N=10E				2		
4047	TAHARACK PET.	ANON=FRHN=JRON=Wilson	AUX VASES	23=2N=8E	20	1045	0.3	111	20	1045
4079	TAHARACK PET.	BLACK OAK SCHUL U	AUX VASES	22,23,26,27=13=8E	730	8657	20.3	333	124	1450
4081	TAHARACK PET.	CLAY UNIT	AUX VASES	9,10,15,16=18=8E	250	3177	0.5	104	5	464
4095	TAHARACK PET.	EAST CLAY	AUX VASES	10=13=8E		284		19		36
4108	TAHARACK PET.	PIERCE	SPAR MTN	22=2N=8E		1013		86		922
4157	TAHARACK PET.	S.W. MT. ERIE U	AUX VASES	4=13=8E	104	2187	2.4	98	74	509
4191	TAHARACK PET.	CIBNE UNIT	AUX VASES	3,9,10=13=7E	48	3056	1.3	392	46	815
4193	TAHARACK PET.	WILSON U	AUX VASES	23,26=2N=8E		2845		347		1354
4132	TEXACO, INC.	E. GALLIGHER	MCCLOSKY	2=28=7E		32				
4144	SH TIPPB	W GEFU U	AUX VASES	16,17,21=18=7E		1690		105		1137
302	UNION OIL CALIF.	T M & S UNIT	CYPRESS	9,10=2N=8E	167	790	3.4	73	58	488
304	UNION OIL CALIF.	NE WOODSIDE SCHOOL	CYPRESS	16,17=2N=8E	57	1694	20.5	193	55	773
			MCCLOSKY							
335	UNION OIL CALIF.	WEILER SCHUL CONSOL	CYPRESS	33,34=3N=8E,3,4=2N=8E	349	8999	21.4	1112	127	4221
			MCCLOSKY							
341	UNION OIL CALIF.	W. CLAY CITY	AUX VASES	10=2N=7E	700	6355	16.4	301	320	2747
349	UNION OIL CALIF.	THOMAS SCHUL U	MCCLOSKY							
			CYPRESS	5,6,7,8,17,18=2N=8E/ 12=2N=7E	469	2352	38.5	2325	731	12539
			AUX VASES							
358	UNION OIL CALIF.	SUNNYVILLE C	MCCLOSKY							
			CYPRESS	27,28,29,32,33=3N=8E/ 4,5,6=2N=8E	964	17561	67.6	1872	971	13404
			MCCLOSKY							
1910	UNION OIL CALIF.	E NEWTON CONSOL	AUX VASES	27,34=7N=10E	193	6511	6.0	448	69	2536
1911	UNION OIL CALIF.	MT. GILEAD CONSOL	MCCLOSKY	19,20,29,30=5N=10E	1114	15426	31.4	620	1434	7563
1919	UNION OIL CALIF.	N. OUNOAS U	AUX VASES	7,8,9,18=5N=10E	576	24458	39.9	1004	734	11048
			MCCLOSKY							
1922	UNION OIL CALIF.	S 8008 U	AUX VASES	33=6N=10E/ 4,5,6=5N=10E	1094	25175	40.1	1891	1038	12779
			MCCLOSKY							
1924	UNION OIL CALIF.	HONEY CONSUL	AUX VASES	16,17=5N=10E	237	5488	18.7	348	529	5366
			MCCLOSKY							
3404	UNION OIL CALIF.	ULD NOBLE	MCCLOSKY							
			CYPRESS	3,4,5,8,9=3N=9E/ 32,33=4N=9E	6656	151103	116.2	6730	6670	150563
3406	UNION OIL CALIF.	SH NOBLE U	MCCLOSKY							
3418	UNION OIL CALIF.	WAKEFIELD CONS	SPAR MTN	11,12=2N=8E		3810		181		1056
			CYPRESS	13,14,22,23,24,25,26, 27=4N=9E	58	40302	9.1	3887	289	29045
3423	UNION OIL CALIF.	GUYOT CONSOL	CYPRESS	33,36=3N=8E,1,2=2N=8E	55	6272	4.2	378	38	1923
			MCCLOSKY							
3429	UNION OIL CALIF.	NE WAKEFIELD CONSOL	CYPRESS	13,14=4N=9E	2	442	0.6	45	6	120
3431	UNION OIL CALIF.	HOG RUN CONSOL	AUX VASES	17=3N=9E	23	2182	1.2	103	24	871
			MCCLOSKY							
3434	UNION OIL CALIF.	SUGAR CREEK UNIT	SPAR MTN	26,27=4N=9E		1083	1.3	65	6	78
			MCCLOSKY							
3437	UNION OIL CALIF.	S OUNOAS CONSOL	AUX VASES	30,31=5N=10E	160	3506	3.2	132	160	1429
			MCCLOSKY							
3438	UNION OIL CALIF.	S=8 CONSOL	MCCLOSKY							
3440	UNION OIL CALIF.	H A M CONSOL	AUX VASES	27,28=4N=9E		564	0.1	42	20	259
			SPAR MTN	13,14,23,24,26=4N=9E	113	2847	6.4	115	52	681
3441	UNION OIL CALIF.	R H & P CONSOL	MCCLOSKY							
3442	UNION OIL CALIF.	OUTER WAKEFIELD C	CYPRESS	24,25=3N=8E 14,23=4N=9E	338	2814	1.6	39	91	684
			AUX VASES			954	2.4	55	13	233
3443	UNION OIL CALIF.	LU-BERG AREA	CYPRESS	25=4N=9E	73	1673	5.9	203	12	85
3446	UNION OIL CALIF.	COLBORN CONSOL.	AUX VASES	4,5=3N=9E	493	1622	64.0	245	550	2217
			MCCLOSKY							
			ST. LOUIS							
			SALEM							
4065	UNION OIL CALIF.	BANKER SCHOOL CONSOL	CYPRESS	19,21,22,28=2N=8E	37	2337	4.2	857	34	1295
4070	UNION OIL CALIF.	E BANKER SCHL	CYPRESS	21,28=2N=8E	93	904	13.1	146	103	557
			AUX VASES							
4074	UNION OIL CALIF.	S WOODSIDE SCHOOL	MCCLOSKY	20,29=2N=8E		370		8		28
4075	UNION OIL CALIF.	S WOODSIDE SCHL	AUX VASES	19,20,30=2N=8E/	142	2829	6.0	229	91	1276

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER			
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE								
PROJ.	DEPTH	NET	POR	(MO)	(API)	FIRST	ADD.	WELLS	UNDER	PROD	INJ.	PROD	PROD	(M)	MIXED		REMARKS
NO.	(FT)	(FT)	(%)			INJ.		INJ.	PROD.	INJ.	PROD.	PROD.	PROD.	(M)	MIXED		

CLAY CITY C, CLAY, JASPER, RICHLAND, WAY
CONTINUED

4048	3015	15.0	18.5	30	40.0	11-77		1	4	100							PRODUCED (B)
4067	3075	7.5	19.0	35		08-71		6	5	236							PRODUCED (B)
	3130	4.5								215							
4068	3015	6.5	18.5	30	37.0	09-71		1	6	165							WELL & PROD (M)
4084	2935	11.0	18.0	33	39.3	03-67	01-74	1	1	50							PRODUCED (B)
4179	3146	7.8	18.0	75	37.5	08-58	00 00	3	3	80							PROD, PROD (M)
4115	3150	8.0	19.0	115	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)
4198	2900	7.0				04-65	10-78	1	1	100							PENN SD, PROD (B)
1930	2800	12.0				7-63		2	4	100							CYPRESS&PROD(B)
1931	2690	14.0				6-66+		1	1	10							
	3250	25.0						1	1	20							
4333	2870	5.0	13.0	120		01-65	10-78	2	5	180							PRODUCED (B)
3436	3005	9.0				09-66		3	5	170							PRODUCED (B)
4186	2930	20.0	19.0	75		11-64		2	6	440							PENN SD, PROD (B)
	3010	20.0						2	2	100							
347	2933	15.0			39.2	02-59	01-72	1	2	40							CYPRESS (B)
363	2678	10.0				06-68	01-74	1	1	30							SURFACE PROD (M)
4088	2990	12.0	19.0	22	38.5	12-61		1	2	120							CYPRESS, PROD (B)
3444	3000	5.0	16.0	1307	39.0	01-61		1	1	40							PRODUCED (B)
3445	3080	7.0			38.0	12-75		3	0	150							PENN SD (F)
4117	2639	12.5	16.5	43	34.4	01-57	12-71	3	6	110							SM SD (F)
4118	3065	15.9	19.0	85	38.7	01-57	01-72	30	31	568							SM SD, PROD (M)
4166	3080	8.0				12-63		4	13	250							PENN SD (B)
	3170	5.4				12-63	12-66	3	5	160							
	3200	19.0				12-63	12-67	7	20	960							
4177	3075	20.0	18.0	75		09-64		30	18	1127							PENN SD, PROD (B)
4196	3170	18.0			39.0	08-65	12-72	20	19	480							PENN SD, PROD (B)
3428	2800	10.0	18.0	50	39.0	04-64	6-74	30	25	900							PENN SD, PROD (B)
	2900	10.0				4-77		1	2	40							
4190	3004	16.0			38.0	10-65		1	4	40							PENN SD, PROD (B)
4197	2615	10.0				06-52	12-54	1	1	20							PRODUCED (B)
4047	2960	13.0				4-65		4	5	110							PRODUCED (B)
4079	3100	14.0	20.1	8	39.0	09-68		7	19	480							PENN SD (B)
4081	3100	9.0				03-68		4	7	220							SM GRAVEL (F)
4095	3080	10.0				02-69	02-72	3	2	40							SM GRAVEL (F)
4108	3016	10.0				02-54	12-61	2	2	80							PRODUCED (B)
4157	3040	10.1	15.9	24	39.0	10-62		3	3	100							PURCHASED (B)
4191	3100	10.0	18.0	50	34.5	11-65		6	6	180							PENN SD, PROD (B)
4193	2960	14.0	19.0	30	39.0	01-65		11	10	220							SM GRAVEL (F)
4132	3255	6.0			38.0	01-58	07-59	1	1	40							CYPRESS, PROD (B)
4144	3150	13.0	19.0	85		11-60	01-64	9	10	150							PENN SD (B)
302	2610	15.0	18.0	65	37.2	05-72		1	4	200							PRODUCED (B)
304	2620	16.0	18.0		37.6	04-68		1	2	80							PENN SD, PROD (B)
	3000	25.0	15.0							280							
335	2596	17.0	68.0	24		07-61		5	7	320							PENN SD, PROD (B)
	2957	15.0	15.0							260							
341	2960	15.0			38.0	8-71		2	6	60							PRODUCED (B)
	3070	10.0	16.0			9-70				240							
349	2650	20.0	13.0	200		07-65		18	30	1480							PENN SD, PROD (B)
	2900	20.0								900							
	3000	27.0								700							
358	2620	18.0	18.0	24	38.5	05-65		20	40	2300							PRODUCED (B)
	2880	8.0	10.0							300							
	2950	11.0	18.5							400							
	3000	25.0	15.0							700							
1910	2670	8.0	15.0	24		10-60		3	5	260							CYPRESS, PROD (B)
1911	2750	10.0				01-66		5	11	860							PRODUCED (B)
1919	2720	37.0	18.0	87		07-65		11	19	1250							PENN SD, PROD (B)
	2791	31.0								1320							
1922	2720	12.0				11-66		13	22	310							PRODUCED (B)
	2900	11.0								970							
	3400	32.0								680							
1924	2720	11.0	18.5			08-68		3	9	200							PRODUCED (B)
	2780	25.0	15.0							800							
	3297	13.0	11.0							360							
3404	2590	15.0	15.0	24	36.8	08-54		19	67	1550							PRODUCED (B)
	2930	10.0						11	32	1702							
3406	2984	6.0	15.0	75		05-57	03-66	2	3	340							CYPRESS, PROD (B)
3418	2545	32.0	17.0	120		05-59		2	16	1640							PENN SD, PROD (B)
3425	2620	20.0	15.0	75		12-63		1	9	500							PENN SD, PROD (B)
	3000	20.0								400							
3429	2579	15.0	18.0	65		11-64		1	1	100							PENN SD, PROD (B)
3431	2863	25.0	15.0	75		10-65		1	3	200							CYPRESS, PROD (B)
	2967	7.0								229							
3434	2925	5.0				05-66		1		300							PENN SD, PROD (B)
	2950	5.0								300							
3437	2776	11.0			38.5	06-68		2	2	80							SUB-SURFACE (B)
	2838	25.0								80							
3438	2983	25.0	15.0		39.6	10-68		1	3	240							PRODUCED (B)
3440	2878	27.0	15.0		38.1	09-69		3	3	80							WATER SOURCE WELL (B)
	2905	15.0	14.0							150							
3441	2940	11.0	16.0		38.5	04-70		2	1	120							PRODUCED (B)
3442	2619	12.0				12-69		2	4	50							PENN SD (B)
	2876	14.0								50							
3443	2550	10.0	17.0	50	38.8	09-71		5	4	180							PRODUCED (B)
3446	2860	18.0				12-76		10	14	620							PRODUCED (B)
	2970	10.0								440							
	3090	20.0															

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.	1979	12/79	1979
A80				1979	12/79	1979	12/79	1979	12/79
P.M.									
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY									
CONTINUED									
4075 UNION OIL CALIF.		MCCLOSKEY	23-2N-7E						
4076 UNION OIL CALIF.	E ORY FORK	AUX VABES	23-18-6E	34	1127	1,4	88	33	292
4080 UNION OIL CALIF.	WOODSTOE 8CML C	CYPRESS	28-2N-7E;19,20-2N-8E	913	18337	18,4	890	449	6555
		AUX VABES	13-2N-7E;18-2N-8E						
		MCCLOSKEY							
4091 UNION OIL CALIF.	CENT JORDAN SCHOOL	AUX VABES	1-1N-7E	288	6831	9,2	534	384	4641
		MCCLOSKEY							
4097 UNION OIL CALIF.	OGER CREEK 8	CYPRESS	11,12-18-8E	13	3720*	0,5	124*	73	1015*
		MCCLOSKEY							
4099 UNION OIL CALIF.	BRADLEY U	AUX VABES	26-1N-7E		639		42		
4106 UNION OIL CALIF.	8W VANFOSSAN U	AUX VABES	25,26,27-1N-8E	266	6451	11,3	414	306	2994
		OMAHA							
		MCCLOSKEY							
4112 UNION OIL CALIF.	JORDAN SCHOOL U	AUX VABES	27,34,35-2N-7E, 3-1N-7E		25655*	6,5	2376	112	14799
4113 UNION OIL CALIF.	NE JORDAN SCHOOL U	AUX VABES	25,26,35,36-2N-7E		13813		1316		8668
4114 UNION OIL CALIF.	VAN FOSSAN U	MCCLOSKEY	10,14,15,22,23,26,27-1N-8E	100	16672	2,5	727	100	16672
4131 UNION OIL CALIF.	8E JORDAN SCHOOL U	AUX VABES	2,11-1N-7E	764	25601	15,3	1802	9*1	16895
4135 UNION OIL CALIF.	OGER CREEK UNIT	AUX VABES	1,2,10,11-13-8E	261	9791	8,8	734	257	5343
		MCCLOSKEY							
4142 UNION OIL CALIF.	ELM RIVER U	AUX VABES	30,31-2N-8E	132	7233	3,8	570	147	3721
		MCCLOSKEY							
4143 UNION OIL CALIF.	FELLER FLOOD COMBLO	AUX VABES	5,6,7,8-1N-8E	315	15240	11,4	1782	808	11122
4152 UNION OIL CALIF.	OREGON SCHOOL U	AUX VABES	20,21,28,29-18-8E		2839		185		1579
4153 UNION OIL CALIF.	8E ENTERPRISE U	AUX VABES	24-1N-8E		1115		70		223
8164 UNION OIL CALIF.	E, JORDAN SCHOOL C	AUX VABES	1-1N-7E,6-1N-8E, 33,36-2N-7E	1394	41627	25,7	3189	1363	26825
		MCCLOSKEY							
4176 UNION OIL CALIF.	8 JORDAN SCHOOL U	AUX VABES	11,12-1N-7E,T-1N-8E	608	16221	23,1	1615	787	8033
4185 UNION OIL CALIF.	ZIF COMBLO	CYPRESS	4-1N-8E; 33,36-2N-8E	624	16114	23,6	1788	756	9888
		AUX VABES							
		MCCLOSKEY							
4187 UNION OIL CALIF.	SOUTH CIGNE COMBLO	AUX VABES	27,34-1N-7E	9	4925	2,1	136	57	1190
		MCCLOSKEY							
4188 UNION OIL CALIF.	N CIGNE U	AUX VABES	22,27-1N-7E	180	4239	5,9	262	202	4312
		MCCLOSKEY							
4192 UNION OIL CALIF.	J. P. MOLT-A	AUX VABES	30-1N-8E	6	262	1,4	23	2	55
		OMAHA							
4136 VERNE M. VAUGHN	BLESSING-CHRISMAN U	AUX VABES	31,32-1N-8E		623		180		270
4098 W.W. HELL BERV.	OAVIS, JONES-WHITLOCK	AUX VABES	9-18-7E		645*		157*		530*
4180 WATKINS DRILLING	WATKINS-WHITLOCK	AUX VABES	9-18-7E		152		45		143
4151 H. WEINERT EST.	SOUTH BOYLESTON UNIT	AUX VABES	3,4,9,10-28-7E	359	6505	9,0	372		
4162 M. WEINERT EST.	NORTH BOYLESTON UNIT	AUX VABES	33,34-18-7E;3,4-28-7E	10038	27706*	2,9	773		
		MCCLOSKEY							
1926 WICHITA INDUSTRIES	EAST NEWTON WF	MCCLOSKEY	22,23,26,27-7N-10E	460*	5834*	69,2	753	460*	3147*
4054 M. J. WILLIAMS	FRED BEST	AUX VABES	27-1N-8E			1,3*	41*		
4110 M. J. WILLIAMS	COVINGTON UNIT	OMAHA	25-18-6E;19,20,29,30, 31,32,33-18-7E		26912*		1689*		14374*
		MCCLOSKEY							
345 ZANETIS OIL PROP	STANFORD LEASES	AUX VABES	3,4,10-2N-7E	122	1673	5,8	190	122	1673
1908 ZANETIS OIL PROP	P. KELLY 3	SPAR MTN	1-5N-9E		184		88		312
1909 ZANETIS OIL PROP	C. HARVEY 2	SPAR MTN	12-5N-9E		457		2		
1917 ZANETIS OIL PROP	HINES-OCHS *A* ETAL	SPAR MTN	4,9-5N-10E		77		14		27
1921 ZANETIS OIL PROP	KELLER *A* PAYNE HR8.	AUX VABES	5,6-5N-10E	30	2721	23,4	673	30*	2721*
		SPAR MTN							
		SALEM							
4096 ZANETIS OIL PROP	8MAH	AUX VABES	38-18-8E		192		12		24
COIL, WAYNE									
4077 FRHERS PETR COOP	COIL U	AUX VABES	17,18,19-18-5E	179	4806	22,4	802	201	2108
4100 K W 8 OIL PRDP,	HGHT YOUNGBLOOD U	AUX VABES	19-18-5E	61	2003	13,9	413	27	1270
4052 STONE OIL CO	BYARS-GARRISON	ST LOUIS	19-18-5E			7,0	162**		
COIL N, WAYNE									
4053 M. O. BURKETT	KEEN-WILSON	AUX VABES	31-1N-5E		600*		124**		600*
COIL W, JEFFERSON									
2011 GULF OIL CO	COIL W U	AUX VABES	14,15,22,23-18-4E		1319		82*		749*
2012 GULF OIL CO	COIL W U	MCCLOSKEY	22-18-4E		81				
2026 STONE OIL CO	FARRINGTON	ST LOUIS	24-18-4E	84	1318	8,1	216	53	531
CONCORD C, WHITE									
4281 ABMER OIL CO	CONCORD UNIT	TAR SPRINGS	27,28-68-10E		1169*		251**		339*
4208 C. E. BREHM	CONCORD N UNIT	AUX VABES	10-68-10E		637		66		
4228 GT LAKEB CARBON	MCCLOSKEY	SPAR MTN	28-68-10E		233		5		48
		MCCLOSKEY							
8439 JIM MALEY	TULEY	CYPRESS	21-68-10E		115*		24		115*
		AUX VABES							
4309 HUMBLE O AND R	CONCORD CO-OP	TAR SPRINGS	28-68-10E		1179		143		379
		AUX VABES							
4205 BARRON KIDD	KERWIN-CONCORD	MCCLOSKEY	21-68-10E		342		12		77
4299 D. R. LEAVELL	CONCORD	TAR SPRINGS	21,22,28-68-10E		3964		402		1910
4331 D. R. LEAVELL	CONCORD	AUX VABES	28-68-10E		370		55		289
4332 D. R. LEAVELL	TULEY	CYPRESS	21,22-68-10E		1276		57		455
4358 D. R. LEAVELL	TULEY	AUX VABES	21-68-10E		141*		24*		66*
8206 PHILLIPS PET, CO	KERWIN	CYPRESS	21-68-10E	97	3375	6,1	311	63	2160
		AUX VABES							
		SPAR MTN							
		MCCLOSKEY							
4229 PHILLIPS PET, CO	OALLA8	SPAR MTN	28-68-10E		247		3		42
		MCCLOSKEY							
4207 REBSTOCK OIL CO,	TULEY	CYPRESS	21-68-10E	35*	2694*	2,8	204	35*	1850*
		AUX VABES							
		MCCLOSKEY							
4444 SLASTER PRODUCING	BROWN-SPILLMAN U	CYPRESS	16-68-10E		880*		117**		850*
44325 THUNDERBIRD OIL	N CONCORD U	HARJOIN-SURB	9,10-68-10E		8492		903		5632

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER			
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE								
PROJ. NO.	DEPTH (PT)	NET PAY (PT)	POR (%)	(MO)	GRAV (API)	FIRST INJ.	ABD.	WELLS	UNDER INJ.	GRGRAVEL	(F) FRESH (B) BRINE	PROD PRODUCED (M) MIXED	REMARKS				
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY																	
CONTINUED																	
4075	3018	8.0						200									
4076	3119	11.0			38.3	05-69		1	2				200				
4080	2620	16.0	18.0		37.0	04-68		10	18				470				
	2950	11.0	18.3										670				
	3000	25.0	15.0										874				
4091	2930	15.0	18.0		41.5	03-64		6	8				290				
	2990	4.0	15.0					5	6				290				
4097	2725	8.0	15.0	24	39.4	02-50		3	2				200				
	3090	4.0											240				
4099	3013	20.0	22.0	100	39.0	05-60	09-68	3	1				60				
4106	2975	20.0				01-67		8	13				460				
	3030	6.0											160				
	3075	6.0											120				
4112	2950	14.0	19.0	73		09-54			7				830				
													INJ. DISC. 12-71				
4113	2950	15.0	19.0	106		01-56	05-69	14	12				510				
4114	3070	10.0	13.0	200		01-54		2	2				1810				
4131	2930	17.0	19.0	106		11-57		12	19				640				
4135	2992	8.0				12-66		5	12				493				
	3090	4.0											450				
4142	2910	20.0	18.0	87		09-58		6	7				210				
	3010	10.0						3	5				40				
4143	2950	16.0	16.0	77		09-58		5	13				1044				
4152	3186	14.0	19.0	35		01-61	08-67	14	13				280				
4153	2992	12.0	19.0	75		05-61		2	2				70				
4164	2950	15.0	19.0	77		01-63		25	22				1110				
	3030	5.0						8	8				400				
4176	2930	23.0	18.0	75		08-64		11	11				480				
4185	2640	15.0	18.0	75		12-64		17	19				60				
	2945	15.0											420				
	3023	5.0											750				
4187	3005	35.0	18.0	75		12-64		2	6				400				
	3130	20.0											200				
4188	3005	35.0	18.0	75		11-64		6	7				640				
	3100	18.0											200				
4192	3030	20.0				01-75		2	2				40				
	3090	30.0											40				
4136	3050	18.0				04-59	12-74	2	2				50				
4208	3128	20.0				12-59	06-75	4	7				130				
4210	3129	11.0	18.0	75	38.0	11-59	10-66	1	1				40				
4211	3100	16.0				04-61		6	3				100				
4162	3094	16.0				02-62		5	8				130				
	3240	10.0						7	18				600				
1926	2760	15.0	15.0	25	40.0	10-71		5	14				620				
4054	2960	11.0				1-70		4	3				30				
4210	3200	8.0	14.0	80	38.0	06-55	01-72	12	13				1600				
	3250	6.0	13.0	300				21	20				1900				
4345	2900	15.0			37.8	07-64	1-77	1	5				20				
1908	2941	5.0			41.0	11-58	01-70	1	1				40				
1909	2954	6.0			40.4	11-58	10-65	1	1				40				
1917	2810	6.0			40.0	08-64	12-66	1	1				60				
1921	2760	25.0	15.3	10	39.4	01-66		5	11				240				
	2855	5.0											260				
	3265	15.0											130				
4096	3118	25.0			40.2	07-68	08-70	2	4				80				
COIL, WAYNE																	
4077	2900	15.2	19.7			01-69		4	4				240				
4100	2860	13.0	21.0	120		05-66		2	3				90				
4052	3020	10.0				1-70		4	5				70				
COIL N, WAYNE																	
4033	2800	12.0				1-61	12-71	1	4				50				
COIL W, JEFFERSON																	
2011	2700	10.0	19.0	160		01-61	10-63	5	4				95				
2012	2860	8.0				01-61	02-63	1	2				30				
2026	3000	8.0				06-69		3	7				160				
CONCORD C, WHITE																	
4281	2279	11.0			36.4	09-59	01-72	4	3				80				
4208	2950	12.0	21.1	218	35.1	10-52	10-62	2	2				40				
4228	2980	17.0			37.5	06-53	01-56	3	8				140				
	3020	5.0						3	5				140				
4434	2630	8.0				06-62		1	1				20				
	2980	6.0						1	1				20				
4309	2260	10.0	20.9	75	36.0	12-60	12-67	2	3				50				
	2690	11.0	20.9	75				1	1				20				
4205	3003	16.0				01-55	01-59	1	3				30				
4299	2260	15.0	16.0	175	37.0	08-60	07-67	10	10				210				
4331	2890	21.0	20.0	75	37.5	01-61	10-67	3	4				50				
4332	2600	12.0	16.0	135	36.5	10-61	10-66	6	3				130				
4356	2900	15.0			37.3	03-62	01-72	2	1				20				
4206	2620	12.0			37.0	07-53		3	4				20				
	2890	13.0											80				
	2960	4.0											40				
	3020	9.0						1	2				40				
4229	2960	15.0	15.0	50	36.0	08-53	11-57	1	3				40				
	3020	15.0						1	3				40				
4207	2620	21.0			37.0	07-51		1	2				20				
	2900	22.0						1	3				30				
	3040	5.0						1	2				100				
4444	2645	15.0				6-58	1-73	1	4				60				
4325	2500	12.0	17.5	300	39.0	11-61	01-71	9	21				313				

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				1979 * 12/79	1979 * 12/79	1979 * 12/79			
* = P.M.									
CONCORD E C, WHITE	POHEROY	CYPRESS	86-68-10E	30*	945*	1.6	67*	30*	945*
4445 ASBHER OIL CO	PEARCE	CYPRESS	35-68-10E		205*	39**			805*
4446 FAIRWAY PETROLEUM		AUX VASEB							
4233 M. E. GARRETT	PEARCE U	CYPRESS	35-68-10E, 8-78-10E		310	12*			117*
COOKS MILLS C, COLES, DOUGLAS	COMBES ESTATE	SPAR MTN	24-14N-7E		76	1			
* 588 CHARLES R, GRAY	LOGAN-MOORE	SPAR MTN	13-14N-7E		61	1			
* 808 CHARLES R, GRAY	BRADLEY WF	SPAR MTN	26, 87, 34, 35-14N-7E		1914	56			875
* 510 KUYKENOALL ORLG.	EASTON WF	SPAR MTN	27-14N-7E		556	12			843
* 513 KUYKENOALL ORLG.	COOKS MILLS UNIT	SPAR MTN	9, 15, 16-13N-7E		3620	868			8800
* 505 S AND H OIL CO.	COOKS MILLS U	SPAR MTN	18, 19, 80, 30-14N-8E, 13, 24, 85-14N-7E		3165	811			954
* 508 SCHAEFER OIL CO.									
COROB, WASHINGTON	GILL EST., P.KOZUSZEK	BENOIST	26-38-3W	78	4567	6.9	1593*	178	3982
4010 MOBIL OIL CORP.	COROB COOP	BENOIST	14, 15, 28, 83-39-3W	194	88936	26.0	5063*	371	32977
4000 SHELL OIL CO.									
CORINTH, WILLIAMSON	CORINTH UNIT	AUX VASEB	29-88-4E	51	264*	8.7	84*		
4504 C. E. BREHM									
COVINGTON S, WAYNE	HEIOINGER-VOGEL	MCCLOSKEY	13-88-6E		51				
*4180 DONALD G. GEARY									
CROSSVILLE W, WHITE	CROSSVILLE WEST U	AUX VASEB	15, 16-48-10E		1199		46		245
*4404 CONTINENTAL OIL		SPAR MTN							
		MCCLOSKEY							
DALE C, FRANKLIN, HAMILTON, BALINE	WESTBROOK	AUX VASEB	1-78-4E/6-78-5E		1015		110		
1309 C. E. BREHM	CANTRELL U	AUX VASEB	4, 5-78-5E/33-68-5E		3007		340		244
1513 C. E. BREHM	HOGAN U	AUX VASEB	9, 16-78-5E		8427		73		876
1544 C. E. BREHM	P.M. SMITH	AUX VASEB	33-68-5E, 4-78-5E		1588		875		637
1545 C. E. BREHM	RURAL MILL B	AUX VASEB	33, 34-68-5E, 3, 4-78-5E		1371		10		93
1558 C. E. BREHM	MOORE U	AUX VASEB	29, 30, 32-68-5E		737		13		104
1553 C. E. BREHM	CROW U	AUX VASEB	30, 31-68-5E		1888		155		101
3628 C. E. BREHM	WEST END	AUX VASEB	19, 20, 30-78-5E/ 85-78-4E	98	7938	5.6	719	98*	8314*
1556 JOE A. DULL	DALE W WF	AUX VASEB	6-78-5E	25*	633*	1.3	58	85*	301*
*1564 OUNCAN L&SROY	KNIGHT	AUX VASEB	9-68-6E		935		28		
1520 FARRAR OIL CO.	TEOFORO	AUX VASEB	26-58-6E		436		138		256*
*1525 FARRAR OIL CO.	TEOFORO	BETHEL	26-58-6E		68				
1566 FARRAR OIL CO.	NW RURAL HILL U	AUX VASEB	21-68-5E	200*	2004*	11.5	356	200*	1039*
1575 FARRAR OIL CO.	URIAM FOSTER	AUX VASEB	28-68-5E	30*	480*	1.8	50	30*	480*
*1547 T. W. GEORGE EST.	CANTRELL B, UNIT	AUX VASEB	7, 18-78-9E		3859		512		1640
1586 HERMAN GRAHAM	J.M. STELLE	AUX VASEB	27-58-6E	20*	1813	1.6	129	80*	1764*
1528 HERMAN GRAHAM	DALE-MOODVILL COOP	BETHEL	27-58-6E		319				
1537 HERMAN GRAHAM	NELLIE PORTER	CYPRESS	34-58-6E	60	5617*	3.5	243*	60*	8598**
		BETHEL			447*		17*		256*
		AUX VASEB			8495*		255*		1880*
1510 GULF OIL CO	W RURAL HILL U	AUX VASEB	11, 14, 15, 82, 23-68-5E		10312		1405		5499*
*1511 GULF OIL CO	W RURAL HILL U	OMARA	11-68-5E		695				
*1559 GULF OIL CO	M.E. PARKS *B*	OMARA	34-68-5E		179		4		48
1536 DAVID F. HERLEY	WEST END	AUX VASEB	8-78-5E		2262		883		680
*1501 INLAND PRODUCERS	N RURAL HILL U	AUX VASEB	5, 6, 7, 8-68-6E		3372		893		1536
3680 LOUIS KAPP	RALEY	AUX VASEB	29-75-8E	40*	656*	2.4	76	40*	646*
1583 E. H. KAUFMAN	N. RURAL HILL U	AUX VASEB	11, 12-68-5E		1900		119		1018
1584 E. H. KAUFMAN	S.E. RURAL HILL U	AUX VASEB	18, 19-68-6E		2318		847		1492
1549 E. H. KAUFMAN	SW RURAL HILL UNIT	AUX VASEB	23-68-5E	35*	2008*	8.6	169	35*	1789*
1563 LAOD PETROLEUM	0000-WILSON U	CYPRESS	6-68-7E	849	16977	9.6	1407	567	9358
		BETHEL							
1578 LAOD PETROLEUM	CULLUM-8U7TLE U	AUX VASEB	4, 5-68-6E	38	959*	1.5	39	31	564
1557 MAC OIL COMPANY	BUMNETT WF UNIT	AUX VASEB	1-78-5E	25	996	0.4	71	25	505
*1533 MARATHON OIL CO.	OBLESBY-GRISHOLO	AUX VASEB	17-68-6E		811		8		16
1561 MARATHON OIL CO.	BRILL UNIT	HAROLDSDURG	6-68-7E	177	9710	5.1	696	283	6601
		CYPRESS							
		BETHEL							
1565 MARATHON OIL CO.	M.C. MOORE	AUX VASEB	26, 34, 35-68-5E	73	5753	6.3	288	97	2008
		OMARA							
*1543 MARION CORP	FRIEL	BETHEL	34-58-6E		3064		255		1592
		AUX VASEB							
*1502 PHILLIPS PET. CO	CANTRELL U	AUX VASEB	5, 6, 7-78-5E		1814		161		1116
1568 POLLACK BROS.	ADA OIAL #8	OMARA	8-68-6E	30*	674*	1.2	61	30*	500*
1514 SHELL OIL CO.	RURAL HILL UNIT	AUX VASEB	11, 18, 13, 14, 23, 24-68-5E 7, 18-68-6E	47	64289	6.4	4908	181	64896
		OMARA							
		MCCLOSKEY							
1512 SHERMAN ORLG	RURAL HILL	AUX VASEB	13, 23, 24-68-5E		5700		674*		4124*
		OMARA							
1548 SHERMAN ORLG	BENEFIEL-AHNOLD	AUX VASEB	16, 81-68-7E	30*	3911*	1.1*	245*	30*	2480*
		MCCLOSKEY							
*1535 JOE SIMPKINS OIL	BARKER	AUX VASEB	24-68-5E		543		74		261
1567 JOE SIMPKINS OIL	DALE COOP	AUX VASEB	10, 15, 16-68-5E		200		15*		135*
*1507 STEWART PRODUCERS	BILL JONES	AUX VASEB	8-68-6E		171		17		4
1516 STEWART PRODUCERS	CRADDOCK-ARMES	AUX VASEB	19-68-6E		803		15*		96*
*1531 STEWART PRODUCERS	WILLIAMS HEINS COOP	AUX VASEB	9, 10-68-6E		278		4		130
*1539 STEWART PRODUCERS	FLANNIGAN U	AUX VASEB	88, 29-68-5E		788		14		142
*1540 STEWART PRODUCERS	HUNGATE U	AUX VASEB	28-68-5E		506		27		116
*1541 STEWART PRODUCERS	BRUHIT U	AUX VASEB	6, 7-68-6E		886		190		151
1562 STEWART PRODUCERS	JONES S	AUX VASEB	18-68-6E		291		93*		105*
*1504 TEXACO, INC.	WEST DALE UNIT	AUX VASEB	11-68-6E		6476		614		3334
*1508 TEXACO, INC.	MOOD-CAREY UNIT	AUX VASEB	3-68-6E		867				
1509 TEXACO, INC.	MOOD-CAREY UNIT	BETHEL	3-68-6E		1109		250		1910*
*1538 TEXACO, INC.	VAUGHAN-BROCKETT COOP	AUX VASEB	17, 18-68-6E		1837		88		788

