

SELECTED WATER RESOURCES DATA, CLARION RIVER AND REDBANK
CREEK BASINS, NORTHWESTERN PENNSYLVANIA--PART 2

U.S. GEOLOGICAL SURVEY
Water Resources Investigations 79-19



Prepared in cooperation with the
Pennsylvania Department of Environmental Resources

REPORT DOCUMENTATION PAGE		1. REPORT NO.	2.	3. Recipient's Accession No.
4. Title and Subtitle SELECTED WATER RESOURCES DATA, CLARION RIVER AND REDBANK CREEK BASINS, NORTHWESTERN PENNSYLVANIA--PART 2			5. Report Date July 1979	6.
7. Author(s) Theodore F. Buckwalter, Clifford H. Dodge, and George R. Schiner			8. Performing Organization Rept. No. USGS/WRI-79-19	
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division Post Office Box 1107 Harrisburg, Pennsylvania 17108			10. Project/Task/Work Unit No.	
			11. Contract(C) or Grant(G) No. (C) (G)	
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division Post Office Box 1107 Harrisburg, Pennsylvania 17108			13. Type of Report & Period Covered Final	
			14.	
15. Supplementary Notes Prepared in cooperation with the Pennsylvania Department of Environmental Resources				
16. Abstract (Limit: 200 words) This report presents selected basic data collected during a study of the water resources of the Clarion River and Redbank Creek basins in northwestern Pennsylvania. Hydrologic information including data on aquifers, water levels, and yields is presented for 1,304 wells. Records for 51 springs are also given. The report contains 83 chemical analyses of water samples collected from 30 stream sites and 300 analyses of water from 196 wells and 43 springs. Also included are 103 trace-element analyses. Monthly and annual means of ground-water levels for six observation wells are tabulated. Benthic invertebrate data from 136 stream sites are listed. Locations of data-collection sites are shown on 50 page-size reductions of 7½-minute topographic quadrangle maps.				
17. Document Analysis a. Descriptors *Water quality, *Water wells, *Aquifers, *Trace metals, *Aquatic invertebrates, Hydrologic data, Surface water, Ground water, Chemical analyses, Water levels, Well yields, Specific capacity, Springs b. Identifiers/Open-Ended Terms Clarion River, Redbank Creek, Clarion County, Elk County, Jefferson County, Northwestern Pennsylvania, Ohio River basin c. COSATI Field/Group				
18. Availability Statement No restriction on distribution		19. Security Class (This Report) UNCLASSIFIED		21. No. of Pages 134
		20. Security Class (This Page) UNCLASSIFIED		22. Price

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Pennsylvania Department of Environmental Resources

July 1979

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

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1000 Liberty Avenue
Pittsburgh, Pennsylvania 15222

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GLOSSARY

Acidity.--The capacity of a water for neutralizing a basic solution. Acidity, as used in this report, is primarily caused by the presence of hydrogen ions produced by hydrolysis of the salts of strong acids and weak bases.

Alkalinity.--The capacity of a water for neutralizing an acid solution. Alkalinity in natural water is caused primarily by the presence of carbonates and bicarbonates.

Annual mean.--For ground water, the arithmetic average of the monthly means for a given year.

Aquifer.--A formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Benthic region.-- The bottom of a body of water.

Hardness.--A physical-chemical characteristic of water that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of calcium and magnesium and is expressed as equivalent calcium carbonate (CaCO_3).

Invertebrate.--An animal without a backbone. Common aquatic examples include worms, insects, snails, and crayfish.

Lithology.--The physical characteristics of a rock.

Micrograms per liter ($\mu\text{g/L}$).--A unit for expressing the concentration of chemical constituents in solution. It represents the mass of solute per unit volume of solution. One thousand micrograms per liter are equal to one milligram per liter.

Milligrams per liter (mg/L).--A unit for expressing the concentration of chemical constituents in solution. It represents the mass of solute per unit volume of solution.

Monthly mean.--For ground water, the arithmetic average of the daily-low water levels for a given month.

National Geodetic Vertical Datum of 1929 (NGVD).--A geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

pH.--A measure of the acidity or alkalinity of water. A pH of 7.0 indicates a neutral condition. An acid solution has a pH less than 7.0, and a basic or alkaline solution has a pH more than 7.0.

Specific capacity.-- The yield of a well divided by the drawdown (pumping water level minus static water level) necessary to produce this yield. It is usually expressed as gallons per minute per foot [$(\text{gal/min})/\text{ft}$].

GLOSSARY.--Continued

Specific conductance.--A measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos).

Taxon.--Any classification category of organisms, such as phylum, class, order, family, genus, or species.

Taxonomy.--The division of biology concerned with the classification and naming of organisms.

Trace element.--Elements that typically occur in concentrations of less than 1.0 milligram per liter.

Water year.--The 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends.

CONVERSION FACTORS

Factors used for converting Inch-pound units in this report to International System (SI) units are:

<u>Multiply inch-pound units</u>	<u>By</u>	<u>To obtain SI Units</u>
inches (in.)	2.54	centimeters (cm)
feet (ft)	0.3048	meters (m)
miles (mi)	1.609	kilometers (km)
square miles (mi ²)	2.590	square kilometers (km ²)
cubic feet per second (ft ³ /s)	0.02832	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	0.06309	liters per second (L/s)
gallons per minute per foot [(gal/min)/ft]	0.2070	liters per second per meter [(L/s)/m]
grains per gallon (gr/gal)	17.1	milligrams per liter (mg/L)

Equations for temperature conversion for degrees Celsius (°C) and degrees Fahrenheit (°F):

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$$

$$^{\circ}\text{F} = (9/5^{\circ}\text{C}) + 32$$

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ABSTRACT

This report presents selected basic data collected during a study of the water resources of the Clarion River and Redbank Creek basins in northwestern Pennsylvania. Hydrologic information including data on aquifers, water levels, and yields is presented for 1,304 wells. Records for 51 springs are also given. The report contains 83 chemical analyses of water samples collected from 30 stream sites and 300 analyses of water from 196 wells and 43 springs. Also included are 103 trace-element analyses. Monthly and annual means of ground-water levels for six observation wells are tabulated. Benthic invertebrate data from 136 stream sites are listed. Locations of data-collection sites are shown on 50 page-size reductions of 7½-minute topographic quadrangle maps.

INTRODUCTION

This is the second of two basic data reports compiled from a study of the water resources of the Clarion River and Redbank Creek basins. The first report gives data on stream discharge, surface-water and ground-water quality, and aquatic biology (Koester and Lescinsky, 1976). This report contains additional selected hydrologic data. An interpretative report is in preparation. The reports are intended as planning aids for the development and management of the area's water resources.

This report was prepared by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Resources.

ACKNOWLEDGMENTS

The cooperation of the residents of the Clarion River and Redbank Creek basins and of local, county, state, and federal officials is gratefully acknowledged. The authors are particularly indebted to well owners and well drillers. The cooperation of Rochester and Pittsburgh Coal Co. of Indiana, Pa., and Gwin, Dobson and Foreman, Inc. of Altoona Pa. is appreciated.

LOCATION AND SIZE OF AREA

The area consists of about 1,850 mi² in northwestern Pennsylvania. It covers portions of seven counties. The Clarion and Redbank drainage basins cover 1,280 and 545 mi² respectively. A small area of about 25 mi² lies between the two basins. All drainage is to the Allegheny River.

An index map shows the areal coverage of the 7½-minute topographic maps (figure 1). Page-size copies of these maps are presented in figures 2-51.

THE DATA BASE

Ground Water

Records of wells, springs, and mine drainages are contained in tables 1 and 2. Locations of data-collection sites are shown in figures 2-51. The chemical analyses of ground water given in tables 3 and 4 follow the methods of Brown and others (1970) and Hach (1973). Table 5 presents water-level statistics for six observation wells.

Since 1976, water levels have been published annually by the U.S. Geological Survey in the report entitled "Water Resources Data for Pennsylvania, Volume 3: Ohio River and St. Lawrence River Basins." Observation-well records prior to 1976 are available at the Pennsylvania district office of the U.S. Geological Survey, Water Resources Division, Harrisburg, Pennsylvania.

Surface Water

Surface-water and water-quality data have been collected for decades by the Survey as part of a systematic monitoring program. These data were published annually by the Survey for water years 1961-74 in "Water Resources Data for Pennsylvania, Part 1: Surface Water Records and Part 2: Water Quality Records." Beginning with the 1975 water year and continuing as an annual series, surface-water and water-quality records are published in "Water Resources Data for Pennsylvania, Volume 3: Ohio River and St. Lawrence River Basins."

Table 6 presents 83 chemical analyses of surface water from 30 sites. Locations of the sites are shown in figures 2-51. Sample analysis follows the methods of Brown and others (1970) and Hach (1973). Water-quality samples from September and October 1975 and August 1976 were collected at base flow. Discharges were determined from stage-discharge relationships or from instantaneous measurements.

The station identification numbers assigned to the surface-water data-collection sites conform to the downstream-order numbering system used by the U.S. Geological Survey for stream-gaging stations. The five-digit numbers shown on the maps (fig. 2-51) are abbreviated by deleting the first three digits from the eight-digit downstream-order numbers.

Aquatic Biology

Benthic invertebrate data were collected during 1973 and 1974 at 136 sampling stations. The locations of the stations are shown on figures 2-51. Table 7 lists the common names and the taxonomic classification of the benthic invertebrates collected. The station name, station number, date of collection, and number of individuals per taxon for invertebrate samples are listed in table 8. Taxonomy of aquatic insects follows Merritt and Cummins (1978). Taxonomy of the other invertebrates follows Pennak (1953). The benthic invertebrate survey was performed using qualitative methods described by Hahn, Slack, And Tilley (1977). A discussion of the aquatic biological methods is included in the interpretive report.

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- Merritt, R. W., and Cummins, K. W., eds., 1978, An introduction to the aquatic insects of North America: Dubuque, Iowa, Kendall/Hunt, 441 p.
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- 1976-78, Water resources data for Pennsylvania, Volume 3, Ohio River and St. Lawrence River basins: U.S. Geological Survey Water-Data Reports PA-75-3--PA-77-3: (annual series).

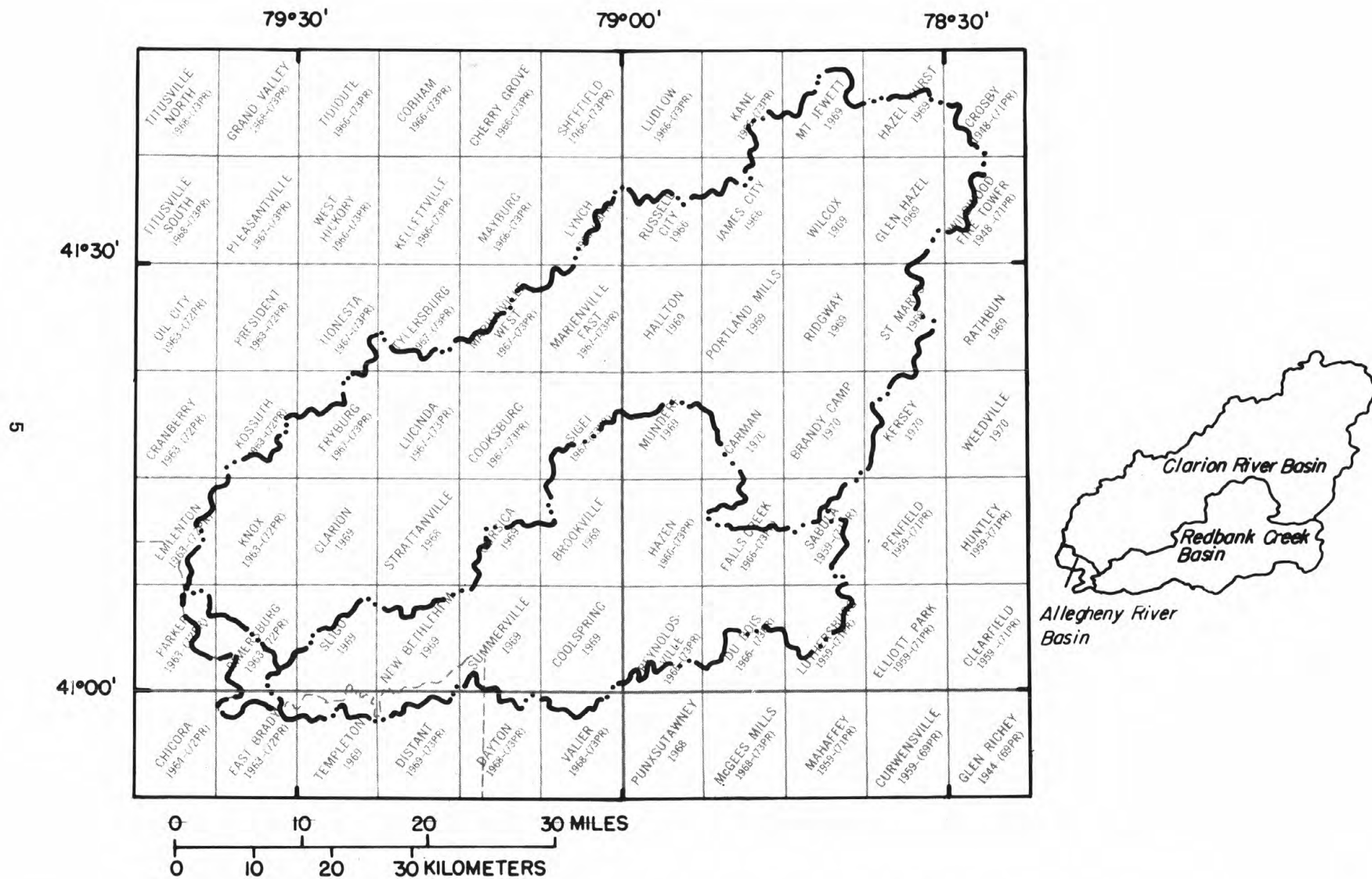












Figure 1. Index map to 7½-minute topographic quadrangles of the study area.

EXPLANATION FOR FIGURES 2-51

-  Continuous-record streamflow gaging station
-  Nonrecording streamflow measuring site
-  Chemical sampling site on stream
-  Biological sampling site on stream
-  Well
-  Well with chemical data in table 3
-  Spring (SP)
-  Spring with chemical data in table 3
-  Mine drainage (MD)
-  Mine drainage with chemical data in table 3
- Basin boundary

Note.--Numbers identify data-collection sites. Many of the symbols are used in combination. Also, many of the sites are very close together and are indicated by a series of numbers such as 57, 58, SP-10.