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER			REMARKS
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE								
PROJ.	DEPTH	NET	POR	(MO)	GRAV	FIRST	ABO.	UNOER	GH=GRAVEL	(B)=BRINE							
NO.	(FT)	PAY	(%)	(API)	INJ.	INJ.	PROD.	INJ.	PROD=PRODUCED	(M)=MIXED							
	(FT)																
DUNCORR E C, WHITE																	
4445	2945	9.0				12-63		2	4			60	PRODUCED (R)	*EST. INCL. PRIM. SINCE 63			
4446	2560	14.0				6-63	12-76	1	1			20	PRODUCED (S)	*EST. INCL. PRIM 1963-76			
	2630	12.0						1	1			20					
4233	2550	11.0	14.3	92	36.0	12-66	12-74	4	4			90	SH GRAV. PROD (M)	*ESTIMATED SINCE 1970			
COOKS HILLS C, COLES, DOUGLAS																	
522	1778	9.0	11.3		37.0	04-63	01-69	2	3			60	SH 80 (F)				
802	1777	12.0	16.0	41		04-63	01-69	2	2			40	SH 80, PROD (M)				
510	1800	12.0	17.5	195	38.0	04-62	12-68	7	5			140	SH 80, PROD (M)				
513	1800	12.0	17.5	195	38.0	04-62	11-68	3	1			40	SH 80, 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 80 (B)				
CORDES, WASHINGTON																	
4010	1270	12.0	20.0	250	37.0	09-65		5	9			180	PRODUCED (B)	*INCL PRIM PROD SINCE 9-65			
4000	1230	14.0	20.0	250	37.2	08-50		16	20			935	PENN 80, PROD (B)	*ADJUSTED			
CORINTH, WILLIAMSON																	
4504		12.0			38.0	11-75		1	3			90	PENN 80 (B)	*ADJUSTED BY OPERATOR			
COVINGTON 8, WAYNE																	
4120	3316	4.0				11-57	10-59	1	1			80	CYPRESS, PROD (S)	*NO WF OIL RECOVERED			
CROSSVILLE N, WHITE																	
4404	3010	16.0				03-65	03-69	2	5			70	PRODUCED (S)				
	3190	6.0						1	1			100					
	3110	4.0						1	4								
DALE C, FRANKLIN, HAMILTON, BALINE																	
1309	3230	8.0	17.0	150	38.0	08-59	01-70	3	4			80	PENN 80, PROD (S)				
1913	3150	19.0	17.0	150	39.0	01-59	01-70	11	14			250	CYPRESS, PROD (S)	*1966-67 DATA ONLY			
1934	3300	11.3	19.0	150	38.0	06-62	05-71	2	10			130	PENN 80, PROD (S)	*1965-67 DATA ONLY			
1544	3150	22.0	17.0	200	38.0	03-63	09-73	3	14			170	PENN 80, PROD (S)	*ESTIMATED			
1545	3250	22.0	17.0	200	38.0	04-63	03-68	5	9			190	PENN 80, PROD (S)	*1965-66 DATA ONLY			
1552	3250	14.0			37.0	04-65	06-69	3	7			130	PENN 80, PROD (S)	*THRU 1967 ONLY			
1553	3250	14.0			37.0	04-65	01-73	3	6			110	PENN 80, PROD (S)	*THRU 1967 ONLY			
3622	3140	20.0	17.0	150	38.0	06-63		6	22			420	PENN 80, PROD (S)	*ESTIMATED			
1556	3260	10.0	18.0	85	38.0	12-65		1	3			80	PENN 80, PROD (S)	*ESTIMATED			
1564	3064	30.0				09-61	01-70	2	4			60	PRODUCED (S)				
1520	3050	20.0				07-61	12-66	2	1			40	PURCHASED (B)	*INCL 1925			
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 (S)	*ESTIMATED			
1575	3190	18.0				09-71		1	2			30	PRODUCED (S)	*ESTIMATED			
1547	3125	20.0	20.5	122	39.4	09-60	12-68	11	9			220	PENN 80, PROD (S)				
1526	3034	11.0	14.0	120		08-61		2	2			60	PALESTINE, PROD (S)	*ESTIMATED			
1528	2950	11.0	14.8	117	37.0	07-61	07-64	6	9			150	PALESTINE, PROD (B)	*ESTIMATED; *INCL BOTH PAYS			
	3050	13.0	20.0	116	37.0	07-61		7	8			150					
1537	2730	12.0	18.0			5-68	06-76	4	4			80	PRODUCED (S)	*EST + BETHEL AND AUX VASES DATA			
	2900	20.0	16.0			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 (S)	*INCL 1511			
1511	3173	19.0			40.4	06-59	05-64	2	1			30	PRODUCED (S)	*INCL WITH 1510			
1559	3350	14.0	15.0	35	38.0	08-65	05-67	2	4			60	SH 80 (F)				
1536	3250	18.0	20.0	340	40.0	12-62	11-68	7	8			190	PENN 80, PROD (S)	*ESTIMATED SINCE 1965			
1501	3125	14.7	23.9		39.0	02-52	04-59	15	16			310	CYPRESS (R)				
3620	3130	8.0				11-69		1	4			50	PRODUCED (S)	*ESTIMATED			
1523	3150	19.0			38.0	01-61	12-67	5	5			110	CYPRESS, PROD (S)	*INCL PRIM PROD SINCE 1-61			
1524	3190	20.0			38.0	09-61	02-70	4	8			120	CYPRESS, PROD (S)	*INCL PRIM PROD SINCE 9-61			
1549	3120	19.0			38.0	12-63		5	4			110	PENN 80, PROD (B)	*ESTIMATED SINCE 1978			
1563	2710	20.0			37.0	01-65		2	10			200	HARDINSBURG, PROD (S)				
	2675	15.0										200					
	2950	20.0										200					
1578	3100	30.0	19.0			10-69		1	2			80	PENN. & PROD (B)	*CORRECTED BY OPERATOR			
1557	3215	20.0	16.0	65	38.0	03-62		1	1			40	PENN 80, PROD (S)				
1533	3250	16.0	18.0	80		06-62	12-66	1	1			20	PENN 80, PROD (S)				
1561	2750	4.0				01-65		3	5			20	CYPRESS, PROD (S)				
	3000	20.0										130					
	3150	20.0										130					
	3210	15.0										130					
1565	3315	15.0	18.0	100		06-65		3	4			200	CYPRESS WSM, PROD (S)				
	3350	10.0	14.0	40								40					
1543	2940	23.0	19.0	150	39.5	09-62	05-69	1	3			130	PALESTINE, PROD (S)				
	3050	16.0	17.0	100				2	3			130					
1502	3200	19.0	18.0	75	38.0	08-55	10-62	5	7			130	PENN, PROD (S)				
1568	3102	14.0			37.5	07-70		1	2			30	PRODUCED (S)	*ESTIMATED SINCE 1972			
1514	3120	20.9	19.0	96	39.4	09-58		8	15			1890	HARD, CYP, PROD (R)				
	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 (S)	*ESTIMATED 1969-1970			
	3192	8.5						1	4			60					
1548	3080	15.0	17.0	78		11-63		6	9			240	PENN 80, PROD (S)	*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 80 (S)	*ALL DATA ARE ESTIMATED			
1507	3088	22.0				08-58	07-61	1	2			30	CYPRESS (S)				
1516	3120	20.0	12.0	90	37.0	09-60	03-69	3	4			80	PURCHASED (S)	*NO DATA 1969			
1531	3090	20.0	12.0	90	37.0	07-61	12-65	2	2			40	MCCLOSKEY (S)				
1539	3240	20.0	12.0	90	37.0	09-62	06-67	4	6			100	PENN 80, PROD (S)				
1540	3244	20.0	12.0	90	37.0	12-62	06-67	2	4			60	PENN 80, PROD (S)				
1541	3180	20.0	12.0	90	37.0	10-59	12-71	3	3			60	CYPRESS 80, PROD (S)				
1562	3166	20.0	12.0	90	37.0	11-62	01-72	1	2			40	PURCHASED (S)	*INACTIVE 1968-1972			
1504	3050	14.0	17.0	125	38.0	07-51	09-67	6	15			260	PENN 80, PROD (S)				
1508	3050	26.0	19.0	109	37.0	06-58	12-68	5	8			130	HARDINSBURG, PROD (S)	*INCL WITH 1509			
1509	2950	26.0	17.5	126	37.0	06-58	12-68	5	8			130	HARDINSBURG, PROD (S)	*INCL 1508			
1538	3150	18.0	21.4	149	38.8	03-62	11-68	5	10			180	PENN 80, PROD (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.	1979 * 12/79	1979 * 12/79
* * ABO								
* * P.M.								
DALE C, FRANKLIN, HAMILTON, SALINE								
CONTINUED								
1580 TEXACO, INC.	DALE UNIT	TAR SPRINGS	1,2,11,12,13-68-6E,5, HARGINSBURG 6,7,8,17,18,19-68-7E	398	18621	66.4	9944	2490 135221
		CYPRESS		274	25756			
		BETHEL		448	39407			
		AUX VASES		1369	102254			
1542 UNION OIL CALIF.	DALE COOP	TAR SPRINGS	36-58-6E,31-58-7E, HARGINSBURG 6,7-68-7E	775	29017	31.9	2130	673 14736
		CYPRESS						
		BETHEL						
		AUX VASES						
3625 PAUL ZIEGLAR	WEST END UNIT	AUX VASES	17,19,20-78-5E	90	2901	8.1	242	90 1709
DEERING CITY, FRANKLIN								
1319 FARRAR OIL CO.	PEABODY COAL	AUX VASES	9-78-3E	15	537	0.7	121	15 457
DIVIDE C, JEFFERSON								
2007 DEVON CORP.	PRITCHARD MRS	AUX VASES	20-13-4E	38	355	4.0	84	38 205
2015 DEVON CORP.	OELLA MCELRAVY	AUX VASES	17-13-4E	9	270	0.2	30	9 174
2022 JOHN OUNNILL	ELLER-PIERCE-MILLIS	MCCLOSKEY	16-13-4E	30	370	5.6	68	30 370
*2002 GULF OIL CO	W.O. MOLLOWAY	MCCLOSKEY	21-18-4E		2707		185	2294
2027 E MOHR JAHN	MINOR UNIT	SPAR MTN	23-18-3E			0.7	232	15 1135
2021 TEXACO, INC.	WEST DIVIDE U	SPAR MTN	13,14,15,22,23, MCCLOSKEY	1809	33783	24.1	1428	1068 223187
DUBOIS C, WASHINGTON								
4007 N. A. BALORIOGE	KAHINSKI	CYPRESS	7,8,17-38-1W	75	1505	5.1	154	75 1125
4024 N. A. BALORIOGE	MUSIAL WATERFLOOD	CYPRESS	19-38-1W,24-38-2W	15	90	0.5	5	15 90
*4003 HARRY HARRY	PEEK	CYPRESS	20-38-1W		68		16	5
4001 ELMER DELZE	O D PECK	CYPRESS	20-38-1W	20	365	1.4	15	20 186
4006 ELMER DELZE	KLAYBOR	CYPRESS	17-38-1W	65	1017	3.2	115	65 980
4025 E. M. BELP	RUOLPH	CYPRESS	17-38-1W	40	1185	4.7	113	40 1185
DUDLEY, EGGAR								
900 BARR-HOHMAN-ROBEN	BABER LBE	L DUDLEY	9-13N-13W	190	1690	22.5	416	190 1690
903 BARR-HOHMAN-RUBEN	BABER LBE #2	L DUDLEY	9-13N-13W	50	643	5.8	52	50 443
906 G. T. DOBIE	BRINKERHOFF	L DUDLEY	10-13N-13W	120	835	19.7	154	120 835
905 W MENIGHAN EST	WALLER	L DUDLEY	3-13N-13W	10	634	0.8	136	10 634
904 JUDITH NEUMAN	STEIOL	L DUDLEY	3-13N-13W	30	549	2.9	41	30 549
901 ODIS PATTILLO EST	ZITA MUKILL	L DUDLEY	3-13N-13W	30	414	5.6	75	30 414
902 ODIS PATTILLO EST	A STAUB LBE	L DUDLEY	4-13N-13W	55	446	13.7	131	55 446
EDINBURG W, CHRISTIAN, SANGAMON								
103 DON HANKS	EDINBURG W U	SILURIAN	8,16,17-14N-3W	2	1061	2.1	157	2 693
ELBRIDGE, EGGAR								
* 907 CONTINENTAL OIL	ELBRIDGE	PREONIA	1,2-12N-11W, 36-13N-11W		12000		600	12000
ELDORADO C, SALINE								
*3614 SUPAY OIL CO	SPRICH-LORCH	WALTERSBURG	35-88-6E		137		24	
*3610 HAR-KEN OIL CO.	SOUTHWEST U	WALTERSBURG	20,21-88-7E		6703		663	2697
3611 HAR-KEN OIL CO.	CENTRAL U	WALTERSBURG	15,16,21-88-7E	1173	23234	26.1	1969	1062 11399
3621 HAR-KEN OIL CO.	WEST UNIT	PALESTINE	20-88-7E	429	3973	16.1	120	175 605
		BETHEL						
		AUX VASES						
3624 LOUIS KAPP	ELDORADO NW	WALTERSBURG	9,16,17-88-7E	65	853	1.3	98	35 177
		AUX VASES						
*3603 FRANK KING	ENOICOTT U	WALTERSBURG	2-88-7E		221		21	42
*3609 W. C. HCBRIOE	CYP. ELDORADO NE UNIT	CYPRESS	10,15-88-7E		633		58	127
3600 MISTY OIL CO	NW ELDORADO U	TAR SPRINGS	8-88-7E	150	1537	9.0	93	50 351
		HARGINSBURG						
		AUX VASES						
3612 MISTY OIL CO	VICTOR BUTTNER C	AUX VASES	7-88-7E	80	1128	5.1	79	80 644
3608 THE NELSON CO.	WALT. ELDORADO NE U	WALTERSBURG	10,11,15-88-7E	400	16495	21.3	1596	400 8725
ELDORADO E, SALINE								
*3607 G. L. REASOR OIL	PORTER	AUX VASES	23-88-7E		373		35	41
ELLERY E, EDWARDS								
*1007 T. E. CROSBLEY	ELLERY EAST UNIT	AUX VASES	27,34-28-10E		1639		433	887
*1019 T. E. CROSBLEY	ELLERY E U	OHARA	27,34-28-10E		1673			
ELLIOTSTOWN N, EFFINGHAM								
*1101 VIRGIL STREETER	N ELLIOTSTOWN	MCCLOSKEY	17,20-7N-7E		529		99	263
ENERGY, WILLIAMSON								
4502 A. S. VAUGHN	ENERGY WF	AUX VASES	3,4-98-2E	250	1397	7.8	91	250 1298
ENFIELD, WHITE								
*4441 JOE A. OULL	PRICE	AUX VASES	29-58-8E		400		80	400
		OHARA						
*4209 RICHARD ELSIE	8 ENFIELD U 2	MCCLOSKEY	28,29,32-58-8E		1127		92	645
*4264 RICHARD ELSIE	3 ENFIELD U 1	AUX VASES	28,29,32-58-8E		2288		360	519
*4292 RICHARD ELSIE	8 ENFIELD U 3	OHARA	28,29,32-58-8E		363		99	259
EXCHANGE E, MARION								
*2630 FARRAR OIL CO.	EXCHANGE EAST UNIT	SPAR MTN	29-1N-4E		348		51	104
		MCCLOSKEY						
EXCHANGE N C, MARION								
2635 EGO OIL CO	SLAPOUT WF	MCCLOSKEY	7-1N-4E,12,13-1N-3E	270	3186	4.3	474	86 1124
EXCHANGE W, MARION								
2628 STONE OIL CO	CHARLETON FLOOD	SPAR MTN	4-1N-3E	72	1079	4.3	179	84 423

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79			INJECTION WATER			REMARKS
FIELD, COUNTY		PERM	OIL	DATE	NO. OF	ACRES	SOURCE	TYPE								
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	(MO) GRAV (API)	DATE FIRST INJ.	AMOUNT INJ.	NO. OF WELLS	UNDER	(P) FRESH (B) BRINE (M) MIXED (S) SHALLOW							
DALE C, FRANKLIN, HAMILTON, SALINE																
CONTINUED																
1560	2400	18.5	18.0	52	36.0	07-65	07-71	14	14	497	PENN SD, PROD (B)	*ESTIMATED FROM TOTAL INJECTION				
	2475	8.5				01-65		3	4	328		*INCL ALL PAYS				
	2680	13.3	15.3	109	36.0	01-65		33	33	2399						
	2900	18.0	13.0	22	36.0	01-65		48	56	3040						
	2980	16.5	17.3	66	37.0	01-65		60	5A	3192						
1542	2320	15.0	18.0	150		06-63		5	8	30	PENN SD, PROD (B)					
	2500	16.0								30						
	2700	15.0								290						
	2920	22.0								400						
	3020	25.0								200						
3625	3150	15.0	18.0	75	37.0	01-56		3	7	110	PRODUCED (B)	*ESTIMATED				
DEERING CITY, FRANKLIN																
1319	2800	15.0			38.2	07-61		1	4	50	PRODUCED (B)	*INCL PRIM; *ESTIMATED				
DIVIDE C, JEFFERSON																
2007	2612	8.0				08-69		1	2	40	CYPRESS (B)	*ESTIMATED 1979				
2015	2658	20.0			37.8	08-69		1	3	50	CYPRESS (B)	*ESTIMATED 1979				
2022	2800	6.0				74-72		2	5	80	PRODUCED (B)	*EST. + INCL. PRIM. SINCE 72				
*2002	2805	6.9	18.0		36.6	05-55	09-65	1	5	60	PRODUCED (B)					
2027	2680	12.0				10-65		6	6	60		*EST. + ADJACENT TO ACTIVE WF				
2021	2710	6.0	13.0	67	37.0	11-64		16	16		PENN SD, PROD (B)					
	2750	13.0	13.6	1033	37.0			17	16	1245						
DOUBOIS C, WASHINGTON																
4007	1250	9.5				01-63		6	16	250	PRODUCED (B)	*ESTIMATED				
4024	1235	8.0				1-75		2	4	60	PRODUCED (B)	*ESTIMATED				
*4003	1232	12.0			37.0	12-59	08-64	1	2	40	TAR SPR, PROD (B)					
4001	1260	10.0				11-68		1	4	50	PRODUCED (B)	*ESTIMATED SINCE 1970				
4006	1250	10.0			37.0	10-61		3	18	210	GENOIST, PROD (B)	*EST. + INCL. PRIM SINCE 62				
4025	1215	12.0				10-61		2	5	70	PRODUCED (B)					
DOULEY, EOGAR																
900	420	18.0	20.0	30	28.3	08-67		3	15	100	PRODUCED (B)	*ESTIMATED SINCE 1973				
903	410	12.0	20.0	30	29.0	02-72		2	8	80	PRODUCED (B)	*ESTIMATED				
906	410	20.0				7-66		2	7	90	PRODUCED (B)	*EST. + INCL. PRIM. SINCE 66				
905	415	18.0				01-67		2	6	60	PRODUCED (B)	*EST. + INCLUDES PRIMARY SINCE 64				
904	420	15.0				05-67		1	4	40	PRODUCED (B)	*EST. + INCL PRIM PROD				
901	410	30.0				03-67		1	3	40	PRODUCED (B)	*ESTIMATED				
902	400	25.0				03-67		1	7	70	PRODUCED (B)	*ESTIMATED				
EDINBURG W, CHRISTIAN, SANBAMON																
103	1700	15.0			8.0	11-61		1	10	230	PRODUCED (B)	*INCL PRIM PROD SINCE 10-54				
ELBRIDGE, EOGAR																
*907	950	4.0				6-50	12-65	12	12	300	PRODUCED (B)	*ESTIMATED				
ELDORADO C, SALINE																
*3614	2050	11.0	15.0	150	38.0	09-64	12-68	1	1	10	PALESTINE SD (B)					
*3610	2130	16.0	17.0	225	38.0	05-63	01-74	5	23	290	PENN SD, PROD (B)					
3611	2150	20.0	17.0	225	38.0	05-63		5	7	920	PENN SD, PROD (B)					
3621	1900	15.0	17.0			2-72		5	8	100	PENN SD, PROD (B)					
	2700	5.0								20						
	2900	10.0	15.0		32.6			3	4	100						
3624	2330	15.0				06-71		4	5	100	PRODUCED (B)	*ESTIMATED SINCE 1978				
	2900	12.0						3	3	100						
*3603	2090	7.0	13.0	100		04-59	10-63	1	4	60	PENN SD (B)					
*3609	2560	12.0	18.0	80	38.0	12-62	08-68	2	3	90	PENN SD, PROD (B)					
3600	2200	10.0			36.9	05-70		1	1	30	PRODUCED (B)	*ESTIMATED				
	2314	8.0						2	2	40						
	2900	7.0						3	4	80						
3612	2922	8.0			35.4	09-63		1	2	40	PENN SD (B)	S.O. 4-65, REACTIVATE 7-66 *EST				
3608	2200	22.0	19.0	200	38.0	08-63		6	7	540	PENN SD, PROD (B)	*SINCE 11-62 + EST. SINCE 77				
ELDORADO 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 SD, PROD (M)	*NO DATA 1966-67 *INCL 1019				
*1019	3240	6.0				12-57	06-67	10	16	300	SH SD (F)	*NO DATA 1966-67 *INCL WITH 1007				
ELLIOTSTOWN N, EFFINGHAM																
*1101	2700	6.0				12-66	12-72	2	10	180	TAR SPR, PROD (B)	*ESTIMATED 1964-72				
ENERGY, WILLIAMSON																
4502	2354	20.0			40.0	10-71		1	9	130	PRODUCED (B)	*ESTIMATED SINCE 1976				
ENFIELD, WHITE																
*4441	3245	15.0				7-60	12-64	+	1	20	PRODUCED (B)	*EST. + ADJ. TO 426464292				
	3320	8.0						1	1	30		*INCL. PRIM. 1960-1966				
*4209	2949	4.6			36.6	10-56	03-68	2	1	80	SH SD, PROD (M)					
*4264	2810	8.4	21.5	142	36.0	02-54	03-68	3	3	220	PRODUCED (B)	*INCL PRIM PROD				
*4292	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					
	2850	5.0						1	3	80						
EXCHANGE N C, MARION																
2635	2709	15.0	11.7	200	36.2	11-66		4	9	280	WELL (B)					
EXCHANGE W, MARION																
2628	2572	12.0				11-66		2	7	150	PRODUCED (B)	*INCL PRIM PROD, EST. + ADJUSTED				

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				
* ABO				TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	
* P.M.				1979 12/79	1979 12/79	1979 12/79	1979 12/79
FAIRMAN, CLINTON, MARION * 413 PAUL WAITE	OUCOMB-KREITLER	BENOIST	13,24-3N-1W		1494**	252**	1494**
FLORA O, CLAY * 331 DONALD O. GEARY	GIVEN-MCGRUH U	MCCLOSKEY	4-2N-6E		70	4*	7
FRIENDSVILLE N, WABASH *3998 O. LOEFFLER ESTATE, *3945 MOBIL OIL CORP. *3953 J. W. SANDERS	FRIENDSVILLE NORTH U LITHELAND FRIENDSVILLE N U	BIEML	12-1N-13W 1,2-1N-13W 1-1N-13W		379 623 0	99 142* 7	99 282 0
FROGTOWN N, CLINTON * 409 ELMER DELTZE	SCHROEDER	SILURIAN	31-3N-3W		0	8.1	88
GARD'S POINT, WABASH 3853 BELL BROTHERS 3892 WALKER ORLG CO.	TALLEY GAROS POINT UNIT	OHARA	23-1N-14W 23,26-1N-14W		0 80*	3.5 4.1	45 76
GERMANTOWN E, CLINTON * 406 NAT. GAS PIPELINE	GERMANTOWN	SILURIAN	36-2N-4W, 1-1N-4W		125	4724*	1229
GILA, JASPER *1016 SCHAEFER OIL CO.	GILA	MCCLOSKEY	28,32,33-8N-9E		3194	418	1760
GOLDENGATE C, EOWAROS, WAYNE, WHITE *4412 AMERICAN PUMP *4124 CITIES SERVICE *4128 CITIES SERVICE *4155 CULLUM OIL CO. *4154 ALVA C. DAVIS *4145 OUNCAN LBE+ROY *4139 FAIRFIELD OIL CO *4374 GULP OIL CO	POLLARO UNIT KLETZKER U GOLDENGATE U PETTIGREW-PIERCY UNIT SUNNAGE-WOODS U SCOTTSVILLE PONO CREEK WP UNIT GOLDENGATE UNIT	AUX VASES AUX VASES MCCLOSKEY AUX VASES AUX VASES BETHEL AUX VASES AUX VASES SPAR MTN MCCLOSKEY	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 102 926 262* 631 751 8457 7279	109 1 7 14* 95 254 608 656	1085 10 281 122* 130 0 2479 3688
1027 ILL. LBE, OP. 4083 ILL. MIO-CONT.	CHALCRAFT-MOHK SOUTH ELLENY UNIT	AUX VASES AUX VASES SPAR MTN MCCLOSKEY	20-28-10E 24,25-28-9E 19,30-28-10E	250	79 5145*	14 13.7	358 290*
4447 JENKINS BRUB 4123 M AND M OIL CO.	WHITLOW-WILLIAMS GOLDENGATE UNIT	MCCLOSKEY AUX VASES OHARA SPAR MTN	28-38-9E 32,33-28-9E	43	800 491** 1513*	2.4 203*	105** 43 655*
4378 HARCH ORLG. CO. 4148 POOL OIL CO.	GOLDENGATE W.ELLENY	AUX VASES AUX VASES OHARA SPAR MTN	3-48-9E 15,22,23,27-29-9E		109 254 2966*	27 438*	107 145**
1023 ROBINSON PROD.	SNUWALL UNIT	AUX VASES AUX VASES SPAR MTN	30,31-28-10E	27	74	4.0	10 27 74
*4138 SKILES OIL CORP. *4377 TEXACO, INC. *4189 M. J. WILLIAMS	O'DANIEL U J. MANCOCK COOP GOLDENGATE EAST UNIT	AUX VASES AUX VASES BETHEL AUX VASES	26-28-9E 21-38-9E 25,26-28-9E		215 680 163*	26 25 30*	24 275 104*
GOLDENGATE N C WAYNE 4062 COLLINS BROS. *4051 ILL. MIO-CONT. 4066 NOAM PET	JONES LOCKE-JOHNSON GOLDENGATE NURTH UNIT	AUX VASES OHARA AUX VASES	5-28-9E 17-28-9E 17-28-9E		5* 350* 40*	0.4 55* 1.9	23 350* 20*
HALP MOON, WAYNE 4168 COLLINS BROS. 4160 JUNIPER PETROLEUM C	HALP MOON UNIT HALP MOON U	MCCLOSKEY OHARA	28-13-9E 26,34,35-18-9E		15* 51	520** 7807	0.5 4.8
MARCO, BALINE 3619 COLLINS BROS. 3613 LOBREE CORP.	MARCO U MARCO WEST POOL UNIT	AUX VASES AUX VASES	16-88-5E 29-88-5E	260*	3984* 718*	12.1 0.5	245 69
MARCO E, BALINE *3601 SUN OIL CO. *3602 SUN OIL CO.	MARCO WP UNIT MARCO WPPU	CYPRESS AUX VASES	25-88-5E 24,25,26-88-5E		84 334	3 30	37 112
HARRISBURG, BALINE *3606 W. C. MCBRIDE	HARRISBURG NORTH	WALTERSBURG	34-88-6E		1597	16	136
HERALO C, GALLATIN, WHITE 1454 ASBNER OIL CO *4119 ABMLAND O AND R 4210 C. E. BREHM *4304 C. E. BREHM 4456 JACK BROOKOVER	C.MBT,M BOYO SOUTH NEW HAVEN UNIT HERALO W. U. NEW HAVEN U NEWCOMB-AUD-MOY-WLSON	CYPRESS TAR SPRINGS WALTERSBURG AUX VASES CYPRESS AUX VASES	23-78-9E 29,30-78-10E 28,33-68-9E 18-78-10E 34-68-9E		50* 1538 193 83 25	7.3 229 33.1 19 5.1	68* 707 861 17 25
1444 COLLINS BROS.	HERALO E UNIT	TAR SPRINGS AUX VASES	23,24,25,26-78-9E	120*	2207*	6.4	164 120*
*1405 CONTINENTAL OIL *1431 CONTINENTAL OIL 1430 JOE A. OULL 1433 JOE A. OULL *4340 INO. FARM BUR. 4400 PAUL B. KNIGHT 4360 LAOD PETROLEUM	COTTONWOOD N U COTTONWOOD TAR SPR HERALO E U GLOVER-NEVILLE NEW HAVEN WP HARRELL-KNIGHT-WILLMS SAYLEY U	CYPRESS TAR SPRINGS AUX VASES AUX VASES TAR SPRINGS PENNBYLVNIN CLORE TAR SPRINGS CYPRESS AUX VASES	21,24-78-9E 16-78-9E 24-78-9E, 19-78-10E 24-78-9E 17,18-78-10E 14-78-9E 11-78-9E		5613 179* 30* 150** 400* 14	1045* 30 1.8 13.5 7.9 19.2 2.7	2114 45 46* 123 79 272 333
4365 LAOD PETROLEUM *4359 LIVINGSTON OIL 4355 MABON OIL CO.	HERALO COOP CALVERT 'A' HERALO U	AUX VASES AUX VASES CYPRESS	10-78-9E 4-78-10E 27,33,34-68-9E,		0 1361* 31 30*	1.3 135	40* 1090* 2139*

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER		
FIELD, COUNTY		PERM OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE								
PROJ.	DEPTH	NET	POR	(HO) GRAV	FIRST	ABD.	UNDER	GR GRAVEL	(B) BRINE	PROD	PRODUCED (M)	MIXED	REMARKS			
NO.	(FT)	PAY (X)	(API)	INJ.	INJ.	PROD.	INJ.	PROD	PRODUCED (M)	MIXED	SHALLOW					
		(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 8H 8U, PROD (M) *ESTIMATED																
FRIENDSVILLE N, WABAASH																
*3998	1650	10.0	15.0	35	33.0	05-62	01-71	4	3	60	8H 8U (F)					
*3945	1620	12.5	16.0	81	35.6	07-47	09-57	2	3	60	8H 8U (F)	*INC PRIM PHOD				
*3953	1631	10.0														
08-57 12-61 0 2 40 8H 8U (F) *OUMP FLOOD																
FROGTOWN N, CLINTON																
409	2240	18.0														
03-68 3 8 140 PRODUCED (B) *4W0, NO INJ DATA																
GAR0'S POINT, WABAASH																
3853	2460	10.0														
3322	2880	8.0														
06-71 0 3 60 *ADJACENT TO ACTIVE WF																
06-71 2 8 160 PRODUCED (B) *ESTIMATED																
GERMANTOWN E, CLINTON																
* 406	2300	60.0														
39.4 09-56 2 11 300 PRODUCED (B) *ADJUSTED BY OPERATOR																
GILA, JASPER																
*1916	2635	6.9	12.5	276	39.0	09-63	09-70	4	17	437	GRAVEL, PROD (M)					
GULOENGATE C, EDWARDS, WAYNE, WHITE																
*4412	3250	12.5	21.0	100	37.4	01-63	04-73	5	6	170	PENN 8U, PHOD (B)					
*4124	3242	10.0	15.0	10												
04-56 10-58 1 2 30 CYPRESS, PHOD (B)																
*4128	3308	8.0														
10-53 07-57 2 8 159 GRAVEL BED (F)																
*4155	3270	11.0														
11-62 01-71 2 4 60 PENN 8U, PHOD (B) *ESTIMATED 1967-7U																
*4154	3250	14.0														
05-62 12-70 5 4 90 PRODUCED (B)																
*4145	3100	9.0														
01-59 01-64 6 7 130 8H 8U, PHOD (M)																
*4139	3220	20.0	15.0	150	38.5	05-60										
03-63 04-67 29 10 560 8H 8U, PHOD (M)																
*4374	3300	15.0	18.0	101	38.9											
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 8U (B)																
4083	3260	13.5	15.0	8	39.5	09-71										
01-66 2 4 530 *ESTIMATED SINCE 1973																
3370 7.0 12.5 55 39.5 01-66 2 4 240 PENN 8U, PHOD (B)																
3395 6.5 12.5 350 2 4 20																
*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										
04-56 6 7 40 GRAVEL BED (F) *EST; INCL ALL PAYS; *OMARA AND																
3260 9.0 15.0 30 36.0 04-56 6 7 70 *SPAR MTN CO-MING 8-56 TO 12-75;																
3275 6.0 15.0 30 *AV 1965-74; ALL PAYS SINCE 1975																
*4378	3310	21.0	18.5	51	39.5	05-63	12-65	1	1	20	PENN 8U, PHOD (B)					
*4148	3240	10.0														
09-61 06-70 4 6 100 SH GRAVEL (F) *ESTIMATED; *INCL ALL PAYS																
3270 15.0 09-61 4 9 400																
3310 9.0 09-61 05-70 1 2 60																
1023	3180	5.5														
9-77 1 3 30 PRODUCED (B)																
3310 12.5 1 2 30																
*4138	3097	10.0														
01-59 06-63 2 2 40 8H 8U, PHOD (M)																
*4377	3240	15.0														
01-63 12-66 2 2 40 PENN 8U, PHOD (B)																
*4189	3080	10.0														
07-65 06-71 1 2 30 PENN 8U (B) *EST 1966-7U; NU DATA 1971																
3206 17.0 1 4 60																
GULOENGATE N C WAYNE																
4062	3225	19.0														
9-60 1 1 20 CYPRESS & PHOD (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, PHOD (M) *ESTIMATED																
4160	3280	10.0	11.0	124	40.0	01-62										
1 4 640 8H 8U (F)																
MARCO, SALINE																
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, PHOD (B) *ESTIMATED SINCE 1977																
MARCO E, SALINE																
*3601	2550	9.0														
07-59 08-61 1 2 30 PENN 8U, PHOD (B)																
*3602	2850	8.0														
07-59 09-62 2 9 80 PENN 8U, PHOD (B)																
HARRISBURG, SALINE																
*3606	2020	10.0	18.0	140	38.4	07-58	11-68	3	5	80	PENN 8U, PHOD (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, PHOD (M)					
4210	2325	20.0	20.0	50	37.0	01-55										
7 11 200 PENN 8U (B) *ESTIMATED SINCE 1973																
*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 40 PRODUCED (B)																
2920 10.0 30																
1444	2315	10.0														
39.0 08-64 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, PHOD (B) *INCL PRIM PHOD SINCE 12-57																
*1431	2260	15.0	12.0	30	37.8	10-63	12-64	1	1	40	CLORE, PHOD (B)	*INJ STOPPED 4-67				
1430	2900	10.0	17.0	150	38.0	08-63										
5 2 180 PALESTINE, PHOD (B) *ESTIMATED SINCE 1973																
1433	2900	8.0	12.0	37	38.0	11-63										
2 9 110 PRODUCED (B) *INJ PHOD WATER SINCE 1-69 *EST																
*4340	2870	14.0	10	35.3												
02-60 12-67 4 3 250 8H 8U, PHOD (M) *EST SINCE 1-62																
4400	2260	11.0														
10-70 2 6 100 PALESTINE, PHOD (B) *ESTIMATED																
4360	1950	15.0	14.0	50												
01-62 4 4 20 PENN 8U, PHOD (B)																
2050 15.0 90																
2280 10.0 90																
2630 22.0 40																
2880 14.0 190																
4365	2900	13.0	16.2	100	37.0	05-62										
2 6 70 PENN 8U, PHOD (B) *ESTIMATED SINCE 74; *INJ, 018C, 73																
*4359	2920	12.0														
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 8U, PHOD (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 - UNIT		S - T - R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	1979	12/79	1979
ABO				1979	12/79	1979	12/79	1979	12/79
P.M.									
HERALD C, GALLATIN, WHITE CONTINUED									
8355 HASON OIL CO.			4-78-9E						
4291 W. C. MCBRIDE	SAYLEY	PENN	3-78-9E	398		27			129
4212 G. S. MITCHELL	SAYLEY U	CYPRESS			891				35
4211 OENNIS PAINE	ACKERMAN UNIT	AUX VASES	2-78-9E		492				63
4382 BERNARO POOLSKY	SAYLEY UNIT	WALTERSBURG	13,24-78-9E	26	1247	0.8	205	32	698
4383 BERNARO POOLSKY	GRANT AUX VASES UNIT	AUX VASES	13-78-9E	15	460	0.5	65	12	217
4389 BERNARO POOLSKY	CLARK UNIT	AUX VASES	4,5,8,9-78-10E	57	1373	3.8	115	7	387
4828 BERNARO POOLSKY	L.O. AUSTIN	WALTERSBURG	28-68-9E			3.0	117	40	670
4827 SANOS OIL CO.	HERALD NW UNIT	WALTERSBURG	27,28-68-9E	60	703	10.5	141	60	563
4348 SHAKESPEARE OIL	GUESTELL COOP	PENNSYLVNIN	11-78-9E	30	634	2.9	138	8	143
8364 TAMARACK PET.	HERALD U	PENN	38-68-9E, 12-78-9E		343		17		17
HICKORY HILL, MAPION									
2625 EAGLE SUPPLY CO	HALFACRE	RENOIST	27-1N-8E		118		17		131
MILL E, EFFINGHAM									
1120 PARTLOW, COCHNOR	MORATH, POYNTER, GAODEY	CYPRESS	1,12-6N-6E	25	1508	1.5	101	25	1504
1121 PARTLOW, COCHNOR	BROWN, HOOO-BROWN	SPAR MTN	10,11-6N-6E	9	375	0.9	253	9	375
1105 WICHITA INDUSTRIES	HILL EAST UNIT	CYPRESS	11,12,13,14-6N-6E		315		154		1100
MORO, CLAY									
351 JET OIL CO.	CONNERLY-SCHROLL	AUX VASES	14-5N-6E	7	196	1.4	39	7	130
MORO B C, CLAY									
332 SHIRK, WEBSTER	SOUTH MORO UNIT	STE GEN	26,27,34,35-5N-6E		8908		748		6707
337 SHIRK, WEBSTER	ZINK UNIT	STE GEN	26,35-5N-6E		1571		77		462
INA, JEFFERSON									
2008 KEWANEE OIL CO.	JEFF-KARBER-THREL B	RENAULT MCCLOSKEY	23-48-2E		2317		238		2535
INGRAMAM, CLAY									
326 BUFAY OIL CO	SAILOR SPRINGS EAST U	SPAR MTN	5,6-4N-8E	17	161	4.8	38	2	10
320 HUMBLE O AND R	INGRAMAM U	SPAR MTN	4,9-4N-8E		2568		810		1543
INMAN E C, GALLATIN									
1436 AUTUMN OIL CO	EGLI	TAR SPRINGS	20,21,28,29-78-10E	130	2695	7.8	323	130	1666
1455 JAMES BROWNING	GOFOURTH	CYPRESS							
1422 CRAWFORD PROD	BLACK	TAR SPRINGS	27-78-10E			5.6	97	25	283
1409 FARRAR OIL CO.	E INMAN	WALTERSBURG	2-88-10E		632		115		186
1406 HUMBLE O AND R	BIG BARN	TAR SPRINGS	33,34-73-10E, 2,3,10		2422		350		
1456 MOBIL OIL CORP.	WILLIAMS	CYPRESS	88-10E						
1420 JOE SIMPKINS OIL	HAYEN	CYPRESS	11-88-10E		226		83		27
1408 TRI STAR PROD CO	WEST UNIT	TAR SPRINGS	27-73-10E	50	1310	2.0	110	20	1140
		AUX VASES	28,32-78-10E		182		2		
		PALESTINE	9,10,15,16,21,	75	2908	7.4	337	75	1008
		WALTERSBURG	22-88-10E						
		TAR SPRINGS							
		HAROINSBURG							
		CYPRESS							
1426 E. G. WELKER	EGYPTIAN TIE, TIMBER	WALTERSBURG	21-88-10E		515		61		149
1407 WESTERN OILS, LTD	KERWIN-CRAWFORD	HAROINSBURG							
		CYPRESS							
		DEGONIA	11,14-88-10E	80	2350	6.6	215	80	582
		CLORE							
		PALESTINE							
		WALTERSBURG							
		TAR SPRINGS							
		CYPRESS							
		MCCLOSKEY							
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 ASMLANO O AND R	RISTER-MOYE U	TAR SPRINGS	15-88-9E	6	813	0.5	100	6	216
1440 ASMLANO O AND R	WEST INMAN U	CYPRESS							
		TAR SPRINGS	11,12,14-88-9E	170	3671	12.0	368	100	1600
		HAROINSBURG							
		CYPRESS							
1457 CALVERT ORLG. CO.	GAUEN	CYPRESS	15-88-9E				90		
1428 T. L. CLARK	HISH-STAUB UNIT	SIEM	21-88-9E	20	133	1.4	28	20	143
1442 FARRAR OIL CO.	PONO U	CYPRESS	26,27-88-9E	60	1342	13.6	257	60	816
		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	15,16-88-9E						
1438 JUNIPER PETROLEUM C	RIOGWAY E UNIT	WALTERSBURG	14,22,23,27-88-9E	155	2182	6.7	244	71	1041
		CYPRESS							
1424 OIL MANAGEMENT INC	ORONE-WIDER-MINER	CYPRESS	27-88-9E		340		49		104
1450 OENNIS PAINE	WILLIAMS	HAROINSBURG	12-88-9E			1.2	37		
		CYPRESS							
1404 PHILLIPS PET. CO	LEVERT	CYPRESS	3-88-9E		8				
1415 RESSTOCK OIL CO.	INMAN W	TAR SPRINGS	13,24-88-9E		1406		79		764
1427 RESSTOCK OIL CO.	SCHMITT 'A'	PENNSYLVNIN	15-88-9E	30	293	1.9	52	30	436
1401 BARER OIL CO	BRADLEY UNIT	SIEM	17-88-9E		512		169		217
1453 SHAKESPEARE OIL	RIOGWAY UNIT	CYPRESS	26-88-9E	16	5229	1.8	264	16	5229
		AUX VASES							
1425 JOE SIMPKINS OIL	INMAN WEST UNIT	TAR SPRINGS	1,12-88-9E, 6,7-88-10E	70	2772	12.3	1408	310	4041
		HAROINSBURG							
		CYPRESS							
		AUX VASES							
1489 JOE SIMPKINS OIL	NORTH INMAN UNIT	AUX VASES	31-78-10E, 16-88-10E	175	1250	11.6	83	175	1250
1451 JOE SIMPKINS OIL	OWEN-MURPHY	AUX VASES	1,2-88-9E	80	265	0.6	15	10	265
1400 TARTAN OIL CO.	GOESEL-MC GUIRE-RIOER	AUX VASES	19-88-10E	60	683	3.9	73	60	683
1458 V. T. ORLG. CO.	A. STAUB CONH	TAR SPRINGS	18-88-9E				35		150
		CYPRESS							

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER			
FIELD, COUNTY										NO. OF WELLS				SOURCE TYPE			
PROJ.	DEPTH	NET	POR	PERM	OIL	GATE	GATE	WELLS	ACRES	80-80	(F)	FRESH	REMARKS				
NO.	(FT)	PAY	(%)	(MO)	GRAV	FIBRT	ABO.	UNDER	80-80	GRAVEL	(B)	BRINE	PROD	PRODUCED	(M)	MIXED	
		(FT)			(API)	INJ.	INJ.	PROD.	INJ.	PROD	PRODUCED	(M)	MIXED				
										SHALLOW							

HERALD C, GALLATIN, WHITE
CONTINUED

4355																
*4291	1520	15.0	14.6	52		11-69	01-76	2	3	50				PENN 80, PROD (B)		*INJ. CURTAILED 6-75
	2700	10.0						2	3	50						
*4212	2715	18.0	14.9	58	39.0	09-57	08-62	2	2	60				PALESTINE (B)		
*4211	2890	23.0				02-56	01-71	1	2	30				GRAVEL BED (F)		
4382	2300	8.9	20.0	200	38.5	01-63		1	2	60				PAL 80, PROD (B)		
4383	2930	9.7	19.0	100	34.8	08-63		2	4	100				PAL 80, PROD (B)		
4389	2890	8.0	18.0	75	36.0	10-64		8	6	180				RIVER GRAV, PROD (M)		
4428	2310	30.0				01-55		6	6	60						*INJ. SUSP. 10-74 TO 4-78
4427	2320	18.0				01-71		2	5	60				PRODUCED (B)		*ADJ. TO ACTIVE WF SINCE 681
4348	1425	13.0	19.0	46	33.5	01-62		3	5	59				PENN 80, PROD (B)		*INCL PHM PROD SINCE 1-62
*4364	1550	8.0	15.1	15		01-62	12-64	3	3	120				PENN 80, PROD (B)		

HICKORY HILL, MARION
#2625

2640	10.0				36.0	10-65	01-72	1	1	20				PRODUCED (B)		
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HILL E, EFFINGHAM

1120	2460	6.0				08-59		1	5	60				PRODUCED (M)		*ESTIMATED
1121	2690	6.0				01-61		1	7	170				PRODUCED (B)		*ESTIMATED
*1105	2460	13.0	18.0	100	40.0	12-59	12-64	3	15	150				SH 80, PROD (M)		

MORO, CLAY

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

MORO B C, CLAY

*332	2790	8.6	15.0	862	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	250				RIVER, PROD (M)		

INA, JEFFERSON

*2008	2640	10.0	22.0	96	37.0	12-60	12-69	3	3	120				PENN 80, PROD (B)		
	2770	8.0	13.0	25			12-69	4	3	140						

INGRAM, CLAY

326	2990	10.0				1-75		1	5	140				CYPRESS (B)		*ESTIMATED
*320	3000	5.1	14.2	2450	38.0	12-56	12-60	9	17	297				PENN 80, PROD (B)		

INMAN E C, GALLATIN

1436	2175	12.0	18.5	328	36.8	04-64		3	4	110				SH 80, PROD (M)		*ESTIMATED
	2499	21.0	16.5	212				4	4	130						
1455	2100	18.0				7-66		3	3	30						*EST. +ADJ. TO 1411 SINCE 65
*1422	1975	15.0			37.0	01-59	12-67	1	3	50				PRODUCED (B)		*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 80, PROD (M)		
1456	2100	8.0				6-65		1	1	20				PRODUCED (B)		*EST. +ADJ. TO 1411 SINCE 65
*1420	2770	9.0	12.4	8	39.0	11-60	07-62	4	4	80				SH GRAV (F)		
1408	1750	10.0	19.0	200	36.5	07-56		1	17	40				GRAVEL BED, PROD (M)		*ESTIMATED 1968-1977
	1980	15.0			37.2					160						
	2180	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	12-68	1	2	30				SH 80, PROD (M)		*NO DATA 1967-68
	2206	13.0						1	2	30						
	2419	5.0						1	2	30						
1407	1700	7.5	18.0	100	37.5	06-55		2	3	50				SH 80, PROD (M)		*NO INJ. 1972-751 +EST SINCE 69
	1730	7.5						5	4	100						
	1830	8.5			37.2			6	4	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 (B)		*NO INJECTION AFTER 73
*1429	2000	7.0	19.6	109	36.0	11-62	10-79	5	8	170				SH 80, PROD (M)		*NO INJECTION 73-76
	2380	15.0	16.6	89				2	4	60						

INMAN W C, GALLATIN

1410	2180	10.0	17.0	80		06-61	01-69	2	3	50				GRAVEL BED (F)		*FIRST DATA 661 +EST. 1979
	2500	12.0	16.5	40				1	2	30						
1440	2185	10.0			36.0	05-65		11	11	140				SH 80 (F)		*ESTIMATED 1979
	2320	10.0						2	2	40						
	2516	10.0						10	9	190						
*1457	2500	11.0				6-55	12-63	1	1	10						*EST. +ADJ. TO 1402, 03 1955-63
1428	1570	10.0	21.0	75	38.0	01-62		2	5	70				PRODUCED (B)		*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 80, PROD (B)		*INCL 1403
*1403	2180	11.0	13.0		36.1	03-57	03-63	3	7	90				PENN 80, PROD (B)		*INCL WITH 1402
1438	2080	18.0				01-72		6	6	20				SHALLOW WELL (F)		
	2502	7.0			36.8	11-65				220						
*1424	2500	8.0				06-66	12-77	4	5	110				PENN 80, PROD (B)		*ESTIMATED 1976-77
1450	2300	10.0				1-68		1	1	20						*ADJACENT TO ACTIVE WF
	2480	15.0						1	2	30						
*1404	2500	8.0	18.0	100	35.0	05-57	06-59	1	1	20				PRODUCED (B)		
*1415	2122	10.0			36.0	04-56	12-70	4	4	69				SH 80, PROD (M)		
1427	1666	8.0				06-60		1	4	60				SH 80, PROD (M)		*ESTIMATED
*1401	1726	8.0	15.0	72	36.9	10-57	01-74	1	1	180				PRODUCED (B)		*INACTIVE 1972-73
1453	2490	8.0				05-52		1	3	40				PRODUCED (B)		*INCLUDES EST. SH 52-73
	2780	18.0						1	2	20						
1425	2150	15.0			36.0	09-66		11	7	200				GRAVEL BED (F)		*ESTIMATED +INCL ALL PAYB
	2290	10.0			37.0			9	6	160						
	2475	15.0			37.0			14	13	300						
1449	2800	15.0				08-73		5	7	140				PRODUCED (B)		*ESTIMATED
1451	2810	22.0				01-68		2	1	30				PRODUCED (B)		*ESTIMATED
1400	2740	20.0				07-58		1	5	10				UNKNOWN		*EST! TEMP. ABO. 1961-1973
*1488	2190	8.0				6-87	6-63	1	1	10						*EST. +ADJ. TO 1402 & 1403 1957-63
	2500	18.0						1	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			
PROJECT NO., OPERATOR	U - UNIT		S - T - R	TOTAL	CUM.	TOTAL	CUM.	TOTAL	CUM.
A B O				1979	12/79	1979	12/79	1979	12/79
P, M,									
INMAN W E, GALLATIN CONTINUED									
*1423 ZANETIS OIL PROP	SLATON	HARDINGSBURG	11-88-9E		283		25		121
		CYPRESS							
IOLA C, CLAY, EPPINGHAM									
378 CULLUM OIL CO.	HCGEE-MOSS	AUX VASEB	22-5N-5E	25	1136	1.2	63	25	1136
1112 BETTY OIL CO	BURK ROYALTY U	BETHEL	27,34-6N-5E	448	8034	5.0	208	205	2783
		AUX VASEB							
* 357 JARVIS BROB.	LIGGETT	AUX VASEB	17-5N-5E		201		31		201
1113 KARCHMER PIPE	ERVIN-ETCHASON	BETHEL	34,35-6N-5E	50	991	2.4	153	50	991
		AUX VASEB							
1110 LAOD PETROLEUM	B HAGON U	BENOIST	26,27,34,35-6N-5E	951	10634	76.3	933	523	5288
		AUX VASEB							
1111 LAOD PETROLEUM	KINGWOOD JARVIS U	BENOIST	34,35-6N-5E	627	11980	25.5	671	430	7221
		AUX VASEB							
1119 E. M. BELF	WRIGHT	SPAR MTN	27-6N-8E	200	2083	10.8	162	200	1925
		AUX VASEB							
303 SHAKESPEARE OIL	IOLA COOP	SPAR MTN	14,15-5N-5E	292	20663	10.7	1395	292	14586
		CYPRESS							
		BETHEL							
		BENOIST							
		AUX VASEB							
* 322 TEXACO, INC.	IOLA COOP	BENOIST	14,15-5N-5E		1589		55		
* 323 TEXACO, INC.	IOLA COOP	AUX VASEB	14,15-5N-5E		3363		85		4416
338 TEXACO, INC.	IOLA S, U.	AUX VASEB	22-5N-5E	110	3764	1.2	116	114	3415
376 TEXACO, INC.	PENOER, PRATHER, SPURLN	AUX VASEB	2,11-5N-5E	252	2310	5.4	132	249	2069
		SPAR MTN							
IRVINGTON, WASHINGTON									
4020 CULLUM OIL CO.	HOLMES-MAECHOF-ERBES	CYPRESS	9,10-18-1W	90	1365	4.6	108	90	1365
		BENOIST							
4026 E H S K OIL CO	KOELLING-ANTANTUN	CYPRESS	23,26-18-1W	200	4450	13.0	404	200	4450
		BENOIST							
4019 FEAR AND OUNCAN	RAHN-BRINK	BENOIST	14,15,22-13-1W	200	4715	9.5	316	200	4715
4009 K W B OIL PROP.	HCHT BROWN UNIT	CYPRESS	22-18-1W	102	1744	6.4	247	102	1629
		BENOIST							
4002 MARK MAZZARINO	ARNING-KASTEN-REICHM	CYPRESS	9-18-1W	190	2860	8.9	254	190	2860
4018 FRED BEIP	TIEMAN & OUHL	BENOIST	23-13-1W	330	8455	16.4	530	330	8455
4004 GEORGE THOMPSON	C. KOELLING	BENOIST	15-18-1W	200	2868	14.6	312	200	2428
IRVINGTON E, JEFFERSON									
2036 N. A. BALORIDGE	WACKER-MILLER	CYPRESS	30-18-1E	100	1275	14.6	143	100	1275
		BENOIST							
2037 MARK MAZZARINO	MAYES-PITCHFORD-BRESE	BENOIST	30,31-18-1E	50	840	4.9	161	50	840
2035 E. M. BELF	KOELLING-WACKER	BENOIST	31-18-1E	50	1600	4.9	274	50	1600
IUKA, MARION									
2613 TEXACO, INC.	IUKA	HCCLOSKY	10,15-2N-8E	35	35	5.8	108	35	531
JOHNSON N, CLARK									
* 204 F. A. BRIDGE OIL	BLOCK #A	CASEY	2-9N-14W		5731		247		2713
* 205 F. A. BRIDGE OIL	BLOCK #B	CASEY	35,36-10N-14W		1118		59		338
207 NATIONWIDE ENERGY	N JOHNSON	CLAYPOOL	10,11,15-9N-14W	240	20774	12.1	1123	240	15618
		CASEY							
		PARTLOW							
* 211 E. A. OLOFIELD	V. JONES	CASEY	1,3-9N-14W		75		1		2
203 TALBOTT & SONS	N JOHNSON WF	CASEY	2-9N-14W	85	4984	4.7	940	85	2520
* 208 TIOEWATER OIL CO	CLARK COUNTY 1	CASEY	2-9N-14W		2418		160		1372
JOHNSON S, CLARK									
* 212 ACME CABING	M E LARRISON	U PARTLOW	22,27-9N-14W		4424		163		3585
* 213 ACME CABING	WEAVER-BENNETT	U PARTLOW	27-9N-14W		11359		528		9879
209 TALBOTT & SONS	SOUTH JOHNSON (P-12)	U PARTLOW	27,34,35-9N-14W	150	73004	8.6	1722		
* 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. BALORIDGE	TALBERT UNIT	AUX VASEB	32-1N-6E	4	1514	0.2	107	4	560
4182 BUFAY OIL CO	PEARL OICKEY	AUX VASEB	20-13-6E	3	11	2.5	8	3	11
4167 FARRAR OIL CO.	E. JOHNSONVILLE UNIT	AUX VASEB	25,36-1N-6E, 1-18-6E	160	11531	12.1	1150	160	6342
		HCCLOSKY							
4163 CHRIS PEARSON	LANE-WEAVER	OHARA	9-18-6E	70	2499	3.5	251	70	2297
*4049 TEXACO, INC.	TALBERT	AUX VASEB	17-18-6E		700		125		700
4072 TEXACO, INC.	JOHNSONVILLE 8U	AUX VASEB	9-18-6E	309	8790	7.0	432	308	7139
		HCCLOSKY							
4089 TEXACO, INC.	BIMS UNIT	AUX VASEB	21,22,27,28,32,33,34-18-6E	876	14631	37.7	2756	1129	20388
		HCCLOSKY			324	15390			
4121 TEXACO, INC.	JOHNSONVILLE U	AUX VASEB	21,26,27,28,33,34,35-1N-6E, 3,4-18-6E	4062	63699	97.9	4622	3898	46768
*4122 TEXACO, INC.	JOHNSONVILLE U.	HCCLOSKY	3,4-18-6E, 21,26,27,28,33,34,35-1N-6E		58250		4289		34484
*4134 UNION OIL CALIF.	CRISP UNIT	AUX VASEB	7,8,17,18-18-6E		8732		1192		4466
JOHNSONVILLE S, WAYNE									
*4172 ABHLAND O AND R	M GEFF UNIT	AUX VASEB	11,14-18-6E		3295		225		1161
JOHNSONVILLE W, WAYNE									
4061 ESO OIL CO	ORCHARDVILLE	AUX VASEB	26-1N-5E	37	513	0.4	24	30	225
4071 ESO OIL CO	JOHNSONVILLE W WF	AUX VASEB	23,24-1N-5E	352	2651	4.5	332	113	1237
*4169 FARRAR OIL CO.	W JOHNSONVILLE UNIT	HCCLOSKY	2-18-5E, 35,36-1N-5E		2245		183		620
*4161 KIRBY PETROLEUM	W JOHNSONVILLE	AUX VASEB	14,23-1N-5E		1958		347		1000

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79			INJECTION WATER			REMARKS
FIELD, COUNTY	PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	PERM (MD)	OIL GRAV (API)	DATE INJ.	NO. OF WELLS	ACRES UNDER INJ.	PROD. INJ.	SOURCE	TYPE				

INMAN W C, GALLATIN
CONTINUEO

*1423	2336	12.0					01-62	1-75	1	2	30	TAR SPRING (B)	*ESTIMATED
	2510	15.0							1	2	30		
IOLA C, CLAY, EFFINGHAM													
378	2350	12.0					06-65		1	5	60	PRODUCED (B)	*ESTIMATED/WF EFFECT SINCE 1962
1112	2290	40.4	17.3	50	37.5		02-68		5	6	120	PENN 80 (B)	
	2350	19.6	16.5	15					3	5	90		
	2440	6.0	16.0						2	3	80		
* 357	2000	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	190	PENN 80 (B)	
	2350	16.0									270		
	2424	5.0									160		
1111	2280	25.0					12-67		8	10	200	PENN 80, PROD (B)	
	2350	16.0									280		
	2424	5.0									100		
1119	2360						10-69		1	5	80	PRODUCED (B)	*ESTIMATED
	2430								1	6	80		
303	1874	8.0			32.2		01-55		1	1	20	PENN 80, PROD (B)	*ESTIMATED
	2125	10.5	20.0	100					2	4	40		
	2250	17.3	14.0	40					6	5	120		
	2280	20.0	14.0	40					14	17	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	110	PENN 80, PROD (B)	
	2420	8.0									80		

IRVINGTON, WASHINGTON

4020	1420	16.0					02-56		1	7	80	PRODUCED (B)	*ESTIMATED
	1520	10.0							1	6	80		
4026	1385	18.0					7-58		1	3	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)	*ESTIMATED
4009	1425	15.0	20.0	300	37.4		09-64		3	4	80	PRODUCED (B)	
	1540	12.0	18.0	65							80		
4002	1400	20.0			35.0		11-57		4	15	150	PRODUCED (B)	*ESTIMATED
4018	1530	10.0					01-56		2	12	140	PRODUCED (B)	*ESTIMATED
4004	1531	10.8	19.0	278	37.2		02-59		2	9	200	PRODUCED (B)	*ESTIMATED

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		08-60		1	3	270	CYPRESS, PROD. (B)	*DATA AVAILABLE SINCE 1979
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JOHNSON N, CLARK

* 204	450	20.0	20.8	399	33.9		04-49	01-63	27	13	125	SH 80, PROD (M)	*NO DATA 1958-1963
* 205	480	2.0	18.3	66	33.0		05-51	12-63	18	12	80	SH 80, PROD (M)	*NO DATA FROM 5-57 TO 8-60
207	460	19.0	19.0	330			03-55		51	71	223	GRAV, PROD (M) 71	*ESTIMATED
	530	14.0											
	595	24.0											
* 211	440	19.0	19.8	252	35.4		09-51	02-54	3	2	15	SH 80 (F)	
203	475	20.0	20.0	251	32.2		11-53		18	22	240	GRAV, PROD (M)	*ESTIMATED
* 208	425	26.1	20.6	415	33.9		02-50	12-59	19	20	81	SH 80, 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	260	GRAV, PROD (M)	*NO DATA 1969-70
209	490	48.0	16.6	319	30.5		03-49		54	62	904	GRAV, PROD (M)	*ESTIMATED SINCE 1970
* 210	420	15.0	21.0	294			03-55	1-78	30	33	479	GRAV, PROD (M)	*ESTIMATED
	445	20.0											
	500	30.0											

JOHNSONVILLE C, WAYNE

4188	3120	13.0	20.7	230	37.0		01-65		5	5	110	PENN 80, PROD (B)	*ESTIMATED SINCE 1973
4182	3054	12.0			41.0		11-78		1	4	120	CYPRESS 80, PROD (B)	*ESTIMATED
4167	3070	17.0	19.0	90	39.2		08-62		10	11	440	CYPRESS, PROD (B)	*ESTIMATED 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)	*ESTIMATED 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		3	4	230	PRODUCED (B)	
	3100	6.0	12.0	777	37.0						220		
4089	3045	25.0	16.7	118	38.0		07-67		21	27	1960	PRODUCED (B)	*ESTIMATED FROM TOTAL INJECTION
	3175	17.0	11.0	377	38.0				26	25	1960		*INCL BOTH PAYS
4121	3000	7.5	19.1	187	37.0		10-56		24	34	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)	
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JOHNSONVILLE W, WAYNE

4061	2890	10.0	19.4	175			09-73		2	3	40	PENN 80, PROD (B)	
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 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				1979 * 12/79	1979 * 12/79	1979 * 12/79			
* P.M.									
JOHNSTON CITY E, WILLIAMSON									
4501 B S J RESOURCES INC.	JOHNSTON CITY E U	CYPRESS	15,16-88-3E	40*	2630*	1,7	418		
4503 C. E. BREHM	HUCK UNIT	AUX VASES AUX VASES	8-88-3E	185	878	42,6	299		
JOHNSTON CITY N E									
4508 SUPAY OIL CO	HADISON COAL LEASE	AUX VASES	3,4-88-3E	3	44	4,1	154	3*	44*
JUNCTION, GALLATIN									
1412 ESTELLE 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	95*	985*	4,9	67	95*	791*
JUNCTION N, GALLATIN									
1445 OIL MANAGEMENT INC	HIGH LBE	PENNSYLVNIN	33-88-9E		484		29		57*
KEENSBURG S, WABASH									
3867 ALVA C. DAVIS	GARST-EPLER	CYPRESS	34,35-28-13W	100*	2018*	6,4	219	100*	95*
3991 MENMAN LOES	FEARHEILEY-THOM-UTLEY	PENNSYLVNIN	10-38-13W	200*	4633*	21,1	360	200*	3067*
3915 VICKERY OILG.	A P GARST	CYPRESS	27-28-13W		297		27		60
KEENVILLE, WAYNE									
*4125 N. A. BALORIOGE	KEENVILLE UNIT	MCCLOSKEY	27,28,33,38-18-5E		2137		232		1570
*4126 WALTER DUNCAN	KEENVILLE U		28,29-18-5E		1971		343		660
KENNER, CLAY									
* 305 TEXACO, INC.	KENNER U	BENOIST	25,36-3N-5E,		4349		374		1722
* 353 TROOP DRILLING	CHARSTEEN	AUX VASES	30,31-3N-6E		5363		117		1270
		BENOIST	36-3N-9E		45		8		45
		RENAULT							
		AUX VASES							
KENNER N, CLAY									
* 324 IND. FARM BUR.	THEOBALD	BENOIST	17-3N-6E		21		53		47*
KENNER W, CLAY									
* 306 PHILLIPS PET. CO	W KENNER U	CYPRESS	23-3N-5E		16531		535		4799
		BENOIST							
		AUX VASES							
KINCAID C, CHRISTIAN									
106 JOE SIMPKINS OIL	KINCAID U	HIBBARD	2-479-11114-16,22- 13N-3W/34,35-14N-3W	3130	11931	101,2	431**	2350	6700
KING, JEFFERSON									
2016 N. A. BALORIOGE	ESER-BOFF	AUX VASES	22-38-3E		81		1		81
2017 T. L. CLARK	RANDOLPH	AUX VASES	27,34-38-3E	20*	1357**	0,8*	199*	20*	1361**
2025 SHAKESPEARE OIL	HACE UNIT	AUX VASES	33,34-38-3E	22	303	2,0	141*	22	303
*2013 TEXACO, INC.	BAKER-BUHPUS-BHITH	AUX VASES	33,34-38-3E		1911		62		419
LANCASTER, LAWRENCE, WABASH									
3881 NICK BABARE	SHARP MOUND	REYHEL	4-1N-13W	5*	813*	0,2	144	5*	239*
3954 HAYES-WOLFE BROS	LANCASTER UNIT	REYHEL	4,9-1N-13W/33-2N-13W		5672*	0,9	1242		1431*
2255 STONE OIL CO	HELENA	SPARK MTN	16,21-2N-13W	123	1782	6,3	540	118	927
LANCASTER E, LAWRENCE, WABASH									
3984 COY OIL CO	FRIENDSVILLE U	BIHEL	25,36-2N-13W		232		17*		51*
LANCASTER S, WABASH									
3916 HERMAN LOES	LANCASTER SOUTH	BETHEL	21-1N-13W	20*	690*	1,0	121	20*	333*
3846 PETRON, INC.	FRIENDSVILLE W UNIT	BETHEL	21,28-1N-13W	300*	545*	83,3	129	300*	545*
LAWRENCE, LAWRENCE, CRAWFORD									
2257 ACME CABING	LEWIS	CYPRESS	24-3N-12W	200*	1650*	12,4*	155	200*	1590*
2215 ABNLANU O AND R	BOLLES-WRIGHT UNIT	BETHEL	7,8,17-4N-12W		1589	3,6	67		313
2242 BALDWIN, BALWIN	O'DONNELL	CYPRESS	17-3N-12W	250*	4684*	10,3	454	250*	1916*
2291 BALWIN, BALWIN	CUMMINS	BRIOGEPORT	6-3N-12W	430*	6640*	28,8	424	430*	5816*
2269 FRANCIS BEARD	JENNER	CYPRESS	36-3N-12W	75*	6574*	3,2	339	75*	3554*
*2200 CALVAN AMERICAN	PIPEK	BETHEL							
*2229 CALVAN AMERICAN	WALLER	CYPRESS	2,11-4N-13W		146		6		
2236 CHARLES E. CARR	L GILLESPIE	CYPRESS	5,6-2N-11W		828		12		144*
		BRIOGEPORT	26,35-3N-12W	30*	9667*	2,8	862	120*	8174*
		CYPRESS		60*	9955*				
		BETHEL		30*	1933*				
2241 CHARLES E. CARR	FYFFE	CYPRESS	6-3N-12W,1-3N-13W	20*	6389*	0,6	465	20*	2406*
2244 CHARLES E. CARR	BRIOGEPORT UNIT	CYPRESS		40*	6962*	1,6	632	40*	5102*
2245 CHARLES E. CARR	S GILLESPIE	CYPRESS	26-3N-12W	120*	2964*	4,2	221	120*	1521*
2252 CHARLES E. CARR	BOWER-ROSS	BETHEL							
2253 CHARLES E. CARR	FYFFE *39*	CYPRESS	29-4N-12W	280*	4063*	14,2	493	280*	3522*
2258 CHARLES E. CARR	COOPER-DAVIS	CYPRESS	31-4N-12W	60*	2794*	3,0	425	60*	2415*
2262 CHARLES E. CARR	FYFFE U	CYPRESS	6,7-3N-12W	20*	2153*	0,7	165	20*	2238*
2270 CHARLES E. CARR	GRAY FEE W F	CYPRESS	36-4N-13W	50	2806*	2,8*	203*	50*	70*
		BETHEL	1-2N-12W		1554*		93*		518*
2276 CHARLES E. CARR	WITHERS-PELHAM-BSTATE	CYPRESS	36-3N-12W	20*	2844*	1,0*	281*	20*	1776*
*2205 WALTER DUNCAN	L.C. DAVIO	BETHEL							
2206 T. W. GEORGE EST.	KLONOIKE WF	SAMPLE	8-3N-11W		5		8		8
2261 FRANCIS GILLESPIE	SUCHANAN,BREEN,RIOGLY	REYHEL	25,26,35,36-5N-13W		9090				3338*
		BRIOGEPORT	10,11-2N-12W	50*	715*	6,9	116	50*	515*
*2280 GULF OIL CO	M E GRIEGS	BIHEL							
2211 GAIL HEATH	STOLTZ	CYPRESS	18-3N-12W		245		6		2
2280 MICHAEL HUDDLESTON	VANERMARK-ALBRECHT	BENOIST							
		BRIOGEPORT	32-4N-12W	75*	15029*	3,0	1081	75*	8641*
		CYPRESS							
		BRIOGEPORT	34-3N-12W	250*	4432*	6,6	482	250*	3367*
		CYPRESS							

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER			REMARKS
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	ACRES	80-BAND	SOURCE	TYPE							
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	(MO)	(API)	FIRST INJ.	ABD.	WELLS UNDER INJ.	PROD. INJ.	80-BAND UNDER PROD. INJ.	(F) FRESH (B) BRINE (M) MIXED						
JOHNSTON CITY E, WILLIAMSON																	
4501	2300	20.0	14.8	80		02-67		4	5	90	CYPRESS 80 (B)			*ESTIMATED SINCE 1977			
	2580	6.0	12.2	14				2	5	70							
4503	2580	19.0	16.0		39.0	8-75		2	5	100	PENN 80 (R)						
JOHNSTON CITY N E																	
4505		2824	22.0		40.0	2-71		1	4	50	PRODUCED (B)			*ESTIMATED			
JUNCTION, GALLATIN																	
1412	1720	14.0	16.0	22	36.0	05-51	04-71	5	6	110	8M SD (F)			*EST 1965-66; NO DATA 1967-71			
JUNCTION S, GALLATIN																	
1441	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	8M SD, PROD (M)			*EST. 1979 DATA			
3991	1181	13.0	15.0	42	32.5	12-62		5	9	130	8M 80, PROD (M)			*ESTIMATED SINCE 1971			
3915	2403	15.0	20.6	134	37.5	11-54	12-59	1	1	60	8M GRAV (F)			*ESTIMATED			
KEENVILLE, WAYNE																	
4125	3100	9.0			40.0	11-56	03-66	3	12	220	8M 80, PROD (M)						
4126	2950	13.0	20.0	155	39.0	04-54	11-61	3	9	120	8M 80 (F)						
KENNER, CLAY																	
305	2700	14.0	15.6	54	36.0	06-59	12-74	23	24	480	PENN 80, PROD (B)						
	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 (B)						
	2774	18.0						1	1	20							
	2831	13.0						1	1	20							
KENNER N, CLAY																	
324	2750	10.0	17.0	40	36.0	10-58	12-63	1	3	30	PRODUCED (B)			*ESTIMATED			
KENNER W, CLAY																	
306	2600	13.0			37.5	02-52	06-68	11	15	280	PRODUCED (B)						
	2720	14.0						6	11	200							
	2800	16.0						1	5	70							
KINCAID C, CHRISTIAN																	
106	1860	10.0				10-74		42	86	700	PRODUCED (R)			*INCLUDES PRIM PROD			
KING, JEFFERSON																	
2016	2700	7.0				01-63	11-68	1	3	40	PRODUCED (B)			*WATER INJ INEFFECTIVE			
2017	2700	20.0				06-64		3	5	80	CYPRESS, PROD (B)			*EST SINCE 1967; *INACTIVE 1974			
2025	2708	10.0	12.0	16		11-64		1	4	80	PRODUCED (B)			*INCL PRIM PROD			
2013	2735	11.0			37.0	05-61	02-70	3	2	160	PRODUCED (B)						
LANCASTER, LAWRENCE, WABASH																	
3881	2540	21.0	17.0	65	37.5	07-64		2	3	40	PRODUCED (B)			*ESTIMATED SINCE 1971			
3954	2500	16.0			34.0	12-58		21	34	500	SURF POND, PROD (M)			*INJ. DISC. 1977			
2255	2720	7.0				07-71		5	8	300	PENN 30 (B)						
LANCASTER E, LAWRENCE, WABASH																	
3984	1740	9.0			30.6	01-71	01-75	1	2	30	SHALLOW SAND, PROD. (M)			*ESTIMATED			
LANCASTER S, WABASH																	
3916	2520	10.0			36.0	01-55		2	6	80	PRODUCED (B)			*ESTIMATED			
3846	2495	13.0				11-73		1	6	70	PRODUCED (B)			*ESTIMATED			
LAWRENCE, LAWRENCE, CRAWFORD																	
2257	1580	20.0				06-67		9	7	180	PENN 30 (R)			*ESTIMATED			
2215	1680	10.0	15.0	20	38.0	07-66		4	8	120	PURCHASED (F)			*INJECTION DISCONTINUED 12-78			
2242	1500	28.0	16.7	15	38.0	04-59		9	7	160	BUCHANAN, PROD (B)			*ESTIMATED SINCE 1976			
2291	980	30.0				01-58		4	10	80	PRODUCED (B)			*ESTIMATED SINCE 1976			
	1440	30.0						4	10	80							
2269	1540	25.0	15.0	30		11-62		11	10	100	GRAV, 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	8M 80 (F)						
2229	1535	50.0	18.5	70	39.5	03-53	11-55	8	8	160	8M GRAVEL (F)			*ESTIMATED			
2236	990	30.0	19.3	200	37.0	11-58		16	10	100	GRAV 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 SD, PROD (B)			*ESTIMATED			
2244	1575	25.0	18.0	80	38.0	06-59		9	10	150	PENN 80, PROD (B)			*ESTIMATED			
2245	1550	28.0	17.0	35	39.0	10-60		8	6	50	RIVER, 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 (B)			*ESTIMATED SINCE 1971			
2253	1420	20.0	20.0	80		12-56		3	4	40	PENN 80, PROD (B)			*ESTIMATED			
2258	1620	15.0				06-63		3	5	90	PENN 80, PROD (M)			*ESTIMATED			
2262	1650	25.0	18.0	130		12-60		8	4	80	PENN 80, PROD (B)			*ESTIMATED			
2270	1545	25.0			37.0	07-61	07-74	3	5	60	8M SD, PROD (M)			*ESTIMATED			
	1670	10.0						3	5	60							
2276	1564	20.0	16.9	41	38.5	02-63		8	8	80	8M SD, PROD (M)			*ESTIMATED SINCE 1970			
	1690	12.0	15.0	17				8	8	80							
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	44	36	750	8M SD, PROD (M)			*ESTIMATED			
2261	980	14.0				6-63		5+	10+	150+	PENN. 8 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 (B)						
	1746	12.0	16.0	27				1	1	10							
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							
2240	988	24.0	21.0	398	29.5	08-58		3	7	70	LAKE, PROD (M)			*ESTIMATED			
	1648	15.0			39.8			1	3	40							

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				
A = A90				TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	
P, M.				1979 12/79	1979 12/79	1979 12/79	
LAWRENCE, LAWRENCE, CRAWFORD							
CONTINUED							
2224	ILLINOIS OIL CO.	FINLEY U	CYPRESS	25=3N=12W	748	38	652
2225	ILLINOIS OIL CO.	GEE-IRWIN U	BETHEL				
			CYPRESS	36=3N=12W	450	679	2.0
			BETHEL				49
			HCCLOSKEY				450
2226	ILLINOIS OIL CO.	DINING HEIRS	CYPRESS	36=3N=12W	800	1202	3.9
2210	K W B OIL PROP.	MGMTNEAL	BETHEL				116
			BRIDGEPORT	29=4N=12W	406	9337	10.6
			JACKSON				903
			CYPRESS				370
2219	K W B OIL PROP.	MGMTROGERS	BETHEL				370
			CYPRESS	14=3N=12W	72	2049	3.4
2254	K W B OIL PROP.	MGMTALRYMPLE	BETHEL				243
			JACKSON	29=4N=12W	107	5551	2.8
			CYPRESS				526
			BETHEL				115
2285	K W B OIL PROP.	MGMTINKLE	BENOIST				3932
			BRIDGEPORT	26=3N=12W	247	3784	8.3
			CYPRESS				504
			BETHEL				286
2281	JENNY LEE OIL CO	CALVERT=MUSGRAVE	BRIDGEPORT	3=3N=12W	0	70	0
2273	HEMAN LOES	LOES AND MCPHERSON	CYPRESS	14,15,22=3N=12W	800	3500	4.4
			BETHEL				3550
2275	HEMAN LOES	BURNS, GRIGGS, ZELLARS	BRIDGEPORT	8=3N=12W	1050	10947	5.0
2227	U. LOEPLER ESTATE.	HCCLOSKEY	CYPRESS	25=3N=12W	850	10480	4.4
2277	O. LOEPLER ESTATE.	BUNKER HILL U	BETHEL				960
			BRIDGEPORT	12=2N=12W	850	36960	3.1
			BETHEL				1790
2208	MARATHON OIL CO.	CRUMP #40	CYPRESS	19=4N=12W	0	2262	0
2209	MARATHON OIL CO.	CRUMP UNIT	CYPRESS	31=4N=12W	0	2367	0
2213	MARATHON OIL CO.	17 PROJECTS	JACKSON	73,4N=R12,13W	17367	421034	598.1
			CYPRESS				51017
			BETHEL				14889
			BENOIST				313295
2214	MARATHON OIL CO.	9 PROJECTS	BRIDGEPORT	T 3,4N R 12,13W	13797	247878	812.0
2216	MARATHON OIL CO.	4 PROJECTS	HCCLOSKEY	T 3,4N R 12,13W	3334	66456	84.5
2234	MARATHON OIL CO.	ST LOUIS WF 11=M	ST LOUIS	30=4N=12W	32	477	0.9
2247	MARATHON OIL CO.	HARDINBURG WF 37=M	HARDINBURG	27,34=3N=12W	270	3477	13.3
2279	MARATHON OIL CO.	RIOGLEY #1=P	RIOGLEY	26,34,35=3N=12W	265	8881	25.9
2294	MEPCO, INC.	GEE HRB	CYPRESS	19=3N=11W/24=3N=12W	400	950	4.1
2200	W. C. MCBRIDE	APPLEGATE	JACKSON	7=4N=12W, 12=4N=13W	4468	228	100
			CYPRESS				400
			HCCLOSKEY				950
2249	W. C. MCBRIDE	HINKLE	MCCLOSKEY	26=3N=12W	175	24	223
2251	W. C. MCBRIDE	COMBS	CYPRESS	20=4N=12W	779	65	339
2203	MISTY OIL CO	BRIDGEPORT 4 U	BETHEL	19=3N=12W	1800	18560	12.2
2207	NATIONWIDE ENERGY	GRAY AREA	JACKSON	13,14=4N=13W	500	81720	3.8
			BETHEL				746
			BENOIST				500
2266	NATIONWIDE ENERGY	KINKWOOD=MCPHENSON	CYPRESS	11,12,13,14=3N=12W	1800	34200	12.7
2243	OILFIELD ORG.	BELL UNIT	CYPRESS	1=3N=13W	100	24290	1720
2271	DAVID PHILLIPS	BRUNSON=PAYNE=FAITH	CYPRESS	18,19=3N=11W	700	3550	3.5
2274	BERNARD PODOLSKY	GILLESPIE AND CALVERT	CYPRESS	15,22=3N=12W	0	12270	3.7
2237	A. BRANDT POWELL	BYOLTZ HEIRS	JACKSON	25=4N=13W	500	19290	3.3
			CYPRESS				350
			BETHEL				290
2230	REE, INC.	BNYDER	CYPRESS	30=3N=11W	0	16	1
2227	MUSKIE ROSE	LEIGHTY	CYPRESS	32=3N=11W	0	1170	20
2217	SHAKESPEARE OIL	3 BRPORT U C MILLER C	BETHEL	20,29,30=3N=12W	400	4902	536
2288	JOE SIMPKINS OIL	COLLINS SCHL	CYPRESS	6=2N=11W/31=3N=11W/	1000	17100	5.9
			SAMPLE	1=2N=12W			1190
2202	WAYNE SMITH, OP.	C M PERKINS	BRIDGEPORT	32=4N=12W	205	17726	5.1
2220	WAYNE SMITH, OP.	BUCHANAN	CYPRESS	7=3N=12W	102	3854	2.8
			BETHEL				471
			BENOIST				99
2221	WAYNE SMITH, OP.	OSCAR LEIGHTY	CYPRESS	31=3N=11W	0	20200	1.5
2233	WAYNE SMITH, OP.	PEPPLE	CYPRESS	30=4N=12W	0	98260	1.8
			BETHEL				996
2238	WAYNE SMITH, OP.	L M SEED	CYPRESS	21=3N=12W	0	33910	0
2256	WAYNE SMITH, OP.	BREEN	CYPRESS	24,25=4N=13W	0	26060	0.5
			BETHEL				178
2259	WAYNE SMITH, OP.	WHITTAKER AREA	CYPRESS	2,10,11=3N=12W	129	11828	10.5
			BETHEL				1489
2260	WAYNE SMITH, OP.	E J SEED	JACKSON	15,16,22=3N=12W	2	2280	199
			CYPRESS				9
2265	WAYNE SMITH, OP.	PIPER-DROLL AREA	JACKSON	1,2,11,12=4N=13W	482	15018	14.1
			CYPRESS	35,36=5N=13W			1411
			BETHEL				468
			BENOIST				7917
2272	WAYNE SMITH, OP.	HAYWARD AREA	CYPRESS	25,26=3N=12W	37	3007	8.3
			BETHEL				687
2284	WAYNE SMITH, OP.	BUCHANAN AREA	BRIDGEPORT	2=2N=12W	0	190	1
2289	WAYNE SMITH, OP.	W.P. GOULO UNIT	CYPRESS	31=3N=12W	0	1930	5
2223	TEXACO, INC.	LAWRENCEVILLE FEE	CYPRESS	7,18=3N=11W	0	524	13
2239	ZANETIS OIL PROP	WAYNE HEIRS	AUX VASES	28=3N=11W	16	364	2.0
			HCCLOSKEY				48
2264	ZANETIS OIL PROP	CASSIL	CYPRESS	36=4N=13W	0	62	57
2282	ZANETIS OIL PROP	CARLSON	BUCHANAN	15=3N=12W	221	4188	4.5
			CYPRESS				368
			BETHEL				2210
			HCCLOSKEY				41880
2283	ZANETIS OIL PROP	HUBSON WF	CYPRESS	18=3N=11W	0	7140	470