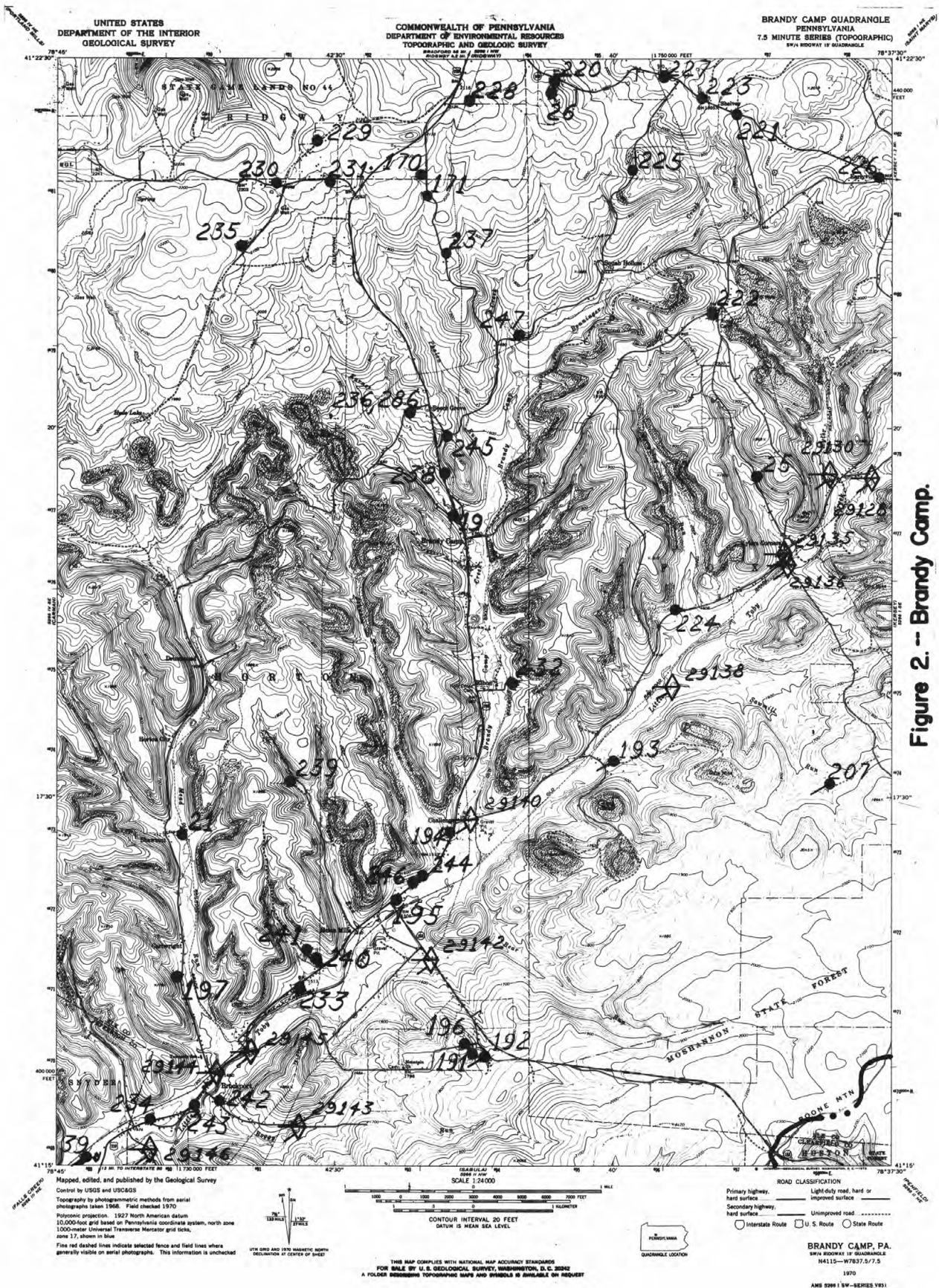
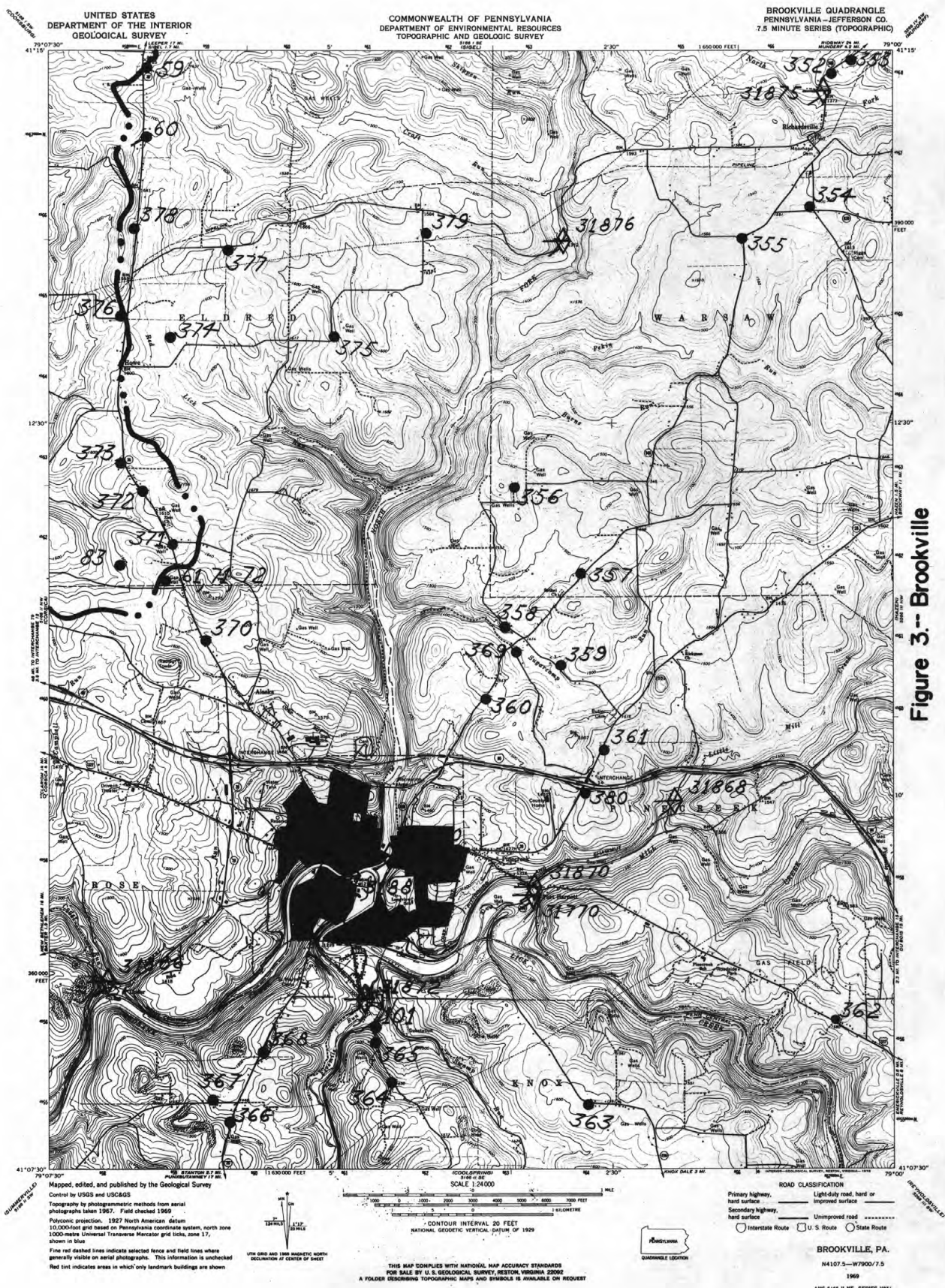


Figure 2. -- Brandy Camp.



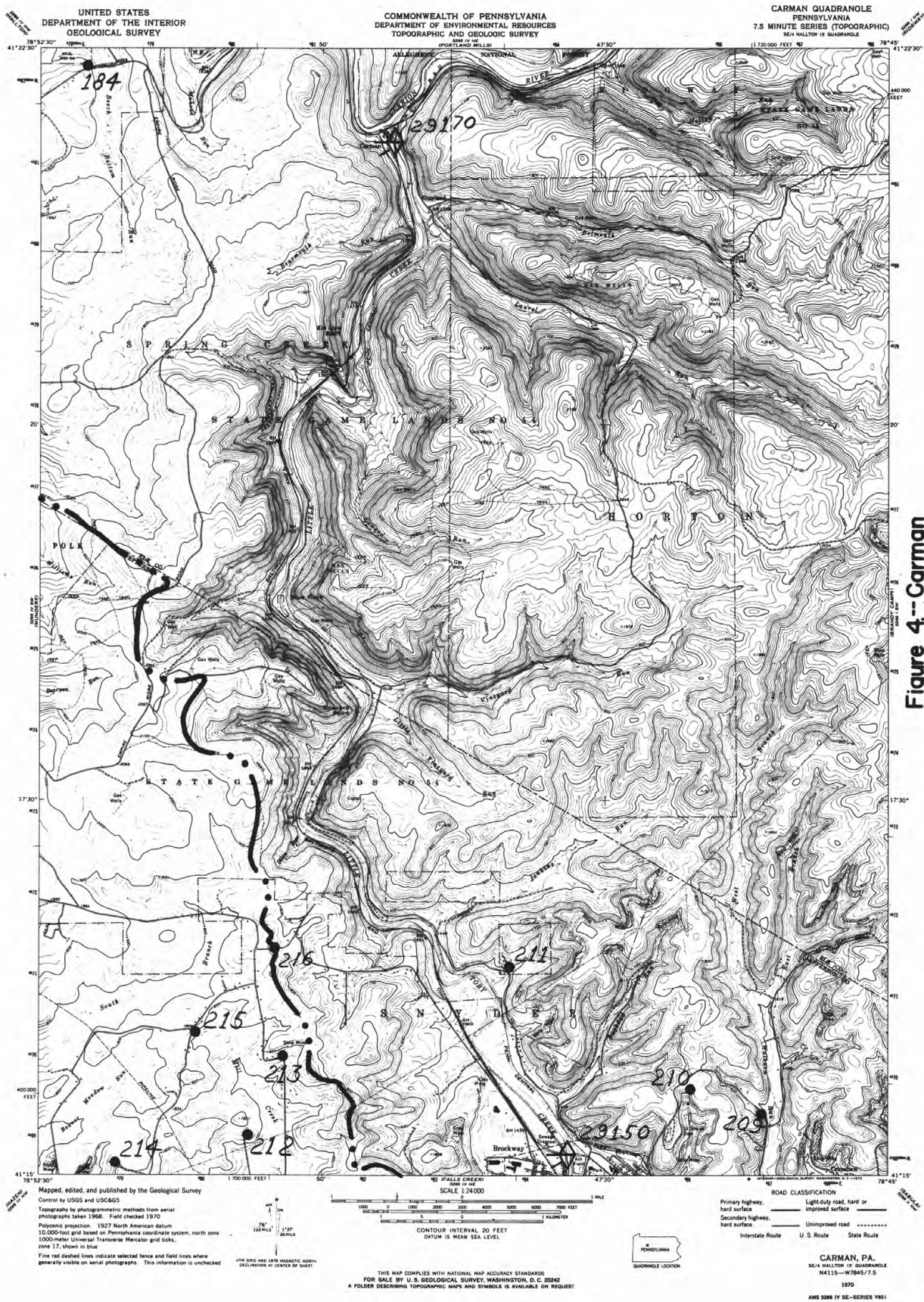
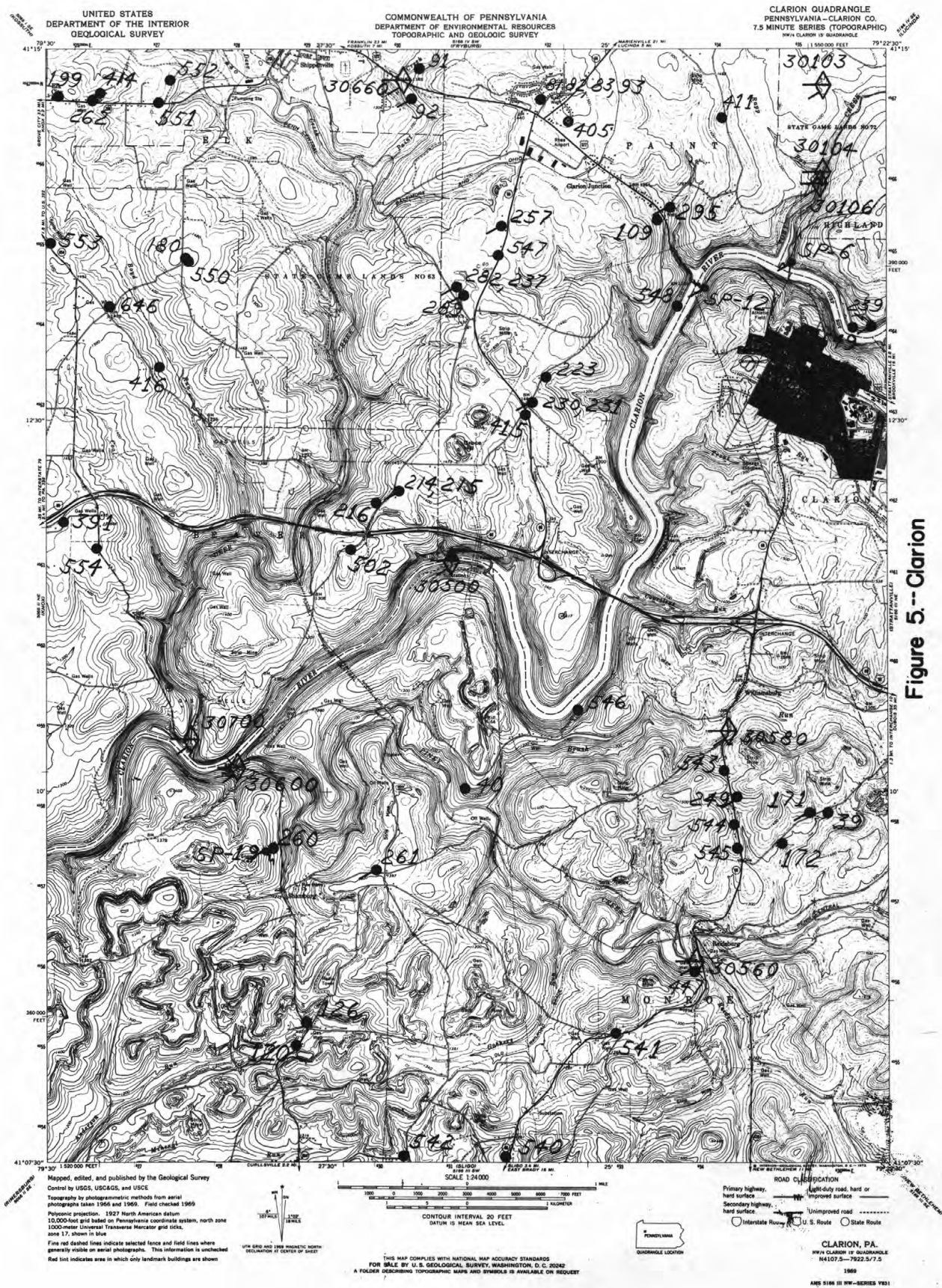