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER			REMARKS
FIELD, COUNTY		PERM OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE									
PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	(MO) GRAV (API)	FIRST INJ. (FT)	ABD. INJ.	PROD. INJ.	80-BAND UNDER PROD	(F) FRESH (B) BRINE (M) MIXED								
LAWRENCE, CONTINUED	LAWRENCE, CRAWFORD																
2224	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	40							
2225	1530	20.0	18.0	100	36.0	02-67		1	1	20	PRODUCED (B)	*ESTIMATED SINCE 1972					
	1630	15.0	16.0	50				1	1	20							
	1780	10.0	15.0					1	1	20							
2226	1550	12.0	18.0	100		12-65		1	2	20	PRODUCED (B)	*ESTIMATED SINCE 1972					
	1650	10.0	16.0	70				1	2	20							
2210	970	15.0	20.0	200		05-56		9	9	20	PENN 80, PROD (B)						
	1330	6.0	18.0	40						80							
	1390	23.0	19.0	20						80							
	1470	18.0	17.0	20						40							
2219	1530	12.0	16.0	30		08-66		5	9	50	PENN 80, PROD (B)						
	1620	10.0	15.0	20						40							
2254	1450	6.0	19.0	80		03-68		3	5	10	PENN 80, PROD (B)	MOST OF THE WATERFLOOD EFFECT HAS BEEN IN JACKSON AND CYPRESS					
	1500	20.0	19.0	80		09-59				70							
	1575	10.0	16.0	35		09-59				70							
	1650	13.0	15.0	28		09-59				70							
2285	1000	10.0	18.0	100		11-63		6	9	40	PENN 80, PROD (B)						
	1550	17.0	18.0	50						80							
	1640	12.0	15.0	20				5	7	80							
2281	1019	15.0				06-62		1	2	30	SH 80, GRAVEL (F)	*NO DATA SINCE 1965					
2273	1535	15.0	18.5	40	30.0	12-62		7	8	180	BUCHANAN, PROD (B)	*ESTIMATED SINCE 1972					
	1630	10.0	18.0	15				6	5	120							
2275	850	20.0	21.0	131	30.9	11-56		4	6	50	BUCHANAN, PROD (B)	*ESTIMATED SINCE 1969					
	1440	20.0						5	7	60							
2227	1600	15.0	18.0	75	36.0	01-66		1	2	10	PRODUCED (B)	*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 (B)	*INCL WITH 2213 SINCE 1979					
2209	1620	22.0	20.0	80		12-56		5	4	40	PENN 80, PROD (B)	*INCL WITH 2213 SINCE 1979					
2213	1375					01-52		477	564	1600+	PROD, FRESH W&W (M)	*JUDY, WEBTALL, KING, SUTTON, KIMMEL BOYO, MIDUAGH, NEWELL, MOORE, THORN GOULO, SEED, GHAY, KYAN, LEIGHTY, JENNER, WISE-GRAY, INCL 2208, 2209					
	1430	10.0								5600+							
	1530	10.0								2400+							
	1600	8.0								300+							
2214	800	30.0			35.6	08-48		460	470	2096	GRAV, PROD (M)	*ROBINS, JOHNSON, KLINGLER, COOPER, BALTZELL, LEWIS, CLARK, FINLEY, GEE					
												*APPLGATE, WILLIAMS, GILLESPIE, VANDERHARK					
2216	1700	20.0		1500		11-56		27	50	1637	GRAV, PROD (M)						
2234	1950	30.0				12-75		4	1	40	PRODUCED (B)						
2247	1350	13.0				09-71		11	11	290	PROD & FRESH (M)						
2279	1230	16.0	17.0	400		08-64		14	28	584	GRAV, PROD (M)						
2294	1625	15.0				6-76		2	9	110	PRODUCED (B)	*ESTIMATED					
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	3.0	23.0	40				10	10	40							
2249	1775	15.0	20.0	175		08-59	01-66	1	4	40	PENN 80, PROD (B)						
2251	1450	20.0	18.0	50		03-59	02-71	1	1	60	PENN 80, PROD (B)						
	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 (B)	*ESTIMATED					
2207	1412	8.0	13.5	9		05-53		10	10	200	BRIDGEPORT, PROD (B)	*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 (B)	*1966 DATA ESTIMATED					
2271	1560	16.0				10-69		3	11	130	SH 80, PROD (M)	*ESTIMATED					
2274	1590	14.0	18.5	40	30.0	11-62		4	7	100	BUCHANAN, PROD (B)	*INJ. CURTAILED MARCH 1974					
2237	1460	6.0	20.0	85	38.0	07-58		1	2	30	PENN 80, PROD (B)	*ESTIMATED 6-67 THRU 12-79 ONLY					
	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 (B)						
2222	1610	9.0			36.0	02-66	07-74	1	2	30	PENN 80, PROD (B)	*EST, 1968-1971; INJ. SUSP. 1972					
2217	1800	12.1	17.1	70	38.0	10-56	12-66	20	18	313	TAR SPRINGS (B)						
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		19	10	100	BUCHANAN 80, PROD (B)						
	1350	20.0	18.0	100				19	10	100							
2220	1570	28.0	17.9	64	37.0	12-65		4	1	60	GRAVEL BED (F)						
	1670	9.0	15.9	37				2	2	40							
	1730	9.0	12.5	2				3	4	80							
2221	1650	15.0	16.5	50	39.0	01-66		5	7	60	RIVER GRAV, PROD (M)	*INJ. SUSP. 1-78					
2231	1400	30.0	18.0	75	37.0	06-57		2	1	130	BUCHANAN 80, PROD (B)	*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 74; INJ 80BP 79					
2256	1930	20.0	16.0	47	37.0	05-60		2	1	70	BUCHANAN 80, PROD (B)	*INACTIVE SINCE 1976					
	1675	20.0	12.0	5	37.0					70							
2259	1920	20.0	18.0	35		11-60		11	18	650	RIVER, PROD. (M)						
	1630	15.0								650							
2260	1500	5.0				02-61		4	6	40	SH 80 (F)						
	1590	16.0								30							
2265	1310	12.0	18.0	30	38.0	12-61		23	23	500	RIVER, PROD (M)						
	1400	10.0	18.0	35	38.0					480							
	1525	6.0								160							
	1585	5.0								120							
2272	1575	25.0	16.0	20	39.5	12-63		6	16	120	BRIDGEPORT, PROD (B)						
	1630	14.0						6	16	120							
2286	950	40.0	19.0	100	31.0	07-63	02-66	2	2	40	SH 80 (F)						
2249	1590	20.0	19.0	75	30.0	09-65	06-70	8	8	180	PENN 80, PROD (B)						
2223	1560	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 (B)						
	1919	5.0	15.0	23				1	3	50							
2264	1640	19.0			38.6	09-62	12-66	1	3	40	SH 80, PROD (M)						
2282	1300	15.0				04-71		4	5	40	PRODUCED (B)	*ESTIMATED					
	1516	31.0	16.0	14	36.7	07-64				180							
	1622	22.0								40							
	1770	5.0	15.0	2				2	4	100							
2283	1597	18.0	20.8	121	36.1	05-64	1-77	3	5	40	PRODUCED (B)	*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.					
• ABO				1979	12/79	1979	12/79	1979	12/79		
• P.H.											
LAWRENCE, LAWRENCE, CRAWFORD CONTINUED											
2292 ZANETIS OIL PROP	W.H.00, GILLESPIE	BUCHANAN CYPRESS	15-3N-12W	275	2017	7.3	419	275	1742		
LAWRENCE W, LAWRENCE •2250 ACNE CASING 2235 N. A. BALORIOGE	B SUMNER UNIT LAWRENCE WEST	BETHEL BETHME	14,23,24-3N-13W 23,24,25-3N-13W	30*	1191 310*		186 22*	30*	285 310*		
LEXINGTON, WABASH 3858 HOCKING OIL	LEXINGTON U	HCCLOSKEY	26-1B-14W	66*	2592*	1.3*	66	66*	760*		
LILLYVILLE, CUMBERLAND, EFFINGHAM 704 GALLAGHER DRILLING	KROGMAN	HCCLOSKEY	31-9N-7E	143	2599*	5.5	305*	70	891*		
LIVINGSTON, MADISON •2500 WILLIAM H. KROHN •2501 M. W. MCCONNELL •2502 CHARLES P. WOOD	KROGER C. AND O. HENKE UNIT KROGER	PENN PENN PENN	17-6N-6W 17,20-6N-6W 17-6N-6W		67 104 37*		3 25 3*				
LIVINGSTON S, MADISON 2509 HOWARD CLEFF 2507 FAIRFIELD OIL CO 2508 R. L. GROSSMAN	B#07-KERIN-LEITCH BLOM-FOWLER-HUEHRUPPU QUAOE-REPOUBCH	PENN PENN BETHEL	27,34-6N-6W 27-6N-6W 21,22-6N-6W	65* 26 40*	955* 749* 765*	3.3* 5.8 1.7	82* 110* 50	65* 5 40*	805* 24* 685*		
LOCUST GROVE, WAYNE •4085 ZANETIS OIL PROP	GAUSS B	AUX VABEB	31-1N-9E		399*		25*		150*		
LOUDEN, EFFINGHAM, FAYETTE 1252 N. A. BALORIOGE	LOUDEN **	CYPRESS BETHEL CYPRESS	77,8N-9S,4E 29-8N-3E	200*	2172*	19.4*	327*	200*	2500*		
1230 BARGER ENG	BINCLAIR	BETHEL CYPRESS		127	5265	7.2	762	127	5203		
1243 BARGER ENG	WELKER	CYPRESS	31-7N-3E	55	1810	6.6	656	55	4545		
•1201 W. L. BELOEN	HINYON U	CYPRESS	32-7N-3E		100		11				
1202 W. L. BELOEN	UNIT 25	CYPRESS	24,25-8N-3E	131	7072	3.4	599*	131*	6670*		
1209 W. L. BELOEN	B. F. OWENS	CYPRESS	9-7N-3E		757*	3.6	239	70*	1350*		
1213 W. L. BELOEN	E.C. SMITH	CYPRESS	20-7N-3E	147	1805	5.6	859	147*	2733*		
1226 W. L. BELOEN	SATHER	CYPRESS	16,17-7N-3E	116	1877	24.2	426	116*	1341*		
1203 O. L. BURTSCHI E&T,	O.L. BURTSCHI U	CYPRESS BETHEL US1	18-7N-3E 29,31,32-7N-3E	23*	1306*	4.3	232	23*	786*		
1207 REVIS O. CALVERT	MOHAN	CYPRESS	30-7N-3E		16305*	1.3*	1959*	20*	11989*		
•1215 REVIS O. CALVERT	KOBERLIEN	CYPRESS	14-8N-3E		2786*		515		1870*		
•1217 REVIS O. CALVERT	STUKEO-WEILEN	CYPRESS	18-7N-3E		2610		429		1255		
1233 REVIS O. CALVERT	BAPP	CYPRESS	18-7N-3E	10*	1886*	U.5*	160*	10*	718*		
1255 OORAN OIL PROP,	J.W. ARNOLO	CYPRESS	19-7N-3E	65*	1785*	3.2	117*	65*	1785*		
1204 EXXON	LOUDEN	CYPRESS BETHEL BENOIST AUX VABEB	7,7,8,9N-2,3,4E	30995	170818	1122.0	134776	35600	619073		
1216 FRY OIL CO	RHOODES-WATSON	CYPRESS BETHEL BENOIST	27,33,34-8N-3E	210*	6925*	7.2*	1112**	210*	5087*		
1206 GENERAL AMERICAN	DEVORE COOP	CYPRESS	1-7N-2E	218	2775	4.8	396	219	2655		
1254 TOM GRACE	BAIL-LONG	CYPRESS	15-7N-3E	30*	805*	1.5	44*	30*	805*		
1205 L. B. HOSS TRUST	STEWART AND UIAL	CYPRESS	6-7N-3E	20*	1092*	1.9	123	20*	436*		
1225 L. B. HOSS TRUST	EMERSON	CYPRESS	31-8N-3E	10*	128*	0.4	12	10*	209*		
1235 L. B. HOSS TRUST	M. LOGUE	CYPRESS BETHEL	18-7N-3E	20*	855*	0.8	40	20*	528*		
1241 L. B. HOSS TRUST	ARNOLO-MORSON-BEALOCK	CYPRESS	19-7N-3E	400*	5569*	28.5	774	400*	5412*		
1242 L. B. HOSS TRUST	LAURA LOGUE	CYPRESS	18-7N-3E	25*	378*	1.1	70	25*	378*		
1248 L. B. HOSS TRUST	RHOODES	CYPRESS	100*	1321*	3.8	401	100*	1407*			
•1249 L. B. HOSS TRUST	BUZZARO	CYPRESS	3-7N-3E		199		199		1850		
1210 R. L. HOSS	YOLTON	CYPRESS BETHEL	12-7N-2E 17-7N-3E	150**	5191**	7.1*	825*	15**	3684**		
1228 R. L. HOSS	SMITH	CYPRESS	13-7N-2E	40*	2261*	1.7*	227*	40*	1726*		
1232 HUGHES PROD,	HOPPER-TOWNSEND-MCLRY	CYPRESS	12-7N-2E	141	3251	7.6	686	141*	3957		
#1223 MURBLE O AND R	LOUDEN OEVONIAN*	GENEVA	2,10,11,15,20,21,22, 27,28,29,32,33-8N-3E		207361		19241		184970		
•1208 JARVIS BROS,	YAKY	CYPRESS BETHEL	6-7N-3E		2872		286		1923		
•1234 KINGWOOD OIL CO,	WELKER	CYPRESS	13-7N-2E		115		2		23		
1214 KOONS & FRANK EXPL	MOHAN	CYPRESS	29-7N-3E	85*	4846*	4.3	594	85*	4997*		
1247 KOONS & FRANK EXPL	KIMBRELL-GOOD	CYPRESS	19-7N-3E	250*	5024*	12.7	619	250*	4688*		
1236 M-8-C-CORP	O.L. BURTSCHI	CYPRESS BETHEL	18-7N-3E	150*	2568*	8.7	323	150*	2222*		
1237 M-8-C-CORP	BEFTON	CYPRESS	1,12-7N-2E	100*	1674*	5.7	316	100*	2048*		
1224 MOBIL OIL CORP,	LOUDEN	CYPRESS BETHEL BENOIST	5-7N-3E, 32-8N-3E	2027	37642	43.0	6290*	2100	31530		
1227 MOBIL OIL CORP,	BUZZARO BROS,	CYPRESS BETHEL	29-8N-3E	152	2803	3.0	248*	86	2312		
•1212 SMULMAN BROTHERS	LOUDEN EXTENSION	CYPRESS	34,35,36-8N-3E, 2,3-7N-3E		35840		3208*		23587		
1229 TEXACO, INC,	LOUDEN SOUTH UNIT	CYPRESS	4,7-6N-3E 31-7N-3E	1943	31974	51.7	2332*	1704	30903		
1244 TEXACO, INC,	LILLY	CYPRESS BETHEL BENOIST	16-8N-3E	153	4194*	26.4	1126	268	3635*		
1108 TRI STAR PROD CO	LOUDEN EXTENSION	CYPRESS	19-8N-4E	*	891**	2.4	124	60*	451*		
1200 TRI STAR PROD CO	RHOODES, HCCLOY	CYPRESS BETHEL BENOIST	26,27,34-8N-3E	*	1959**	1.5	97	30*	1731*		
1213 TRI STAR PROD CO	N. LOUDEN U	CYPRESS	20,21-7N-3E	*	19118**	1.8	1627	100*	14521*		
1219 TRI STAR PROD CO	S. LOUDEN U	CYPRESS	21,28,29-7N-3E	*	15985**	4.2	2185	100*	13223*		
1220 TRI STAR PROD CO	OURBIN, FORCE AREA	CYPRESS	24,26-8N-3E	*	2297**	1.5	333*	*	1014**		
1221 TRI STAR PROD CO	HIATT	CYPRESS	29-7N-3E	180	3224	2.5	493	180	3113		
•1231 TROOP DRILLING	W A EAGLETON	CYPRESS	20-8N-3E		41		62		100*		

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER			REMARKS
FIELD, COUNTY		PERM	OIL	DATE	DATE	NU.	OF	ACRES	BO	SAND	(F)	FRESH					
PROJ.	DEPTH	NET	POR	(MO)	GRAV	FIRST	ABO.	UNDR	PROD	GR	GRAVEL	(B)	BRINE				
NO.	(FT)	PAV	(%)	(API)	INJ.	INJ.	PROD.	INJ.	PROD	PROD	PROD	(M)	MIXED				
LAWRENCE, LAWRENCE, CRAWFORD																	
CONTINUED																	
2292	1290	20.0				12-72	7	7	150					PRODUCED (R)	+INCL. PRIM. PROD. SINCE 1965		
	1980	25.0					4	4	80								
LAWRENCE W., LAWRENCE																	
2250	2040	10.0	17.2	36	35.0	12-59	01-66	8	9	297	8M	80,	PROD	(B)			
2235	2050	18.0				1-75		4	10	190				PRODUCED (B) ETHEL	+ESTIMATED		
LEXINGTON, WABASH																	
3658	2850	9.0	14.0	600	39.0	05-68		2	1	50	8M	30	(F)		+EST. 73-78; +8-79 1MHO 12-79 ONLY		
LILLYVILLE, CUMBERLAND, EFFINGHAM																	
704	2450	8.0			35.0	05-57		2	2	160				PROD (B)	+ADJUSTED BY OPERATOR		
LIVINGSTON, MADISON																	
2500	520	15.0			33.5	07-54	12-57	2	5	80	WENOIST,	A.V.	808	(B)			
2501	525	22.0	16.0		36.0	05-52	12-70	10	10	80	SALEM,	PROD	(B)				
2508	520	20.0			37.0	05-59	08-68	1	3	160	AUX	VASES	(B)		+NO DATA SINCE 1962		
LIVINGSTON 8, MADISON																	
2509	575	15.0				04-72		1	6	70				PRODUCED (B)	+ESTIMATED		
2507	545	35.0	22.8	1421	35.0	10-63		1	10	150	8M	30	(F)		+ESTIMATED		
2508	2700	5.0	11.0			6-71		2	9	90				PRODUCED (R)	+ESTIMATED		
LOCUST GROVE, WAYNE																	
4085	3180	10.0			39.8	08-66	1-77	1	2	20	CYPRESS	(B)			+ESTIMATED 1975-76		
LOUDEN, EFFINGHAM, PAYETTE																	
1252																	
						02-72									+INCL WITH EXXON TOTALS +EST		
1230	1446	25.0				08-60		5	6	80				PRODUCED (B)	** PUKCH FROM EXXON 2-72		
	1528	25.0								80							
	1930	40.0				11-56		2	4	80	TAR	SPR,	PROD	(B)			
1201	1584	20.0	17.4	126	34.0	09-56	01-63	1	1	20				PRODUCED (B)			
1202	1930	15.0			34.0	10-57		7	11	240	TAR	SPR,	PROD	(B)	+INCL PRIM PROD; +ESTIMATED		
1209	1450	27.0			38.0	09-54		1	3	40	TAR	SPR,	PROD	(B)	+EST. ; +INJ. SUBP. 1-1-69		
1213	1400	20.0	21.0	150	38.0	07-57		4	6	100	TAR	SPR,	PROD	(B)	+ESTIMATED		
1226	1480	30.0				09-68		2	9	140	TAR	SPR,	PROD	(B)	+ESTIMATED		
1203	1475	30.0				08-56		1	1	20				PURCHASED (B)	+ESTIMATED		
1207	1562	37.0	18.0	200		03-54		2	3	320				PRODUCED (B)	+EST. SINCE 1971; +INJ. SUBP. 1971		
1215	1590	30.0				05-57	01-79	4	6	80	TAR	SPR,	PROD	(B)	+INACTIVE SINCE 77		
1217	1480	25.0	19.4	93		03-56	01-79	3	3	60	TAR	SPR,	PROD	(B)			
1233	1400	30.0	19.0	95		11-62		4	2	40	TAR	SPR,	PROD	(B)	+ESTIMATED SINCE 1973		
1259	1490	25.0				01-66		1	6	80				PRODUCED (B)	+ESTIMATED; +INCL. PRIM. SINCE 66		
1204	1900	18.5	19.5	102	38.0	10-50		541	633	14700	TAR	SPR,	PROD	(B)	+INCL 1252		
	1580	11.6	18.3	85						7770							
	1620	15.4	19.1	109						5490							
	1660	14.1								541							
1216	1500	12.0	18.6	91	37.5	06-57		12	5	120	TAR	SPR,	PROD	(A)	+INCL PRIM PROD SINCE 6-57 +EST		
	1960	11.0						2	4	60							
	1610	27.5						3	2	50							
1206	1454	10.0	18.0	43	37.0	07-57		1	6	100				PRODUCED (B)			
1254	1960	7.0				8-75		1	3	70				PRODUCED (B)	+EST. ; +INCL PRIM PROD SINCE 1967		
1205	1922	20.0	19.0	90	3A.0	07-57		3	3	40	TAR	SPR,	PROD	(B)	+ESTIMATED SINCE 1970		
1225	1900	12.0	19.0		37.0	01-59		1	1	10				PRODUCED (B)	+ESTIMATED		
1235	1475	26.0	19.0		37.0	11-61		1	1	20				PURCHASED (B)	+ESTIMATED		
	1580	15.0	19.0					1	1	20							
1241	1490	68.0	20.0		38.0	11-58		1	9	140				PURCHASED (B)	+ESTIMATED		
1242	1550	19.0			35.0	08-63		2	2	40				PRODUCED (B)	+ESTIMATED SINCE 1970		
1248	1530	20.0	19.0		38.0	01-65		1	4	40	TAR	SPR,	PROD	(B)	+ESTIMATED		
1249	1550	30.0	19.0	150	38.0	06-60	12-69	1	3	40	TAR	SPR,	PROD	(B)			
1210	1904	30.0				08-57		4	4	40	TAR	SPR,	PROD	(B)	+INCL BOTH PAY8; +EST. SINCE 71		
	1540	29.0				07-57		2	2	40							
	1504	25.0				01-58		2	3	40	TAR	SPR,	PROD	(B)	+ESTIMATED SINCE 1971		
1232	1505	25.0			36.0	08-57		5	7	100	TAR	SPR,	PROD	(B)	+ESTIMATED		
1223	3100	18.0	14.4	41	29.0	09-43	12-66	7	42	2600				PRODUCED (B)	+CONVERTED TO GAS STORAGE RESERVOIR		
1208	1400	18.0				11-57	12-69	3	4	70	TAR	SPR,	PROD	(B)			
	1940	27.0						2	5	70							
1234	1958	11.0				05-62	12-69	1	1	10	TAR	SPR,	PROD	(B)			
1214	1995	28.0			36.0	08-55		2	4	80	TAR	SPR,	PROD	(B)	+ESTIMATED		
1247	1534	22.0				01-59		2	5	40	TAR	SPR,	PROD	(B)	+ESTIMATED		
1236	1550	15.0			39.0	09-53		4	8	60	TAR	SPR,	PROD	(B)	+ESTIMATED SINCE 1974		
	1580	12.0						4	7	60							
1237	1560	20.0			39.0	08-57		2	3	50	TAR	SPR,	PROD	(B)	+ESTIMATED SINCE 1974		
1224	1450	18.0	18.4	101	37.0	01-58		24	12	240	TAR	SPR,	PROD	(B)	+INCL PRIM PROD SINCE 1-58		
	1525	20.0						12	12	240							
	1550	40.0						12	12	240							
1227	1400	20.0	18.4	102	38.3	10-58		2	2	40	TAR	SPR,	PROD	(B)	+INCL PRIM PROD SINCE 10-58		
	1420	20.0						2	2	40							
1212	1530	30.0	20.0	200	36.0	12-55	12-68	46	48	416	TAR	SPR,	PROD	(B)	+INCL PRIM PROD SINCE 12-55		
1229	1600	25.0	18.5		37.0	05-60		14	20	632				PRODUCED (B)	+INCL PRIM SINCE 12-60; +EST		
1244	1475	22.0			35.5	08-64		5	9	118	TAR	SPRINGS	(B)		+ESTIMATED 1977 DATA		
	1555	22.5								118							
	1610	27.5								50							
1108	1550	8.0			36.7	01-63		4	6	200	TAR	SPR,	PROD	(B)	+INJ. DISC. 78; +ESTIMATED SINCE 75		
1200	1515	12.0			37.5	01-54		8	1	120				PRODUCED (B)	+EST. SINCE 75; +INJ. DISC. 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	(B)	+EST. SINCE 73; +INJ. DISC. 78		
1219	1550	18.4	20.4	164	37.5	03-55		5	5	350				PRODUCED (B)	+EST. SINCE 1975; +INJ. DISC. 78		
1220	1493	30.0			37.5	10-56		2	2	160				PRODUCED (B)	+INCL PRIM; +EST; +DISC INJ 1978		
1221	1536	40.0	19.0	250	37.2	09-56		2	2	40				PRODUCED (B)			
1231	1920	6.0			39.4	04-61	04-71	1	2	40	TAR	SPR,	PROD	(B)	+SINCE 1-65		

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBLs)			
FIELD, COUNTY	PROJECT	PAT NAME	LOCATION	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION	
PROJECT NO., OPERATOR	U S UNIT		B - T - R	TOTAL CUM.	TOTAL CUM.	TOTAL CUM.	
• P ABO				1979	12/79	1979	12/79
• P M ₁				1979	12/79	1979	12/79
LOUISVILLE N, CLAY							
• 373 MCKINNEY, FUNGERS	WOLF-PORTER	SPAR HTN	9,10-4N-6E	25		2	20
MCKINLEY, WASHINGTON							
• 4011 JET OIL CO.	FREIHAN-MUNLE7H	BENOI87	29-3B-6W	151		1	152
HAIN C, CRAWFORD, LAWRENCE, JASPER							
• 667 H. J. ADAMS	H.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		149	1214
• 688 RA7 BROWN	OBLONG	ROBINSON	9-7N-13W	150	1.2	106	150
• 599 CALIENTE OIL CO	GEORGE L. WALTERS	ROBINSON	2-6N-13W	1632		32	720
• 589 CLARENCE CATT	SPARKS WF NO. 1-M	BETHEL	13-6N-12W	258		11	119
• 598 CLARENCE CATT	HUDSON WF	BETHEL	6-5N-12W	10	822	0.4	29
• 616 CLARENCE CATT	MC CALL	ROBINSON	1-5N-13W	6		1	6
• 663 CLARENCE CATT	EAGLETON UNIT	SAMPLE	1-5N-13W	220	1748	11.0	90
• 646 CITATION OIL CO	CONOVER	ROBINSON	19-7N-12W	25	791	1.6	36
• 695 JACK COLE	MULLINS	ROBINSON	9-5N-12W	15		8	11
• 609 E. CONSTANTIN	J.S. KIRK	ROBINSON	29,30,31,32-7N-12W	977		57	
• 610 E. CONSTANTIN	SMITH	ROBINSON	7-7N-12W, 12-7N-13W	337		1	1
• 607 CREDIT ASSOCIATED	HITCHELL	ROBINSON	24,25-7N-13W	935		107	125
• 615 CREDIT ASSOCIATED	PORTERVILLE	ROBINSON	25,36-8N-13W	1345		44	
• 619 ENERGY REBOURCES	ALEXANDER-REYNOLDS	ROBINSON	19,20-7N-12W	8450		602	2095
• 644 ENERGY REBOURCES	CRAWFORD CO. FLOOD	PENN	6,7-5N-12W	40	1277	1.9	52
• 612 O. W. FRANCOY	BIROS	BETHEL	14,15,16,21,22-5N-11W	53049		1529	4250
• 617 R. M. FRT	WRIGHT FLOOD C	ROBINSON	23,26-6N-13W	8335		300	5640
• 693 R. M. FRT	SMILTS FLOOD C	ROBINSON	8-6N-13W	50	3644	2.5	89
• 631 HAROLD FURCANNON	BIROS AREA	ROBINSON	16,20,21,28,29-5N-11W	100	34195	15.6	1592
• 647 GALLAGHER DRILLING	OBLONG BENOI87	BETHEL	19,20,29,30-7N-13W	101	1171	6.5	386
• 614 GEN. OPERATIONS	LITTLEJOHN	ROBINSON	20-6N-12W	699		34	179
• 594 GETTY OIL CO	A.W. HANN	ROBINSON	5,6-5N-12W, 32-6N-12W	558	11917	6.6	493
• 596 GETTY OIL CO	B7IFLE-MCKNIGHT	ROBINSON	7,18-7N-13W	408	4212	6.2	246
• 597 GETTY OIL CO	ALLEN-AMES OEEP	BETHEL	29-7N-13W	588	5524	9.0	453
• 630 GETTY OIL CO	BIRCH 1	AUX VABES					
• 632 GETTY OIL CO	BARRICK-WALTERS	MCCL08K7	14-6N-13W	334	7910	5.5	509
• 633 GETTY OIL CO	GOOD-HAWS	ROBINSON	18,19-7N-12W,	1818	43348	29.2	1927
• 634 GETTY OIL CO	HOWARD	ROBINSON	13,24-7N-13W				
• 635 GETTY OIL CO	AMES	ROBINSON	16,17,21,22-6N-13W	130	9620	5.1	669
• 636 GETTY OIL CO	OENNIS-HARDIN	ROBINSON	11-7N-13W		5713		461
• 637 GETTY OIL CO	THOMPSON	ROBINSON	29-7N-13W	124	3577	6.4	343
• 641 GETTY OIL CO	B7IFLE-ORAKE	ROBINSON	27,34-6N-13W	344	14432	6.5	897
• 645 GETTY OIL CO	H ORAKE	ROBINSON	26,27-6N-13W	54	2901	2.7	279
• 648 GETTY OIL CO	C.M. STIFLE C	BETHEL	9,10,16-7N-13W	66	1882	1.0	22
• 649 GETTY OIL CO	J.G. MCKNIGHT C	AUX VABES					
• 668 GETTY OIL CO	HIGHSMITH	BETHEL	8-7N-13W	17	514	0.2	7
• 696 GETTY OIL CO	WALTERS-87AN7Z	AUX VABES					
• 621 ILL. L&E, OP. G. JACKSON	SIEMR-NEWLIN-MOUSER	ROBINSON	18-7N-13W	393	8212	6.8	301
• 618 KOONS & FRANK EXPL	STANFIELD	ROBINSON	20,21-6N-12W		938		164
• 590 PERRY LACKEY	CULVER WATERFLOOD	ROBINSON	14,15-7N-13W		288		58
• 591 D. R. LEAVELL	QUICK HRS HAR7LEROAD	ROBINSON	19-7N-13W		288		117
• 606 O. R. LEAVELL	BIOLE	ROBINSON	17-8N-12W		47		5
• 611 O. R. LEAVELL	GROGAN (FLOOD 26)	ROBINSON	5,6,7-7N-12W		4691		189
• 651 O. R. LEAVELL	OBLONG (FLOOD 25)	ROBINSON	29-7N-12W		368		50
• 669 O. R. LEAVELL	SCHUTTE-BIOLE	ROBINSON	25-6N-13W	140	1097	7.6	46
• 670 O. R. LEAVELL	OBLONG (FLOOD 27)	ROBINSON	4,5,9-7N-13W	10	6120	1.0	40
• 691 O. R. LEAVELL	B7IFLE	ROBINSON	5,8,9-7N-13W		9087		632
• 620 THE MACDONELL CO	OBLONG (FLOOD 29)	ROBINSON	32-8N-12W	60	220	6.5	27
• 671 THE MACDONELL CO	KIR7LAND U	ROBINSON	8-7N-13W	65	1726	2.6	198
• 672 THE MACDONELL CO	KIR7LAND-OEE	ROBINSON	8-7N-13W	3010	3010	52.0	54
• 623 HARATHON OIL CO.	17 PROJECTS	ROBINSON	17-7N-13W		190		67
• 650 HARATHON OIL CO.	FLOOD 99-X	ROBINSON	6,7-7N-13W/12-7N-14W	342	4410	20.2	319
• 698 HARATHON OIL CO.	THORNTON WF 21-M	BETHEL	5-6N-13W	126	7162	1.9	181
• 592 MT. CAHREL ORLG.	NEW HEBRON WATERFLOOD	AUX VABES					
• 624 PARTLOW, COCHNOR	STEWART-INBOEN	MCCL08K7	76,7,8N-12,13,14W	9049	470948	274.1	30387
• 662 PETROL. PROD. CO	RICH	ROBINSON	667N-113W	239	2223	12.4	111
• 608 PRUDENTIAL OIL	RHOODES	BETHEL	17,18,19,20,29-7N-13W	1190	2932	71.8	3131
• 625 REO HEAD OIL CO.	YOHILL-HUGHES	ROBINSON					
• 663 REE, INC.	OIM	ROBINSON	22-6N-12W		1562		113
• 626 E. C. REEVES	HEBERVE UNIT	BETHEL	36-6N-12W		133		5
• 605 M. P. ROBERTS	BILLINGALE7 COUP	ROBINSON	35,36-6N-12W		2716		67
• 622 CURTIS ROSS	BIHOP C	ROBINSON	29,32-8N-12W		443		
• 680 ROYALCO, INC.	QEE8-LEWIS-MALL-YOUNG	ROBINSON	27,28-6N-13W		6035		401
• 681 ROYALCO, INC.	OAK RIDGE	ROBINSON	25,26-6N-13W		4220		105
• 685 ROYALCO, INC.	OAK RIDGE U	ROBINSON	11-6N-13W		251		1
• 686 ROYALCO, INC.	CYPRESS	ROBINSON	34,35-7N-13W		2736		89
• 687 ROYALCO, INC.	QENNIS HEIRS U	ROBINSON	19,20-6N-12W		2204		35
• 689 ROYALCO, INC.	C.J. BEST	ROBINSON	4,9-6N-13W	250	3628	5.6	145
• 697 ROYALCO, INC.	B7EWART HEIRS	BETHEL	17-5N-12W		537		
• 627 SHAKESPEARE OIL	HULSE-ALLEN	ROBINSON	17-5N-12W		3213		108
• 628 SHAKESPEARE OIL	OEE8 C	ROBINSON	29,30-7N-13W		22916		1032
	MCINTOSH UNIT	ROBINSON	20,29-7N-13W		2366		109
	MONTGOMERY UNIT	ROBINSON	21-6N-13W		4090		289
		ROBINSON	12,13-7N-14W		397		75
		ROBINSON	28-6N-13W		1463		40
		ROBINSON	17,18,19,20-6N-12W		396		18
		ROBINSON	32,33-6N-12W		516		18
		ROBINSON	6-5N-12W				

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER			
FIELD, COUNTY										NO. OF		SOURCE		TYPE		REMARKS	
PROJ.	DEPTH	NET	POR	PERM (NO)	OIL GRAV	DATE P1RST	DATE ABD.	WELLS	ACRES	UNDER	BRIGRAVEL	BRIGRAVEL	(P) FRESH	(S) BRINE			
NO.	(PT)	PAY	(X)	(API)	INJ.	INJ.	PROD.	INJ.	PROD	PROD	(M) MIXED	(M) MIXED	(M) MIXED	(M) MIXED			
	(PT)	(PT)															
LOUISVILLE N, CLAY										11-70	05-72	1	2	30	CYPRESS (B)		
MCKINLEY, WASHINGTON										04-65	07-69	2	2	20	PRODUCED (B)		
MAIN C, CRAWFORD, LAWRENCE, JASPER										01-58	12-58	5	4	80	LAKE, PRODUCED (M)		
667	1000	22.0	18.5	98		05-54	01-64	67	53	930	PENN SAND (S)						
602	950	30.0	21.0	136	31.0	03-57	01-66	11	9	200	GRAV, PROD (M)						
603	930	25.0	21.0	125	30.8	10-54		4	2	40	PENN SD, PROD (B)		*INJ CEASED 5-1-69				
604	960	56.0	19.2	126	34.9	07-52		5	12	200	PRODUCED (B)		*ESTIMATED				
688	980	20.0	40.0	75	36.0	10-64	12-75	5	7	70	PENN SD, PROD (B)		*ESTIMATED				
599	930	20.0	18.1	141	32.7	02-64	01-70	1	1	20	PRODUCED (B)						
589	1350	7.0				04-64		2	1	20	SH SD (F)		*ESTIMATE SINCE 1973				
598	1320	10.0			35.0	05-66	01-70	1	3	40	PRODUCED (B)						
616	820	18.0			32.0	01-68		4	3	80	PRODUCED (B)		*ESTIMATED				
643	1257	19.0	17.6		33.0	06-70		5	6	40	PENN SD (B)		*ESTIMATED				
	1323	15.0	16.0			12-62	12-68	2	6	100	PENN SD (B)						
646	930	22.0	19.0	93		08-51	06-69	14	37	56	CITY WATER (F)		*NO DATA SINCE 1960				
695	925	10.0	20.0	100	33.4	03-54	01-70	6	5	50	SURFACE (P)						
609	900	20.0	17.0	170	34.0	06-53	01-65	13	19	78	PENN SD, PROD (B)		*NO DATA 1963-65				
610	900	25.0	18.0	70	34.0	04-54	01-70	5	19	50	LAKE (F)						
607	890	10.5	21.1	99	33.5	12-51		28	29	280	CYPRESS, PROD (B)		*NO DATA 1970-76				
615	890	20.0	17.0	47	32.6	06-68		1	4	50	PENN SD (B)		*ESTIMATE SINCE 1972				
619	940	22.0	22.0	167	34.0	06-51	11-71	95	104	1030	RIVER GRAV, PROD (M)						
644	1180	7.5	17.6	324	38.0	01-53		9	16	18	PENN, PROD (B)		*EST 1970-73/1974 COMB WITH 6650				
	1380	7.8	17.3	46	36.0	06-63		6	6	80	PENN, PROD (B)		*ESTIMATED SINCE 1970				
612	950	20.0	18.9	162	31.7	02-52		51	49	764	GRAV, PROD (M)		*ESTIMATED				
617	900	15.0	20.0	245	34.0	04-71		7	14	360	PRODUCED (B)		*ADJUSTED BY OPERATOR				
693	900	10.0	18.0	150	36.0	10-52	12-58	4	9	60	PENN SD, PROD (B)						
631	950	21.8	19.4	197	30.1	01-64		10	9	140	BASAL PENN, PROD (B)						
647	1250	8.0	16.5	20	38.0	04-61		8	9	92	PENN SD, PROD (B)						
614	850	24.0	20.0	50	37.5	01-70		23	5	170	PROD, FRESH (M)						
594	950	20.1	20.0	150	33.0	08-54		13	7	61	GRAV, PROD (M)						
	1320	9.0	16.0	40		03-54		35	40	407	PENN SD, PROD (B)						
596	950	17.3	20.0	100	34.0	09-57		4	6	174	PRODUCED (B)						
597	1332	10.0	14.2	30		02-52	11-71	10	19	79	PRODUCED (B)						
	1406	5.0	18.0	10		10-56		7	8	153	SH SD, PROD (M)						
	1434	4.0	19.6	10		08-50		17	10	93	PURCHASED (B)						
630	881	34.3	19.1	108	33.0	09-52		5	3	40	PURCHASED (M)						
632	950	30.9	20.0	152	35.0	06-52	11-71	19	19	278	PENN SD, PROD (B)						
	1404	6.0			36.8	10-71		6	1	80	SH SD, PROD (M)						
648	1403	14.0	14.0	13	34.0	01-72		2	1	80	PURCHASED (B)						
	1438	12.0	11.0	2						80							
649	1412	3.0	11.5	19	34.0	09-72		1	1	20	PURCHASED (B)		*NO INJ SINCE 9-78				
	1435	8.0	8.8	2						20							
668	920	21.2	20.0	80	35.0	04-59		11	5	140	PENN SD, PROD (B)						
696	950	17.1	19.0	200		06-63	11-71	4	10	67	PENN SD, PROD (B)						
621	896	36.0				07-63	01-73	2	5	180	PENN SD (B)		*NO DATA BEFORE 1967				
618	977	30.0	23.0	57	36.0	06-52	08-53	3	3	20	SH SD, PROD (M)						
613	950	17.0	19.5	108	36.8	02-61		13	20	126	POND, PROD (M)		*NO DATA SINCE 1971				
590	935	12.0	19.3	36	37.0	11-64		4	9	60	PRODUCED (B)		*INJ SUSPENDED				
591	1000	10.0	15.0	85	34.0	07-61		3	6	80	PRODUCED (B)		*ESTIMATED				
606	950	20.4	18.9	71	37.0	10-53		12	22	151	GRAV, PROD (M)		*ESTIMATED SINCE 1969				
611	950	23.2	18.3	69	37.0	08-56		23	29	174	GRAV, PROD (M)		*ESTIMATED SINCE 1969 + NO DATA				
651	995	18.0				04-76		5	12	120	PRODUCED (B)		*ESTIMATED				
669	950	15.3	17.8	33	37.0	01-58		8	8	87	GRAV, PROD (M)		*ESTIMATED SINCE 1969				
670	950	24.4	18.9	85	37.0	01-58	1-77	5	2	27	GRAV, PROD (M)		*EST. + NO DATA SINCE 1973				
691	950	15.0	18.6	106	37.0	01-63		1	5	22	GRAV, PROD (M)		*NO DATA SINCE 1973				
620	910	21.0	20.8	165	34.8	11-66		5	29	310	PRODUCED (B)						
671	800	40.0	20.1	143	34.9	01-58		9	7	30	PENN SD, PROD (B)						
672	913	40.0	20.8	158	36.8	01-58		23	61	330	PENN SD, PROD (B)						
623	920	20.0	19.5	125	34.0	05-48		284	444	6176	GRAV, PROD (M)		*WILKIN, HUGHES, BRUBAKER, MARGIS, REED, PAWLEY, ANNOLD, PRICE, WOOD YORK, KIRTLAND, SMILTS, BONO HAMILTON, M=2, CARLTON				
650	900	20.0	20.0	100		01-74		*	*	*	PRODUCED (B)		*INCL IN OTHER PROJ + INCL #608				
698	1340	10.0	15.0	30	38.0	07-63		49	47	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, PROD (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	SH SD, POND (M)						
608	900	20.0	20.0	100	32.0	06-51		6	9	130	SH SD, PROD (M)		*EST. 1951-73/COMB W/650 1974				
625	840	10.5	21.2	98		07-53	12-62	16	14	103	PENN SD, PROD (B)		*1960, 1961 ESTIMATED				
663	950	22.7	21.9	89		11-53	05-55	4	4	20	PENN SD (B)						
626	925	20.0	30.0	45		12-53	07-64	6	8	115	PENN SD (B)		*NO DATA FROM 1961 THRU 1964				
605	1000	22.4	22.1	156	35.7	11-53	02-60	26	7	70	SH PN, PROD (M)		*ESTIMATED				
622	875	15.0				01-68		14	16	300	SH SD, PRODUCED (M)		*ESTIMATED				
680	1590	8.0	14.0	15	35.7	10-61	05-69	1	5	420	SH WELL, PROD (M)		*INCL WITH 681				
681	1470	15.0	18.5	57	35.9	10-61	05-69	5	6	420	SH WELL, PROD (M)		*INCL 680				
683	950	20.0	19.0	120	37.2	12-59	05-69	71	84	380	SH WELL, PROD (M)						
686	950	20.0	15.0	12	37.2	11-61	05-69	7	11	80	SH WELL, PROD (M)		*ESTIMATED				
687	950	38.0	28.7	240	37.0	10-60	11-70	4	9	40	PRODUCED (B)						
689	936	50.0	18.5	74	36.8	12-61	03-69	3	5	180	PURCHASED (B)		*ESTIMATED				
697	930	12.0	17.0	64	37.2	09-61	05-69	7	9	160	SH WELL, PROD (M)						
627	925	12.0			32.6	07-54	01-59	4	8	39	PENN SD (B)						
628	975	28.8	22.6	150	28.3	05-54	05-58	6	6	52	PENN SAND (B)						

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		B - T - R	INJECTION	PRODUCTION	PRODUCTION	
* B ABO				TOTAL * CUM.	TOTAL * CUM.	TOTAL * CUM.	
* P.M.				1979 * 12/79	1979 * 12/79	1979 * 12/79	
MAIN C, CRAWFORD, LAWRENCE, JASPER							
CONTINUED							
* 661 BRILES OIL CORP.	CORRELL-GURLEY COOP	ROBINSON	10-7N-12W		1218	30	227
* 664 BRILES OIL CORP.	WALTER COHM COUP	ROBINSON	11-6N-13W, 36-7N-13W		26		29
* 665 BRILES OIL CORP.	HEGER COUP	ROBINSON	18,19-9N-11W 13,24-9N-12W		770	8	109
* 595 JAMES H. STONE	MC CANE	ROBINSON	28-7N-12W		55	1	12
* 629 JAMES H. STONE	CLARK-HULBE	ROBINSON	18-7N-13W		572	303	3981
* 639 JAMES H. STONE	LEFEVER-HUSGRAVE	978	13-7N-14W		3754	827	2274
* 638 TIDEWATER OIL CO	HENRY-KEHIRE	ROBINSON	10,15-7N-13W		4187	470	2401
* 640 TIDEWATER OIL CO	MONTGOMERY-SEITZINGER	ROBINSON	15,16-9N-11W		1548	67	817
* 642 TIDEWATER OIL CO	WALTER-STAHM COOP	ROBINSON	13,14-7N-13W		991	111	712
* 679 MAUBAU PET. CORP	HIGHSMITH COOP	ROBINSON	31-6N-12W		153		37
* 659 E. L. WHITHER	SANDERS	ROBINSON	26,34,35,36-6N-13W, 1,2,3-9N-13W	200*	7068	10.6	144
* 694 WICHITA INDUSTRIES	FLYNN	ROBINSON	26,35-8N-13W	250*	6021	12.1	578
* 692 GEORGE WICKHAM	PRICE, KEIYM, BARLOW	ROBINSON	8,17-7N-12W		1971	59	921
MAPLE GROVE C, EDWARDS, WAYNE							
* 1008 ASHLAND O AND R	BENNINGTON COOP	MCCLOSKY	7-1N-10E		572	166*	
* 4078 M AND M OIL CO	MY ERIE E	AUX VASES	22,23-11N-9E	21	129*	6.2	16
* 4063 TRIPLE B OIL CO	HUBBLE	AUX VASES	13-11N-9E	50*	715*	1.7	38
* 1025 L. URSABSKI	MAPLE GROVE	MCCLOSKY	9,10-11N-10E		1238	188*	1238
* 8127 WINMAR OIL CO.	W BENNINGTON	AUX VASES	13-11N-9E		171*	32**	213
MARINE, MADISON							
* 2904 KARCHMER PIPE	MARINE PILOT U	SILURIAN	8,9,17-4N-6W	300*	2754*	5.1	41
MARKHAM CITY, JEFFERSON							
* 2003 TIDEWATER OIL CO	NEWTON	STE GEN	1-38-4E				1
MARKHAM CITY W, JEFFERSON							
* 2004 GULF OIL CO	W MARKHAM CITY U	AUX VASES	3,4,9,10-38-4E		6404	429	4477
* 2020 M DOUBLE L	MARKHAM CITY WEST U	MCCLOSKY	34,35-28-4E, 2-38-4E		300	1	300
MARTINSVILLE, CLARK							
* 214 AMERICAN PUMP	FROEDERMAN AND CONNELLY	PENNSYLVIN	13-9N-14W		3778	121*	
* 218 J. S. 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	RENOISEY	9,10-6N-9E	9*	2553	2.0	9*
MATTOON, COLES							
* 515 ASHLAND O AND R	UEGLER BROS COOP	CYPRESS	3-12N-7E		459	22	174
* 507 N. A. BALORIOGE	JOELL	SPAR MTN	10-11N-7E	20*	666*	0.7	29
* 520 N. A. BALORIOGE	MATTOON COOP	SPAR MTN	10,11-11N-7E	20*	721*	0.2	75
* 504 OELL CARROLL	MATTOON	CYPRESS	23-12N-7E		189	20	88
* 506 UELL CARROLL	MATTOON	SPAR MTN	23-12N-7E		348	64	173
* 516 OELL CARROLL	CARLYLE S-A	SPAR MTN	11-11N-7E		47	25	28
* 523 COLLINS BROS.	LANDBMAN-MILL	CYPRESS	27-12N-7E	25*	875*	1.2	25*
* 503 WALTER DUNCAN	REUMAN-MACKE	SPAR MTN	23-12N-7E	50*	756*	2.2	80
* 511 WALTER DUNCAN	OMH	CYPRESS	2,3-11N-7E	100*	3495*	4.7	451
* 514 WALTER DUNCAN	ARTHUR-OLIVEN	SPAR MTN	2-12N-7E	50*	3385*	2.5	254
* 521 WALTER DUNCAN	COLEMAN UNIT	SPAR MTN	10-11N-7E	30*	974*	1.3	182
* 525 WALTER DUNCAN	PANNEE ROYALTY	SPAR MTN	23-12N-7E		700*		130**
* 524 GORDON OIL CO.	TYNEN	CYPRESS	35-12N-7E		2000*	180*	1900*
* 501 PHILLIPS PET. CO	TINSLEY	SPAR MTN	22-12N-7E		249	15	144
* 509 SCHAEPER OIL CO.	NORTH MATTOON UNIT	CYPRESS	10,11-12N-7E		1977	197*	457
* 500 SCHAEPER OIL CO.	MATTOON	CYPRESS	23,24,25,26,27,34,35, 36-12N-7E, 2,11-11N-7E		34574*	13.9	2128
* 512 SCHAEPER OIL CO.	SOUTH MATTOON UNIT	SPAR MTN	38-12N-7E, 3-11N-7E		11195*	7.7	1241
* 519 SCHAEPER OIL CO.	HERKIMER	SPAR MTN	11-12N-7E	100*	1124*	3.3*	98*
* 517 CARL WHITE	G. BRINING	AUX VASES	3-11N-7E	35*	642*	1.9	77
MATTOON N, COLES							
* 518 ELMER M NOVAK	N.W. MATTOON WF	SPAR MTN	22-13N-7E	30*	1670*	1.6	166
MAUNIE N C, WHITE							
* 4453 COY OIL CO	RAMMING	TAR SPRINGS	24-98-10E		220*	46**	220*
* 4307 OEYON CORP.	ACKERMAN-SOMLEBER-JBN	AUX VASES	35-98-10E		652*		65*
* 4328 OEYON CORP.	ACKERMAN	AUX VASES	23,26-98-10E		1365*		95*
* 4448 OEYON CORP.	ACKERMAN	SPAR MTN	25-98-10E		1120*		141
* 4452 NAPCO	ACKERMAN E	BETHEL	25-98-10E				144
* 4282 LOUIS PEBBINA	RISBYRE ISLAND UNIT	MCCLOSKY	25-98-10E				650
* 4356 REBOSTOCK OIL CO.	M B SOMLEBER	AUX VASES	26-98-10E	5*	1088*	0.3	146*
* 4220 RULED OIL CORP.	MAUNIE N U	MC CLOSKY	18,19-98-14W		225		338*
* 8272 G. SCHOONMAKER	MAUNIE W UNIT	AUX VASES	35-98-10E, 2-68-10E		2720*		184*
* 4388 TRI STAR PROD CO	MAUNIE WF U	PENNSYLVIN	24,25,36-98-10E	57	6554*	14.2	1649*
		BETHEL					57
		AUX VASES					3895*

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER				REMARKS
FIELD, COUNTY	PROJ.	DEPTH (FT)	NET PAY (K)	POR (%)	PERM (NO)	OIL GRAV (API)	DATE FIRST INJ.	DATE AWO.	NO. OF WELLS	ACRES	80-80 UNDR	80-80 GRAVEL	(F) FRESH	(B) BRINE	(M) MIXED	80-80 SHALLOW		
MAIN C, CHAMFORD, LAWRENCE, JASPER																		
CONTINUED																		
861	1035	20.0	22.2	100	33.0		07-51	09-55	18	17	180						PENN 80, PROD (B)	
864	985	12.5	20.1	93	36.0		12-51	01-53	5	6	40						PENN 80, PROD (B)	
865	900	20.0	17.0	37			11-52	07-56	9	11	90						CREEK, PROD (M)	
995	1128	30.0	19.0	200			03-65	06-66	1	4	5						PENN 80 (B)	
629	910	25.4	19.9	278	34.0		01-52	01-70	13	4	80						SH 80, PROD (M)	
639	910	24.4	20.0	250	34.0		02-54		14	14	119						ESTD DATA ON AMB INCE 1	
638	935	14.6	21.0	175	35.0		07-68	12-63	24	44	104						PENN 80, PROD (B)	
640	979	21.0	19.0	144	32.0		05-54	12-65	6	3	64						SH 80, PROD (M)	
642	987	15.9	20.0	100	35.0		11-54	07-65	7	2	56						PENN 80, PROD (B)	
679	890	20.0	21.5	50	32.0		09-51	04-59	13	23	130						PENN 80 (B)	
659	880	20.0	21.0	205	32.0		08-52		65	57	277						PENN 80, PROD (B)	
694	980	12.0	18.6	200	37.4		11-63		14	18	210						LAKE, PROD (M)	
692	1050	10.0			30.0		05-62	09-66	2	3	30						PENN 80, PROD (B)	
MAPLE SHOVE C, EDWARDS, WAYNE																		
1008	3100	5.0			38.0		09-52	06-61	4	11	300						PRODUCED (B)	
407A	3170	15.0					11-68		1	1	30						PENN 80 (B)	
4063	3150	12.0					09-71		2	8	110						PENN 80, PROD (B)	
1025	3270	8.0			36.0		07-61	01-74	5	5	280						CYPRESS, PROD (B)	
4127	3150	15.0	24.0	50	37.0		01-57	12-61	1	5							CYPRESS 80 (B)	
MARINE, MADISON																		
2504	1725	99.0			34.0		12-70		3	7	240						PROD & SUPPLY (M)	
MARKHAM CITY, JEFFERSON																		
2003	3080	6.0					08-55	12-56	1	1	40						CYPRESS (B)	
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)	
218	1346	40.0	16.0	11	30.0		10-52	12-53	2	6	40						SH 80 (F)	
219	1334	27.0					01-51	02-55	4	1	10						SH GRAV (F)	
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		3	3	100						TAR SPR, PROD (B)	
	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	80							
507	1980	19.0			35.0		04-66		2	2	50						PRODUCED (B)	
520	1960	10.0	12.0				04-66		3	6	80						SH 80 (F)	
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)	
	2000	6.0							1	2	30							
503	1770	10.0					06-59		1	1	20						PRODUCED (B)	
	1970	9.0							2	2	40							
511	1800	20.0					08-62		5	9	160						GRAVEL BED (F)	
	1920	12.0					09-68		1	3	40							
	1970	12.0					08-62		4	8	160							
514	1930	8.0					02-63		4	4	180						SH 80, PROD (M)	
521	1920	11.0					04-66		3	2	50						GRAV, PROD (M)	
525	1920	12.0					12-56	12-66	1	4	50						PURCHASED (F)	
524	1830	15.0					6-54	12-60	4	4	80						SEWAGE EFFLUENT	
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 80 (B)	
500	1750	13.0	16.0	84			05-52		20	25	450						PROD, SEWAGE EFF (M)	
	1950	12.0							20	28	400							
512	1800	14.6	20.0	54	39.0		03-62		13	18	300						GRAVEL BED (F)	
	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	190						PENN 80 (B)	
517	1920	10.0			37.0		11-64		1	3	40						PURCHASED (F)	
	1970	15.0							1	1	40							
MATTOON N, COLES																		
518	1900	6.0	14.7	167	38.9		03-64		5	8	160						SH 80, PROD (M)	
MAUNIE N C, WHITE																		
4453	2350	9.0					6-52	12-60	1	4	50						PRODUCED (B)	
	3000	6.0							1	3	40							
4307	2955	14.0			35.8		04-67	1-77	2	2	40						RIVER GR (F)	
4328	2940	20.0			36.0		06-67		2	3	50						GRAV, PROD (M)	
	3035	4.0					08-61		1	2	40							
4448	2830	11.0					6-61	07-78		2	20						PRODUCED (B)	
	2950	17.0								2	20							
	3030	6.0								2	20							
4452	2825	7.0					8-64	07-78		2	20						PROD. & PUR.	
	2945	10.0								2	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)	
	3050	8.0							3	3	80							
4220	2900	18.0					10-57	05-69	9	8	170						RIVER GRAVEL (F)	
4272	2950	13.0	15.4	37	38.0		10-58	10-66	12	12	310						GRAVEL BED (F)	
4384	1350	10.0			34.0		08-64		3	14	40						RIVER GRAVEL (F)	
	2800	15.0									920							
	2950	15.0									140							

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.	1979	12/79	1979	12/79
ASO				1979	12/79	1979	12/79	1979	12/79	1979
P.M.										
MAUNIE N C, WHITE CONTINUED										
4384 TRI STAR PROD CO		MCCLOSKY								
4405 WALKER OIL CO.	GRAY	BETHEL	25-58-10E	69		1				7
		AUX VASES								
MAUNIE S C, WHITE										
4213 ASBHER OIL CO	PALESTINE UNIT	BRIDGEPORT	13,24-68-10E	3200	37400	24.5	287		3200	26650
		PALESTINE			13535		1721			12150
		TAR SPRINGS								
		AUX VASES								
4230 MOBIL OIL CORP.	TAR 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 POOLSKY	ARNOLD UNIT	CYPRESS	7,18-68-11E		848	1.9	264		2	139
4265 REBSTOCK OIL CO.	SOUTH CLEAR POND	PALESTINE	12-68-10E		2097		141			428
		TAR SPRINGS								
MELROSE, CLARK										
227 SHAKESPEARE OIL	MELROSE U	ISABEL	13,24-9N-13W		192		4			2
MILETUS, MARION										
2632 FEAR AND DUNCAN	JONES #1	RENDIST	16-4N-4E	25	319	1.4	18		25	314
MILL SHOALS, HAMILTON, WAYNE, WHITE										
4410 COY OIL CO	BROWN ET AL	AUX VASES	29,31,32-38-8E	45	1162	1.5	132		45	1056
4059 CULLUM OIL CO.	FELIX	AUX VASES	12-38-7E/7-38-8E	60	620	4.8	51		60	620
1971 PAUL SNAEMLING	FYIE	AUX VASES	25-38-7E				37			
1505 BARRON KIDD	GARDNER	AUX VASES	24-38-7E				28			
4352 POOL OIL CO.	MCINTOSH U	AUX VASES	31-38-8E, 6-48-8E	45	5985	2.0	465		45	3954
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	35	1482	2.7	123		35	708
1569 TAHARACK PET.	DAUBY-NENBY SW	AUX VASES	36-38-7E	107	2026	4.0	198		92	1604
4279 TAHARACK PET.	DAUBY-NENBY NE U	AUX VASES	30,31-38-8E	126	3943	2.2	206		132	2156
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	25	3214	4.9	170		25	966
4337 TEXACO, INC.	A.J.POORMAN "A" NCT 1	AUX VASES	31,32-38-8E	68	2898	1.8	210		68	1402
1506 SAM TIPPS	B.R. GRAY, TRUSTEE	AUX VASES	1-48-7E		3211		349			1444
4442 SAM TIPPS	MCINTOSH	AUX VASES	30-38-8E				70			350
4363 M. WEINERT EST.	HILLSHOALS UNIT	AUX VASES	30-38-8E		6705		326			3089
4397 M. WEINERT EST.	WEST MILL SHOALS UNIT	AUX VASES	20,29,30-38-8E		3230		189			
MODE, SHELBY										
3802 CROSSROADS OIL	MODE FIELD	BENUIST	15,16,21,22-10N-4E	40	561	3.3	339		40	571
MONTROSE N, CUMBERLAND										
708 EGO OIL CO	MONTROSE WF	MCCLOSKY	34-9N-7E		103		11			9
MT CARMEL, WABASH										
3855 T. M. BANE ESTATE	HARRIS	SIEMEL	17-18-12W			12.3	151			
		CYPRESS								
3864 FRMERS PETH COOP	SHAW	CYPRESS	7-18-12W	44	791	0.8	110		6	237
3918 FRMERS PETR COOP	WABASH UNIT	MCCLOSKY	5-18-12W		425		89			165
3941 FIRST NATL PET	SHAW-COURTER	CYPRESS	7-18-12W		259		28			9
3946 FIRST NATL PET	SHAW-COURTER	SIEMEL	7-18-12W		364		69			148
3919 T. W. GEORGE EST.	NORTH MT CARMEL	CYPRESS	4,5-18-12W		350		29			
3958 T. W. GEORGE EST.	DUNKEL-JOHNSON	CYPRESS	32-1N-12W		400		22			
3884 M AND H OIL CO	C F CHAPMAN	TAR SPRINGS	7,18-18-12W		169		10			83
3854 HAYES-WOLFE BROS	COTNER	CYPRESS	21-18-12W			0.4	82			
3872 GILBERT A. HIGGINS	CROW-MILLER	CYPRESS	8-18-12W			0.3	99		5	140
3983 GILBERT A. HIGGINS	MT CARMEL N U	SIEMEL	4,9-18-12W	10	4270	0.7	370		10	1431
		CYPRESS								
3849 ILL. MID-CONT.	ZIMMERMAN UNIT	CYPRESS	10-18-12W	100	740	5.7	39		100	740
3887 JUNIPER PETROLEUM C	CLAY MOELLER	CYPRESS	5-18-12W		256		16			191
3890 JUNIPER PETROLEUM C	PALYHRA U	SIEMEL	5-18-12W	141	3590	4.0	219		81	1543
		TAR SPRINGS								
		CYPRESS								
3977 JUNIPER PETROLEUM C	W. MT CARMEL	CYPRESS	18,19-18-12W	90	2249	5.0	171		36	959
3923 LOEB & MITCHELL	CHAPMAN-COURTEN U	CYPRESS	7,18-18-12W	100	2209	6.0	339		100	1608
3882 ELMER H NOVAK	CAMPBELL HEINS	CYPRESS	7-18-12W	54	895	1.0	44		54	531
3921 M AND H NOVAK	MT CARMEL U	CYPRESS	17-18-12W		1763		129			
3862 WILLIAM PFEFFER	SAIRO-SCHULER	SIEMEL	20-18-12W		160		12			142
3922 SHELLE OIL CO.	MT CARMEL U	SIEMEL	17,18-18-12W	146	14397	13.8	1830		191	11688
		CYPRESS								
3924 SKILES OIL CORP.	W MT CARMEL	TAR SPRINGS	18,19-18-12W		895		138			513
3863 WAYNE SMITH, OP.	MT CARMEL UNIT	SIEMEL	21-18-12W	277	4419	7.9	312		103	2792
		CYPRESS								
3889 80. TRIANGLE CO.	NORTHEAST MT CARMEL U	SIEMEL	16,21-18-12W	330	4993	16.2	388		330	3125
		CYPRESS								
3975 80. TRIANGLE CO.	BAUMGART-HARE	SIEMEL	1-18-13W/6-18-12W	75	777	4.2	104		75	657
3897 SUPERIOR OIL CO.	R.V.Z. UNIT	SIEMEL INGB	8,9-18-12W		43	0.2	370		4	631
		TAR SPRINGS			421					
		CYPRESS		4	1936					
3917 TAHARACK PET.	G DUNKEL	SIEMEL	5-18-12W		252		28			42
3873 TEXACO, INC.	KUHN UNIT	BRIDGEPORT	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-BECKLER U	SIEMEL	8,9,16-18-12W	242	4091	11.0	475		242	2537
		TAR SPRINGS								
		CYPRESS								
3879 TEXACO, INC.	COUCH-NOLLER	SIEMEL	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			138
		CYPRESS			263					

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79			INJECTION WATER		
FIELD, COUNTY	NO.	DEPTH (FT)	NET PAY (F7)	POR (%)	PERM (MO)	OIL GRAV (API)	OATE FIRST INJ.	OATE 2ND INJ.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE TYPE	NO. OF WELLS	ACRES UNDER INJ.	SOURCE TYPE	REMARKS
MAUNIE N C, WHITE CONTINUED															
4384	3020	4.0								50					
4405	2830	10.0					06-65	01-67	1	2			30	PENN 80 (R)	
	2940	10.0							1	2			30		
MAUNIE S C, WHITE															
4213	1390	7.0						12-70	1	1			20	PRODUCED (R)	*ESTIMATED
	2010	13.5						02-53	39	23			630		*INC B*POKT, YAR SPR, AUX VABES
	2240	4.0						09-71	1	1			20		
	2850	9.0						09-71	1	1			20		
4230	2270	14.0	19.0	612	37.3		08-47	12-57	12	13			230	GRAY, PROD (M)	*INCL PRIM PROD, 8-47 TO 12-57
4239	2275	14.0				38.0	11-55	01-58	2	5			70	GRAY, PROD (M)	*INCL PRIM PROD
4268	2275	14.0	17.0	550	37.0		11-49	12-54	3	2			50	SH GRAVEL (F)	
4273	2290	4.7	15.5	44	36.2		02-64		2	6			194	PENN 80, PROD (B)	*INJECTION CUMYALEU 1973
4265	2200	8.0				35.0	06-57	12-67	2	4			60	PENN 80, PROD (B)	
	2200	10.0							6	8			150		
MELROSE, CLARK															
227	845	9.0	17.0	20	34.8		12-60	08-62	5	6			105	SH SAND (F)	
MILETUS, MARION															
2632	2150	8.0					10-66		1	1			20	PRODUCED (H)	*ESTIMATED
MILL SHOALS, HAMILTON, WAYNE, WHITE															
4410	3225	12.0	18.0	125	37.0		11-65		3	4			70	GRAVEL (F)	*ESTIMATE SINCE 1973
4059	3250	16.0					6-70		1	3			40	PRODUCED (R)	*EST, *INCL PRIM, SINCE 70
4571	3220	15.0					01-71	09-76		1			40		*ADJACENT TO ACTIVE WF *EST
4505	3243	11.0					09-56	12-62	1	2			30	HARJOINSBURG (B)	*UUMP FLOOD
4352	3220	21.0	20.0	195	39.0		08-62		10	13			373	GRAY, PROD (M)	*ESTIMATED SINCE 1976
4386	3220	18.5	18.5	75	39.0		08-64		3	6			188	CREEK, PROD (M)	*ESTIMATED SINCE 1976 *TEMP DISC
4133	3235	25.0				37.0	07-67		3	5			140	SH 80, PROD (M)	*ESTIMATED SINCE 1975
4569	3200	15.0					04-71		2	6			80	SH GRAVEL (F)	
4279	3200	15.0				38.0	10-69		2	2			130	SHALLOW SD (F)	
4411	3250	12.5	19.6	125	38.3		03-65	07-69	5	8			225	CREEK, PROD (M)	
4183	3212	16.0	22.0	130	37.0		08-64		2	3			60	GRAY, PROD (M)	
4337	3200	19.0	15.8	58	36.0		09-61		2	3			200	GRAY, PROD (M)	
4506	3245	11.0	21.0			37.0	05-52	12-65	10	4			170	GRAVEL BED (F)	*ESTIMATED 1961-65
4442	3210	18.0					6-58	12-77		5			60		*ESTIMATED *ADJ. TO ACTIVE WF
4363	3200	22.0	21.0			35.8	08-62	05-69	13	8			220	GRAY BED (F)	
4397	3240	19.0					09-65	1-77	7	8			276	SH 80 (F)	
MODE, SHELBY															
3802	1770	10.0	15.0			34.0	12-61		3	5			330	PRODUCED (b)	*INCL PRIM PROD *EST
MONTROSE N, CUMBERLAND															
708	2488	10.0				36.0	02-71		1	1			40	CVP SAND (b)	*INJ. SUSPENDED 1-75
MT CARMEL, WABASH															
3855	1480	9.0					07-70			2			30		*ADJACENT TO ACTIVE WF
	1980	6.0								1			30		
3864	2070	7.0					05-67		1	5			80	PENN 80 (R)	*ESTIMATED 1979
3918	2307	8.0					10-57	12-74	3	6			75	PRODUCED (H)	
3941	2050	12.0					04-53	12-57	1	4			50	SH 80 (F)	
3946	1375	16.0				40.2	02-50	12-59	1	2			30	PROD, FRESH (M)	
3919	2000	14.0				35.4	08-55	12-61	3	4			70	PENN 80 (B)	
3958	2000	12.0					10-57	02-62	4	5			100	SH 50 (F)	*ESTIMATED
3884	1766	10.0				33.0	05-64	04-67	1	1			10	PRODUCED (B)	
3854	1980	7.0					07-70			2			30		*ADJ TO ACTIVE WF
3872	2010	11.0					01-64			2			20		*ADJ. TO ACTIVE WF *EST
3983	1450	13.0	18.0	200	35.7		09-61		4	7			120	RIVER, PROD (M)	*ESTIMATED
	1950	7.2	16.0	34	37.4				7	7			243		
3849	1890	12.0					09-73		1	5			70	PRODUCED (B)	*ESTIMATED
3887	1995	15.0				35.0	11-63	01-74	1	1			20	SH 80, PROD (M)	*INJ SHUT DOWN 7-71
3890	1510	8.0				36.0	11-63		5	4			40	SH 80, PROD (M)	
	1670	10.0				37.4							50		
	2020	24.0				37.4							135		
3977	2046	10.0	17.0	83	35.0		09-61		3	3			80	SH 80 (F)	
3923	2050	19.0	16.5	159	37.0		01-55		3	3			75	PRODUCED (B)	*ESTIMATED
3882	2030	11.5	17.2	32	36.0		07-64		2	4			60	SH 80, PROD (M)	*ESTIMATED
3921	2140	13.0					07-54	12-61	6	15			234	SH 80, GRAY (F)	
3862	1475	10.0					07-67	01-74	2	3			60	PRODUCED (B)	*ESTIMATED
3922	1500	16.0	19.0	182	39.2		07-54		3	8			140	WABASH RIVER (F)	
	2075	12.5											570		
3924	1730	6.0					10-55	07-63	3	3			70	PRODUCED (B)	
3863	1450	16.0	17.0	100	39.0		12-67		10	10			200	GRAVEL BED (F)	
	2000	10.0	18.0	150					12	12			210		
3889	1475	7.0	18.0	185	32.4		07-70		9	12			220	RIVER GRAVEL (F)	*ESTIMATED
	1980	9.0	19.0	250	36.3				4	5			230		
3975	1660	14.0					11-69		1	4			50	PRODUCED (B)	*ESTIMATED SINCE 1973
3897	1548	8.0	18.8	338	36.0		07-77		1	1			20	RIVER GRAV (F)	*TEMP ABD 10-78, *INCL ALL PAYS
	1704	11.6	18.9	221	34.8		06-71		1	1			20		
	2010	11.0				37.0	06-63		1	1			80		
3917	1500	6.7	15.3	310	36.6		06-52	01-58	2	3			70	SH 50, GRAY (F)	*DATA FOR 1954 EST
3873	1350	10.0				35.0	07-64	10-68	2	1			30	GRAY, PROD (M)	*INCL BOTH PAYS
	1900	12.0							4	5			111		
3875	1710	12.0				32.4	04-64	05-69	1	2			40	SH 80, PROD (M)	*INCL BOTH PAYS
	2010	11.0	17.0	29			04-64		2	1			73		
3876	1490	14.0				35.0	03-64		3	6			110	SH 80, PROD (M)	
	1690	8.5	18.9	79									30		
	2000	7.8	17.0	82									180		
3879	1490	14.0				35.0	03-64	04-68	1	1			50	SH 80, PROD (M)	*INCL WITH 3880
3880	1990	12.0				35.0	03-64	04-68	1	1			50	SH 80, PROD (M)	*INCL 3879
3925	1710	12.0	18.9	221	32.8		03-64	08-67	3	1			116	SH 80, PROD (M)	
	2010	11.0	17.0	29	32.4				3	1			73		

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION		WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION			
PROJECT NO., OPERATOR	U = UNIT		S - T - R		TOTAL * CUM.	TOTAL * CUM.	TOTAL * CUM.			
* ABO					1979 * 12/79	1979 * 12/79	1979 * 12/79			
* P.M.										
NEW HARMONY C, EDWARDS, WABASH, WHITE										
4283 ASOMER OIL CO	CALVIN-MON UNIT	TAR SPRINGS	9-48-14W		10*	431*	0.6	441	10*	3105*
		CYPRESS								
		BETHEL								
		AUX VASES								
4313 ASOMER OIL CO	C. HUGHES	CYPRESS	17-48-14W		200*	7128*	10.8	540	200*	4564*
		BETHEL								
		AUX VASES								
4339 ASOMER OIL CO	BRAMLETT	BETHEL	17-48-14W		220*	1369*	12.6*	136*	220*	1481**
4398 ASOMER OIL CO	BRAMLETT	CYPRESS	17-48-14W		10*	2272*	0.2*	330	10*	1346*
		BETHEL								
		AUX VASES								
*3926 ASHLAND O AND R	N MAUD(WALLACE A, B)	BETHEL	5,6,7,8-28-13W			715		165		156
*3927 ASHLAND O AND R	RAVENSTEIN	BETHEL	32-18-13W			99		59		8
3857 JOHN L. AULVIN	BEILER	WALTERSBURG	26,27-18-13W		70*	1060*	3.3	68	70*	1047*
		HARINGSBURG								
		BETHEL								
3888 N. A. BALORIDGE	STERL U	BETHEL	16,17-18-13W		25*	666*	0.7	48	25*	477*
4293 BARGER ENG	FORO '8'	CYPRESS	21-48-14W		32	2392	7.3	313	32	1922
		BETHEL								
		AUX VASES								
3851 FRANCIS BEARD	SMITH, SLB, SHEAREN, HAR	TAR SPRINGS	32,33-1N-13W		400*	5210*	20.4	394*	400*	5210*
4274 FRANCIS BEARD	J. J. SONO	CYPRESS	8-48-14W		75*	3656*	3.8	521	75*	2853*
		BETHEL								
		AUX VASES								
4316 BELL BROTHERS	SKILES	CYPRESS	16-48-14W		66	2291	2.6	278	19	991
		BETHEL								
		AUX VASES								
3845 ALENE BLADES	W. RABER	BETHEL	18-28-13W		30*	160*	5.1	27	30*	160*
4426 C. E. BREHM	JOHNSON-STALLINGS-FURD	CYPRESS	5-58-14W		70*	463	11.0	132	70*	463*
3987 W. E. BRUBECK	EPLER	CYPRESS	5,6-38-13W		15	531	6.7	71	2	260
		BETHEL								
		AUX VASES								
*4219 CALSTAR PET.	FORO '8'	SPAR MTN				1113		104		
3891 R. G. CANTRELL	SCHROOT STATION B U	CYPRESS	21-48-14W		5**	1085*	0.4	73	5*	295*
*3980 DELL CARROLL	FRIENDSVILLE FIELD	CYPRESS	11-18-13W			345		80		136
3982 CENTRAL EXPLR CO	FRIENDSVILLE U	CYPRESS	2,11-18-13W			2158		328*		783*
4303 CONYERS OIL WELL	ALLEN GRAY 'M' C	AUX VASES	20-48-14W		30**	284**	2.2	96		
4312 CONYERS OIL WELL	FITTON 'A' UNIT	AUX VASES	29-48-14W		100*	1272*	5.8	142	100*	720*
3963 COY OIL CO	KERWIN U	BIENL	14,15,22-39-14W		50**	8348**	2.6*	1305*	50*	2957**
		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
3949 J. O. DEPUTY	RABER U	BIENL	19-28-13W/ 24-28-14W		*	1300**	0.8	88	*	900**
*3994 B. R. DUNCAN	DUNKEL	CYPRESS	11-18-13W			115		12		36
4227 FARRAR OIL CO.	BOHMAN'S BEND UNIT	TAR SPRINGS	16,21-38-14W			10295		2478		6691*
4280 FEAR AND DUNCAN	FORO UNIT	DEGUNIA	7,8-58-14W		100*	2203*	7.9*	885*	115**	2263**
		WALTERSBURG	8-58-14W		15*	451*		27		
		BETHEL	7,8-58-14W			27				
		AUX VASES	7,8-58-14W			2619				
3935 FISK & FISK	O G UPOEGRAFF 'A'	CYPRESS	14-39-14W		*	9730*		1750*	*	1577**
		BETHEL								
		HCCLOBKY								
3929 G R COMPANY	SMULTZ	CYPRESS	7-38-13W			2693		175**		1482**
3930 G R COMPANY	SMULTZ	CYPRESS	7-38-13W			816		*		*
3878 V. R. GALLAGHER	DUNN	CYPRESS	11-38-14W		60*	233*	6.2	36	60*	203*
4330 V. R. GALLAGHER	GREATHOUSE-WALY, UNIT	WALTERSBURG	32-48-14W			102		122		40
4392 GALLAGHER DRILLING	CALVIN WATERFLOOD C	AUX VASES	22-48-14W		20	827*	5.3	196*	11	118*
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	705	2.1	187	7	206
		BETHEL				352		16		32
3874 GETTY OIL CO	KEENSBURG U	BIENL	16,17,20-28-13W		1138	24495	37.4	1740	957	12150
		CLONE								
		CYPRESS								
		BETHEL								
4433 GETTY OIL CO	E. S. DENNIS 'A'	HCCLOBKY	33-48-14W		287	2435	6.0	67	131	611
4290 LYLE GILLIATT	M E GLAZE COOP	ST LOUIS								
		TAR SPRINGS	8,17-48-14W			443*	2.2*	642*	40**	2856**
		CYPRESS				366*				
		BETHEL				2352*				
		AUX VASES				1207*				
3884 M AND H OIL CO	J. R. SCHROOT	BIENL	20,29-28-13W		24	349*	2.4	41	7	332*
4242 M AND H OIL CO	O. R. EVANS	RIEHL	4,5-48-14W		55*	9589*	3.1	767	55*	556*
		CYPRESS								
		BETHEL								
		AUX VASES								
4354 M AND H OIL CO	WABASH RIVERBU U	HCCLOBKY			80**	3208**	4.0*	229*	80**	2146**
		CYPRESS								
		AUX VASES								
1022 HUMMON OIL CO.	BROSTER	BETHEL	34-28-14W		40*	1890**	2.6	256*	40*	1890**
*3955 INO. FARM SUR.	LANOIS-GOINS	CYPRESS	3-28-13W			62		11		108
3856 J&H OIL CO	SCHAUP	CYPRESS	30-28-13W		*	12.8		126	80*	750*
*3842 F. JAMES	WAOOLE	CYPRESS	32-18-13W			*		19**		*
		BETHEL								
3933 JUNIPER PETROLEUM C E MAUD		CYPRESS	32,33-18-13W/		146	7477	7.8	808	68	3998
		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 B OIL PROP. MGT INDIANA STATE-EVANS		CYPRESS	4-48-14W			222	2.8	65	9	434

RESERVOIR STATISTICS (AV. VALUE)		DEVELOPMENT AS OF 12-31-79				INJECTION WATER				
FIELD, COUNTY					NO. OF WELLS	ACRES	SOURCE	TYPE		
PROJ.	DEPTH	NET	POR	(MO)GRAV	FIRST	ADD.	UNDER	SH-SAND	(F)FRESH	
NO.	(FT)	PAY	(X)	(API)	INJ.	INJ.,PRD.	INJ.	PROD	(M)MIXED	REMARKS
	(FT)							SH-SHALLOW		
NEW HARMONY C, EDWARDS, WABASH, WHITE										
4283	2350	9.0			01-59					
	2550	6.0								
	2800	6.0								
	2900	14.0								
4313	2560	17.0		37.0	11-60					
	2700	20.0								
	2820	18.0								
4335	2670	25.0		38.3	11-61					
4398	2552	20.0		37.0	12-63					
	2662	20.0								
3926	2650	6.5	16.0	60	37.5	04-56	11-71	4	4	
3927	2650	7.0	7.0	16	38.4	05-57	12-66	1	2	
3857	1900	10.0			06-66			1	2	
	2100	22.0						2	2	
	2400	16.0						1	1	
3868	2570	12.0	18.9	87	39.0	12-69		3	7	
4293	2600	9.0			36.0	03-53		1	4	
	2700	9.0	13.0			03-53				
	2885	10.0	13.0	30		03-53				
3651	2000	20.0				12-60		3	13	
4274	2585	13.0	18.2	46	34.3	08-58		4	4	
	2705	17.0	16.0	20	36.1			5	6	
	2820	15.0	17.0	31	36.2			6	6	
4316	2550	15.0	17.5		38.9	08-61		2	2	
	2700	12.0	16.8					1	2	
	2850	18.0	19.0					4	4	
3845	2570	10.0				6-72		1*	2	
4426	2608	22.0			36.0	03-66		1	7	
3987	2470	10.0				09-70		1	3	
	2635	11.0								
	2742	9.0								
	2858	4.0								
4219	2695	12.0			37.5	03-53	04-60	1	3	
3891	2320	12.0			34.4	10-63		1	4	
3980	2290	10.0			36.0	02-61	10-66	6	6	
3982	2300	13.0	16.1	90	36.8	02-61	01-72	9	8	
4303	2844	7.0				04-60		1	1	
4312	2888	4.0	16.2	25	36.4	03-60		1	1	
3963	1800	12.0	21.0	200	33.0	10-59		6	4	
	2700	13.0	16.2	40				12	12	
	2800	8.0				10-59	12-64			
4338	2850	20.0	17.0	50		03-60	12-63	6	5	
4339	2720	5.0	15.0			03-60	12-63	2	2	
4368	2575	10.0	16.2	118	39.0	01-63	08-68	4	4	
	2790	9.0	14.3	50				2	2	
	2900	16.0	18.0	125				4	4	
4286	2680	10.0			33.0	09-59	09-70	2	1	
	2855	20.0			36.0	06-60	08-70	1	1	
3949	1740	15.0	20.6	39	37.0	10-56		1	4	
3994	2100	15.0			36.4	11-62	12-65	1	1	
4227	2260	19.5	17.9	120	37.5	12-53	12-78	2	19	
4280	1930	6.0	16.0	50	36.0	11-65		5	9	
	2244	8.0	18.0	47	36.0	08-66		2	3	
	2746	5.0	15.0	32	36.0	11-65		1	1	
	2872	12.7	18.1	43	37.8	02-59		4	6	
3935	2500	25.0	21.0	200	39.0	10-55		2	4	
	2640	7.0	17.7			06-66		2	2	
	2860	4.0				06-64		1	2	
3929	2600	20.0	18.0	50	38.0	07-51	12-62	2	5	
3930	2500	10.0	17.0	100	38.0	05-52	12-62	1	2	
3878	2490	25.0				02-75		1	6	
4330	2215	12.0	19.0	140		01-55	09-63	1	1	
4392	2630	20.0	11.7	7	36.5	03-63		2	1	
3907	2500	15.0	17.0	57	36.1	07-52	12-56	2	7	
3947	2400	12.0				01-55	12-57	1	3	
3976	1950	5.0	17.8		37.0	12-64		1	1	
	2410	10.0	17.0		39.0		08-68			
3874	1700	11.0	12.0	82	35.0	01-68		31	35	
	1775	8.0	12.0	56						
	2420	26.0	15.0	72						
	2550	10.0	12.0	15						
4433	2910	12.0	12.0			05-74		1	3	
	3080	26.0	18.0					1	2	
4290	2215	9.0			36.4	12-59	01-68	3	3	
	2570	11.0					01-68	6	6	
	2670	25.0						8	9	
	2825	12.0						8	9	
3844	1735	9.0			33.0	6-75		1	2	
4242	1500	17.7	14.7	26		10-57		10	4	
	1800	21.0				12-61		5	6	
	2660	23.0				12-61		6	5	
	2300	19.4				10-49		8	5	
	2400	21.2				10-49		4	2	
4354	1825	28.0	12.5	20		09-60		8	2	
	2530	35.0	19.0	100				1	2	
	2780	29.0	19.2	50				1	2	
1022	2740	12.0				6-64		2	9*	
3955	2340	7.0			36.0	03-57	01-60	1	2	
3856	2450	20.0				01-70			3	
3842	2450	10.0				6-84	12-61		2*	
	2570	11.0							2*	
3933	2400	8.0	18.5	75	37.0	04-52		6	10	
	2520	8.5	17.0	57						
3934	2620	12.0	17.2	57	36.0	10-50	01-74	20	26	
3956	2549	15.0			37.0	08-87	12-75	1	1	
4416	2698	30.0	18.0	150		07-67		1	1	

TABLE 11. Waterflood operations

GENERAL INFORMATION				PRODUCTION AND INJECTION STATISTICS (M BBL)						
FIELD, COUNTY	PROJECT U - UNIT	PAY NAME	LOCATION S - T - R	WATER INJECTION	OIL PRODUCTION	WATER PRODUCTION				
PROJECT NO., OPERATOR				TOTAL CUM.	TOTAL CUM.	TOTAL CUM.				
A B O				1979	12/79	1979				
P, H,				1979	12/79	1979				
NEW HARMONY C, EDWARDS, WABASH, WHITE										
CONTINUED										
3861 3886	DAVIS LAMBERT HERMAN LOEB	CLELLA ENALO N MAJO U	BETHEL CYPRESS OMARA	32-18-13W 13,24-18-14W	150*	2676*	7.7	34** 313	150*	2459*
4218 4294	HERMAN LOEB HERMAN LOEB	FORD GRAY 'C', 'M'	AUX VASES TAR SPRINGS CYPRESS BETHEL	20,21,22-48-14W 17,20,21-48-14W	5*	239*	0	465*	5*	4423*
4305	HERMAN LOEB	FORD 'A'	AUX VASES WALTERSBURG TAR SPRINGS CYPRESS BETHEL	16,21-48-14W	35*	6046*	1.3	441	35*	432*
4329	HERMAN LOEB	M. B. DONALO	AUX VASES BETHEL	21-48-14W	20*	1247*	1.2	313	20*	497*
3988 3965	LOEB & MITCHELL LUBOIL COMPANY	WALTERS HELM C	AUX VASES TAR SPR BIENL WALTERSBURG TAR SPRINGS CYPRESS BETHEL	23-18-13W 22,23,27-38-14W	150*	1010*	7.4	152	150*	1865*
3839 3866	M AND H OIL CO. M AND H OIL CO.	MARK COWLING U	AUX VASES TAR SPRINGS BIENL CYPRESS	33-1N-13W 19,20,29,30-28-13W	111	18077*	0.5 5.5	96 2287	10*	530*
3959 3961	M AND H OIL CO. M AND H OIL CO.	KEENSBURG U A E SCHULTZ 'A'	CYPRESS CYPRESS BETHEL	9-28-13W 8,17-28-13W	196	10646*	0.1	861*	196	6500*
3843	E. M. MORRIS EST	CENEY	CYPRESS BETHEL	32-18-13W	10	2107*	0.7	465*	10	2062*
3838	MUNVIN OIL CO.	KURTZ-JOACHIM	CYPRESS BETHEL	8,17-28-13W				62*		
4226	ELMER M NOVAK	CALVIN	CYPRESS BETHEL AUX VASES	5,8-43-14W	50*	2704*	6.4*	2956*	125**	5489**
3861 3837	D M AND F OIL CO OLOB OIL & CHEM.	KEENSBURG U COLLINS UNIT	BIENL BIENL CYPRESS	19-28-13W 20-28-13W	75*	790*	4.2	173*	75*	790*
4276	PAH-ARK	O. SMITH 1,4,11	CYPRESS BETHEL	4-48-14W	36	115	1.5	4*	9	37
4275	POOL OIL CO.	CALVIN CONSUD	AUX VASES TAR SPRINGS CYPRESS BETHEL	9,16-43-14W	70*	1352*	3.1	120	70*	762*
3974	PRUDENTIAL OIL	FRIENDS GROVE U	AUX VASES TAR SPRINGS CYPRESS BIENL JURQAN CYPRESS	9,16-43-14W 3-18-13W/34-1N-13W	10796			1720	7283	
3985	PRUDENTIAL OIL	POST-LEY UNIT	BIENL CYPRESS	3-18-13W	50*	3071*	1.3	217	50*	2033*
3967 4317	RK PET. CORP. REBSTOCK OIL CO.	COWLING U CROSSVILLE LEASE	CYPRESS CYPRESS BETHEL	23,25,26,35,36-28-14W 20-48-14W	25*	2225*	1.4	223	25*	2024*
4393	REBSTOCK OIL CO.	DALY 'A'	AUX VASES CYPRESS BETHEL	23,25,26,35,36-28-14W 20-48-14W	20*	2814*	1.5	61	20*	1315*
4401 4440	REBSTOCK OIL CO. REBSTOCK OIL CO.	NATIONAL BANK WF U LOHAS	AUX VASES TAR SPRINGS LOOD TAR SPRINGS	17-43-14W 20,29-48-14W 14-43-14W	260*	2795*	12.4	207	260*	2278*
4455	REBSTOCK OIL CO.	07-788	TAR SPRINGS AUX VASES	20-48-14W	4*	676*	0.2	180	4*	309*
3870 3893	HUBERT ROBE HUBERT ROBE	MAJO NW UNIT MAJO U	WALTERSBURG WALTERSBURG CYPRESS	27,34-18-13W 34,35-18-13W	0	2068*	0	209	0	1100*
3995 3962 3892 4030	HUBERT ROBE KOBBI OIL CO. ROYALCO, INC. ROYALCO, INC.	J. W. REISINGER 4 W SCHROOT STATION MID U REEVES UNIT C	CYPRESS CYPRESS CYPRESS AUX VASES HCCLOBY	4-28-13W 26-18-13W 34,35-18-13W 28-38-14W	60	1914*	3.2	387	60	1270*
3895 1009 3931	J. W. RUDY ORLG. SCHROEDER & SNYDER SCHROEDER & SNYDER	EPLER FLOOD J SCHROEDER SIEBERT BOTTOMS	WALTERSBURG BETHEL RETHEL	6-28-13W 22,27-28-14W 2,3,10-38-14W 34,35-28-14W	1356*	1489*	4.7	294*	90*	937*
3928 4216	SHAKESPEARE OIL JOE SIMPKINS OIL	BRINGS U MON-SUMP-CRAWFORD	BETHEL CYPRESS BETHEL AUX VASES	17,20,21,28,29-18-13W 32,33-38-14W,5-48-14W	90*	1489*	2.1*	91*	90*	1037*
4217 4320	JOE SIMPKINS OIL JOE SIMPKINS OIL	ARROW-NC BRIOE ETAL BOULTINGHOUSE	BETHEL HCCLOBY CYPRESS SAMPLE BETHEL AUX VASES	32,33-38-14W/5-48-14W 9,16,17-48-14W	30*	4922*		831*	30*	2197*
4016 3957 4222 4287	SKILES OIL CORP. SKILES OIL CORP. SKILES OIL CORP. SKILES OIL CORP.	SIEBERT BOTTOMS BROSTEN 'P' SMITH-OAVENPORT CALVIN-SRIFFIN	CYPRESS CYPRESS CYPRESS CYPRESS BETHEL AUX VASES	34-28-14W 33-28-14W 18-48-14W 8-48-14W	82	186	36	4	42	
3997 3840 3477 3896 3960 3885	BOHIO PETROLEUM SO, TRIANGLE CO. SO, TRIANGLE CO. SPARTAN O AND G SPARTAN O AND G STONE OIL CO	UPOEGRAFF 'A' TOWNSEND-WOLFE SOUTH FORDICE U R, HAABE ET AL BELMONT NORTH UNIT AKIN FLOOD	AUX VASES WALTERSBURG BETHEL OHARA SALEM CYPRESS	14-38-14W 14-18-13W 6,7,8-18-13W 14-18-13W 18-18-13W 7-38-13W	429*	230*	5.2	104	35*	187*
					35*	937*	14.3	103	200*	230*
					200*	12	1.5	2	12	937*
					12	12	2	2	12	12*
					50	186	7.4	48	50*	139*
					25	1076	2.6	72	25	453