Figure 4-- Carman



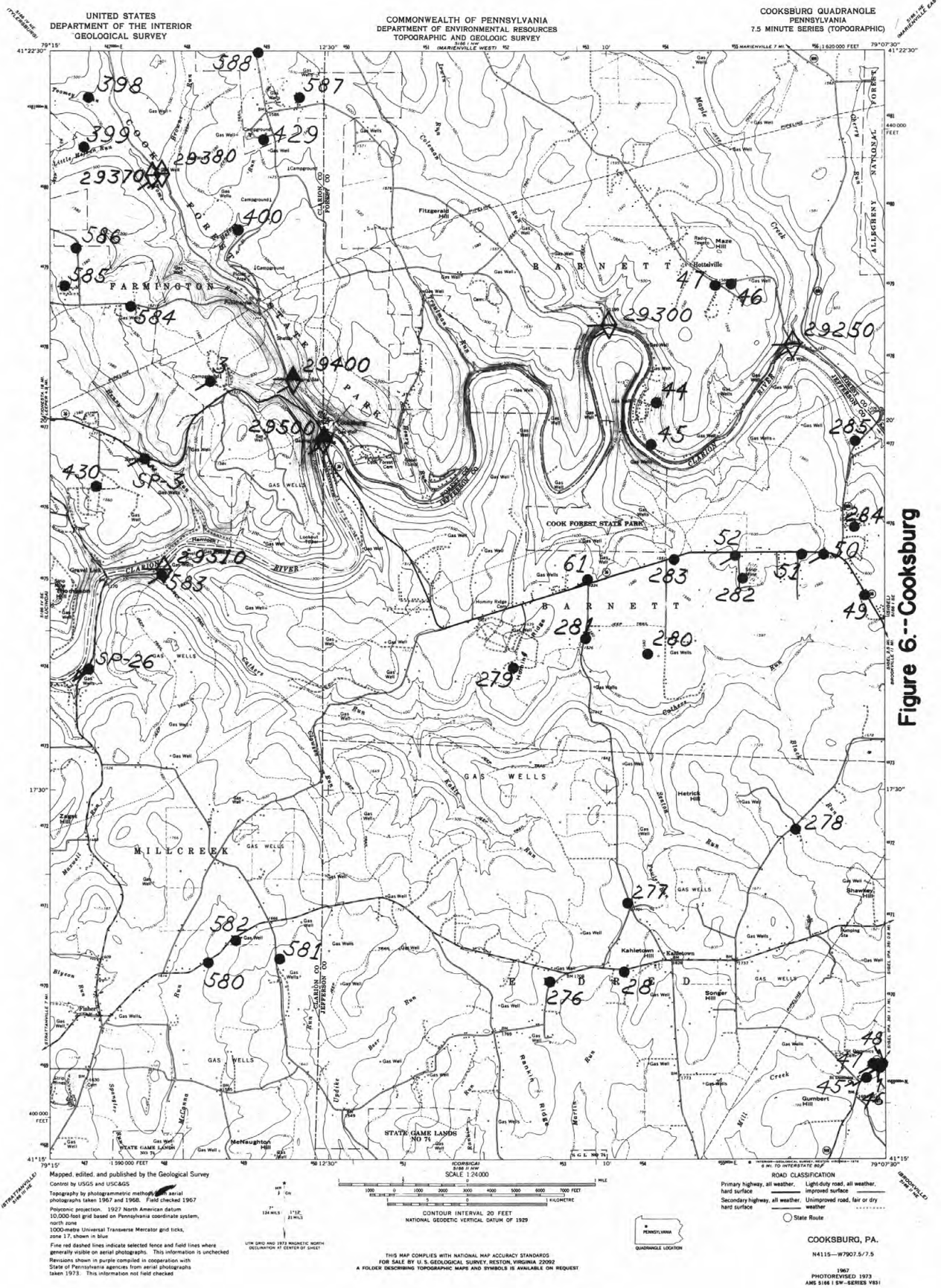


Figure 6.--Cocksburg

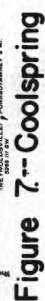


Figure 8.-- Corsica

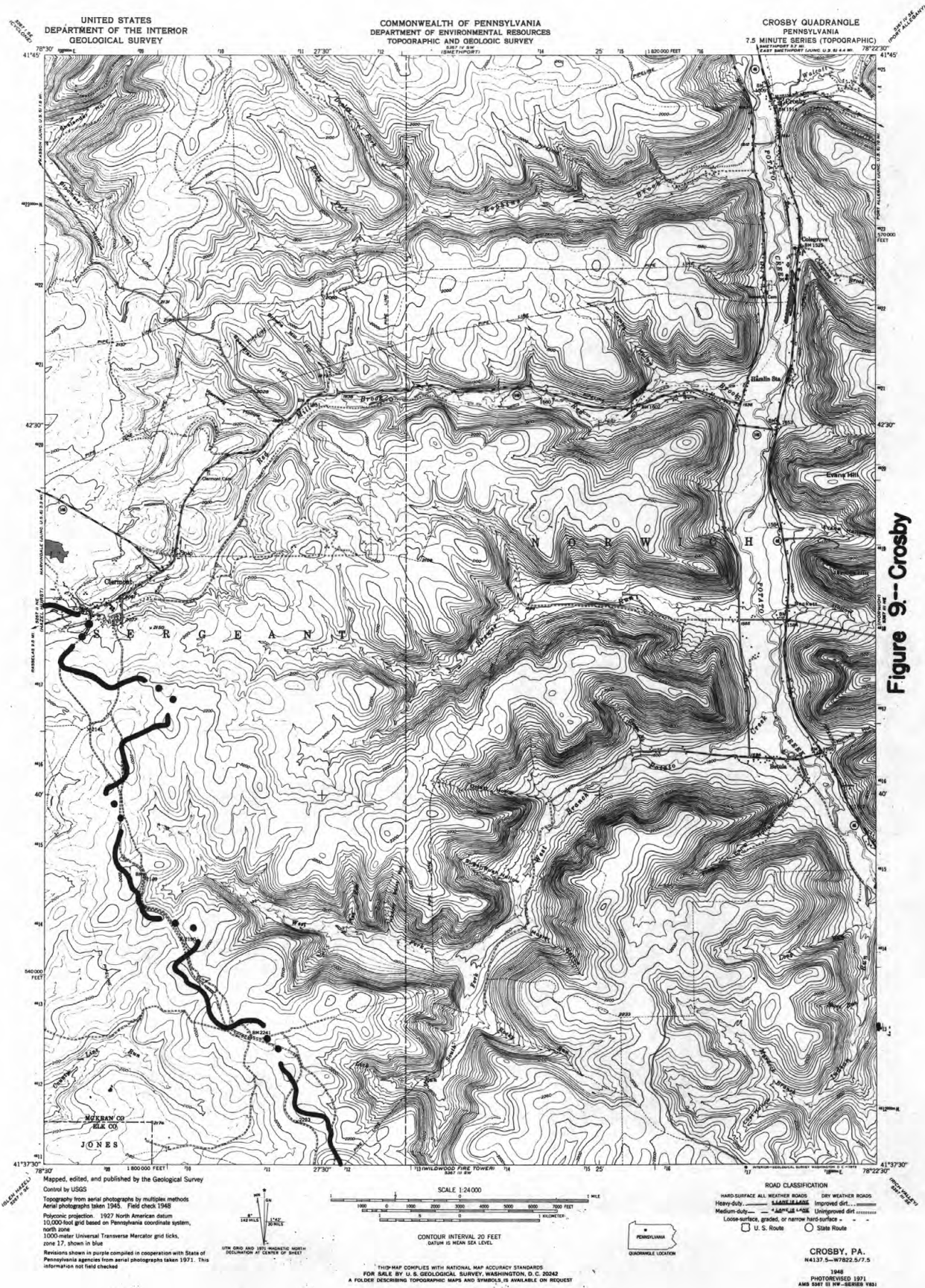


Figure 9--Crosby





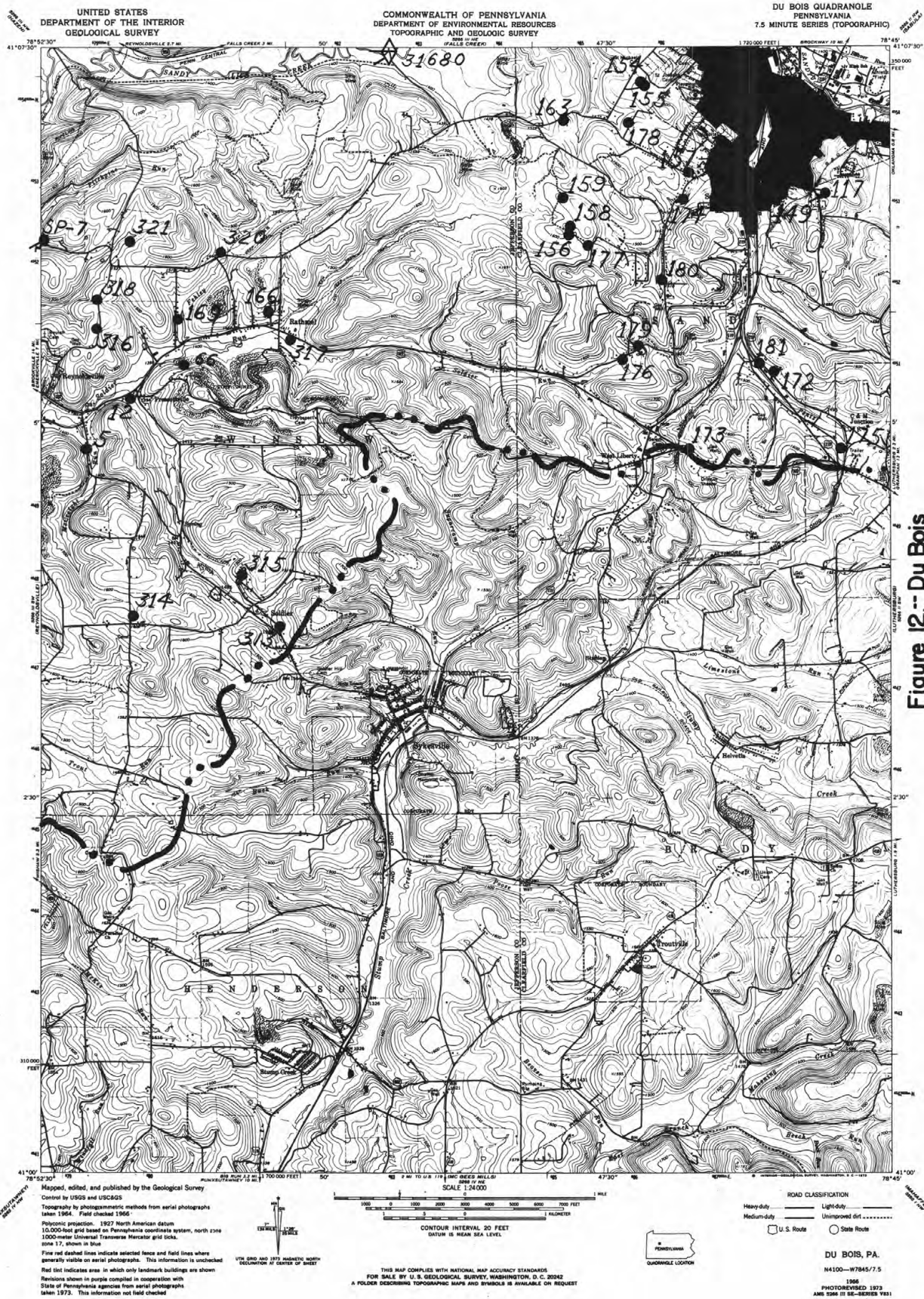


Figure 12.- Du Bois

Figure 13.-East Brady



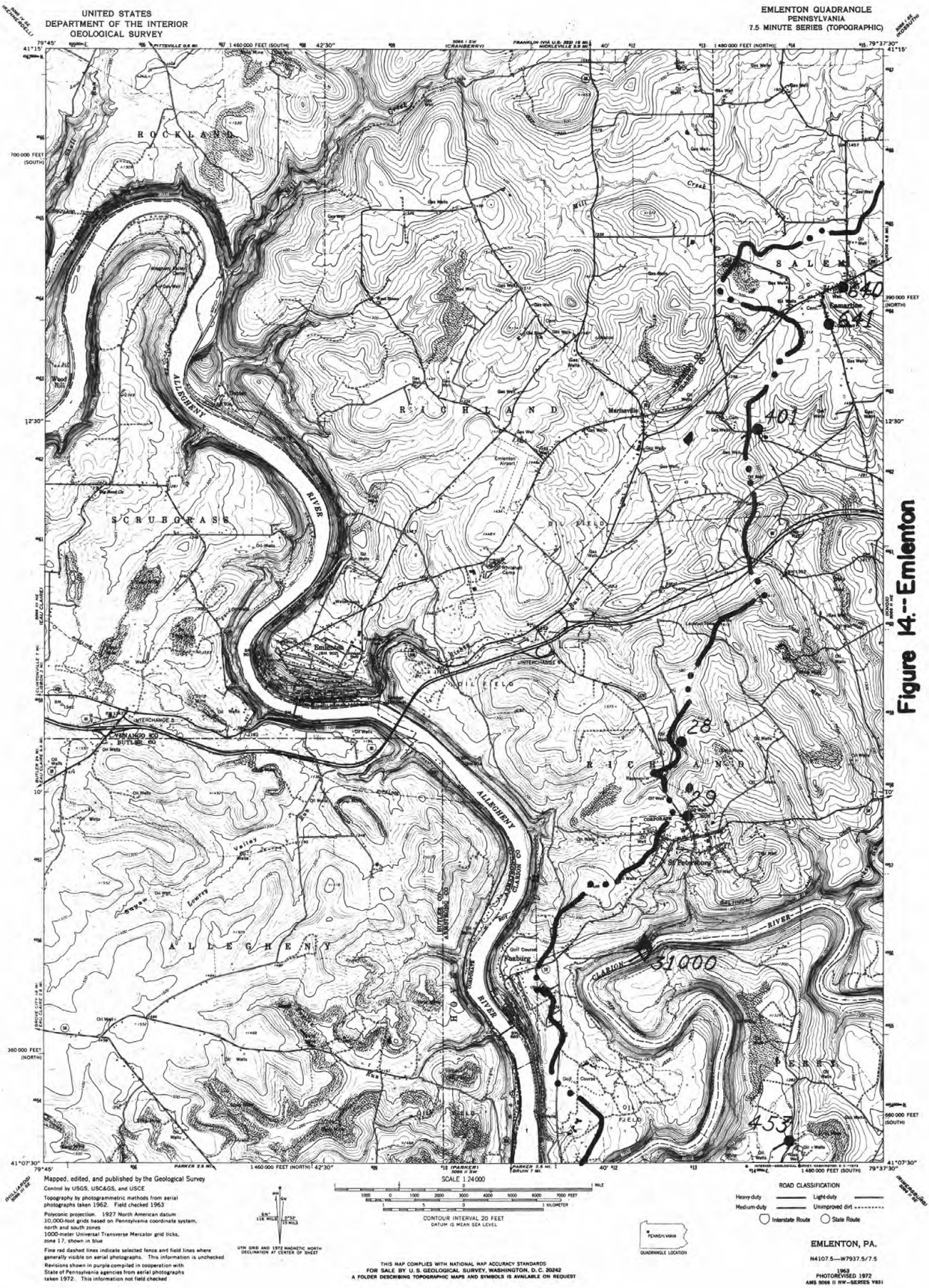


Figure 14--Emlenton

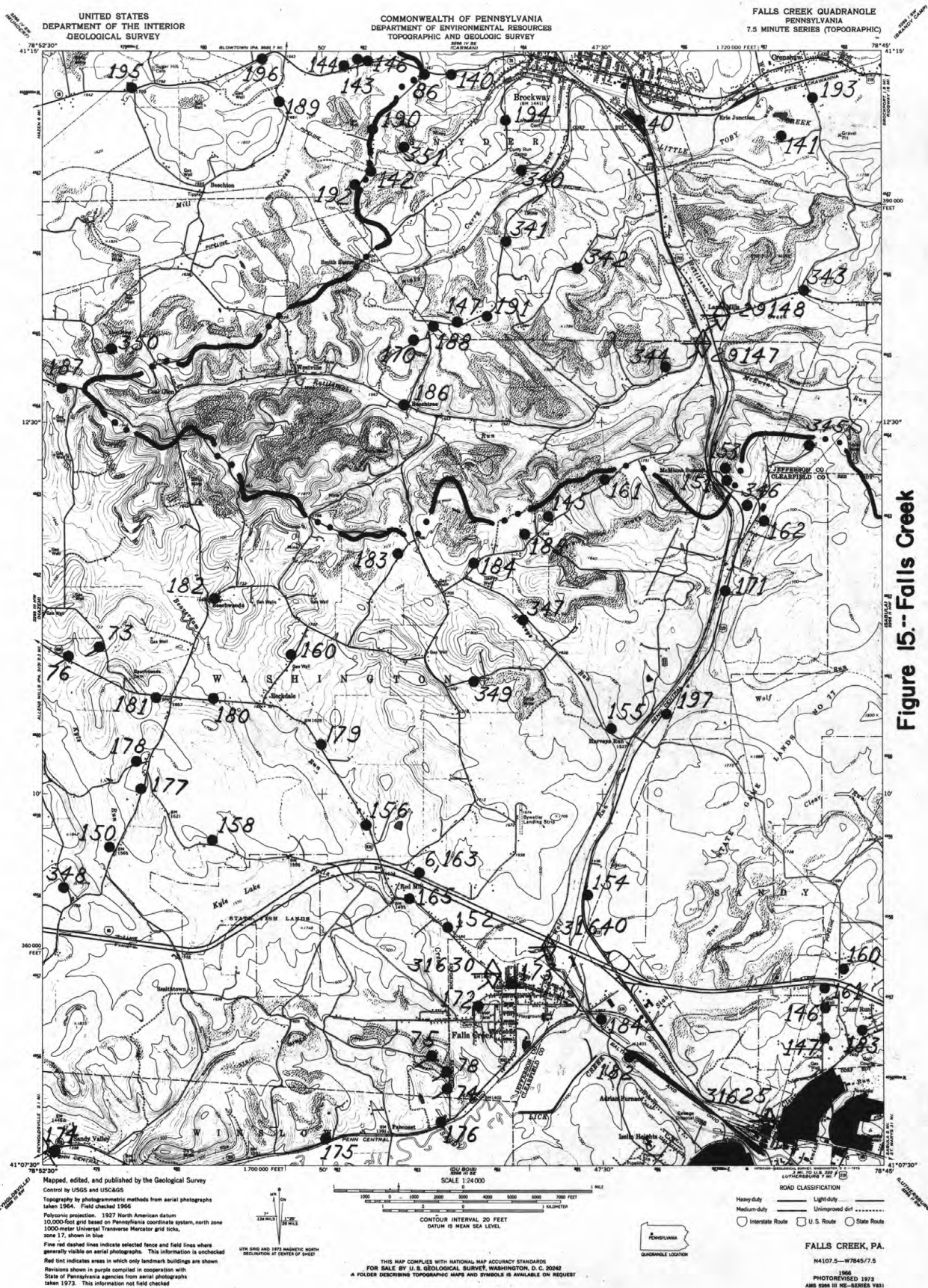


Figure 15--Falls Creek

Mapped, edited, and published by the Geological Survey

Control by USGS and USCGS

Topography by photogrammetric methods from aerial photographs

taken 1964. Field checked 1966

Photographic projection. 1927 North American datum

10,000-foot grid based on Pennsylvania coordinate system, north zone

1000-meter Universal Transverse Mercator grid ticks,

zone 17 shown in blue

Fine red dashed lines indicate selected fence and field lines where

generally visible on aerial photographs. This information is uncheck-

Red line indicates areas in which only landmark buildings are shown.

Revisions shown in purple compiled in cooperation with

State of Pennsylvania agencies from aerial photographs

taken 1975. This information not field checked

NOTE: GRID AND 1975 MAGNETIC NORTH

DECLINATION AT CENTER OF SHEET

SCALE 1:24,000

CONTOUR INTERVAL 20 FEET

DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20042

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Heavy-duty

Medium-duty

Light-duty

Unimproved dirt

Interstate Route

U.S. Route

State Route

FALLS CREEK, PA.

N4107.5-W7845.7.5

1966

PHOTOREVISED 1975

AMS 1006 IN WE-SERIES 1981



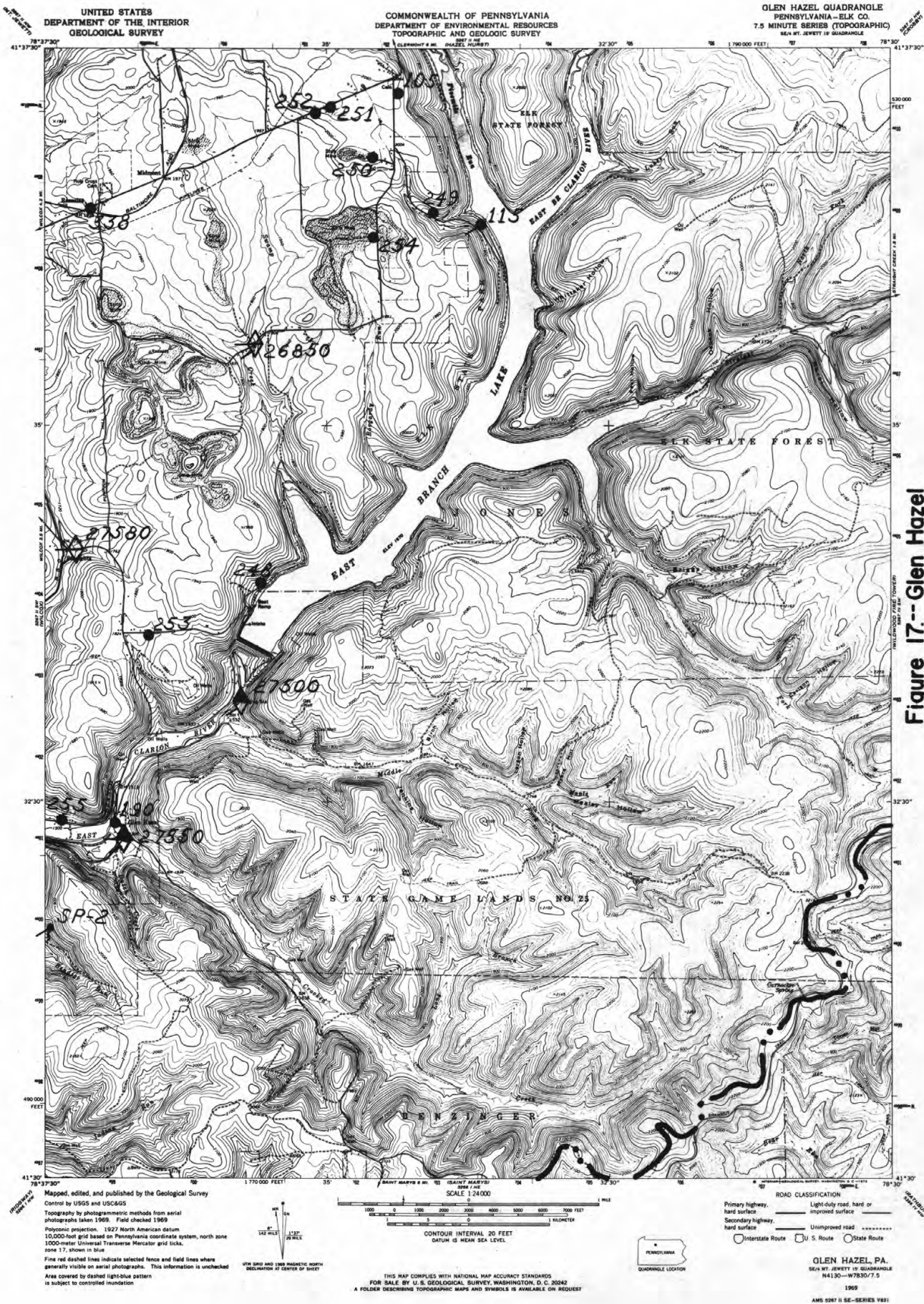


Figure 17.--Glen Hazel

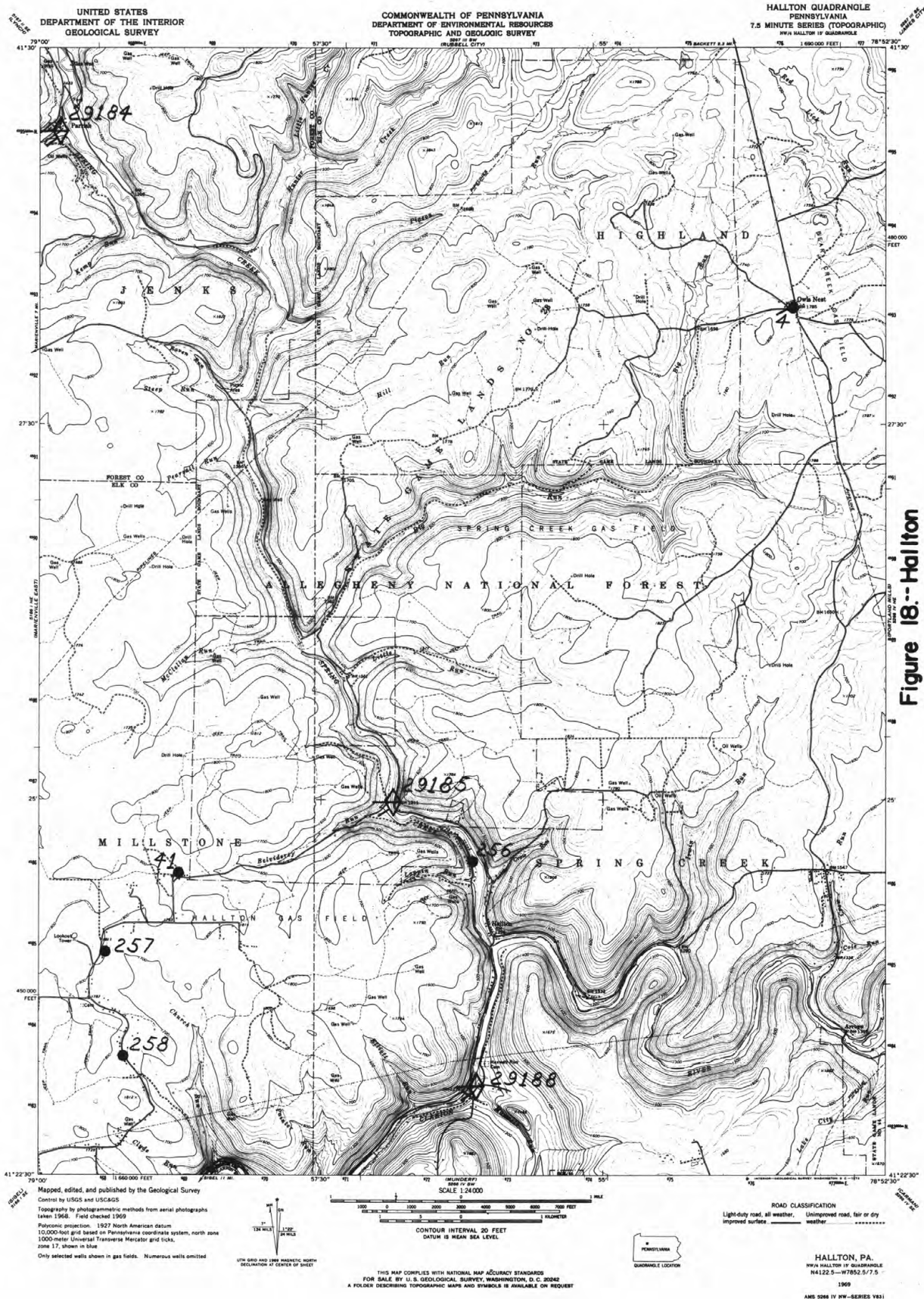


Figure 18.-Hallton

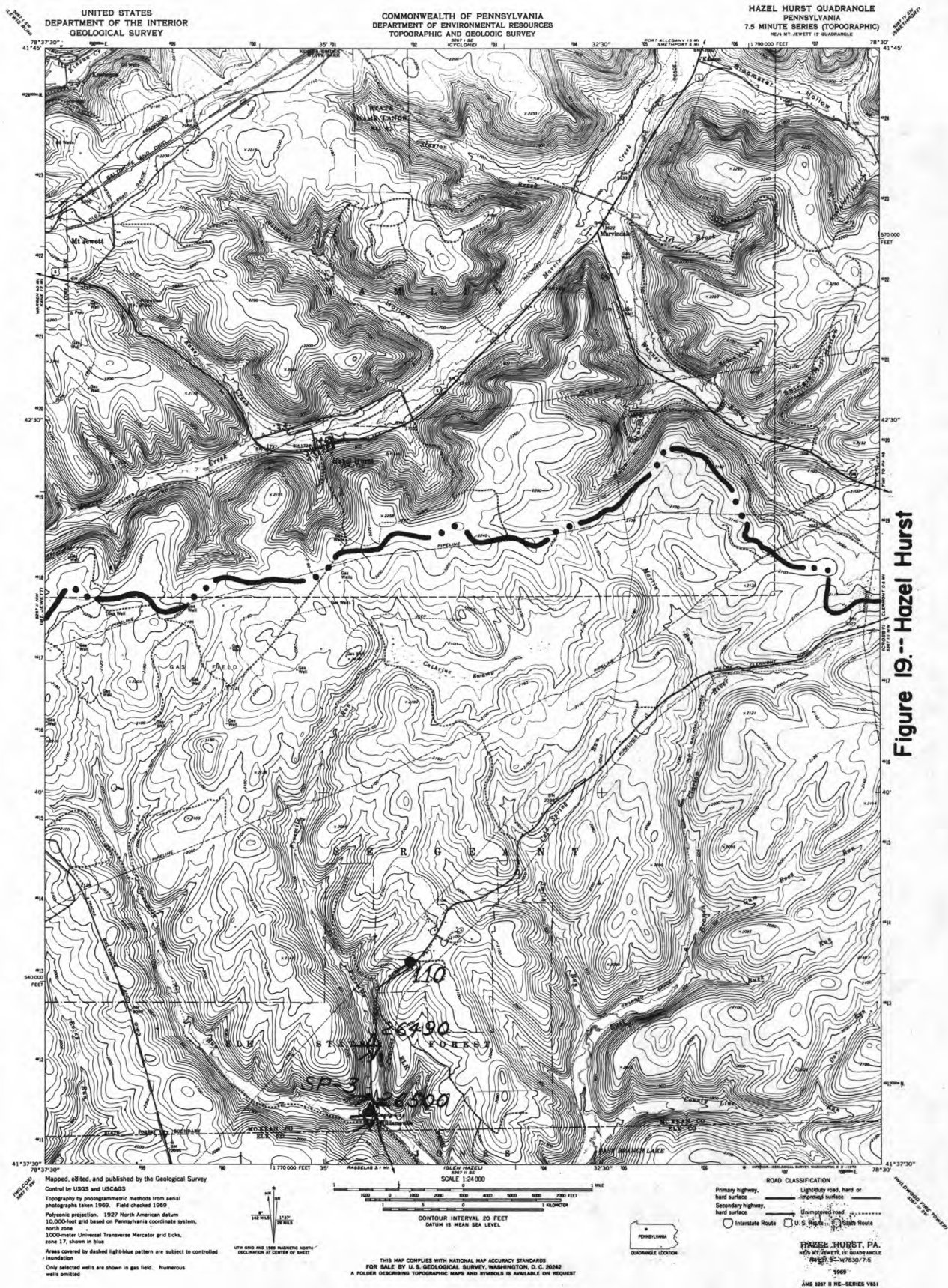


Figure 19--Hazel Hurst

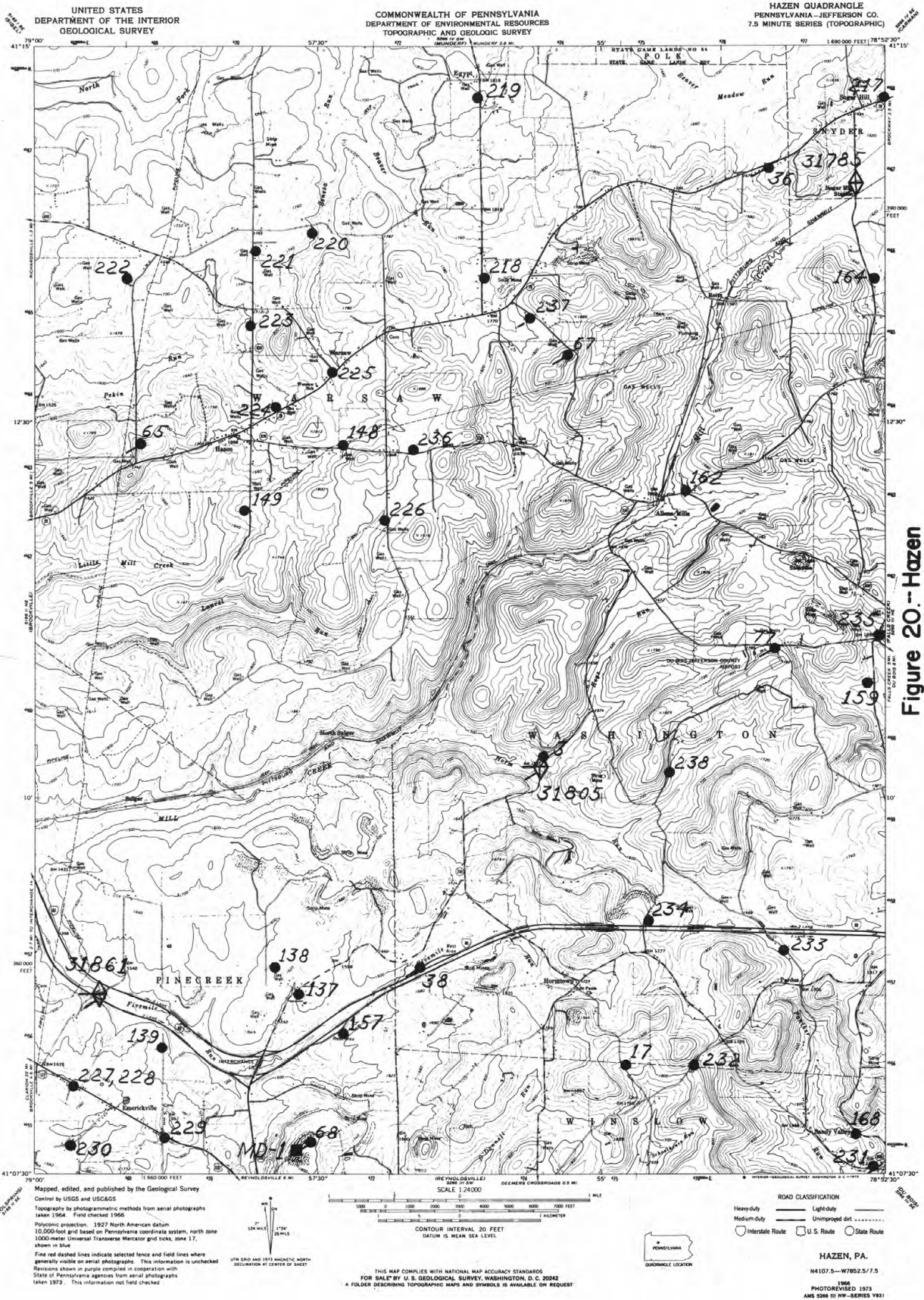


Figure 20.- Hazen

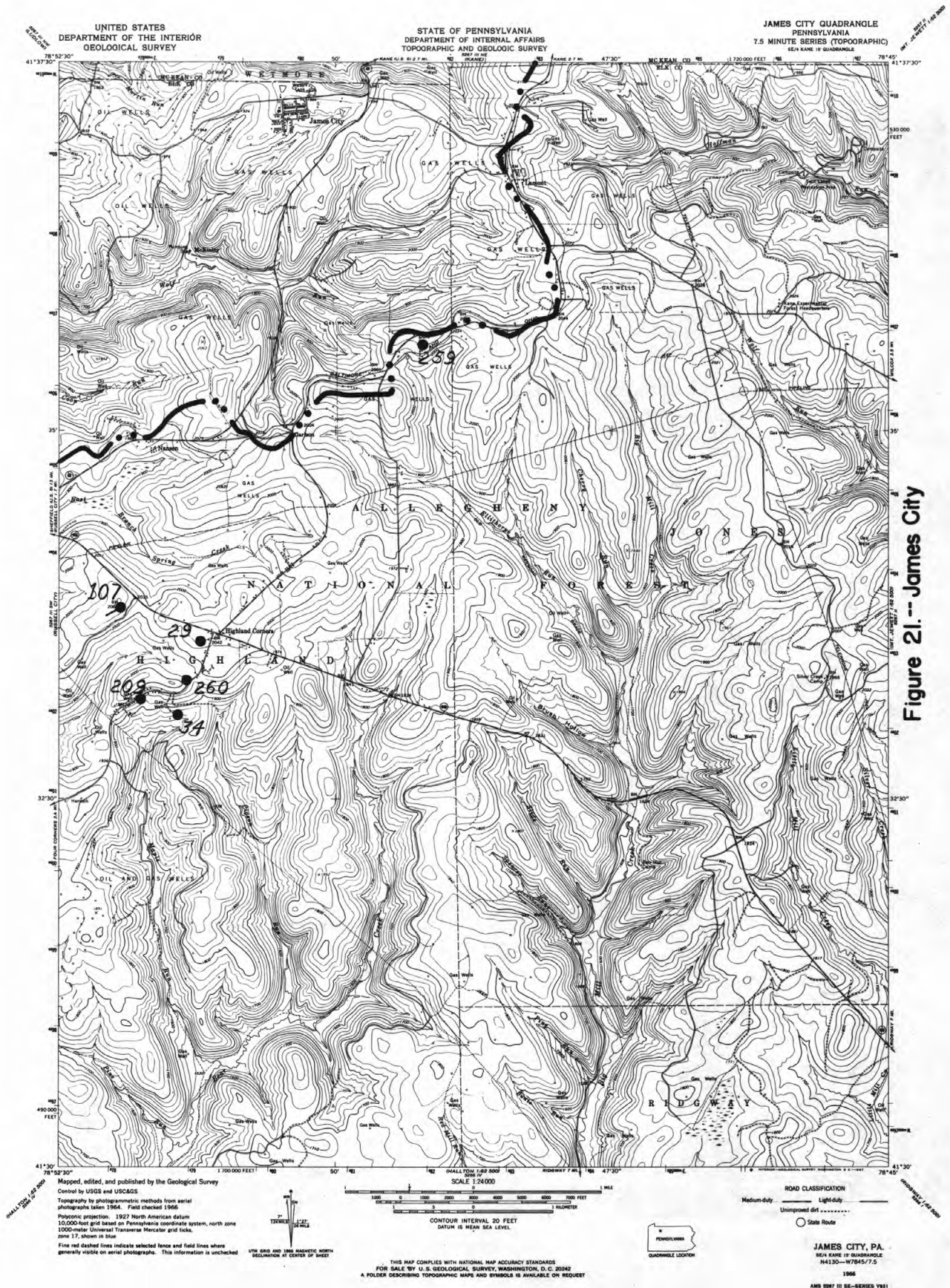


Figure 21.-- James City

Figure 22--Kane



Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs
taken 1964. Field checked 1966.
Polyconic projection, 1927 North American datum
11,000-foot grid based on Pennsylvania coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 17,
shown in blue.
Fine red dashed lines indicate selected fence and field lines where
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Red line indicates area in which only landmark buildings are shown.
Revisions shown in purple compiled in cooperation with
State of Pennsylvania agencies from aerial photographs
taken 1979. This information not field checked.

SCALE 1:24,000
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Heavy-duty Light-duty
Medium-duty Unimproved dirt
U.S. Route State Route
KANE, PA.
N4137.5—W7845.7.5
1966
PHOTOENRICHED 1979
AMS 5267 IN HE-SERIES 7401