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79										INJECTION WATER									
FIELD, COUNTY										NO. OF WELLS										SOURCE TYPE									
PROJ.	DEPTH	NET	POR	PERM	OIL	DATE	DATE	ACRES	80-80	(F)	FRESH	NO.	OF	WELLS	UNDER	GRAVEL	(B)	BRINE	NO.	OF	WELLS	PRODUCED	(M)	MIXED	REMARKS				
NO.	(FT)	(X)	(%)	(API)	INJ.	INJ.	PROD.	INJ.	SHALLOW																				

NEW HARMONY C, EDWARDS, WABASH, WHITE
CONTINUED

3841	2573	12.0				6-54	12-60		3	30															EST. ADJ. TO ACTIVE PROJS 54-60		
3486	2500	11.0	16.5	115	37.0	06-64			2	4	100															ESTIMATED	
	2850	9.0							1	4	80																
4218	2840	18.3	15.0	20	33.1	01-56			1	2	200															EST. NO DATA SINCE 1968	
4294	2220	10.0				05-60			3	2	50															ESTIMATED + OPERATOR	
	2580	11.0							7	5	120															REPOINTS LITTLE OIL FROM CYPRUS	
	2700	9.0							4	3	70															AND BETHEL	
	2840	18.0							9	9	180																
4305	2140	8.4	19.0		37.5	11-60			2	1	40															ESTIMATED	
	2200	9.3	15.5						1	2	40																
	2580	13.3	16.0	32					4	2	80																
	2700	14.7	16.0						1	2	30																
	2820	15.5	15.0	20					5	5	100																
4329	2695	9.0	15.0	15	37.0	09-61			2	4	60															EST. + NO INJ. 1978	
	2830	20.0	14.0	23	37.0				2	3	105																
3988	1945	12.0				08-68			1	5	60																ESTIMATED
3965	1800	15.0				06-59			3	17	40															EST. 1978 DATA + INCL ALL PAYS	
	2115	25.0	20.1	171		12-50	09-64				80															W/CLIM, THROUGH 1976	
	2150	20.0	17.1	44		04-61					80																
	2335	9.0				11-52					240																
	2640	14.0	17.1	44		12-51					255																
	2640	14.0	17.1	44		12-51					260																
3839	2020	8.0				7-62				2	40															EST. ADJ. TO ACTIVE W F SINCE 1960	
3866	1700	8.7	19.6	126	37.0	01-65			5	11	524															EST. 1973=1978	
	2460	11.1	19.2	59	37.0						401																
3959	2420	22.0	20.0	200		11-58			4	6	270															ESTIMATED 1968=77.	
3961	2424	12.0	19.3	268	38.0	03-59			3	5	100															EST. 1972=78	
	2540	20.0									100																
3843	2450	13.0				6-54	12-60			4	40															EST. ADJ. TO PROJS. 3934+3907=	
	2568	21.0								4	40															1954=1960	
3838	2440	15.0				6-64	8-72		2	5	80															EST. NO DATA RECEIVED	
	2580	20.0							2	5	80																+ ADJ TO 3961 1959=72
4226	2550	10.0				06-57			6	9	180															ESTIMATED + INCL ALL PAYS	
	2660	10.0				11-52			3	4	80																
	2800	15.0				11-52			8	4	160																
3861	1718	12.0			35.9	01-68			1	3	40															EST. + INCL PRIM PROD SINCE 1-68	
3837	1804	12.0				3-76			1	2	40															INCL PRIM PROD SINCE 1976	
	2474	10.0									40																
4276	2550	14.0				06-59			3	4	80																ESTIMATED
	2680	16.0							1	3	50																
	2807	24.0							1	2	40																
4275	2210	10.0	7.0	50		09-58	03-74		2	2	50																
	2575	6.5							4	4	80																
	2700	11.0							10	12	230																
	2810	18.0							10	11	210																
3974	1716	18.0				03-61			6	4	120																ESTIMATED SINCE 1972
	1761	16.0	18.0	61					1	1	20																
	2269	13.0							6	4	120																
3985	1710	8.0	15.0	75	32.0	03-61			3	2	70															ESTIMATED + DATA FOR 1973 ONLY	
	2310	14.0	16.0	50			12-64		3	2	60																
3967	2550	22.0	15.0	36	38.4	08-60	07-70		7	4	160																
4317	2578	19.0			36.0	04-61			1	1	20																ESTIMATED
	2672	19.0							1	1	20																
	2845	18.0							2	2	40																
4393	2580	10.0			36.0	07-63			1	1	20																ESTIMATED
	2680	13.0							1	2	40																
	2830	10.0							1	2	40																
4401	2330	8.0				04-64			3	5	90																ESTIMATED
4440	2200	20.0				01-68				4	40																EST. + ACCIDENTAL OR DUMP F
	2125	12.0								2	20																EST. + ACCIDENTAL OR DUMP FLUID
4455	2370					6-60	07-78			3	30															ADJ TO 4317+2424 SINCE 60	
	2966									1	10																
3870	1937	16.0	16.0	200		02-65			5	2	200															ESTIMATED + DATA N/A SINCE 1977	
3893	1937	8.0	16.0	320		11-63			3	3	70															ESTIMATED	
	2248	8.0	18.8	83					4	4	80																
3995	2413	9.0				06-62	12-76		1	1	10																ESTIMATED
3962	2303																										

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				1979	12/79	1979	12/79	1979	12/79
• = P.M.									
NEW HARMONY C, EDWARDS, WABASH, WHITE									
CONTINUED									
3885	STONE OIL CO		BETHEL						
			AUX VASES						
			MCCLOSKEY						
•4223	SUN OIL CO.	GREATHOUSE	MCCLOSKEY	33-48-14W, 4-58-14W	1088		129		227
•4269	SUN OIL CO.	FORD "A" WATERFLOOD	MCCLOSKEY	18-58-14W			58		1
•4235	SUPERIOR OIL CO.	KERN-MON UNIT	TAR SPRINGS	32,33-48-14W			1986		536
4236	SUPERIOR OIL CO.	NEW HARMONY FIELD U	AUX VASES	21,27,28,29,32,33,34-48-14W,3,4,5-58-14W	4	16681+			
4237	SUPERIOR OIL CO.	NEW HARMONY FIELD U	BETHEL	26,27,28,29,32,33,34-48-14W,3,4,5-58-14W	44	32428+			
4238	SUPERIOR OIL CO.	WALTERSBURG SAND UNIT	WALTERSBURG	4,5,9-58-14W	507+	20907+	12,2+	1637+	123+
4302	SUPERIOR OIL CO.	N.M.R. UNIT	TAR SPRINGS	9-58-14W	2	335	3,6	97	1
4311	SUPERIOR OIL CO.	NORTHEAST UNIT	WALTERSBURG	14,22,23,26,27,34-48-14W	521	851	184,0+	2754+	2099+
			TAR SPRINGS	14W	697	1351+			
			CYPRESS		1208	12006			
			BETHEL						
			AUX VASES						
			MCCLOSKEY		1228	9876			
4326	SUPERIOR OIL CO.	H. E. GIVEN	MCCLOSKEY	33,34-48-14W	187	216	24,6	34	111
4390	SUPERIOR OIL CO.	NEW HARMONY FIELD U	ST LOUIS		58	75			
			JAMESTOWN	27,28,29,32,33,34-48-14W,3,4,5-58-14W	63	1634	277,6+	15964+	4578+
			CYPRESS		5669+	67215+			
4391	SUPERIOR OIL CO.	NEW HARMONY FIELD U	WALTERSBURG	27,28,29,32,33,34-48-14W,3,4,5-58-14W	1283	12494			
4454	SUPERIOR OIL CO.	SOUTHWEST UNIT	TAR SPRINGS	14W,3,4,5-58-14W	339	4963			
			MCCLOSKEY	33-48-14W,3,4-58-14W	1680	1885	48,1	81	86
			ST LOUIS		286	348			
3948	A. K. SWANN	HEIL	CYPRESS	7,18-38-13W	86	3220	12,8	718	28
•4333	TEXACO, INC.	BRAMLETT	TAR SPRINGS	17-48-14W		163			
•4334	TEXACO, INC.	BRAMLETT	CYPRESS	17-48-14W		443			
•4371	TEXAS AMERICAN	FORD	AUX VASES	21-49-14W		229		131	44
3910	UNIVERSAL OPRING	PARMENTER	CYPRESS	5-29-13W	20+	319+	2,3	33	20+
3986	UNIVERSAL OPRING	BUMP	BETHEL						
			CYPRESS	4-28-13W	125+	2445+	15,2	322	125+
			BETHEL						
4341	WEST DRILLING CO	O. EVANS	MCCLOSKEY	4-48-14W	50+	1458+	2,7	156	50+
•1028	GEORGE WICKHAM	SCHROEDER	WALTERSBURG	26,27-28-14W		1942+		283+	528+
			CYPRESS						
•3981	CHARLES P. WOOD	G A STURMAN	SIEML	10-18-13W		398		76	119
			CYPRESS						
NEW HAVEN C, WHITE									
•4247	ATLANTIC RICHFLO	NEW HAVEN U	TAR SPRINGS	17,18,19,20-T8-11E		1844		696	73
			CYPRESS						
•4351	FRMERS PETR COOP	WABEM	TAR SPRINGS	24-78-10E		990+		22	155
•4388	FRMERS PETR COOP	DEAD RIVER UNIT	TAR SPRINGS	13,18-T8-10E		828		452	336
4289	JUNIPER PETROLEUM C	GREATHOUSE ISLAND U	TAR SPRINGS	7-78-11E, 7-T8-14W	17+	569+	1,0+	52+	180+
			CYPRESS						
4278	SUN OIL CO.	G.N. SOETTICHER	CYPRESS	19-78-11E	54	383	10,4	197	52
NEW MEMPHIS, CLINTON									
417	ELMER DELZE	NEW MEMPHIS SEC.REC.	DEV-81L	33,34-1N-5W,3,4-18-5W	500+	8465+	24,9	415	500+
OAKDALE, JEFFERSON									
•2029	FAIRWAY PETROLEUM	MORRELL-NOVAK	AUX VASES	11,14,15-28-4E		1295+		85+	1295+
•2014	TEXACO, INC.	GREEN-VANDERMEID	AUX VASES	12-28-4E		554		17	247
OAKDALE N, JEFFERSON									
2018	FRMERS PETR COOP	NORTH OAKDALE UNIT	MCCLOSKEY	3-28-4E	151	1646	3,6	347	151
OAK POINT, CLARK, JASPER									
• 223	M AND E DRLG, CO	B. PINNEY	AUX VASES	31-9N-14W		73		7	81
• 225	M AND E DRLG, CO	PINNEY-PING-HARD	AUX VASES	30,31,32-9N-14W	45+	4125+	2,3	207	45+
ODIN, MARION									
2600	ODAN OIL PROP.	ODIN UNIT	CYPRESS	1,12,13-2N-1E,16,7,18-2N-2E	189	8467+	0,3	1323+	30
OLD RIPLEY, BOND									
6	SAM PARKER	RIPLEY U	PENN	21,28-5N-4W	10+	1248+	0,3	95	10+
OLNEY C, JASPER, RICHLAND									
•3426	BELL BROTHERS	OUNDAS SOUTH UNIT	SPAR MTN	3,10-4N-10E		4020		226	3090
•3435	U T DRILLING	NORTH OLNEY U	SPAR MTN	28,38-4N-10E		330+		31+	81+
•3407	GULF OIL CO	EAST OUNDAS UNIT	MCCLOSKEY	25,26,35,36-5N-10E		953		152	207
•1903	ILL. L&E, OP.	SEBBIE	MCCLOSKEY	23-5N-10E		251+		44+	225+
•3414	J. W. RUDY DRLG.	STIFF	MCCLOSKEY	34-5N-10E		159		33	54
•1904	BOMIO PETROLEUM	OUNDAS EAST UNIT	OMARA	14-5N-10E		2003		142	1378
•3408	TEXACO, INC.	EAST OLNEY	MCCLOSKEY	23,24,25,26-4N-10E		3634		269	128+
3420	TEXACO, INC.	OLNEY WATER FLOOD	MCCLOSKEY	27-4N-10E	59	5027	3,1	639	59
•1914	TRI-STATE CABING	HILLER-EUNICE	MCCLOSKEY	23-5N-10E		1339		57	908
OLNEY S, RICHLAND									
•3422	M V RING	KURTZ-HARTZ	MCCLOSKEY	28-3N-10E		32			
OHAMA, GALLATIN									
1447	AMERICAN PUMP	OHAMA S PALESTINE U	PALESTINE	32-78-8E	134	847	8,5	69	14
1448	AMERICAN PUMP	OHAMA S UNIT	HARDINBURG	31,32-78-8E,7,5,6-88-8E	180	2530	13,9	125	96
			CYPRESS						
			OMARA						
			SPAR MTN						
1443	EXXON	OHAMA	PALESTINE	33-78-8E,4-88-8E	639	11214	57,1	822	588
			TAR SPRINGS						
			AUX VASES						
1437	T. W. GEORGE EST.	OHAMA S UNIT	AUX VASES	34-78-8E,3,4-88-8E	316	3984	9,3	728	48
• 1414	HUMBLE O AND R	OHAMA	PALESTINE	33-78-8E, 4-88-8E		5763		3119	4436
1439	JUNIPER PETROLEUM C	CANE CREEK U	AUX VASES	4-88-8E	11	1180	0,8	60	13
•1434	NAPCO	PHILLIPS FLOOD	CYPRESS	32-78-8E		40		7	2

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79			INJECTION WATER			REMARKS		
FIELD, COUNTY	PERM	OIL	DATE	DATE	NO. OF	SOURCE	TYPE											
PROJ. NO.	DEPTH (FT)	POR (%)	(MO)	GRAV (API)	FIRST INJ.	ABO.	ACRES UNDR.	20-80 SAND	GRAVEL	(F) FRESH	(B) BRINE	PROD	PROD	PROD				
NEW HARMONY C, EDWARDS, HAZARD, WHITE CONTINUED																		
3885	2640	18.0																
	2750	22.0																
	2830	10.0																
+4223	2900	5.0		36.9	02-47	02-57												
+4269	2900	7.0		36.0	05-48	07-52												
+4235	2250	13.3	17.3	85	37.4	02-54	01-70											
4236	2230	8.9	17.9	48	37.0	11-56												
4237	2710	12.4	15.4	32	37.0	11-56												
4232	2206	43.0	19.2	475	36.0	10-53												
4302	2207	10.0	18.0	46	37.0	02-66												
4311	2120	10.0	18.0	47	37.0	6-78												
	2193	8.0	16.0	40	36.0	02-66												
	2600	12.0	18.0	100	36.0	02-66												
	2741	10.0	18.0	37	36.0	12-66												
	2850	19.0	15.0	12	36.0	12-66												
	2886	7.0	14.0	295	36.0	10-66												
4326	2286	2.0	14.0	295	36.0	9-78												
	3086	20.0	6.0	10	39.2													
4390	707	9.0	20.1	199	33.0	07-70												
	2550	10.0	17.0	37	37.0	08-64												
4391	2120	10.0	18.0	47	37.0	08-64												
	2210	2.0	17.0	40	37.0	08-65												
4454	2886	7.0	14.0	295	36.0	5-78												
	3086	20.0	6.0	10	39.2													
3948	2450	15.0				11-55												
+4333	2296	16.0			38.3	11-61	01-68											
+4334	2670	25.0			38.3	11-61	12-68											
+4371	2230	25.0				02-63	12-67											
3910	2410	13.0			36.9	04-67												
	2530	7.0																
3986	2400	15.0				01-62												
	2540	10.0																
4341	3000	5.0				10-49												
+1028	2150	12.0				06-64	06-73											
	2640	12.0																
+3981	1780	10.0	16.3	25	33.0	03-61	08-62											
	2235	12.0																
NEW HAVEN C, WHITE																		
+4247	2090	7.0	17.5	50	39.0	07-54	05-68											
	2435	10.0																
+4351	2135	10.0	18.0	350	37.0	07-62	01-74											
+4388	2200	6.0	19.0	98	36.0	09-64	12-74											
4289	2148	24.0	18.0	42	37.0	01-66												
	2476	10.0	14.8	17														
4278	2435	12.0	15.0	45	36.0	08-59												
NEW MEMPHIS, CLINTON																		
417	1960	99.0				06-68												
OAKDALE, JEFFERSON																		
+2029	2900	20.0				01-64	01-74											
+2014	2870	15.0	20.2	120	36.5	08-61	12-64											
OAKDALE N, JEFFERSON																		
2018	2931	10.0				06-64												
OAK POINT, CLARK, JASPER																		
+223	1180	20.0			36.6	10-58	12-60											
225	1190	12.0	13.1	40	36.6	04-67												
ODIN, MARION																		
2600	1700	15.0	20.0	78	36.0	10-49	10-62											
OLO RIPLEY, BOND																		
6	600	20.0			36.0	09-57												
OLNEY C, JASPER, RICHLAND																		
+3426	2991	4.7	15.4	281	40.0	09-63	01-73											
+3435	2950	6.0				09-66	12-72											
+3407	2985	6.0	12.5		41.4	10-56	09-62											
+1903	2925	5.0	12.0			01-61	10-72											
+3414	2935	7.0			40.0	04-66	01-72											
+1904	2900	8.0			35.0	04-55	05-61											
+3408	3100	5.3	13.8	522	37.0	03-51	04-71											
3420	3000	13.0	13.8	500	37.0	11-46												
+1914	2940	14.0	16.8	775	40.0	05-54	12-66											
OLNEY 2, RICHLAND																		
+3422	3150	6.0				06-61	01-62											
OMAHA, GALLATIN																		
1447	1725	9.5	17.0	50	27.1	12-71												
1448	2175	12.0	14.0	10	35.0	03-71												
	2375	5.0	15.0	50	36.0													
	2725	4.0	13.0	40	37.5													
	2780	4.0	13.0	20	37.5													
1443	1700	17.0	18.9	427	31.0	02-69												
	1950	20.0	16.4	20														
	2650	10.0	9.2	5														
1437	2710	12.0	12.0		41.5	10-65												
+1414	1700	17.0	18.9	427	26.0	10-44	02-69											
1439	2672	30.0			37.6	11-65												
+1434	2760	20.0			37.0	05-65	11-66											

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.			
* A30					1979 * 12/79	1979 * 12/79	1979 * 12/79			
* P.M.										
OMAHA S, GALLATIN, SALINE #1432 DAVID ROTSTEIN	WOODLARD	CYPRE88	7-88-8E			164				
OMAHA W, SALINE 3623 ILL. MID-CONT.	OMAHA WEST	SAMPLE	36-78-7E; 1-88-7E; 6-88-8E		140*	2618*	10.3	166	140*	2213*
ORCHAROVILLE, WAYNE 4050 ALENE SLADES 4093 RAYMAC PETROLEUM CO.	LEE, SMELTON & ELLIS ORCHAROVILLE	OMARA AUX VASE8	28,32,33-1N-5E 29-1N-5E		50*	170*	6.7	24	50*	170*
ORIENT, FRANKLIN 1335 V. R. GALLAGHER	ORIENT	AUX VASE8	9-78-2E		40	510**	3.1	202**	23	156**
OSKALOOSA, CLAY 382 IVAN R. JONES	OSKALOOSA UNIT	AUX VASE8 MCCLOSKEY	26,27,34,35-4N-5E		15*	2045*	0.4	135	15*	777*
* 307 TEXACO, INC.	OSKALOOSA UNIT	BENOIST	26,27,34,35-4N-5E			158		1219		3393
PANA, CHRISTIAN 107 COLLINS BROS.	PANA	BENOIST	34,35-12N-1E, 3-11N-1E		60*	95*	12.5	20	60*	95*
PARKERSBURG C, EDWARDS, RICHLAND #3432 ACME CASING #3415 REVIS D. CALVERT #3424 CONTINENTAL OIL #3409 MARATHON OIL CO. #1017 V. T. DRLG. CO.	RIODLEY PARKERSBURG KOERTGE #8 PARKERSBURG U PARKERSBURG U	MCCLOSKEY MCCLOSKEY BETHEL MCCLOSKEY CYPRE88	30-2N-14W 18,21-2N-14W 30-2N-14W 8-3N-9E 6-1N-14W, 31-2N-14W			82 107 179 5134*		7 26*		44 43 25 1859*
PASSPORT, CLAY 354 R & R OIL CO 308 SHAKESPEARE OIL 327 SHAKESPEARE OIL	PASSPORT UNIT STANLEY-MINTERPHER PASSPORT U	MCCLOSKEY MCCLOSKEY MCCLOSKEY	2-4N-8E, 35-5N-8E 12-4N-8E 11,12,14-4N-8E		20**	1749*	1.0	212	20*	101*
					16	833	2.7	77*	16	436
					9	11503	1.5	568	9	7352
PASSPORT S, CLAY, RICHLAND #3417 CONTINENTAL OIL	PASSPORT SOUTH UNIT	CYPRE88	18-4N-9E			406		43		76
PATOKA, MARION, CLINTON 2639 FEAR AND DUNCAN 2614 GULF OIL CO	NW PATOKA W, PATOKA TRENTON U	BENOIST TRENTON	19,20-4N-1E 1-3N-1W 6-3N-1E, 31,32-4N-1E		175*	5575*	8.9	280*	175*	5575*
					179	9465	5.1	586	179	9465
#2601 KARCHMER PIPE #2602 KARCHMER PIPE #2603 KARCHMER PIPE	PATOKA BENOIST PATOKA ROSICLARE STEIN UNIT	BENOIST SPAR MTN CYPRE88	20,21,28,29-4N-1E 21,28,29-4N-1E 28-4N-1E			68093 6307*		6542		48046 6502*
					150*		8.1	1605	150*	228
PATOKA E, MARION 2638 HIGHLAND OIL CO #2629 MOBIL UTL CORP. 2616 FRED BEIP 2631 SMELL OIL CO.	THALMAN F M PEDDICORO MILL EAST PATOKA UNIT	CYPRE88 CYPRE88 CYPRE88 CYPRE88 BENOIST	35-4N-1E 34-4N-1E 26-4N-1E 34-4N-1E				13.3	252	80*	1360*
								7		9
						138		2		9
					700*	12461*	5.4	7	25*	365*
							19.3	613	450*	8658*
PATOKA S, MARION 2640 E. M. BELF 2627 JOE SIMPKINS OIL 2619 TRI STAR PROD CO	DELAY PATOKA SOUTH BENOIST-SANDSTONE U	CYPRE88 CYPRE88 BENOIST	9-3N-1E 4,5,8,9-3N-1E 5-3N-1E				2.3	1088	20*	1190*
					200*	12460*	10.2	1073	200*	6798*
					273	2185*	11.8	69*	213	2060*
PHILLIPSTOWN C, EDWARDS, WHITE 4395 ABBMER OIL CO 4323 N. A. SALONIDGE	GARFIELD-PARSON MICHAEL-GREEN-8TUHM	AUX VASE8 CYPRE88 BETHEL AUX VASE8	7-48-14W 30-38-14W 30-38-14W 6-58-11E		70*	2378*	4.3	316	70*	1385*
					10*	345*	0.5	15	10*	276*
4257 BARGER ENG	PHILLIPSTOWN U	AUX VASE8 DEGONIA TAR SPRINGS	6-58-11E		139	2259	4.8	188	102	2150
4288 BARGER ENG	CALVIN NORTH	OMARA	25,36-38-10E		85	170	3.8	6	10	20
4414 BARGER ENG	CLEVELAND	DEGONIA TAR SPRINGS PENN	36-48-10E, 1-58-10E, 31-48-11E 31-48-11E; 36-48-10E		190*	3724*	5.0	427	4*	3650*
4432 BARGER ENG	PHILLIPSTOWN	AUX VASE8 PENN CYPRE88	19,30-48-14W, 30-48-11E		18	1856	6.4	210		
4249 C. E. BREHM	PHILLIPSTOWN UNIT	CYPRE88 PENN	31-38-14W			3686		1215		2777
#4251 BRITISH-AMERICAN R. G. CANTHELL	N CALVIN UNIT PHILLIPSTOWN U	DEGONIA TAR SPRINGS	1-58-10E, 6-58-11E		100**	2558*	7.0	535	100*	1217*
#4344 CRY OIL CO #4319 DUNCAN L&E-ROY 4298 EASON OIL CO.	GREEN METCALF CLARK WATERFLOOD	BETHEL BETHEL CLARK DEGONIA BETHEL AUX VASE8	30-38-11E 31-38-14W 30-48-11E			61 650		11 30		8
					81*	4206*	5.0**	30**	90**	2146**
1029 FEAR AND DUNCAN 4243 FISK & FISK	JOHNSON COOP RAWLINSO 7	MCCLOSKEY DEGONIA CLORE CYPRE88 BETHEL AUX VASE8	18-38-11E 29-38-14W		60*	1438*	4.6	97	60*	706*
					70*	1109*	3.9	124	70*	1033*
4245 FISK & FISK 4343 FISK & FISK	MORRIS BEIPRIED WF	MCCLOSKEY CYPRE88 BETHEL	29-38-14W 30-38-11E			213*		25		113*
					60*	1875*	2.8	121	60*	962*
#4373 V. R. GALLAGHER 4387 V. R. GALLAGHER	CLEVELAND TAR SPRGS U KUYKENDALL	DEGONIA CLRK-BROOPTY SUCHANAN DEGONIA PENN DEGONIA	25-48-10E 25-48-10E		97	2816**	14.0	335**	65	1005**
4224 GETTY OIL CO	N PHILLIPSTOWN		18,19-48-11E		638	5903	33.8	4928	276	3055

in Illinois, 1979-continued

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79			INJECTION WATER			REMARKS
FIELD, COUNTY										NO. OF	SOURCE	TYPE				
PROJ.	DEPTH	NET	POR	(MO)	GRAV	FIRST	ASO.	UNDER	GRGRAVEL	(B)PRESH	(B)PRINE	(M)MIXED				
NO.	(FT)	PAY	(%)	(API)	INJ.	INJ.	PROD.	INJ.	PROD	SH	SHALLOW					
OMAHA S, GALLATIN, SALINE										1	1	20	TAR SPRINGS (R)			
1432	2541	19.0	12.9	24	27.0	10-60	12-63									
OMAHA W, SALINE										1	7	100	PRODUCED (b)		*ESTIMATED	
3623	2700	10.0				06-68										
ORCHAROVILLE, WAYNE										3	3	70	PRODUCED (B)		*ESTIMATED	
4050	2880	9.0				7-75										
4093	2835	10.0				06-65				SH 80, PROD (M)						
ORIENT, FRANKLIN										1	1	40	TAR SPRINGS, PROD (B)		*EST. 76-78+ADJ. BY OPERATOR	
1335	2670	15.0	16.9	75	38.9	10-66										
OSKALOOSA, CLAY										3	3	100	PENN 80, PROD (B)		*ESTIMATED SINCE 1972	
342	2641	10.0	13.0		37.0	12-63										
	2742	11.0			37.0											
307	2600	14.2	15.6	54	37.0	01-53	10-68	9	4	396	PENN 80, PROD (B)					
PANA, CHRISTIAN										1	2	40	PRODUCED (B)		*ESTIMATED	
107	1455	5.0				5-77										
PARKERSBURG C, EDWARDS, RICHLAND										1	3	80	PRODUCED (B)			
3432	3190	8.0				04-65	02-69									
3415	3060	10.0				01-55	01-56	2	7	160	PRODUCED (B)		*INCL PRIM PROD 1-55 TO 1-56			
3424	2960	15.0				09-59	07-64	1	1	20	PRODUCED (B)					
3409	3130	8.0	18.0	800		03-55	12-64	5	5	200	CYPRESS, PROD (B)		*INCL 3416			
1017	2770	14.8	16.8	120	37.2	02-59	12-68	3	8	256	PENN 80, PROD (B)		*ESTIMATED 1965-68			
PASSPORT, CLAY										3	2	160	PENN 80, PROD (B)		*ESTIMATED + SHU ONLY	
354	3025	10.0	15.0	35	38.0	06-65										
308	3000	9.0			37.0	09-57		1	2	40	PRODUCED (b)		*INCL PRIM PROD SINCE 9-57			
327	3000	10.0	16.9	911	38.2	07-58		1	2	305	CYPRESS, PROD (B)					
PASSPORT S, CLAY, RICHLAND										2	2	100	PENN 80, PROD (B)			
3417	2700	8.0	15.0	60		07-59	06-64									
PATOKA, MARION, CLINTON										2	13	160	PRODUCED (B)		*EST +INCL PRIM PROD	
2639	1445	10.0				01-66										
2614	3930	17.0	8.0	3	43.0	06-61		4	8	520	PENN 80, PROD (B)					
2601	1410	27.0	19.0	110	39.0	09-43	12-70	40	47	527	PRODUCED (B)					
2602	1550	9.0	18.8	223	40.0	07-48		21	12	445	PRODUCED (B)		*ESTIMATED SINCE 1971			
2603	1280	10.0	21.0	32	39.0	08-51	12-70	6	2	61	PRODUCED (b)					
PATOKA E, MARION										2	10	100	TAR SPR, PROD (R)		*ADJACENT TO ACTIVE W.F. +EST	
2638	1340	15.0				06-65										
2629	1370	19.0	19.2	62	38.6	06-66	01-68	2	1	30	TAR SPR, PROD (R)					
2616	1360	14.0				2-65				40	+EST. +ADJ. TO 2631 SINCE 65					
2631	1350	18.0	20.0	139	36.0	06-65		7	14	150	TAR SPR, PROD (B)		*EST. SINCE JULY 1978			
	1465	11.0	18.0	120				2	4	60						
PATOKA S, MARION										29	29	580	TAR SPR, PROD (B)		*ADJ. ACT. W.F. +EST +INC PRIM 64-77	
2640	1350	7.0				10-64										
2627	1360	15.1				08-64		7	15	200	TAR SPR, PROD (B)		*ESTIMATED			
2619	1456	14.0			36.5	02-64					TAR SPR, PROD (B)		*ADJUSTED BY OPERATOR			
PHILLIPSTOWN C, EDWARDS, WHITE										1	3	222	PENN 80, PROD (B)		*ESTIMATED SINCE 1971	
4395	2885	15.0			38.5	04-61										
4323	2700	10.0				06-68		1	2	30	PENN 80, PROD (B)		*ESTIMATED SINCE 1971			
	2825	6.0						1	2	30						
	2920	10.0						1	3	40						
4257	1928	16.0			36.0	12-69		3	2	40	PRODUCED (B)					
	2300	7.0				02-56				80						
4288	2690	12.0	16.0	50	36.5	3-78		3	4	130	SH 80, PROD (M)					
	3050	8.0	14.0	220	38.6											
4414	1935	15.0				11-67		4	4	90	PRODUCED (B)		*ESTIMATED SINCE 1979			
	2385	7.0				05-65		2	4	380						
4432	1350	20.0	20.0	200	36.0	11-73		15	36	150	RIVER GRAVEL (F)					
	2300	20.0	18.0	20						250						
	2850	10.0								100						
4249	1950	10.0	15.0	36	36.0	06-65		2	9	90	PENN 80, PROD (B)					
	2730	10.0						2	4	60						
4251	1550	29.0	17.6	86	32.0	06-51	11-63	9	9	180	TAR SPR, PROD (B)					
4349	1970	10.0	18.3	35	37.7	09-62		6	10	200	RIVER, PROD (M)		*ESTIMATED + SHU 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	GRAY, PROD (M)					
4319	1824	12.0			32.8	12-64	06-71	2	4	40	TAR SPR, PROD (B)					
4298	1350	15.0	22.2	275		04-70		2	7	80	SH 80, PROD (M)		*CLARK, DEG +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 80, PROD (B)		*ESTIMATED SINCE 1971			
4243	1997	3.0				01-66		1	1	80	PRODUCED (b)		*ESTIMATED SINCE 1972			
	2050	6.0						1	1	50						
	2700	14.0						1	5	60						
	2803	8.0						2	3	80						
	2910	11.0						1	3	50						
	3000	12.0						1	2	60						
4245	2700	10.0				07-67		1	3	30	PURCHASED (M)		*NO DATA AVAILABLE 1979			
4343	1842	14.0	16.2	88	32.0	06-62		2	2	50	PENN 80, PROD (B)		*ESTIMATED SINCE 1972			
	2820	11.0	14.2	10				3	4	150						
4373	2310	9.0	18.3	68	33.9	10-63	10-72	3	2	110	PENN 80, PROD (B)		*INCL PRIM PROD SINCE 10-63			
4367	1300	15.0				01-71		2	3	20	PENN 80, PROD (B)		*EST. 76-78, +ADJ BY OPERATOR.			
	1490	15.0				07-64				40						
	1970	16.0				01-67				40						
4224	1400	10.0				01-70		11	13	40	PENN SAND, PROD (B)					
	1990	16.0				12-67				191						

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				1979	12/79	1979
A B O							1979	12/79	1979
P, H,							12/79	1979	12/79

PHILLIPSTOWN C, EDWARDS, WHITE

4224	GETTY OIL CO		CLORE						
4370	GETTY OIL CO	OENNIS "B" OEEP	BETHEL	18-48-11E			127		1
			AUX VASES						
			MCCLOSKEY						
4458	JUNIPER PETROLEUM C CLEVELAND		TAR SPRNGS	36-48-10E			9	9	17.1
4284	K W B OIL PROP, MONTARNOLD		PENN	6-48-14W			448	4412	36.8
			WALTERSBURG						1024
			AUX VASES						401
									3054
4277	KIRBY PETROLEUM	W.P.B.S. UNIT	BETHEL	26,35-48-10E			1791		160
4250	MOBIL OIL CORP.	GRAYVILLE U	CYPRESS	20,29-38-14W			787		144
4252	MOBIL OIL CORP.	N CALVIN	SIEM	30,31-38-11E			1156		426
4369	E. M. MORRIS EST	MORRIS A, B	CYPRESS	19,30-38-11E			109		3
4342	ELMER H NOVAK	N CALVIN SIEM U	SIEM	31-38-14W			20	864	1.2
4417	PAUL ORTMAN	CECIL & GILLISON	SIEM	31-38-14W			10	147	0.5
4421	LOUIS PESSINA	PHILLIPSTOWN FLOWO	SIEM	19,30-38-14W			300	3846	10.0
4215	PHILLIPS PET. CO	KERN U	TAR SPRNGS	35,36-48-10E,			44	1570	6.2
			AUX VASES	1,2-59-10E					
4254	PHILLIPS PET. CO	LAURA	BETHEL	18-48-11E				197	16
4255	PHILLIPS PET. CO	PHILLIPSTOWN UNIT	PENN	30-43-11E/31-48-14W				2188	10.9
			BETHEL						429
			AUX VASES						1
									523
4232	SKILES OIL CORP.	L.O. CLEVELAND	TAR SPRNGS	36-48-10E				48	
4225	SUN OIL CO.	CAHR-RENSHAW	CLONE	18-48-14W			73	73	36.3
			AUX VASES						249
			MCCLOSKEY						60
									383
4256	SUN OIL CO.	PHILLIPSTOWN U	CLONE	6-58-11E				234	
4270	SUN OIL CO.	PHILLIPSTOWN	TAR SPRNGS	6-58-11E				58	
4315	TEXACO, INC.	PHILLIPSTOWN COOP	BETHEL	18-48-14W				909	17
			AUX VASES						
			MCCLOSKEY						
4253	WEST DRILLING CO	FLORA UNIT	DEGUNIA	24-48-10E				1471	124
4306	WEST DRILLING CO	LAURA JOHNSON	DEGUNIA	19-48-11E			70	456	6.9
			AUX VASES					35	84
			OHARA					40	145
									1009
									992

PHILLIPSTOWN S, WHITE

4357	REBSTOCK OIL CO.	GIVEN-BROWN	TAR SPRNGS	11-58-10E				615	
									146
									204
2617	TEXACO, INC.	NOBICLAPE-MCCLOSKEY U	SPAR MTN	3-1N-1E				1644	187
2626	TEXACO, INC.	RACCOON LAKE UNIT	MCCLOSKEY						
			CYPRESS	3-1N-1E			348	4238	6.8
			BENOIST					509	92
									365
									5443
3615	WALTER DUNCAN	SPURLOCK	CYPRESS	2-88-6E				167	53
3617	FARRAR OIL CO.	RALEIGH UNIT	CYPRESS	35-78-6E, 2-88-6E			70	5111	3.6
3605	KENANEE OIL CO.	RALEIGH U	AUX VASES	10,15,16-88-6E				1874	282
									70
									795
									964

RALEIGH S, SALINE

3627	BUFAY OIL CO	HARRISBURG NORTH U	WALTERSBURG	27-88-6E				204	0.1
3618	HERMAN GRAHAM	S. RALEIGH U	AUX VASES	20-88-6E			165	3016	10.0
3604	ILL. MID-CONT.	RALEIGH UNIT	AUX VASES	20-88-6E				1246	64
3616	RK PET. CORP.	LEITCH ETAL	AUX VASES	20,21,28,29-88-6E			20	1325	0.7
RAYMOND E. MONTGOMERY									116
2900	OARE PETROLEUM	FOSTER-POGGENPOHL	PENN	15,22-1UN-4W				38	6
									15

RESERVOIR, JEFFERSON

2030	FRHERS PETR COOP	WHITSON	MCCLOSKEY	21-18-7E			10	405	0.5
2031	SURRELL G. MINOR	JOHNSN,MULVNY-8LEGE	MCCLOSKEY	28,33-18-3E			20	535	4.0
									65
									10
									405
									535

RICHVIEW, WASHINGTON

4016	NICK BABARE	CANTRELL-MARTOCCIO	CYPRESS	2-28-1W			25	434	2.0
4015	N. A. SALORIOGE	RICHVIEW	CYPRESS	2-28-1W			190	3203	17.8
4012	C. T. EVANS	RICHVIEW UNIT	CYPRESS	2-28-1W			613	4334	6.4
4017	E. M. BELF	SKIBINSKI	CYPRESS	10-28-14W			10	426	0.4
4014	GEORGE THOMPSON	THOMPSON	CYPRESS	35-18-1W/2-28-1W			75	5299	6.2
									337
									75
									3114

RITTER N, RICHLAND

3430	ZANETIS OIL PROP	BE OLNEY U	SPAR MTN	18-3N-1E				92	5
									5
									5

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	456
3972	ASHLAND O AND R	ROCHESTER COOP	WALTERSBURG						
3968	YINBLING OIL, INC	KENNARD	PENN	14-28-13W			205	8629	0.9
			PENN	14-28-13W				11592	783
			WALTERSBURG						

ROLAND C, GALLATIN, WHITE

4314	ASHMER OIL CO	NORRIS CITY	HARDINSBURG	11,14-68-8E			8	628	0.2
4435	N. A. SALORIOGE	PORTER	WALTERSBURG	12-78-8E				522	39
			CYPRESS						
			AUX VASES						
4413	WM. BECKER	CRUIZER-BILLIMAN	HARDINSBURG	36-58-8E			25	408	2.4
4324	ENERGY RESOURCES	N ROLAND U	AUX VASES	35-68-8E/2-78-8E			12	192	0.7
4350	ENERGY RESOURCES	S ROLAND U	CYPRESS	10,11-78-8E				991	67
			AUX VASES						

ROLAND S, W.