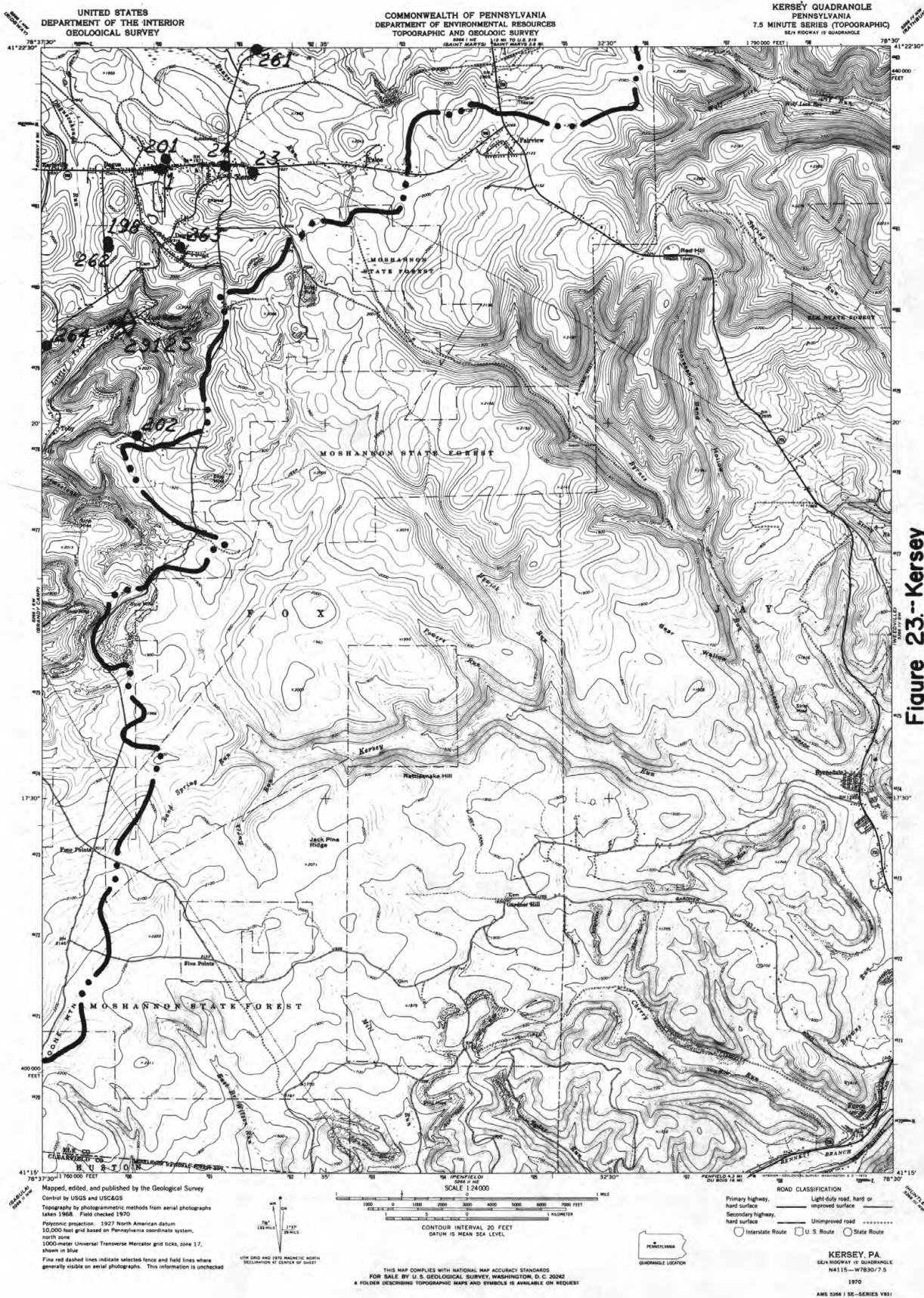


Figure 23.-Kersey

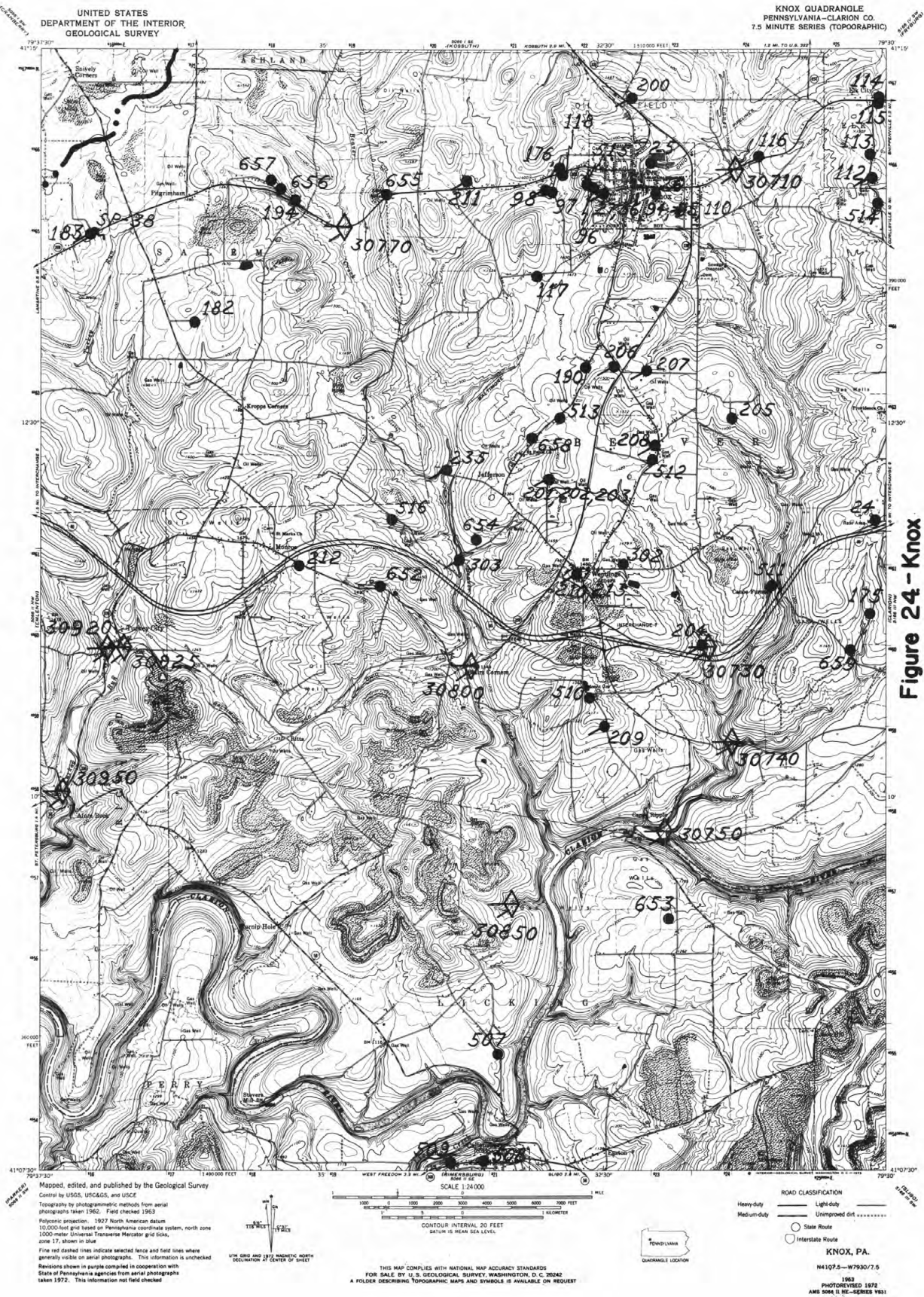


Figure 24 - Knox

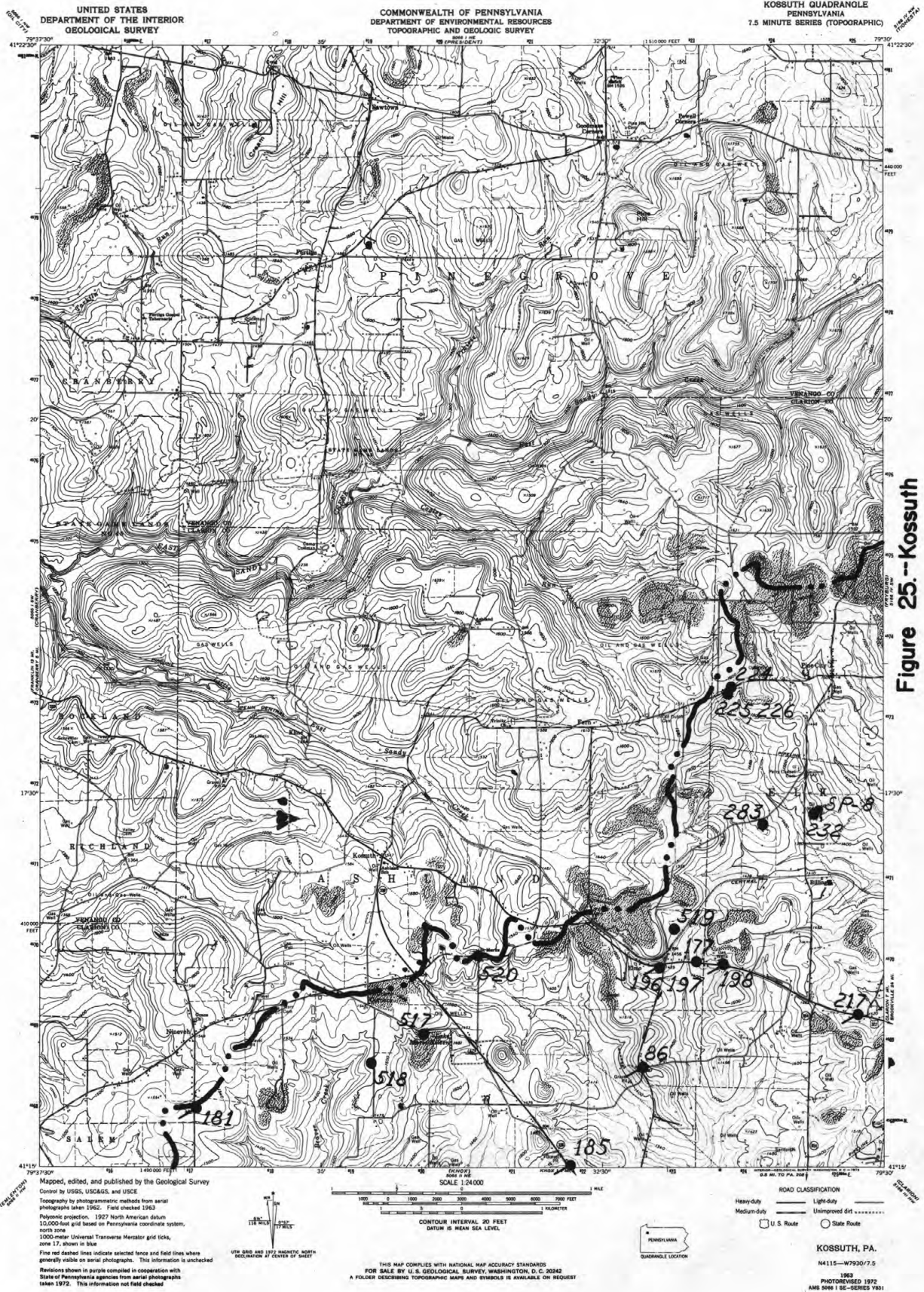


Figure 25.--Kossuth





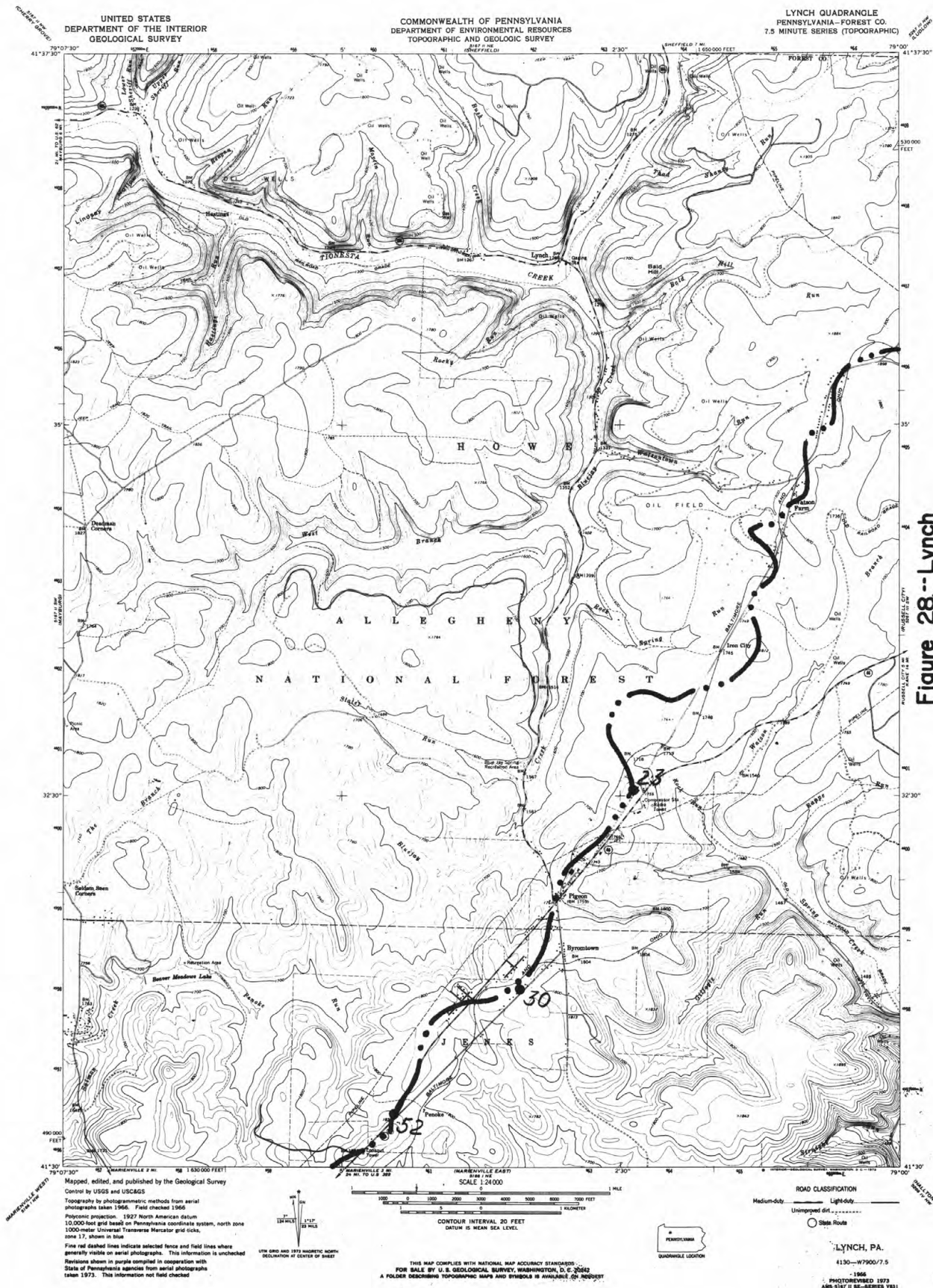
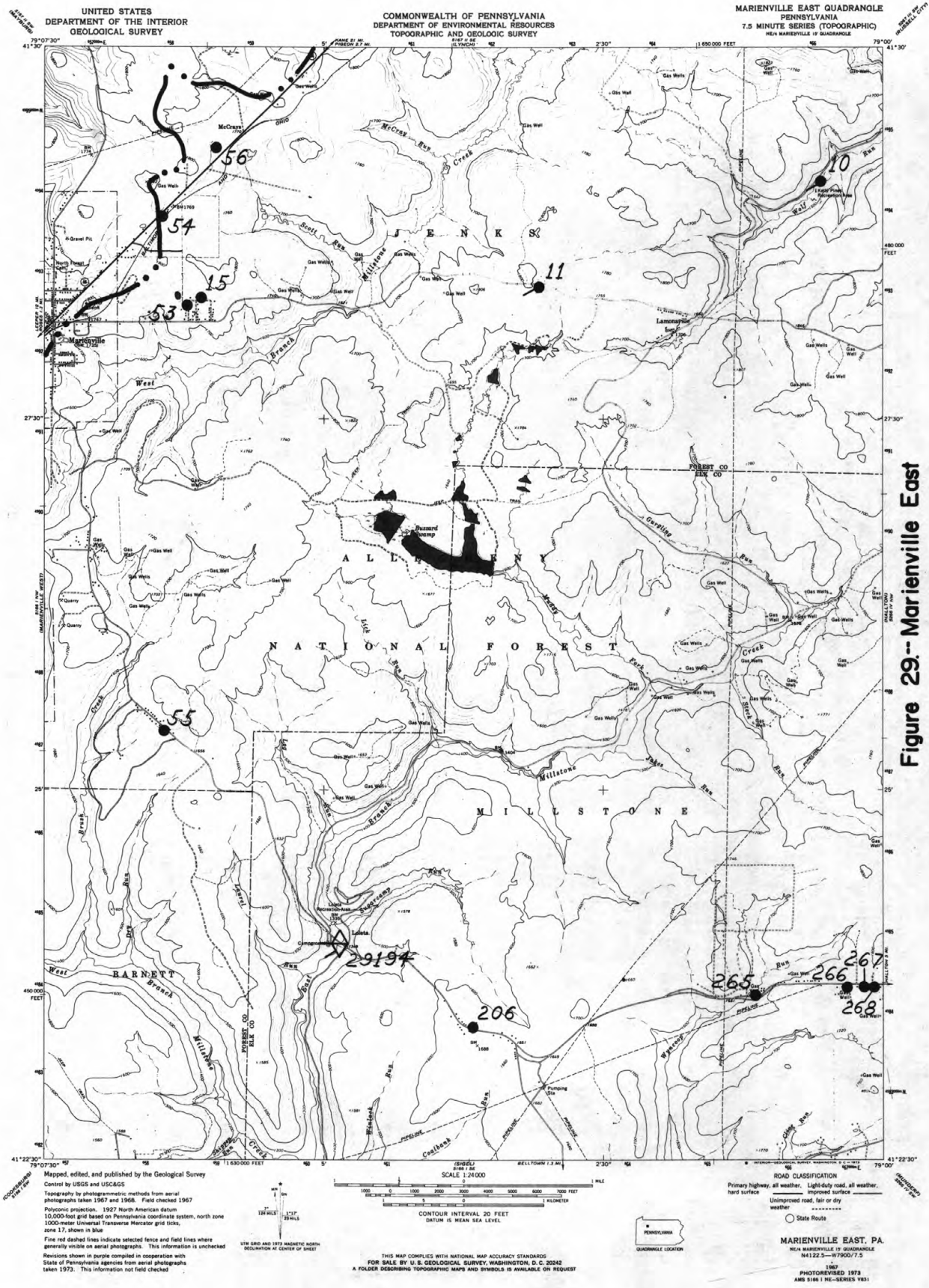


Figure 28--Lynch





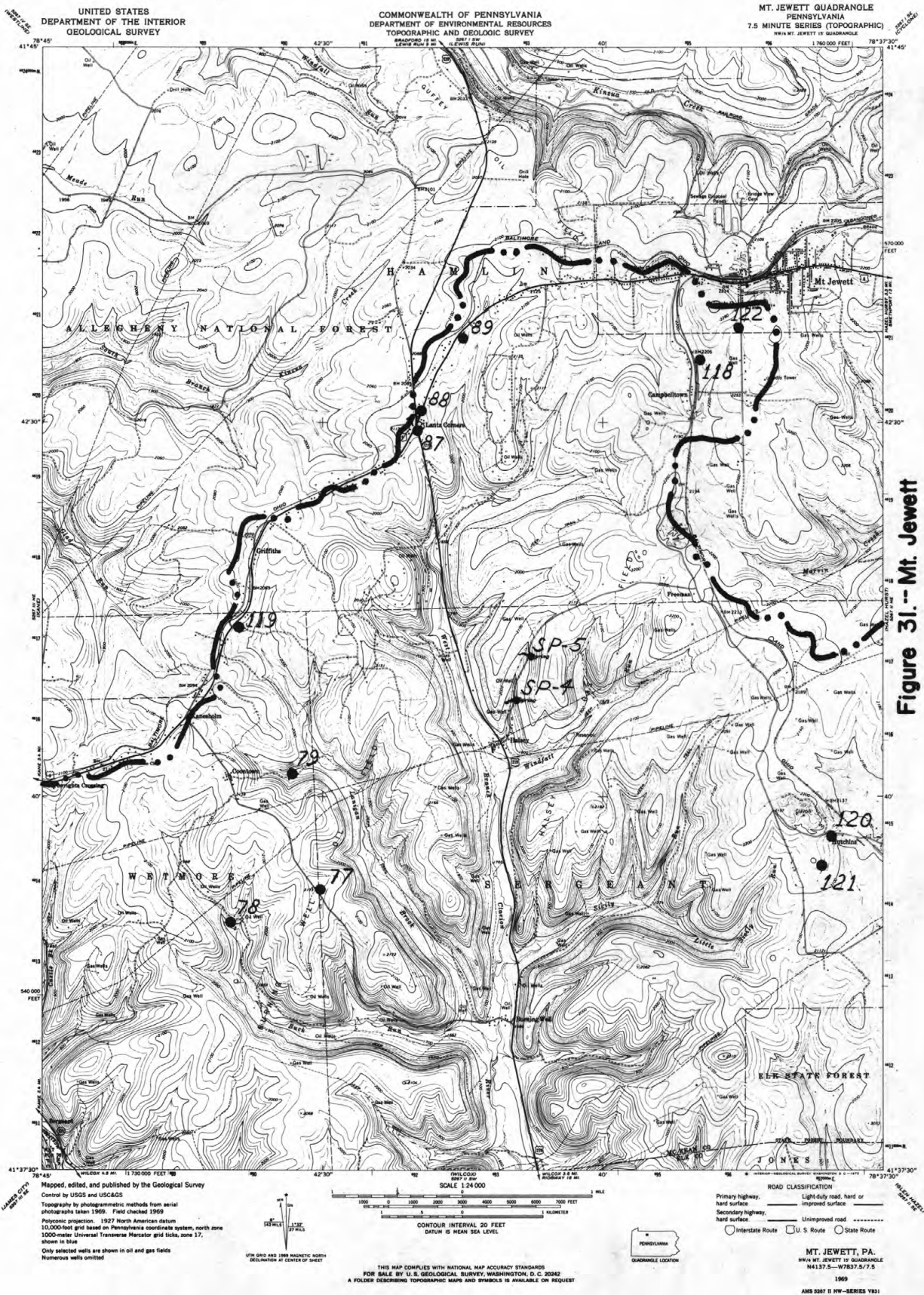


Figure 31.-- Mt. Jewett

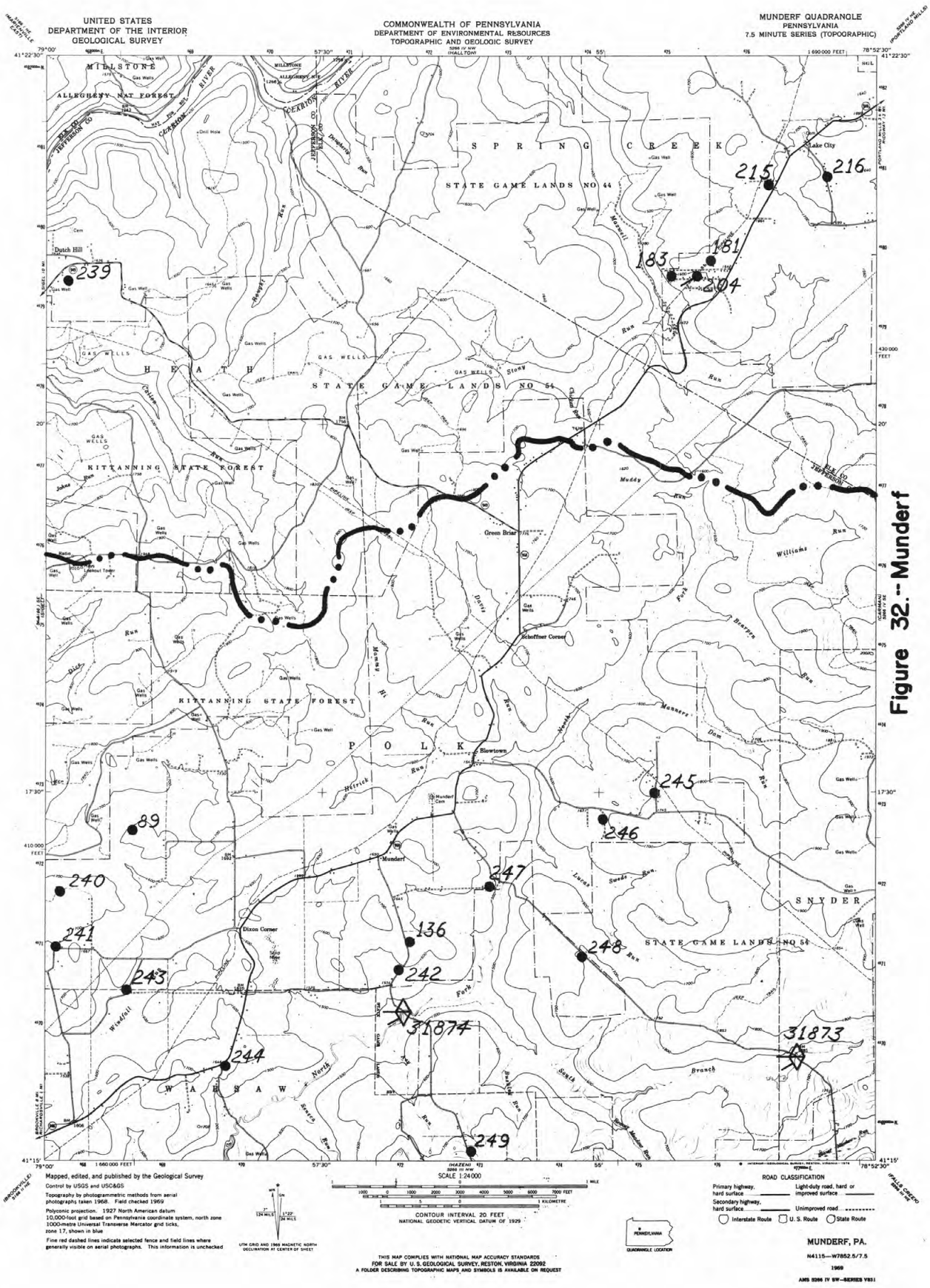
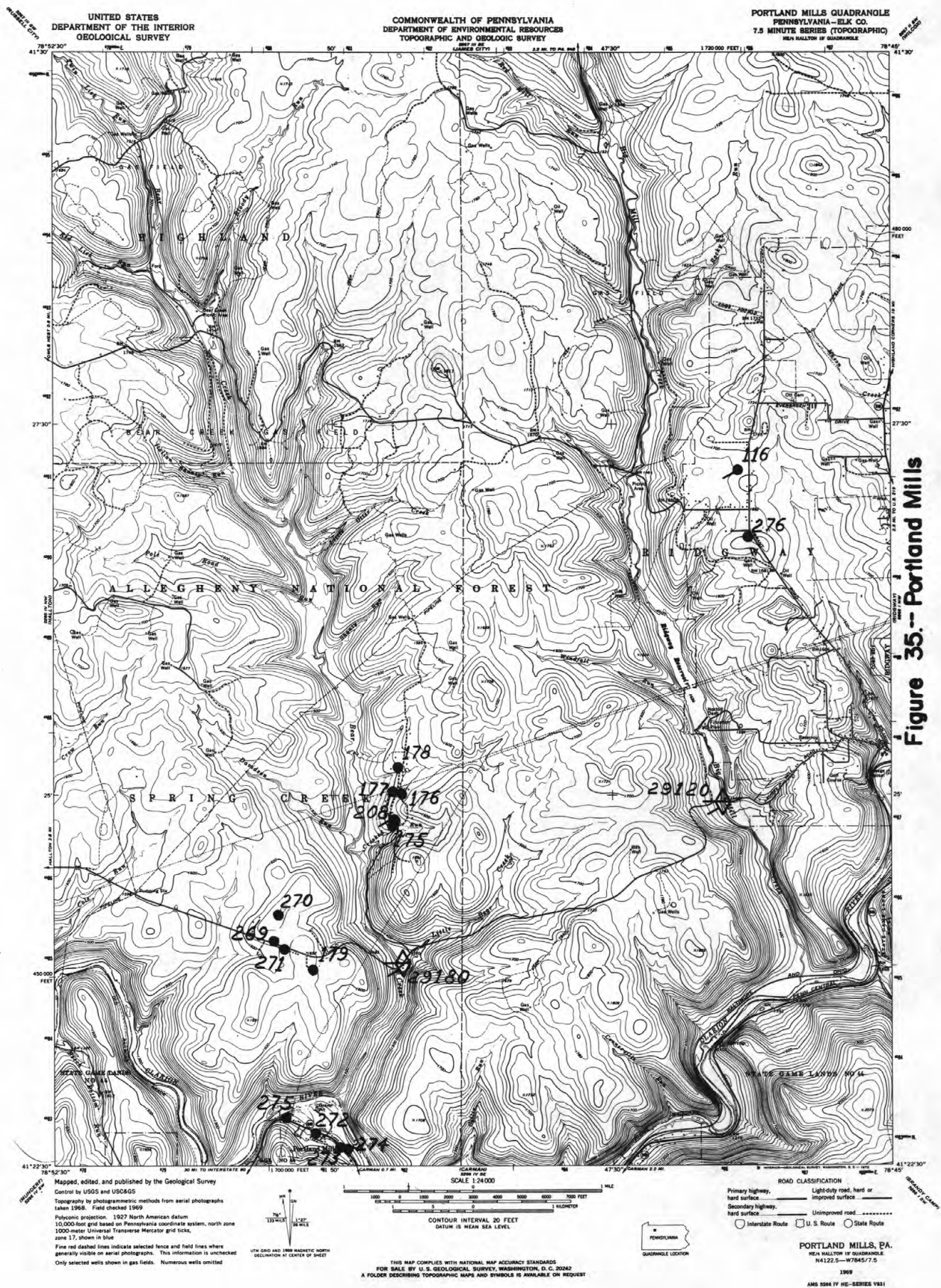