4258	EXXON	S. W. ROLAND	AUX VASES	16,21,22-78-8E				1583	198
4266	EXXON	ROLAND AREA U I	WALTERSBURG	14,15,16-78-8E			1029	38544	32.9
			AUX VASES						2024
			CYPRESS	2,11-78-8E			424	9903	40.0
			BETHEL						1540
			AUX VASES						784
									9052

RESERVOIR STATISTICS (AV. VALUE)				DEVELOPMENT AS OF 12-31-79				INJECTION WATER				REMARKS
FIELD, COUNTY	PROJ. NO.	DEPTH (FT)	NET PAY (FT)	PERM (MO)	OIL GRAV (API)	DATE FIRST INJ.	DATE ASO.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE	

ROLAND C, GALLATIN, WHITE
CONTINUED

4436	2870	18,0				06-73		1	3	40	PRODUCED (B)	*ESTIMATED
4396	2332	10,0	23,9	77		02-62		1	2	80	PRODUCED (B)	*ESTIMATED SINCE 1970
*4361	2200	19,0	18,0		31,0	06-62	01-68	4	4	80	FENN 80, PROD (B)	*ESTIMATED
*4262	2620	20,0	14,0	16		10-56	12-58	2	2	40	TAR SPR, PROD (B)	*ESTIMATED, O.F.
*4259	2530	11,6	18,8	256	35,8	07-54	12-66	7	10	170	PRODUCED (B)	
*4378	1991	12,0			38,0	08-67		2	1	20	PALESTINE, PROD (B)	*ESTIMATED
*4347	2685	5,0				07-66	10-68	2	2	40	FENN SAND (F)	
	2800	30,0						4	4	80		
*1446	2750	18,0	14,0	35	38,0	01-70	06-74	8	11	200	FENN 80 (B)	*ESTIMATED
4419	2590	8,0				04-69		2	3	50	PRODUCED (B)	*ESTIMATED
	2750	8,0						2	3	50		
	2860	15,0						6	16	260		
*4407	2740	14,0			37,0	04-65	01-72	3	2	60	PRODUCED (B)	
4403	2600	10,0	15,2	38		01-67		7	10	230	TAR SPRINGS (B)	*ESTIMATED SINCE 1971
	2800	15,0				03-69		2	6	80		
	2920	9,0				01-70		1	1	20		
*4418	2795	15,0				02-64	04-75	1	2	30	PRODUCED (B)	*NO PRODUCTION, 1975
4422	2310	15,0				01-71		3	4	70	PRODUCED (B)	*EST +INCL PRIM PROD
	2710	10,0						3	3	60		
4310	1960	6,0	18,7	150		10-68		2	1	30	FRESH, PROD (M)	*ESTIMATED SINCE 1973
	2185	12,0	19,8	264				4	4	80		
	2620	9,0						1	1	20		
	2800	8,0	13,3	73				4	4	80		
	2900	8,0	12,0	70				1	1	20		
*1413	1695	14,0	19,0	225	37,2	03-53	04-73	16	17	336	PRODUCED (B)	
*4318	2935	20,0	14,2	4	35,6	12-61	07-69	8	8	260	SH 80, PROD (M)	
*4261	2500	25,0	17,6	152	37,0	12-50	04-66	20	24	440	CYPRESS, PROD (B)	
4322	2150	15,0				07-69		4	6	160	FENN SAND (B)	*ESTIMATED
	2740	10,0						4	6	160		
	2870	15,0						6	8	180		
4214	1900	9,0				04-68		36	32	120	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	FENN 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	FENN 80, PROD (B)	
4385	2300	12,4				02-67*		14	24	300	PRODUCED (B)	*UNIT EFFECTIVE 7-66
	2640	10,5	18,0	60						302		
	2790	10,0	17,0	50						100		
	2880	22,0								449		
	2900	10,0								278		
	2940	3,0								100		
	2970	3,0								200		
	3060	1,3								63		
*1435	2550	12,0	18,5	80	38,0	07-64	05-70	3	7	100	FENN 80, PROD (B)	
RUARK, LAWRENCE												
2267	1640	8,0	14,0	105	33,8	04-63		1	2	56	SH 80 (F)	*ESTIMATED SINCE 1973
2295	1503	7,0			33,0	4-77		1	1	40	SH, 80	
RUARK W, LAWRENCE												
2284	2250	17,0	16,0	100	38,0	08-65		20	15	370	TAR SPR, PROD (B)	*ESTIMATED 1979
2293	2234	11,0				08-65	07-72		2	20	*	*EST, *WINDOW IN ACTIVE WF
*2290	2260	10,0				01-67	1-77		2	30	*	*ADJ ACTIVE WF, NO INJ *EST
RURAL MILL N, HAMILTON												
*1515	2400	10,0	13,8	22	35,5	05-60	01-69	3	2	140	PRODUCED (B)	
ST FRANCISVILLE, LAWRENCE												
2263	1840	12,0			41,0	04-62		2	5	80	GRAV, 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, PROD (M)	
ST. FRANCISVILLE E, LAWRENCE												
*2218	1740	27,0	17,0	40	36,5	11-57	11-72	6	9	160	RIVER GRAVEL (F)	
ST JACOB, MADISON												
2506	2340	20,0	6,0		35,6	11-65		4	7	230	SH 80, PROD (M)	*ESTIMATED SINCE 1972
2503	2351	15,7	9,6	11	37,0	08-62		7	10	442	AUX VASES, PROD (B)	*EST, SINCE 1979
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	4	50	PRODUCED (B)	*ESTIMATED SINCE 1971
1245	3130	42,0			37,4	12-65		1	5	60	PRODUCED (B)	*INCL PRIM PROD SINCE 1-66 *EST
1250	3100	20,0				01-66		1	6	180	PRODUCED (B)	*EST, *INCL PRIM PROD
1253	1600	10,0				01-61		3	16	175	PRODUCED (B)	*ESTIMATED
1240	1600	22,0	18,0	230		08-63		4	22	588	PRODUCED (B)	
*1222	1595	20,0			34,0	03-54	12-62	3	9	100	PRODUCED (B)	*1959-1962 ESTIMATED
1251	3090	45,0	11,0			04-68		1	5	90	PRODUCED (B)	*ESTIMATED SINCE 1978
1239	1600	13,4	19,6	76	37,0	05-63		3	9	200	PRODUCED (B)	
STE MARIE, JASPER												
*1912	2910	10,0			36,2	11-61	12-65	2	6	160	CYPRESS (B)	*O.F., UNKNOWN; *DATA ESTIMATED
*1905	2860	7,0				10-68	12-60	1	14	400	CYPRESS (B)	
*1923	2850	8,0	15,0	300	39,0	04-68	12-72	2	7	140	GRAVEL BED (F)	
*1920	2822	5,0			37,0	01-66	08-78	1	2	60	RIVER GRAVEL (F)	
SAILOR SPRINGS C, CLAY, EFFINGHAM, JASPER												
385	2600	12,0				6-58		1	5	60	PRODUCED (B)	*EST, *INCL PRIM SINCE 66
	2970	8,0						1	2	30		

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				1979	12/79	1979	12/79
• P.M.				1979	12/79	1979	12/79
SAILOR SPRINGS C, CLAY, EFFINGHAM, JASPER CONTINUED							
393	ABMER OIL CO	DUFF	CYPRESS	12-3N-7E	20*	340*	20*
318	ASHLAND O AND R	E. FLORA	MCCLOSKEY	16,21-3N-7E		2173	195
377	ASHLAND O AND R	E M KECK LEASE	MCCLOSKEY	35-4N-7E		181*	42
348	BANGERT CASING	STASER U	CYPRESS	12,13,14-3N-7E		2687*	192
370	BANGERT CASING	ARMSTRONG U	CYPRESS	3,10-3N-7E		210*	17
386	BANGERT CASING	DUFF	CYPRESS	12-3N-7E	18*	658*	61*
1106	NH, BECKER	ROBICLARE LINE UNIT	SPAR MTN	5-5N-7E, 32-6N-7E		7552*	971*
309	CITIES SERVICE	WYAT7	AUX VASES SPAR MTN	13-5N-7E		871	40
359	WALTER DUNCAN	GOULD UNIT	CYPRESS	15-9N-7E	250*	4258*	1261
388	WALTER DUNCAN	M.O. LEWIS	CYPRESS	9-5N-7E		9.1	207
1102	WALTER DUNCAN	BRINK	CYPRESS	34-6N-7E	70*	2698*	3.5
1116	WALTER DUNCAN	KLUTHE	CYPRESS	33-6N-7E	50*	900*	2.3
374	J. C. FRANKLIN	NW CLAY	CYPRESS	2-3N-7E/35-4N-7E	40*	657*	2.1
389	J. C. FRANKLIN	DICKEY	CYPRESS	3-3N-7E			0.7
1114	J. C. FRANKLIN	REINHART, STORZUM	CYPRESS	22-6N-7E	65*	1857*	4.1
310	GULF OIL CO	R. 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 M KLUTHE	CYPRESS	33-6N-7E			34.2
328	C.O. HAGAN	SAILOR SPRINGS	TAR SPRINGS	26-4N-7E	30*	3264*	1.6
356	JET OIL CO.	BIBLE GROVE UNIT	CYPRESS	10-5N-7E	600	11384	13.4
1107	JET OIL CO.	BLUNT COMM U	MCCLOSKEY	17,20-6N-7E		970	102
329	JUNIPER PETROLEUM C	N SAILOR SPRINGS	CYPRESS	2-4N-7E, 35-5N-7E	82	4508	3.6
364	K W B OIL PROP, MONTGOMERY-WILSON		AUX VASES SPAR MTN	34-4N-7E	240	3403	12.6
375	K W B OIL PROP, MONTPATTON-SMITH U		AUX VASES	11-3N-7E	38	319	1.8
1100	KEN-TEX	BIBLE GROVE	SPAR MTN	28,29-6N-7E	35*	4743*	1.7
1103	KINGWOOD OIL CO.	NAJLER AND JOERGENS	MC CLOSKEY	28-6N-7E			
319	LAOD PETROLEUM	SAILOR SPRINGS U	CYPRESS	13-5N-7E	104	2634	4.9
367	LAOD PETROLEUM	A.J. LEWIS	CYPRESS	9-5N-7E			10.0
1117	LAOD PETROLEUM	J MASSE	CYPRESS	33-6N-7E			9.8
1109	HERMAN LOEB	BIBLE GROVE U, 80, U.	CYPRESS	22,27,28,34-6N-7E	300*	7925*	6.9
352	MAC OIL COMPANY	BIBLE WF UNIT	CYPRESS	9-4N-7E	62	1939	6.6
391	MAC OIL COMPANY	CAKTER	CYPRESS	24-5N-7E		945*	2.4
312	M. C. HCBRIE	GOLOSSY-DICKEY	CYPRESS	34-4N-7E		622	31
313	M. C. HCBRIE	DUFF-KECK	CYPRESS	26,35-4N-7E		1845	140
314	M. C. HCBRIE	SOTM-WELL	CYPRESS	14-3N-7E		98	5
344	M. C. HCBRIE	DEHART	CYPRESS	9,10-3N-7E		989*	81*
311	MCCOLM, KINCAID	SAILOR SPRINGS	CYPRESS	14,15,23-4N-7E		6979	1023
336	MCCOLM, KINCAID	NORTH MOOSIER UNIT	CYPRESS	10-4N-7E		2174	465
355	MCCOLM, KINCAID	BIBLE GROVE WF UNIT	CYPRESS	15,22-5N-7E	211	5619	14.7
382	MCCOLM, KINCAID	HARDIN	CYPRESS	10-5N-7E		300*	36*
383	MCCOLM, KINCAID	CHLORS-HALL-HARD-MARM	CYPRESS	9,10-5N-7E	60	228*	8.2
366	MCKINNEY, FUNDERS	SPARLIN	CYPRESS	3-5N-7E		174	46
340	MOSIL OIL CORP.	NORTH MOOSIER U	CYPRESS	15-4N-7E		1608	274
321	BERNARD PODOLSKY	BUCK CREEK U	MCCLOSKEY	8,9,16,17-3N-7E	361	4677	10.1
333	BERNARD PODOLSKY	C. BOWERS	MCCLOSKEY	16-3N-7E		231	44
371	BERNARD PODOLSKY	E FLORA	MCCLOSKEY	9-3N-7E	55	1040	5.2
343	RAY-OBER OIL CO.	HABTINGS	CYPRESS	23-4N-7E		118*	7*
368	C O KEOO	MCCOLLUM	CYPRESS	9,16-4N-7E	60*	1106*	3.3
369	E S REYNOLDS EST.	STORCK	CYPRESS	5-5N-7E	95*	1213*	5.1
379	ROBISON OIL CO.	BATEMAN, CROUSE, WURKMN	CYPRESS	24,25-5N-7E	11	51*	8.4
361	HUBERT DISE	BATEMAN UNIT	CYPRESS	23,26,35-5N-7E	75*	2366*	2.8
350	SHAKESPEARE OIL	STANFORD UNIT	SPAR MTN	22,27-3N-7E	1	444	0.8
315	SHULMAN BROTHERS	COLCLASURE AND HAROY	CYPRESS	10-3N-7E		1177	28
316	SHULMAN BROTHERS	NEFF	MCCLOSKEY	16-3N-7E		99	3
325	SHULMAN BROTHERS	LEWIS-CYPRESS	CYPRESS	13-5N-7E		84	5
367	SO, TRIANGLE CO.	SAILOR SPRINGS	CYPRESS	11,12,13,14-4N-7E		510	10
360	TEXACO, INC.	NORTH BIBLE GROVE U	CYPRESS	3,4,5,8,9,10-5N-7E, 32-6N-7E	2659	44199	48.6
365	TEXACO, INC.	W G LANDWHR	CYPRESS	9-5N-7E		1988*	5.5
392	TEXACO, INC.	MASCHER	CYPRESS	9-5N-7E			6.5*
1115	R. D. WILSON II	KLUTHE-BTONTZUM-LAKE	CYPRESS	15,22-6N-7E	91	657*	15.3
SALEM C, JEFFERSON, MARION							
2618	7. L. CLARK	PHELPS-WALNUT HILL U.	SPAR MTN	28,33-1N-2E	15*	2782*	1.3
2612	EGO OIL CO	SEBASTIAN	BENOIT	21-1N-2E		319*	33*
2624	EGO OIL CO	LUTTRELL	SPAR MTN	15-1N-2E		178*	20*
2633	EGO OIL CO	SURGE	SPAR MTN	21-1N-2E		146	17
2006	EXXON	OIX R, AND PM,	BENOIT	3,4,9,10,15,16-13-2E	1098	32480	121.4
2010	EXXON	SALEM CONS	AUX VASES	3,4,10-13-2E	572	30387	28.7
2604	TEXACO, INC.	ROBICLARE SAND UNIT	SPAR MTN	15-1N-2E		1913	96
2605	TEXACO, INC.	SALEM UNIT	BENOIT	71,8-N-2E	4310	53855	187.0
2606	TEXACO, INC.	SALEM UNIT	DEVONTAN	71,2-N-2E	45847	447287	1008.0
2607	TEXACO, INC.	SALEM UNIT	MCCLOSKEY	71,2-N-2E	12094	47686	219.1
2608	TEXACO, INC.	SALEM UNIT	AUX VASES	71,2-N-2E	27828	576449	293.4
2636	TEXACO, INC.	SALEM U	SALEM	71,2-N-2E	2751	24723	64.3
2637	TEXACO, INC.	SALEM U	TRENTON	1-2N-2E		806	4
SAMBVILLE N, EDWARDS							
1010	ASHLAND O AND R	WEST SALEM	BETHEL	30-1N-14W		319	7
SCHNELL, RICHLAND							
3439	UNION OIL CALIF.	SCHNELL CONSOL	MCCLOSKEY	7-2N-9E		858*	0.8
SEMINARY, RICHLAND							
3410	R. JOHNSON	SEMINARY	MCCLOSKEY	17-2N-10E		889	25

RESERVOIR STATISTICS (AV. VALUE)				DEVELOPMENT AS OF 12-31-79				INJECTION WATER						
FIELD, COUNTY	PERM. OIL	DATE	DATE	NO. OF	ACRES	SOURCE	TYPE							
PROJ., DEPTH (FT)	NET PAY (K)	(MO) GRAV (API)	FIRST INJ.	ABO.	UNDR	GR=GRAVEL	(F)=FRESH							
NO.	(FT)	(K)	(API)	INJ.	ABO.	UNDR	(F)=FRESH	GR=GRAVEL	PROD=PRODUCED	(M)=MIXED	SH=SHALLOW	REMARKS		

SAILOR SPRINGS C, CLAY, EFFNGHAM, JASPER CONTINUED

393	2625	12.0			6-55	1	4	50						*EST.+INCL.PRIM,SINCE 58
* 318	2950	6.0	16.0	800	36.7	11-56	12-66	3	9	140	PRODUCED (B)			
377	2961	10.0			37.0	12-72		1	4	80	PRODUCED (B)			*INJ TERMINATED 9-1-76
* 348	2620	20.0	16.0	20		06-65	07-76	6	6	100	PENN 80, PROD (B)			*ESTIMATEU SINCE 1977
370	2600	10.0				07-71		2	3	110	PENN 80, PROD (B)			*INJ CURT. 5-74 TO 5-77)+ EST
386	2625	15.0				7-55		2	4	60	PRODUCED (B)			*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		5	9	130	PENN 80 (B)			*ESTIMATEU SINCE 1973
388	2525	12.0				1-65+		+	8	80	PRODUCED (B)			*EST.+ADJ TO ACTIVE WF 365&363
1102	2530	18.0				12-57		2	5	90	PENN 80, PROD (B)			*ESTIMATED SINCE 1973
1116	2520	15.0				05-69		1	5	80	PRODUCED (B)			*ESTIMATEU SINCE 1973
374	2600	12.0				12-70		2	4	80	PRODUCED (B)			*ESTIMATED
	2844	12.0						2	4	80				
389	2590	10.0				01-56+		+	3+	30+				*EST.+ADJ.TU 364&312 SINCE 55
1114	2560	6.0				06-67		4*	7*	130*	PRODUCED (B)			*ESTIMATED
* 310	2602	10.0				09-57	03-60	1	1	20	PRODUCED (B)			
* 339	2600	20.0	16.0	10	37.6	06-63	07-66	3	3	60	PRODUCED (B)			
1118	2510	10.0				01-66				40				*AFFECTED BY PRUJ. 360
328	2300	7.0			32.7	04-58				1	10	150	PRODUCED (B)	*ESTIMATED SINCE 1971
	2600	7.0	20.0					1	7	100				
356	2440	20.0	20.0	70	38.0	01-66		12	14	430	PENN SANU (M)			
* 1107	2860	5.0				11-62	06-69	3	5	80	LAKE, PROD (M)			
329	2560	8.0			36.0	11-56		3	3	100	PENN 80, PROD (B)			
	2800	15.0						3	2	80				
	2880	6.0						4	3	140				
364	2585	12.0				01-69		6	12	160	PENN 80, PROD (B)			
	2830	6.0								60				
375	2575	10.0			37.5	05-72		1	3	90	PENN 80, PROD (B)			
1100	2650	5.0			37.0	07-54		1	1	40	CYP., 7.8., PROD (B)			*ESTIMATED 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	320	CYPRESS 80 (B)			
387	2475	25.0				1-67+		+	6	70	PRODUCED (B)			*EST. +ADJ. TO ACTIVE WF SINCE 67
1117	2500	25.0				06-68			3	60				ADJ. TO ACTIVE WF
1109	2520	7.0			38.0	01-65		12	11	385	SH 80, PROD (M)			*ESTIMATEU 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 (B)			*INCL PRIM SINCE 64 +SHU ONLY
* 312	2580	15.0	15.4	17	38.0	09-55	10-64	1	2	50	PRODUCED (B)			
* 313	2600	12.0	19.0	60	38.0	07-53	09-66	2	5	120	PRODUCED (B)			
* 314	2650	10.0	19.0	20	36.0	08-56	12-59	1	1	20	PRODUCED (B)			
* 344	2610	15.0	17.5	50		11-64	12-77	1	3	60	PENN 80, PROD (B)			*ESTIMATED 1977 DATA
* 311	2600	15.1	17.3	48	37.0	07-54	01-69	11	18	350	CYP 80, PROD (B)			
* 336	2580	15.0	17.0	50	36.0	12-62	06-70	10	12	220	PENN, PROD (B)			
355	2500	18.0	18.0	80		12-65		7	13	200	PENN 80, PROD (B)			
* 382	2475	10.0				1-66+	8-75			1	10			*EST.; WINDOW IN PRUJ.356
383	2580	18.0				07-75		1	4	50	PRODUCED (B)			*ADJ. BY OPERATOR.
* 366	2510	8.0				07-69	1-78	1	1	60	PRODUCED (B)			
* 340	2600	12.0	18.7	40	37.0	08-62	12-66	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	900	36.0	09-61	04-66	1	3	40	PRODUCED (B)			
371	2950	7.0			35.0	02-71		1	2	150	PURCHASEU (M)			*ESTIMATED
* 343	2600	16.0	17.0	56	37.4	10-63	12-66	1	1	40	PENN 80, PROD (B)			*1964-1966 ESTIMATED
368	2620	15.0				06-69		1	6	70	PRODUCED (B)			*ESTIMATED
369	2500	15.0				06-69		2	4	60	PRODUCED (B)			*ESTIMATED
379	2575	13.0				09-75		1	4	40	LAKE AND PRODUCED			*ADJ. BY OPERATOR
361	2570	11.0	17.0	31		01-66		2	3	240	PRODUCED (B)			*ESTIMATED
350	2990	10.0				12-65		1	2	40	SH 80, PROD (M)			
* 315	2620	15.0	16.4	16	36.0	07-57	06-65	1	1	80	PRODUCED (B)			
* 316	3000	5.0			36.0	01-57	12-59	2	1	80	TAR SPRINGS (B)			
* 325	2510	8.0			36.0	01-66	09-67	1	1	30	PRODUCED (B)			
* 367	2620	12.0	17.2	75	36.0	09-70	12-72	5	6	120	PENN 80 (B)			
360	2475	30.0	16.3	67	37.0	07-66		25	24	1320	PENN 80 (B)			
365	2450	10.0	16.0	113	37.0	01-69			3	80	PRODUCED (B)			*INJ. SUBP. 10-76
392	2480	24.0				1-67+		+	2	30				*EST.+ADJ. TO 360 SINCE 66
1155	2580	12.0	19.5	190	38.0	04-69		1	7	90	PRODUCED (B)			*ADJUSTED BY OPERATOR

SALEM C, JEFFERSON, MARION

2618	2102	7.0	12.0		39.2	06-63		4	11	260	PENN 80, PROD (B)			*ESTIMATED SINCE 1974
* 2612	1927	8.0			34.6	01-59	01-78+	1	2	10	PRODUCED (B)			*ESTIMATEU; +INACTIVE 1975
* 2624	2100	15.0				01-67	11-78	1	2	30	PRODUCED (B)			*INACTIVE 1975
* 2633	2110	8.0				01-71		1	4	40	PRODUCED (B)			
* 2006	1950	19.0	16.7	130	38.0	01-48		5	25	2078	PENN 80, PROD (B)			
2010	2000	16.0	14.0	20	38.0	08-60		6	16	1090	PENN 80, PROD (B)			
* 2604	2093	14.0	11.5	43	36.5	04-50	08-62	3	5	100	PRODUCED (B)			
2605	1770	28.0	17.9	150	37.0	10-50		25	49	8247	LAKE, PROD (M)			
2606	3400	19.0	16.8	300	36.5	10-50		73	125	5414	UPPER 80, PROD (B)			
2607	1950	20.0	15.8	700	37.0	04-51		60	63	7712	LAKE, PROD (M)			
2608	1825	26.0	16.3	28	37.0	10-50		103	70	4881	LAKE, PROD (M)			
2636	2175	25.0	10.5	35	37.5	01-71		10	15	840	PROD, FRESH (M)			
* 2637	4520	99.0	7.2	27	40.7	09-67	01-74	3	2	160	PROD, FRESH (M)			

BAMSVILLE N, EDWARDS

* 1010	2930	5.0				09-54	02-59	1	1	20	PRODUCED (B)			
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BCHNELL, RICHLAND

3439	2988	15.0			39.5	08-68		1	1	103	PRODUCED (B)			*INJ. SUBP.
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SEMINARY, RICHLAND

* 3410	3000	8.0			36.0	02-54	04-57	2	4	120	CYPRESS (B)			
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TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY	PROJECT	PAY NAME	LOCATION	WATER	OIL	WATER	INJECTION	PRODUCTION	PRODUCTION	PRODUCTION
PROJECT NO., OPERATOR	U = UNIT		S - T - R				TOTAL	CUM.	TOTAL	CUM.
M = ABO P.M.							1979	12/79	1979	12/79
8888 C, FRANKLIN 1343 N. A. GALORIDGE 1318 WM, BECKER	GALLOWAY OLO BEN COAL FLOOD	AUX VASES AUX VASES	20-58-2E 13,14,23,24-68-1E	100* 330*	715* 7502*	8.6* 16.1*	136* 751*	100* 330*	715* 4985*	
1325 FARRAR OIL CO. 1330 FARRAR OIL CO.	8888 UNIT CHRISTOPHER U	AUX VASES RENAULT	26,35-58-1E/2-68-1E 24,25-68-1E1	90* 27*	2419* 562*	17.2* 2.9*	1001* 79*	90* 27*	1115* 246*	
1306 WILL I LEWIS EST 1339 JOE SHMPKINS OIL	8888 U SOUTH 8888 UNIT	AUX VASES RENAULT	19,30-68-2E 17,19,20-58-2E	120	1574* 652*	6.3	32	120*	75* 537*	
8MAT7UC, CLINTON 410 T. M. CONREY, JR	8MAT7UC WF	CYPRESS BENOIST	27,28-2N-1W	140*	1484*	7.8	177	140*	979*	
8HAWNEETOWN N, GALLATIN *1416 SUN OIL CO.	L. MILLER	AUX VASES	7-98-10E		357		48		163	
8IGGINS, CLARK, CUMBERLAND * 216 ACME CASING 700 BELL BROTHERS * 701 COCOMMONUR, CLARK 702 MARATHON OIL CO.	UNION GROUP FLOOD 1 VEVAY PARK 8IGGINS	2NO 8IGGINS 2NO 8IGGINS 2NO 8IGGINS 2NO 8IGGINS	18-10N-11E 13-10N-10E 25-10N-10E 13,14-10N-10E, 7,11,12-10N-11E	74 1905	23839 1156 255 109069	2.6 81.7	2721 283 2 13361	74 2381	21092 1170 103 27611*	
* 215 OMER H. OOLE 707 CLIFFORD A. PERRY	8IGGINS REEDER	8IGGINS 2NO 8IGGINS	7-10N-14W 7-10N-11E 24-10N-10E	5* 117*	50* 117*	0.7	9* 14	5* 117*	50* 117*	
8ORENTO C, BONO 7 JACK COLE * 5 JOE A. OULL	YOUNG & VONBERG U. 8ORENTO SOUTH	PENN LINGLE	32-6N-4W 29-6N-4W	6* 88	255* 88	0.4	12 4	6* 57*	100* 57*	
8T4UNTUN W, MACOUPIN 8400 RAY E. HOWELL	DEHNE	PENN	16-7N-7W	*	16*	*	1*	*	2*	
8TWARDSON, SHELBY 3800 W. L. BELOEN 3801 DONALD W. GESELL	CHAFFEL-MANPER-WABASH MORTY MORAN	AUX VASES AUX VASES	27-10N-5E 27-10N-5E	94 94	2690 2203	11.7 2.1	414* 159	94* 94	2690* 1693	
8TORMS C, WHITE *4431 ATLAS DRILLING 4204 C. E. BREHM 4438 C. E. BREHM 4241 JACK BROOKOVER 4263 JIM HALEY	MS & GP HANNA R-8 U C.S. AUSTIN W. S. HANNA 8TORMS POOL UNIT	7AR SPRIN WALTERSBURG WALTERSBURG PENN WALTERSBURG	28-55-10E 12,13-68-9E 22-68-9E 28-55-10E 27,11-15,22-24-68-9E	328 *	1000* 4523 *	14.3 34.4	58 528 325	510* 6070*	1000* 6070*	
4457 JIM HALEY *4271 HABEE PET. CORP. 4451 HURVIN OIL CO.	ARMSTRONG&HALL-MYERS 8TORMS FERGUSON	WALTERSBURG WALTERSBURG BIEHL	1-68-9E 22-65-9E 32-55-10E	* 90	* *	5.6 1.4	191 105	30* 10*	1085* 820*	
4450 O H AND F OIL CO 4268 DENNIS PAINE	LAND ALURIDGE	CLORE WALTERSBURG	32-58-10E/5-65-10E 12-68-9E	50* 110*	900* 6516*	4.1 3.6*	129* 323*	50* 900*	900* 900*	
4360 DENNIS PAINE 4449 DENNIS PAINE	TRAINOR PECHTER-RICE	AUX VASES 7AR SPRINGS CLORE	23-68-9E 22-55-10E	* 6*	680* 74*	6.5 0.3	105 12	* 6*	680* 74*	
4296 BERNARD POOLSKY 4240 QUASAR, INC. 4215 SO. TRIANGLE CO. 4234 SUN OIL CO. 4399 SUN OIL CO.	MCQUEEN POMEROY 8TORMS UNIT (WILSON) 8 TORMS EXTENSION N 8TORMS EX7 COOP	PALESTINE OEGONIA CLORE AUX VASES WALTERSBURG WALTERSBURG WALTERSBURG 7AR SPRINGS	32-58-10E 26,33-58-10E 22-65-9E 12,13-68-9E 1,12-68-9E/6-68-10E	1873 11 530* 835 1902	1673 489* 6839* 12345 20717*	0.7 0.7 27.5 31.7 31.6	29 642* 714 1042	11* 550* 930 1328	214* 3204* 969 18294*	
*4295 TAMARACK PET. *4327 TAMARACK PET. 4366 TAMARACK PET. *4372 TAMARACK PET. 4265 TARTAN OIL CO.	HANNA CALVERT HANNA "A" HANNA FERGUSON-RUODLPH	CLORE CLORE BIEHL BIEHL PENN	32-58-10E 32-58-10E 29-58-10E 32-58-10E 22-58-10E	1754 402 32 424 15*	1754 402 900 424 487*	0.7	322* 2 77 *	815* 19 37 *	815* 19 740 855*	
8TRINGTOWN, RICHLAND *3411 N. C. DAVIES *3412 HELMERICH, PAYNE *3413 SKELLY OIL CO.	8TRINGTOWN 8TRINGTOWN WF PETER VON ALMEN	8TE GEN 8TE GEN 8TE GEN	31-5N-14W 31-5N-14W 31-5N-14W	257 171 324	257 171 324		19 5 59	289 57 248		
8UMPTER E, WHITE 4381 OEE DRILLING 4480 OEE DRILLING *4408 EAGLE SUPPLY CO	BONO-MENONERSON W CROSSVILLE S UNIT CAHMI	OHARA OHARA AUX VASES SPAR HTN	20,29-48-10E 20,29,30-48-10E 12-58-9E	* 110*	1167* 3130* 787	* 5.4	60* 160* 292*	* 110*	652* 1670* 336*	
4231 T. W. GEORGE EST. 4425 HERTZING PROD. CORP. 4424 SLAGTER PRODUING	SUMPTER E CHERRY SHOALS UNIT W CROSSVILLE U	AUX VASES SPAR HTN CYPRESS OHARA	29,31,32-48-10E/ 5,6- 58-10E 17,20,21-48-10E 20,29-48-10E	63 34* 400*	4104 1084* 4000*	9.4 1.6 18.5	335 52* 212*	48 34* 400*	1292 734* 2535*	
8UMPTER N, WHITE 4221 SHAKESPEARE OIL 4423 WARRIOR OIL CO.	SUMPTER NORTH U MORRILL	AUX VASES AUX VASES	20,29-48-9E 21-48-9E	115 35	2343 242	3.3 4.4	151 96	95 35	899 848	
8UMPTER S, WHITE 4430 FRMERS PETR COOP 4437 K W B OIL PROP. *4345 SO. TRIANGLE CO. *4346 SO. TRIANGLE CO.	SOUTH SUMPTER JOSEPH JACOBS SUMPTER SOUTH UNIT SUMPTER NORTH UNIT	7AR SPRINGS 7AR SPRINGS AUX VASES AUX VASES	34,35-48-9E/2,3-58-9E 34-48-9E 2,3-58-9E 34,35-48-9E	66 2 859 642	564 290 859 642	15.6 1.7	153 19	66* 6	285* 175 371 214	
TAMAROA, PENNY 3100 FRMERS PETR COOP	TAMAROA	CYPRESS	14,23-48-1W	65*	2893*	3.0	123	65*	2139*	

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79			INJECTION WATER			REMARKS	
FIELD, COUNTY	PROJ. NO.	DEPTH (FT)	NET PAY (FT)	POR (%)	PERM (MO)	OIL GRAV (API)	DATE FIRST INJ.	DATE AB.	NO. OF WELLS	ACRES UNDER INJ.	SOURCE	TYPE	BO-BAND (B)	GR-GRAVEL (B)	PROD-PRODUCED (M)		SH-SHALLOW (M)
BEASER C, FRANKLIN																	
	1343	2670	12.0				01-70		1	7	80	PRODUCED (B)					*ESTIMATED
	1318	2600	18.0		40.0		07-64		8	18	410	PENN 80, PROD (B)					*ESTIMATED SINCE 1973
		4375	20.0		40.0				1	2	60						
	1325	2600	15.0	18.0	10	38.0	05-65		6	14	360	CYPRESS, PROD (B)					*ESTIMATED SINCE 1977
	1330	2570	10.0				10-69		1	5	60	CITY WATER (F)					*EST SINCE 1976 +ADJUSTED
		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 (F)					*ESTIMATED
SHATTUC, CLINTON																	
	410	1285	6.0		34.6		07-59		3	4	110	TAN SPR, PROD (B)					*ESTIMATED
		1436	9.0		35.0		01-64		2	2	40						
SHANNEETOWN N, GALLATIN																	
	*1416	2750	15.0		37.0		11-59	09-66	2	1	30	PENN 80 (B)					
BIGGINS, CLARK, CUMBERLAND																	
	* 216	404	31.0	18.0	51	36.0	12-46	01-72	92	84	459	GRAY, PROD (M)					
	700	320	14.9	18.9	73	35.9	09-50		9	15	80	SURFACE (M)					
	* 701	600	16.0	20.3	349	30.1	12-50	12-56	2	4	14	LAKE, PROD (M)					
	702	400	32.0	17.5	56	36.4	06-42		352	442	2019	GRAY, PROD (F, B*)					*SINCE 1970
	* 215	450	36.0	21.5	40	33.8	04-52	01-74	30	27	135	PRODUCED (B)					*ESTIMATED SINCE 1965
	707	520	30.0				09-68		1	4	90	WELL, PROD (M)					*ESTIMATED
SURENTO C, BOND																	
	7	592	14.0	17.6	175	33.0	11-69		4	2	70	PENN SAND (B)					*ESTIMATED SINCE 1972
	* 5	1850	4.5	12.2	50	38.0	10-62	10-64	1	3	50	PENN 30, PROD (B)					*1964 DATA ESTIMATED
STAUNTON W, MACDOUPIN																	
	2400	490	10.0			32.0	05-60		2	7	40	PRODUCED (B)					*NO DATA SINCE 1962
STEWARTSON, SHELBY																	
	3800	1750	20.0				09-59		1	2	160	PRODUCED (B)					*EST +INCL PRIM PROD
	3801	1950	9.0				06-62		3	3	70	PRODUCED (B)					
		2035	10.0								40						
STORMS C, WHITE																	
	*4431	2350	15.0				06-58	12-71	2	8	100	PRODUCED (B)					*ESTIMATED
	4204	2250	20.0				03-66		5	5	100	PENN 30, PROD (B)					
	4438	2260	14.0				10-67		4	4	40						*ADJ TO ACTIVE WF, +ESTIMATED
	4241	1319	9.0			28.0	04-63		1	1	20	TAN SPR, PROD (B)					
	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, TO 4399 SINCE 66
	*4271	2240	15.0				07-51	06-53	1	2	40	PENN 30, PROD (B)					
	4451	1850	4.0						+	3	30						*EST, +ADJ, TO PROJ. 4372 & 4395
		2100	11.0						+	3	30						
	4450	2100	15.0				6-67		1	3	50	PRODUCED (B)					*EST, +INCL PRIM SINCE 1956
	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 (B)					*DATA EST; +INJECTION SUSP 1975
	4449	2085	6.0				6-70		1	3	40	PRODUCED (B)					*ESTIMATED
		2155	6.0						1	4	50						
	*4296	2550	6.0				06-60	01-66	5	5	100	SH 30, PROD (M)					
		2580	12.0						4	7	150						
	4240	2750	12.0	16.5	54	36.0	06-66		4	2	80	SH 30, PROD (M)					*ESTIMATED
	4415	2250	22.0	19.5	225	34.8	07-67		5	12	200	PENN 30, PROD (M)					*ESTIMATED SINCE 73 +ADJUSTED
	4234	2250	19.0				07-66		9	11	280	RIVER GRAV, PROD (M)					
	4399	2290	20.0	20.0	200	38.0	06-64		12	16	300	PENN 30, PROD (M)					*ESTIMATED
		2390	10.0	18.5	100						40						
		2980	15.0	16.0	30						280						
	*4295	2100	10.0	18.0	150	34.8	08-60	01-71	3	3	120	PENN 30, PROD (B)					*INCL 4372
	*4327	2100	10.0	18.0	150		08-60	12-64	1	1	20	SH 30, PROD (M)					
	4366	1830	7.0	18.6	170		02-68		1	3	70	PRODUCED (B)					
	*4372	1826	14.0	20.1	289	34.8	12-62	09-71	3	3	40	SH 30, PROD (M)					*INCL WITH 4295
	4285	1480	27.0	20.0	200	34.0	12-68		3	1	40	SH 30 (F)					*ESTIMATED +ADJUSTED
STRINGTOWN, RICHLAND																	
	*3411	3000	10.0	18.0			12-53	09-58	2	3	80	TAN SPRINGS (B)					
	*3412	3026	7.0			38.0	10-54	12-57	2	2	70	CYPRESS, PROD (B)					
	*3413	3002	12.0			36.0	12-53	12-63	1	2	80	PENN 30, PROD (B)					
SUMPTER E, WHITE																	
	4381	3140	18.0				02-66		3	7	70	PENN 30, PROD (B)					*ESTIMATED; +INJ, SUSP, 1976
	4420	3150	11.0				04-70		3	12	220	GRAVEL 4 PROD (M)					*EST +INCL PRIM
	*4408	3090	15.0				07-65	01-76	3	3	50	RIVER GRAV, PROD (M)					+INJ TERMINATED 1974; *ESTIMATED
		3165	8.0					12-66	1	1	20						
	4231	3020	20.0	19.7	57	37.0	10-65		2	3	395	RIVER GRAV, PROD (M)					
		3100	10.0	10.5	15	37.0					140						
	4425	2830	25.0				04-67		2	10	150	SH 30, PROD (M)					*EST +INCL PRIM
	4424	3170	10.0				06-67		3	8	140	PENN 30, PROD (B)					*EST +INCL PRIM PROD
SUMPTER N, WHITE																	
	4221	3170	10.3				06-66		3	3	180	SH 30, PROD (M)					
	4423	3175	20.0				11-58		1	3	40	PRODUCED (B)					
SUMPTER S, WHITE																	
	4430	2550	6.5	15.4	55	34.7	11-72		3	4	80	ONE WATER SUP WELL (F)					*ESTIMATED
	4437	2550	10.0				3-74		1	1	20	PRODUCED (B)					
	*4345	3240	10.7	19.0	55	36.2	09-63	07-70	5	4	100	SH 30, PROD (M)					
	*4346	3240	11.7	19.0	55	36.2	10-63	07-70	4	3	70	PENN 30 (F)					
TAMAROA, PERRY																	
	3100	1140	10.0	24.3	349	31.5	12-61		3	4	180	POND, PROD (M)					*ESTIMATED SINCE 1973

TABLE 11. Waterflood operations

GENERAL INFORMATION					PRODUCTION AND INJECTION STATISTICS (M BBL)					
FIELD, COUNTY	PROJECT	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 O					1979	12/79	1979	12/79	1979	12/79
P, M, H										
TAHARA B, PERRY										
3101 N. A. BALORIOBE	BAGHELL	CYPRESS	28-48-1W		50*	574*	2.3	45	50*	774*
THACKERAY, HAMILTON										
1951 GALLAGHER DRILLING	THACKERAY 3-A	AUX VASEB	10,11,15-38-7E			13139		968		8808
1970 GALLAGHER DRILLING	W THACKERAY UNIT	AUX VASEB	9,16-38-7E		242	2871*	18.7	931*	149	1610*
THOMPSONVILLE E, FRANKLIN										
01302 C. E. BREHM	E THOMPSONVILLE	AUX VASEB	12-78-4E, 7-78-5E			362		136		1417
THOMPSONVILLE N, FRANKLIN										
01305 BARBARA BRAGASSA	THOMPSONVILLE U	AUX VASEB	10,15-78-4E			1032*		125*		80*
1331 COLLINS BROS.	N THOMPSONVILLE U	AUX VASEB	10-78-4E		49	889	14.5	128		
01304 FAIRFIELD BALEY	THOMPSONVILLE U	AUX VASEB	3,9,10-78-4E			1786		381		360
01303 HUMBLE O AND R	N THOMPSONVILLE U	AUX VASEB	3,9,10-78-4E			2211		365		600
TONTI, MARION										
2609 FRY OIL CO	BRANCH	SENOIST	4-2N-2E		230*	5196*	7.6	215*	230*	3927*
2634 LEIDERMAN ESTATE	TONTI FLOOD PROJ	MCCLOSKEY	33-3N-2E		70*	1930*	9.5	234	70*	3142*
2621 TEXACO, INC.	TONTI UNIT	SENOIST	4-2N-2E		1633	16971	51.6	695	2142	25528
		AUX VASEB								
		SPAR HTN								
		MCCLOSKEY								
		SPAR HTN								
02622 TEXACO, INC.	M. MCMACKIN		34-3N-2E			109		1		109
TRUMBULL C, WHITE										
4362 ABMER OIL CO	TRUMBULL	CYPRESS	24-58-8E, 18-58-9E		20*	3458*	1.6	277	20*	416*
4297 AUTUMN OIL CO	R. SIMMONS	CYPRESS	25,26-58-8E		40*	901*	2.7	69	40*	870*
4301 AUTUMN OIL CO	SEVEN HILE FLATS	OHARA	23,24-58-8E		9*	781*	0.3	47	9*	600*
4367 COY OIL CO	TRUMBULL U	AUX VASEB	13,14,23-58-8E		460*	4657*	30.8*	500*	460*	2447*
		OHARA								
		AUX VASEB								
		MCCLOSKEY								
4429 DEE DRILLING	460-BOUTH		14-58-8E		90*	788*	2.9	45	90*	788*
4336 FEAR AND OUNCAN	MOORE-NIELING UNIT	MCCLOSKEY	7-58-9E		*	*	0.3	34	4*	424*
TRUMBULL N, WHITE										
04406 SHULMAN BROTHERS	STUCKE	AUX VASEB	24-48-8E			36		1		5
		MCCLOSKEY								
VALIER, FRANKLIN										
1324 EBER MCKENOREE	RHEN-REA	AUX VASEB	8-63-2E		115*	462*	6.8	66*	115*	462*
WALPOLE, HAMILTON										
1932 HERMAN GRAHAM	WALPOLE WEST U	AUX VASEB	28,33-68-6E		25*	2232*	1.1	297	25*	1330*
01918 TEXACO, INC.	WALPOLE UNIT	AUX VASEB	22,26,27,34,35-68-6E			21248		2342		11723*
01946 TEXACO, INC.	WALPOLE EAST UNIT	AUX VASEB	26,35-68-6E			1225		170		588
1973 TEXACO, INC.	WALPOLE STE. GEN UNIT	SPAR HTN	26,27-68-6E		97	1792	8.7	186	159	1064
		MCCLOSKEY								
01517 UNIVERSAL OPRTNG	HALPOLE UNIT	AUX VASEB	3-78-6E			1486		79		977*
WAMAC, CLINTON, MARION, WASHINGTON										
02610 MINERAL REC. INC	WAMAC WATERFLOOD	PETRO	19,30-1N-1E			4		7		11
02611 OWNEY STINSON	WAMAC UNIT	PETRO	19,30-1N-1E			531		35		221
WAMAC H, CLINTON										
4021 G. JACKSON	JACKSON, HADDON-HOODGES	CYPRESS	29-1N-1W		60*	1749*	3.0*	89*	60*	1749*
414 JET OIL CO.	WAMAC H, SENOIST U	SENOIST	22-1N-1W		277	6698	5.7*	549*	240	4927
418 JET OIL CO.	WAMAC W CYPRESS U	CYPRESS	20,21-1N-1W		50	630	9.1	279	12	191*
WEST FRANKFORT C, FRANKLIN										
01307 CONYERS OIL WELL	MOHN-DIMOND *B*	OHARA	24,25-78-2E			613*		100*		467*
		MCCLOSKEY								
01301 FARRAR OIL CO.	W FRANKFORT U	TAR SPRINGS	18,19-78-3E			4792		561		3021
01308 FARRAR OIL CO.	ORIENT U	TAR SPRINGS	12-78-2E			476		29		444
1313 KILLION HCCLEM.	TEW-BINKS	AUX VASEB	19,20,29-78-3E		167	2358		344*	80	840
01322 KILLION HCCLEM.	BONER-HERRIHAN U	AUX VASEB	31-78-3E			287		60		49
1333 KILLION HCCLEM.	SW FRANKFORT U	TAR SPRINGS	24,25-78-2E, 19,30-78-3E		235	1870	27.8	192	150	886
1342 KILLION HCCLEM.	RANSON	AUX VASEB	29-78-3E		9	75	17.3	43	80	159*
1336 RK PET. CORP.	W FRANKFORT U	AUX VASEB	1-78-2E, 6-78-3E		30*	453*	5.2	101	30*	361*
01340 B AND M OIL CO.	GARDNER-DIAMOND	OHARA	13,24-78-2E			390*		19*		350*
01315 TEXAS AMERICAN	POND CREEK	TAR SPRINGS	25-78-2E			1031		151		336
WEST SEMINARY, CLAY										
0346 SHULMAN BROTHERS	WEST SEMINARY UNIT	AUX VASEB	5,6,8-2N-7E			4701		378		2636
		MCCLOSKEY								
WESTFIELD, CLARK, COLES										
221 ASHLEY OIL CO.	WESTFIELD TRENTON U	TRENTON	5,6,7,8,17,18-11N-14W		315*	1728*	16.6	80	20*	82*
231 ASHLEY OIL CO.	SMERWOOD STEAM FLOOD	CABBY GAS	32-11N-14W			1*		1		6
200 FOREST OIL CO.	WESTFIELD POOL		17-11N-14W			3956		15		
222 FOREST OIL CO.	PARKER	CABBY GAS	30-11N-14W			663		34		
224 FRAZIER ENT.	APEX	PENN	4-11N-14W			24*		1		
502 GEN. OPERATIONS	JOHNSON	CABBY GAS	7,18,19-11N-11E			205		13		75
			18-11N-14W							
WESTFIELD E, CLARK										
206 JUDITH NEUMAN	HORRILL	PENNSYLVNIN	12-11N-14W		38*	561*	2.6	56	38*	604*
WHITTINGTON, FRANKLIN										
1329 T. W. GEORGE EST.	WILCOX	HARRODSBURG	20,29-58-3E		4	17*	0.2	23	4	86
		CYPRESS								
1338 M B W OIL CO	STEEL-LAKE	CYPRESS	19-58-3E		110*	1039*	6.9	103	110*	1090*
1341 M B W OIL CO	WHITTINGTON SOUTH U	HARRODSBURG	29,30-58-3E		150*	1680*	10.1	141	150*	1505*
1337 JUNIPER PETROLEUM C	BE WHITTINGTON	CYPRESS	21,28,29,32,33-58-3E		208	1933	11.0	145	170	1247
		OHARA								
		MCCLOSKEY								

in Illinois, 1979--continued

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER		
FIELD, COUNTY										NO. OF		SOURCE		TYPE		
PROJ.	DEPTH	NET	POR	PERM	OIL	DATE	DATE	NO. OF	ACRES	80-BAND	(F) FRESH	(G) BRINE				
NO.	(FT)	(%)	(%)	(MO)	GRAV	FIBR	ADO.	WELLS	UNDER	GH	GRAVEL	(G) BRINE	PROD	PRODUCED	(M) MIXED	REMARKS
		(FT)			(API)	INJ.		INJ.	PROD.	INJ.						
TAMARUA B, PERRY																
3101	1125	12.0			27.6	01-62		1	4	60			PRODUCED (B)			*ESTIMATED
THACKERAY, HAMILTON																
1551	3368	15.0	24.0	270		04-64		9	6	420			CYP, PROD (B)			*DATA N/A 1979
1570	3350	16.0	20.3	174	30.2	12-69		3	3	120			CYPRESS (M)			*ADJUSTED BY OPERATOR
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	3120	16.0	19.5	50	38.6	03-54	01-64	7	3	176			LAKE, PROD (M)			*NO DATA SINCE 1962
1331	3100	15.0				11-68		2	6	120			PENN 80, PROD (B)			
*1304	3020	15.0	21.0	115	37.0	01-56	12-64	7	7	236			LAKE, PROD (M)			
*1303	3075	25.0	22.0	170	37.5	10-55	04-62	5	5	100			CYP, PROD (B)			
TONTI, MARION																
2609	1950	6.0			36.2	04-59		2	3	60			PRODUCED (B)			*ESTI *INCL PRIM PROD SINCE 4-59
	2122	7.0						1	2	40						
2634	2152	10.0			36.0	02-67		1	4	50			PRODUCED (B)			*ESTIMATED SINCE 1975
2621	1940	18.0				05-75		11	14	80						
	2010	20.0			36.0	05-75				120						
	2110	8.0	17.3	169		02-64				140						
	2140	18.0	14.1	196		02-64				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 50 (F)			*ESTIMATED SINCE 1972
4297	2800	8.0				06-65		1	2	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						
4429	3120	15.0				10-69		1	2	50						*ESTIMATED
	3230	8.0						1	2	30						
4336	3283	5.0	12.8	136	37.0	11-61		0	1	40			TAR SPR, PHOD (B)			*O.F., UNKNOWN *ESTIMATED
TRUMBULL N, WHITE																
*4406	3320	10.0			36.0	09-65	09-66	1	1	20			CYPRESS (B)			
	3668	7.0						1	1	40						
VALIER, FRANKLIN																
1324	2670	8.0			39.2	11-64		1	1	70			PRODUCED (B)			*ESTIMATED; *INCL PRIM PROD
WALPOLE, HAMILTON																
1532	3200	15.0	22.1	190	39.0	07-62		4	4	160			PENN 80, PROD (B)			*ESTIMATED SINCE 1971
*1518	3100	15.4	18.3	106	36.2	12-60	04-69	14	19	1640			PENN 80, PROD (B)			
*1546	3100	17.0	15.4	18	36.7	09-63	01-69	4	3	160			PENN 80, PROD (B)			
1573	3200	12.0	12.0		37.6	03-73		4	2	280			PROD SUPPLY (B)			
	3250	18.0	10.0													
*1517	3180	18.0	20.3	134	37.4	01-60	09-66	4	3	80			PENN 80, PHOD (B)			*EST FOR 1964-1966
WAMAC, CLINTON, MARION, WASHINGTON																
*2610	765	18.0	21.3	220	35.0	05-54	10-65	6	15	120			CITY WATER (F)			
*2611	750	20.0	20.3	183	30.0	07-57	12-60	6	13	50			CITY WATER (F)			
WAMAC W, CLINTON																
4021	1300	7.5				11-66		1	5	70			PRODUCED (B)			*EST, *INCL, PRIM PROD SINCE 1966
414	1450	18.6				11-62		5	9	140			LAKE, PROD (M)			*INCL PRIM PROD SINCE 11-62 *EST
418	1290	8.8				10-65		3	6	90			PENN 80, PHOD (B)			*ESTIMATED
WEST FRANKFORT C, FRANKLIN																
*1307	2760	10.0	15.0	205	38.0	07-59	12-72	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	07-65	6	6	141			CYPRESS, PHOD (B)			
*1308	2050	12.1			40.1	09-59	12-63	4	3	70			CYPRESS, PHOD (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 80, PROD (B)			
1333	2050	40.0			38.0	02-71		3	20	60			LAKE B PRNU (M)			
	1342	2735	15.0		38.0	12-76		1	6	60			LAKE (F)			*ESTIMATED
	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 BEMINARY, CLAY																
* 346	2970	9.0	19.0		37.2	03-64	12-68	15	8	290			PENN 80, PROD (B)			
	3080	9.0						4	5	180						
WESTFIELD, CLARK, COLES																
221	2350	60.0	4.0		39.0	01-75		13	37	1000			CITY WATER (F)			*ESTIMATED SINCE 1977
* 231	250	20.0	20.0	250	25.0	02-64	04-64	2	1	10			CITY WATER (F)			*ONE TON UP STEAM, STEAM BOAK
* 200	290	15.0	19.0	17	34.0	01-66	03-70	20	9	30			GRAVEL BED (F)			
* 222	270	25.0	17.9	153	28.1	06-50	04-61	9	12	20			GRAVEL BED (F)			
224	340	60.0			36.8	03-67		6	5	40			CARPER, WELL (M)			*NO DATA SINCE 1968
* 502	320	35.0	21.5	86	29.0	06-51	12-62	30	14	60			LAKE, PROD (M)			
WESTFIELD E, CLARK																
206	370	20.0	22.0	400	34.9	01-66		4	10	60			PRODUCED (M)			*ESTIMATED
WHITTINGTON, FRANKLIN																
1329	2300	10.0				09-67	12-68	1	1	40			LAKE, PROD (M)			
	2530	10.0				07-64		3	3	50						
1338	2530	10.0				12-71		2	4	60			PRODUCED (B)			*ESTIMATED
1341	2300	10.0				07-72		4	12	180			PRODUCED (B)			*ESTIMATED
1337	2500	8.0				10-71		4	5	60			LAKE, PROD (M)			
	2810	8.0								160						
	2900	5.0								160						

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	1979	12/79	1979	12/79	1979	12/79
ASO									
P,M,									
WHITTINGTON, FRANKLIN CONTINUED									
1334 WILL I LEWIS EST	WHITTINGTON	HAROBURG	20-58-3E CYPRESS	190	1897	6.4	110	190	961
WHITTINGTON W, FRANKLIN									
*1344 JOHN C. BOWERS	PLAINS PL.	RENAULT	12-58-2E		760		137		760
*1312 KEWANEE OIL CO.	PLAINS	RENAULT	1,2,11,12,14-58-2E		3375		363		1137
WILBERTON, FAYETTE									
1246 W. L. BELOEN	ST PETER AREA	CARPER	11,12,13-5N-2E1 7,17,18,19-5N-3E	77	12253	17.0	944	77	9542
WILLIAMS C, JEFFERSON									
2019 N. A. BALORIGGE	WILLIAMS SOUTH UNIT	AUX VASES	10,11-38-2F	35	1983	1.4	525	35	1201
2028 WALTER OUNCAN	HOOGE	BENOIST	2-38-2E	23	493	1.5	31	23	493
2033 PEP DRILLING CO.	LEFFLER	AUX VASES	35-28-2E12-38-2E	35	1276	4.2	148	35	1276
2032 BERNARD POOLSKY	MCLAUGHLIN	BENOIST	2-38-2E	10	320	2.0	30	10	320
WOBURN C, BUND									
3 BERNARD POOLSKY	BLANKENSHIP AREA	DEVONIAN	34-7N-2W		263	2.7	40		455
4 E. E. JENNEHAN	SPINOLER L&E	BENOIST	10-6N-2W		194		11		194
WOODLAWN, JEFFERSON									
2005 K W B OIL PROP.	MGMTHOPPA	CYPRESS	2-38-1E	248	2672	11.4	198	248	2326
2024 MOBIL OIL CORP.	KAMINSKI ESTATE	BENOIST	2-38-1E	178	1764	11.4	358	153	1840
*2023 TEXACO, INC.	WALKER 7	CYPRESS	2-38-1E		255		5		177
2034 CHARLES P. WOOD	BURKHART	BENOIST	35-28-1E	5	1015	0.3	278	5	1015
YORK, CLARK, CUMBERLAND									
* 706 C. KYBER	CUMBERLAND UNIT	ISABEL	1-9N-10E		37				3
* 703 TRANS-SOUTHERN	YORK	ISABEL	6-9N-11E		604		20		290
ZEIGLER, FRANKLIN									
1316 V. R. GALLAGHER	BENO LEASE	AUX VASES	20-78-2E	17	285	6.5	255	17	64
1320 V. R. GALLAGHER	PLUMFIELD U	AUX VASES	13,24,25-78-1E1 18-78-2E	232	4298	9.5	1911	182	2063
ZENITH E, WAYNE									
*4090 NAPCO	DURKEE	SPAR MTN	4-1N-6E		800		160		800
ZENITH N, WAYNE									
*4150 T. W. GEORGE EST.	ZENITH N MCGREW	SPAR MTN	21-2N-6E		112		9		130
*4137 MOBIL OIL CORP.	ZENITH N FIELD U	SPAR MTN	21-2N-6E		501		58		206

RESERVOIR STATISTICS (AV. VALUE)										DEVELOPMENT AS OF 12-31-79				INJECTION WATER				REMARKS	
FIELD, COUNTY		PERM	OIL	DATE	DATE	NO. OF	SOURCE	TYPE											
PROJ. NO.	DEPTH (FT)	NET (FT)	PUR (%)	(MO)	GRAV (API)	FIRST INJ.	ABD.	ACRES UNDER INJ.	SOBAND	GR	GRAVEL	(F)	FRESH	(B)	BRINE	(M)	MIXED	(S)	SMALLOW
WHITTINGTON, FRANKLIN																			
1334		2300	10.0			08-71		3	6	90				PRODUCED (B)					*EST 1979
		2500	8.0					3	6	90									
WHITTINGTON W, FRANKLIN																			
*1344		2740	11.0			03-62	07-71	1	5	70				PRODUCED (B)					*ESTIMATED
*1312		2675	10.0	13.0	13	38.0	02-61	05-67	7	8	170			PENN SD, PROO (B)					
WILBERTON, FAYETTE																			
1246		3250	25.0			10-65		8	37	1000				WENOIST, PROO (B)					*EST +INCL PRIM PROO
WILLIAMS C, JEFFERSON																			
2019		2555	11.0	17.6	50	37.0	10-64		2	3	119			PENN SD, PROO (B)					*PARTIAL WF SINCE 1-53 DATA SINCE 10-64; *ESTIMATED
2028		2500	7.0				06-67		1	1	20			PRODUCED (B)					*ESTIMATED
2033		2580	20.0				5-60		1	4	40			PRODUCED (B)					*EST, +INCL, PRIM, SINCE 1960
2032		2525	10.0				7-66		1	1	20								*EST, +INCL, PRIM, SINCE 66
		2596	10.0						1	4	50								
WOBURN C, BOND																			
3		2260	20.0			35.5	11-67		1	2	40			PRODUCED (B)					*TEMP, ASD 1972-75; +INJ OIBC
4		1006	14.0				09-51	08-56	1	4	30			PRODUCED (B)					
WOODLAWN, JEFFERSON																			
2005		1760	10.0				04-68		3	7	20			PRODUCED (B)					
2024		1950	17.0				01-65		1	3	40			PRODUCED (B)					
*2023		1790	10.0	14.0	225	35.9	03-64	12-65	1	2	40			PRODUCED (B)					*UIBC AS WF, BND ONLY
		1950	27.0						1	2	40								
2034		1965	22.0				11-52		2	5	70			PRODUCED (B)					*EST +INCL PRIM, SINCE 1952
YORK, CLARK, CUMBERLAND																			
* 706		556	11.0	17.8	80	33.8	06-61	12-63	1	2	30			PENN SD (B)					
* 703		590	10.0	21.9	231	30.3	10-50	12-56	3	7	15			PRODUCED (B)					
ZEIGLER, FRANKLIN																			
1316		2620	12.0	21.5	75	38.9	10-68		1	2	40			PENN SAND, PROO, (B)					*ADJ. BY OP. +INCL. PRIM, SINCE 68
1320		2650	15.0	21.5	75	38.9	02-65		6	6	360			PENN SD, PROO (B)					*SINCE POUL DISCOVERY 7-12-63 +ADJUSTED BY OPERATOR
ZENITH E, WAYNE																			
*4090		3180	8.0				02-67	12-72	2	10	220			PRODUCED (B)					*EST. +INCL PRIM 1966-72
ZENITH N, WAYNE																			
*4150		3100	15.0	14.0		38.0	08-68	12-70	2	5	90			PENN SD (B)					
*4137		3100	12.9	15.3		38.0	03-59	02-68	2	4	140			CYP, PROO (B)					

TABLE 12. Illinois Waterfloods for 1979 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 1979**	Cumulative 12-31-79**	Total 1979**	Cumulative 12-31-79**	Total 1979**	Cumulative 12-31-79**
Bond	4	3	19	27	360	570	43	2,532	4.5	204	42	1,598
Christian	8	0	70	148	2,640	4,700	4,542	55,150	155.3	5,611	3,354	28,463
Clark	7	21	593	583	4,999	12,577	873	202,338	46.9	9,591	428	81,759
Clay	49	42	392	655	21,468	23,268	8,823	288,859	442.5	28,008	7,722	430,240
Clinton	15 [†]	6	197	265	7,284	7,550	2,908	90,441	146.3	17,552	2,764	158,601
Coles	11	15	199	265	5,755	5,945	460	75,584	41.2	6,021	460	39,180
Crawford	44	48	1,479	1,856	23,844	29,518	21,161	1,031,513	649.2	57,554	16,409	562,491
Cumberland	5	3	371	477	2,448	2,479	2,127	113,940	90.5	13,996	2,530	30,194
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	485	17,211	71.0	1,609	485	17,011
Edwards	25 [†]	16	140	279	7,141	7,815	3,479	123,162	165.8	14,502	2,997	75,920
Effingham	18	4	85	168	4,525	4,923	3,017	75,272	204.6	8,232	2,185	48,250
Fayette	45	10 ^{††}	825	1,094	40,028	40,869	40,130	678,826	1,545.4	190,667	44,997	1,060,567
Franklin	25	19	202	326	9,763	10,654	3,479	292,049	210.5	31,664	3,145	202,592
Gallatin	27	32 ^{††}	348	503	11,368	12,576	3,062	156,873	222.4	22,202	2,392	66,105
Hamilton	29	48	524	716	27,326	27,961	5,332	492,118	222.2	37,648	5,766	314,159
Jasper	13	18	88	221	10,907	11,480	4,019	108,070	249.5	8,358	4,639	57,525
Jefferson	24 [†]	13	136	262	10,140	10,493	4,837	214,768	268.5	27,149	3,880	349,554
Lawrence	66	27	1,699	1,945	29,488	31,797	41,110	1,038,270	1,836.0	106,069	36,775	740,784
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	73	1,722	2,544	1,063	19,432	38.6	1,181	908	13,287
Marion	26	14	452	615	32,897	41,097	97,426	2,230,470	1,954.7	132,111	87,470	1,635,127
Montgomery	0	1	2	2	20	40	0	38	0.0	6	0	15
Perry	2	0	4	8	240	320	115	3,467	5.3	168	115	2,913
Richland	23	26	187	372	16,740	16,810	8,417	279,792	260.1	16,870	8,434	225,418
Saline	16	11	102	181	4,200	4,740	3,185	90,860	132.3	7,981	2,685	40,094
Shelby	3	1	8	12	630	660	228	5,464	17.1	916	228	4,964
Wabash	85	70	618	906	21,678	23,946	7,233	383,046	525.0	42,756	6,236	202,441
Washington	25	2	81	227	4,179	4,226	3,221	100,786	174.5	11,586	3,185	93,011
Wayne	91	61	810	1,179	58,068	62,601	27,353	721,692	680.4	60,179	15,572	377,407
White	147	112	1,748	2,295	54,844	61,379	35,436	1,009,340	1,823.9	104,589	25,519	549,547
Williamson	5	0	11	31	530	680	529	5,213	64.9	1,046	253	1,342
TOTAL	853	631	11,484	15,818	417,352	466,408	334,093	9,919,130	12,249.1	967,658	291,575	7,412,542

* Acreage data are incomplete in a few counties.

** Projects not reporting in 1979 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 1979

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 1979**	Cumulative 12-31-79**	Total 1979**	Cumulative 12-31-79**	Total 1979**	Cumulative 12-31-79**
Aden C	2	2	41	35	3,380	3,940	338	34,643	10.1	1,892	338	10,911
Akin	2	3	11	29	510	510	0	3,543	1.4	508	0	767
Albion C	20	10	111	213	5,150	5,714	3,301	117,754	109.6	13,256	2,640	70,123
Albion East	1	0	7	16	420	420	142	1,171	42.2	349	142	1,132
Allendale	18	21	140	193	2,963	3,403	931	93,515	59.1	7,538	630	34,779
Ashley	1	0	4	14	180	180	145	4,105	8.5	264	145	4,105
Ashley E	1	0	2	4	60	60	25	905	1.3	56	25	905
Assumption C	5	0	26	50	1,670	1,930	1,350	42,063	39.5	5,003	942	20,975
Barnhill	2	5	36	52	900	1,050	0	16,477	2.4	2,020	13	3,571
Bartelso	1	2	22	27	320	320	50	6,849	3.1	1,153	50	4,828
Beaucoup	1	0	1	3	280	367	95	1,431	0.9	18	20	717
Beaucoup S	2	0	8	11	257	257	230	10,559	6.8	481	368	9,198
Beaver Creek	1	1	2	5	60	90	27	484	1.1	42	26	367
Beaver Creek S	2	0	4	15	180	180	100	2,477	7.0	313	100	2,441
Bellair	2	1	106	130	717	747	360	96,086	14.1	2,707	360	43,087
Belle Prairie	1	0	1	8	160	160	60	620	9.3	133	60	560
Beman	1	1	6	9	280	280	61	1,296	1.3	63	61	980
Benton	2	0	40	37	3,390	3,390	1,241	230,158	32.0	21,243	1,162	170,783
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	241	320	50	1,751	3.2	409	50	862
Bone Cap C	2	0	2	12	220	270	120	3,555	8.3	622	117	3,227
Boyd	1	0	7	18	2,133	2,133	240	77,377	8.2	4,336	240	47,199
Brown	1	0	1	2	40	40	7	465	0.3	28	4	233
Browns	3	0	16	19	930	950	147	5,835	20.3	878	111	1,960
Browns E	1	3	27	32	673	1,010	147	5,314	2.4	1,647	22	1,938
Bungay C	7	5	51	92	2,510	2,640	504	44,724	28.2	4,100	504	29,879
Calloun S	1	0	1	5	80	80	51	327	8.8	164	51	326
Carlyle N	1	0	1	7	80	100	60	1,130	3.6	103	60	553
Carmi	1	0	1	2	60	60	58	458	3.9	84	58	458
Carmi N	1	0	1	4	80	80	20	1,025	2.1	77	20	785
Centerville	1	1	2	2	40	40	14	444	0.5	19	14	188
Centerville E	4	1	98	99	2,160	2,160	515	38,865	23.7	3,667	515	28,873
Central City	1	0	1	5	60	60	25	377	1.3	28	25	377
Centralia	5	2	120	123	4,704	4,824	1,606	47,256	68.3	12,313	1,537	127,951
Clay City C	102	55	774	1,307	65,108	68,565	35,137	829,090	1,092.4	63,303	24,056	512,591
Coil	3	0	6	12	400	400	240	6,809	43.3	1,377	228	3,378
Coil W	1	2	9	13	285	310	84	2,718	8.1	298	53	1,280
Concord C	3	12	58	89	1,733	1,970	132	25,084	8.9	2,577	98	14,208
Concord E C	1	2	8	10	190	190	30	1,460	1.6	118	30	1,267
Cordes	2	0	21	29	1,115	1,115	266	33,503	32.9	6,656	549	36,959
Corinth	1	0	1	3	90	180	51	264	8.7	84	0	0
Dale C	19	36	417	576	21,616	21,831	4,525	406,038	168.3	28,589	5,005	258,497
Deering City	1	0	1	4	50	50	15	537	0.7	121	15	457
Divide C	5	1	38	53	1,535	1,535	1,886	37,485	34.6	2,027	1,160	227,365
Dubois C	5	1	15	49	680	680	215	4,230	14.9	418	215	3,571
Dudley	7	0	12	50	480	460	485	5,211	71.0	1,009	485	5,011
Edinburg W	1	0	1	10	230	230	2	1,061	2.1	157	2	693
Eldorado C	6	4	42	74	2,120	2,290	2,297	56,914	78.9	4,651	1,802	24,967
Energy	1	0	1	9	130	130	250	1,397	7.8	91	250	1,298
Exchange N C	1	0	4	9	280	280	270	3,186	4.3	474	86	1,124
Exchange W	1	0	2	7	150	150	72	1,079	8.3	179	84	425
Frogtown N	1	0	3	8	140	140	0	0	8.1	88	0	0
Gard's Point	2	0	2	11	220	260	80	1,535	7.6	121	80	1,300
Cermantown E	1	0	2	11	300	300	125	4,724	8.7	1,229	125	4,724
Coldengate C	5	13	130	127	4,689	5,010	380	35,796	28.5	3,043	380	14,920
Coldengate N C	2	1	6	7	140	140	45	1,352	2.3	172	25	660
Half Moon	2	0	7	13	1,110	1,360	66	13,011	5.3	942	94	5,563
Harco	2	0	8	16	310	310	265	4,702	12.6	314	260	2,647
Herald C	16	10	95	153	3,661	4,551	1,220	42,260	114.1	5,185	1,055	18,858
Hill E	2	1	5	27	380	380	34	8,445	2.4	508	34	6,360
Hord	1	0	1	2	50	70	7	196	1.4	39	7	130
Ingraham	1	1	10	22	437	692	17	2,729	4.8	848	2	1,553
Inman E C	5	7	137	184	4,380	4,515	335	63,923	29.4	10,027	330	20,987
Inman W C	12	9	111	141	2,729	2,950	1,002	32,688	69.5	3,801	858	17,575
Iola C	9	3	81	122	3,330	3,450	2,955	66,748	138.5	4,004	2,088	44,029

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 hhl)	
			Water input	Producers	Subject to injection	Total in production	Total 1979**	Cumulative 12-31-79**	Total 1979**	Cumulative 12-31-79**	Total 1979**	Cumulative 12-31-79**
Irvington	7	0	16	77	1,090	1,130	1,312	26,457	73.4	2,171	1,312	25,902
Irvington E	3	0	4	21	250	250	200	3,715	24.4	578	200	3,715
Luka	1	0	1	3	270	270	35	35	5.8	108	35	531
Johnson N	2	4	136	140	764	1,045	325	35,100	16.8	2,530	325	22,963
Johnson S	1	3	92	104	1,343	1,343	150	114,871	8.6	3,293	0	33,226
Johnsonville C	7	3	112	152	12,400	12,660	5,808	187,747	160.9	14,932	5,572	123,155
Johnsonville W	2	2	12	21	520	620	389	7,367	4.9	886	143	3,082
Johnson City E	2	0	8	15	260	320	225	3,508	44.3	717	0	0
Johnson City N	1	0	1	4	50	50	3	44	4.1	154	3	44
Junction E	1	0	4	5	100	100	95	985	4.9	67	95	791
Keensburg S	2	1	9	14	280	450	300	6,948	27.5	606	300	4,081
Kincaid C	1	0	42	86	700	2,500	3,130	11,931	101.2	431	2,350	6,700
King	2	2	8	14	360	360	42	3,652	2.8	403	42	2,164
Lancaster	3	0	28	45	840	1,015	128	8,067	7.4	1,926	123	2,597
Lancaster S	2	0	3	12	150	150	320	1,235	84.3	250	320	878
Lawrence	57	19	1,623	1,846	27,355	29,345	40,596	1,015,471	1,805.1	103,360	36,281	727,444
Lawrence W	1	1	12	19	447	447	30	1,501	1.4	208	30	595
Lexington	1	0	2	1	50	280	66	2,592	1.3	66	66	760
Lillyville	1	0	2	2	160	160	143	2,599	5.5	305	70	891
Livingston S	3	0	4	25	310	310	131	2,469	10.8	242	110	1,514
Louden	38	9	802	985	37,785	38,136	38,273	629,293	1,436.1	186,482	43,007	17,343
Main C	42	47	1,373	1,726	23,127	28,771	20,801	935,427	635.1	54,847	16,049	519,404
Maple Grove C	2	3	13	30	720	870	71	2,825	7.9	440	57	2,111
Marine	1	0	3	7	240	964	300	2,754	5.1	41	300	2,686
Mason N	1	0	3	3	130	130	96	2,553	2.0	179	96	2,589
Mattoon	10	9	140	204	4,575	4,615	430	64,378	39.6	5,300	430	32,703
Mattoon N	1	0	5	8	160	160	30	1,670	1.6	166	30	1,530
Maunie N C	3	8	48	77	1,740	2,510	62	17,470	14.5	2,989	62	9,891
Maunie South C	2	4	69	64	1,444	1,450	320	25,787	26.4	3,276	322	17,742
Miletus	1	0	1	1	20	20	25	319	1.4	18	25	314
Mill Shoals	9	7	64	81	2,402	2,583	511	39,606	23.9	2,885	502	20,878
Mode	1	0	3	5	330	350	40	561	3.3	339	40	571
Montrose	1	0	1	1	40	40	0	103	0.0	11	0	9
Mt. Carmel	16	16	115	165	4,455	4,529	1,613	54,051	89.5	5,883	1,337	30,799
New Harmony C	78	46	856	1,205	27,046	28,799	19,449	525,590	934.8	64,098	12,214	280,408
New Haven C	2	3	22	31	733	950	71	4,214	11.4	1,419	62	1,130
New Memphis	1	0	3	23	580	640	500	8,465	24.9	415	500	6,145
Oakdale N	1	0	4	7	170	170	151	1,646	3.6	347	151	1,505
Oak Point	1	1	20	14	360	480	45	4,198	2.3	214	45	3,885
Odin	1	0	4	9	230	290	189	8,467	0.3	1,323	30	204
Old Ripley	1	0	10	11	110	110	10	1,248	0.3	95	10	425
Olney C	1	8	33	44	2,238	2,418	59	17,916	3.1	1,593	59	11,208
Omaha	5	2	22	55	1,711	2,178	1,280	25,558	89.6	4,930	759	13,837
Omaha W	1	0	1	7	100	100	140	2,418	10.3	166	140	2,213
Orchardville	2	0	4	6	110	230	70	611	7.4	135	50	170
Orient	1	0	1	1	40	40	40	510	3.1	202	23	156
Oskaloosa	1	1	15	10	596	596	15	2,203	0.4	1,354	15	4,170
Pana	1	0	1	2	40	40	60	95	12.5	20	60	95
Passport	3	0	5	6	505	505	45	14,145	5.2	857	45	7,889
Patoka	3	2	73	82	1,713	1,713	504	89,660	22.1	9,076	504	69,816
Patoka E	3	1	11	33	380	580	700	12,599	38.0	944	555	10,392
Patoka S	3	0	36	48	860	980	473	14,645	24.3	1,250	433	10,048
Phillipstown C	24	15	178	306	5,894	7,291	3,297	61,846	397.5	13,208	2,695	36,834
Raccoon Lake	1	1	3	9	190	190	348	6,591	6.8	279	365	7,392
Raleigh	1	2	22	19	440	590	70	7,152	3.6	1,289	70	1,841
Raleigh S	3	1	8	10	310	490	185	5,791	10.8	440	185	3,431
Reservoir	2	0	2	5	100	100	30	940	4.5	156	30	940
Richview	5	0	11	33	427	367	873	17,696	32.8	1,432	491	9,753
Rochester	3	0	17	23	400	480	205	24,211	0.9	1,526	205	8,528
Roland C	16	15	268	331	11,820	12,940	8,132	208,249	258.3	18,520	6,163	105,852
Ruark	2	0	2	3	96	140	219	1,214	11.4	164	205	657
Ruark W	1	2	20	19	420	420	30	6,623	1.2	750	30	4,411
St. Francisville	1	2	5	7	140	150	0	908	0.0	29	0	318
St. Jacob	3	0	13	23	852	950	632	14,001	22.7	867	498	9,087
St. James	7	1	19	78	1,443	1,753	1,780	38,171	94.7	3,365	1,973	34,133

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 1979**	Cumulative 12-31-79**	Total 1979**	Cumulative 12-31-79**	Total 1979**	Cumulative 12-31-79**
Sailor Springs C	39	22	200	355	8,965	9,863	5,713	150,312	293.5	18,296	5,046	348,132
Salem C	8	5	295	389	30,862	38,827	94,515	2,130,711	1,923.2	133,779	84,377	547,294
Schnell	1	0	1	1	103	103	0	858	0.8	42	0	327
Sesser C	5	1	28	63	1,410	1,550	667	13,424	51.1	2,172	667	7,673
Shattuc	1	0	5	10	150	150	140	1,484	7.8	177	140	979
Siggins	3	3	486	576	2,797	2,928	1,984	134,486	85.0	16,390	2,460	50,143
Sorento C	1	1	5	5	120	190	6	343	0.4	16	6	157
Staunton W	1	0	2	7	40	40	0	16	0.0	1	0	2
Stewardson	2	0	4	5	270	280	188	4,893	13.8	573	188	4,383
Storms C	16	6	161	174	3,925	4,370	4,047	188,039	188.0	7,974	4,085	123,408
Sumpter E	5	1	17	44	1,185	1,230	607	14,212	34.9	1,111	592	7,239
Sumpter N	2	0	4	6	220	418	150	2,585	7.7	247	130	1,141
Sumpter S	2	2	13	12	270	310	68	2,355	17.3	297	72	1,045
Tamaroa	1	0	3	4	180	260	65	2,893	3.0	123	65	2,139
Tamaroa S	1	0	1	4	60	60	50	574	2.3	45	50	774
Thackeray	2	0	12	9	540	540	242	16,010	18.7	1,899	149	10,618
Thompsonville N	1	3	21	21	632	726	49	5,918	14.5	999	0	1,040
Tonti	3	1	16	25	660	710	1,933	24,206	68.7	1,145	2,442	32,306
Trumbull C	6	0	18	42	780	830	619	10,585	38.6	972	623	5,545
Valier	1	0	1	1	70	70	115	462	6.8	66	115	462
Walpole	2	3	30	31	2,320	2,380	122	27,983	9.8	3,076	184	15,682
Wamac W	3	0	9	20	300	300	387	9,077	17.8	917	312	6,867
West Frankfort C	4	6	28	58	961	1,371	441	12,305	50.3	1,600	340	6,913
Westfield	2	4	80	78	1,160	7,850	315	6,577	16.6	144	20	163
Westfield E	1	0	4	10	60	60	38	561	2.6	56	38	404
Whittington	5	0	20	37	890	890	662	6,725	34.6	522	624	4,889
Wilberton	1	0	8	37	1,000	1,180	77	12,253	17.0	944	77	9,542
Williams C	4	0	7	14	269	322	103	4,072	9.1	734	103	3,290
Woburn C	1	1	2	6	70	180	0	457	2.7	51	0	649
Woodlawn	3	1	8	19	210	270	431	5,706	23.1	839	406	5,358
Zeigler	2	0	7	8	420	420	249	4,583	16.0	2,166	199	2,127

* 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, 1949-1979

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 subjected to injection (bbl)	Cumulative injected water/produced oil
		Annual	Cumulative*	Annual	Cumulative*	Annual	Cumulative*			Inj.	Prod.	Subjected to inj.	Total			
1949	33	20,612	50,983	2,511	10,313	1,500	5,000	64,501	6.2	946	1,055	8,450	375,985	2.2	1,230	4.9
1950	63	44,053	99,040	3,107	13,826	1,500	6,500	62,028	7.4	1,097	1,197	14,123	397,685	3.6	979	7.2
1951	84	57,147	148,279	6,672	21,890	1,500	8,000	60,244	13.4	1,620	5,230	17,646	412,050	4.3	1,241	6.8
1952	131	72,951	221,078	8,752	29,000	2,000	12,000	60,071	17.9	2,160	5,114	31,330	425,025	7.4	926	7.6
1953	167	118,409	335,727	10,086	39,800	2,250	14,600	59,025	20.9	2,849	5,298	37,854	434,100	8.7	1,051	8.4
1954	232	176,012	512,202	15,985	55,687	2,129	17,900	67,000	27.0	3,597	6,686	59,027	500,130	11.8	943	9.2
1955	284	224,579	745,573	24,585	81,131	1,978	19,800	81,131	32.7	4,407	7,163	72,832	521,200	14.0	1,114	9.2
1956	333	271,270	1,014,900	29,600	111,700	1,700	21,500	82,314	38.0	5,307	7,687	92,350	539,315	17.1	1,210	9.1
1957	382	295,750	1,310,000	35,442	147,142	1,750	23,250	76,649	48.5	5,734	7,814	112,000	550,305	20.4	1,316	8.9
1958	443	317,153	1,606,500	40,833	187,338	2,040	25,290	80,779	53.1	6,647	8,567	122,500	562,535	21.8	1,529	8.6
1959	499	345,098	1,954,200	41,360	238,512	2,436	27,720	76,727	57.1	7,327	9,306	136,976	574,625	23.8	1,741	8.1
1960	559	376,563	2,324,200	44,789	283,862	1,750	29,470	77,341	60.2	8,062	9,855	152,823	585,045	26.1	1,857	8.2
1961	658	390,093	2,753,361	50,412	334,716	1,270	30,740	77,478	66.7	8,560	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	2,161	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	68.4	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	1,957	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	888,356	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	9,665,779	12,114.3	928,080	None	34,247	21,793	55.6	11,469	15,709	411,974	807,435	51.0	2,253	10.4

* 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.