Figure 32.-Munderf



Figure 33--New Bethlehem



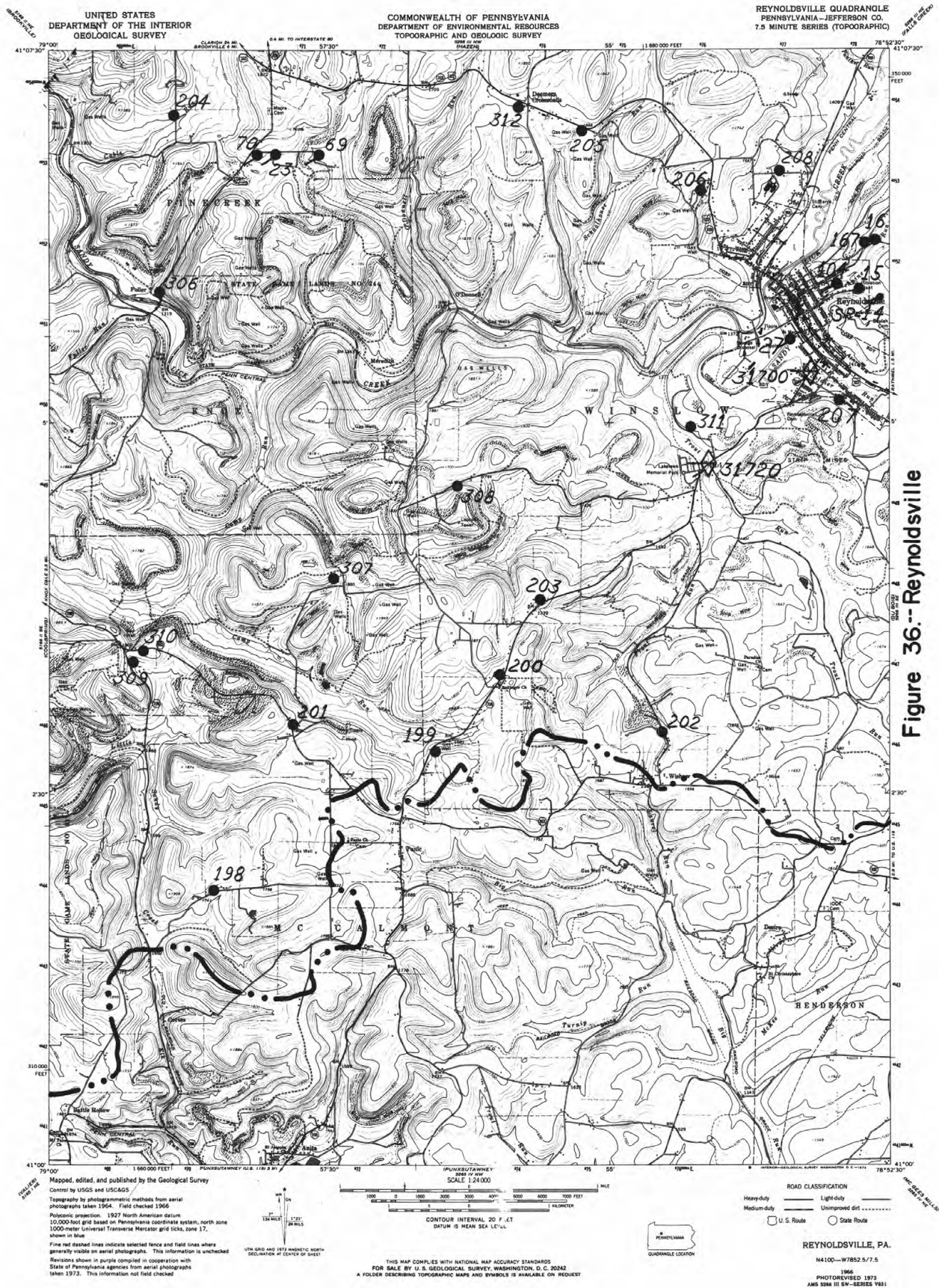


Figure 36.-- Reynoldsville

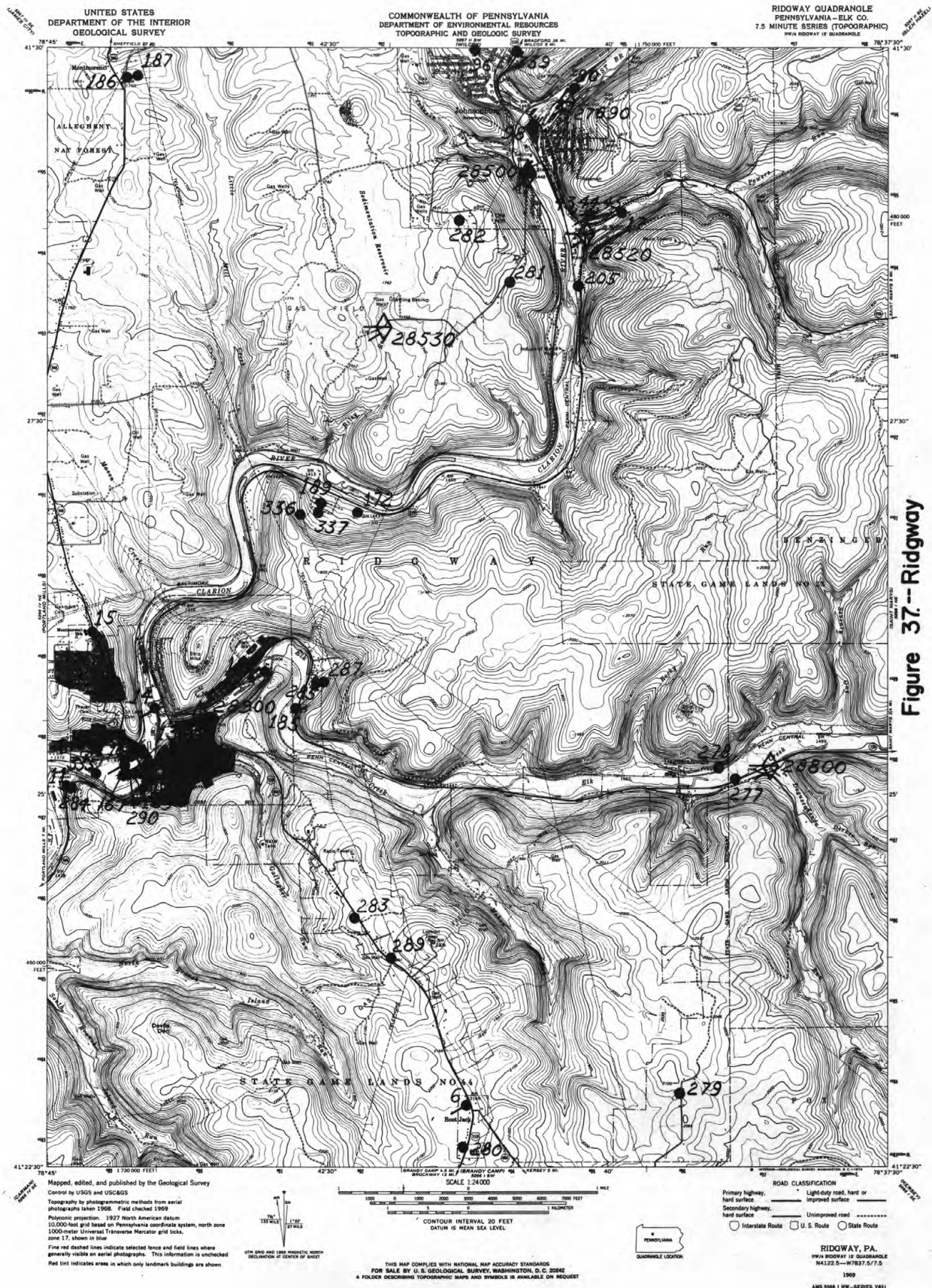


Figure 37--Ridgway



RIMERSBURG, PA.
N4100—W7930/7.5
1963
PHOTOREVISED 1972
AMS 5044 II SE—SERIES V831

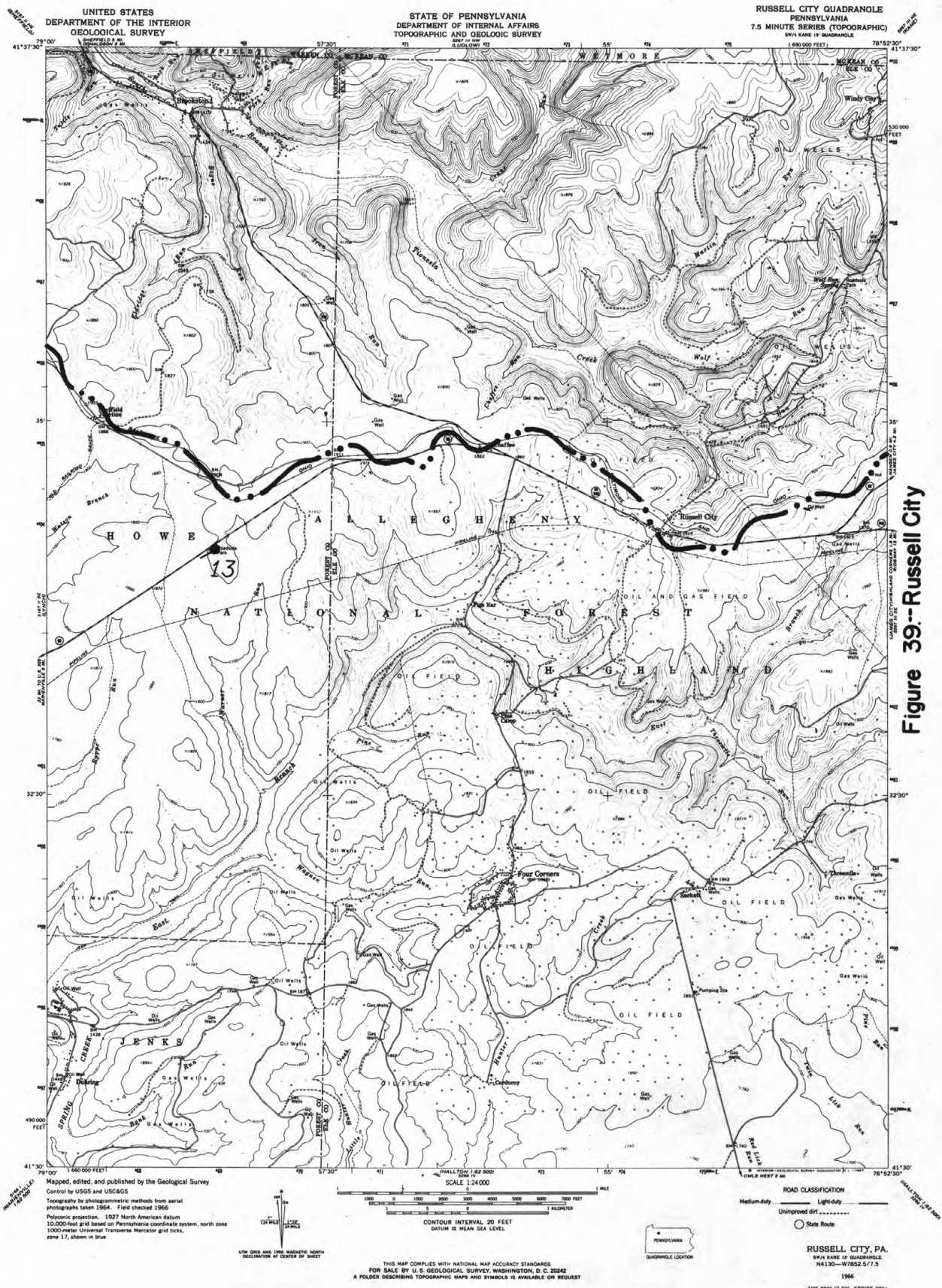


Figure 39.--Russell City



Figure 40.-Sabula



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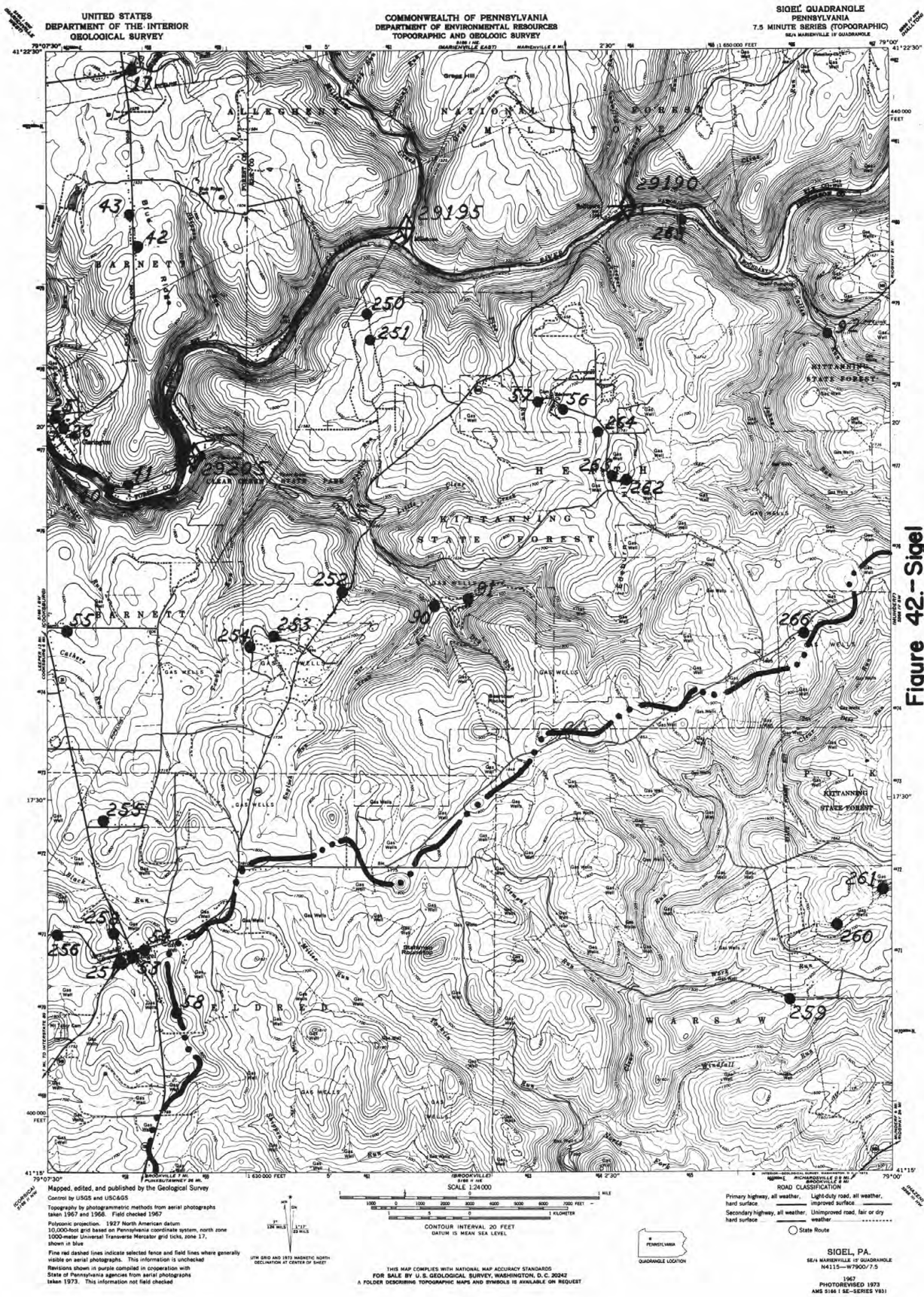


Figure 42.—Siole

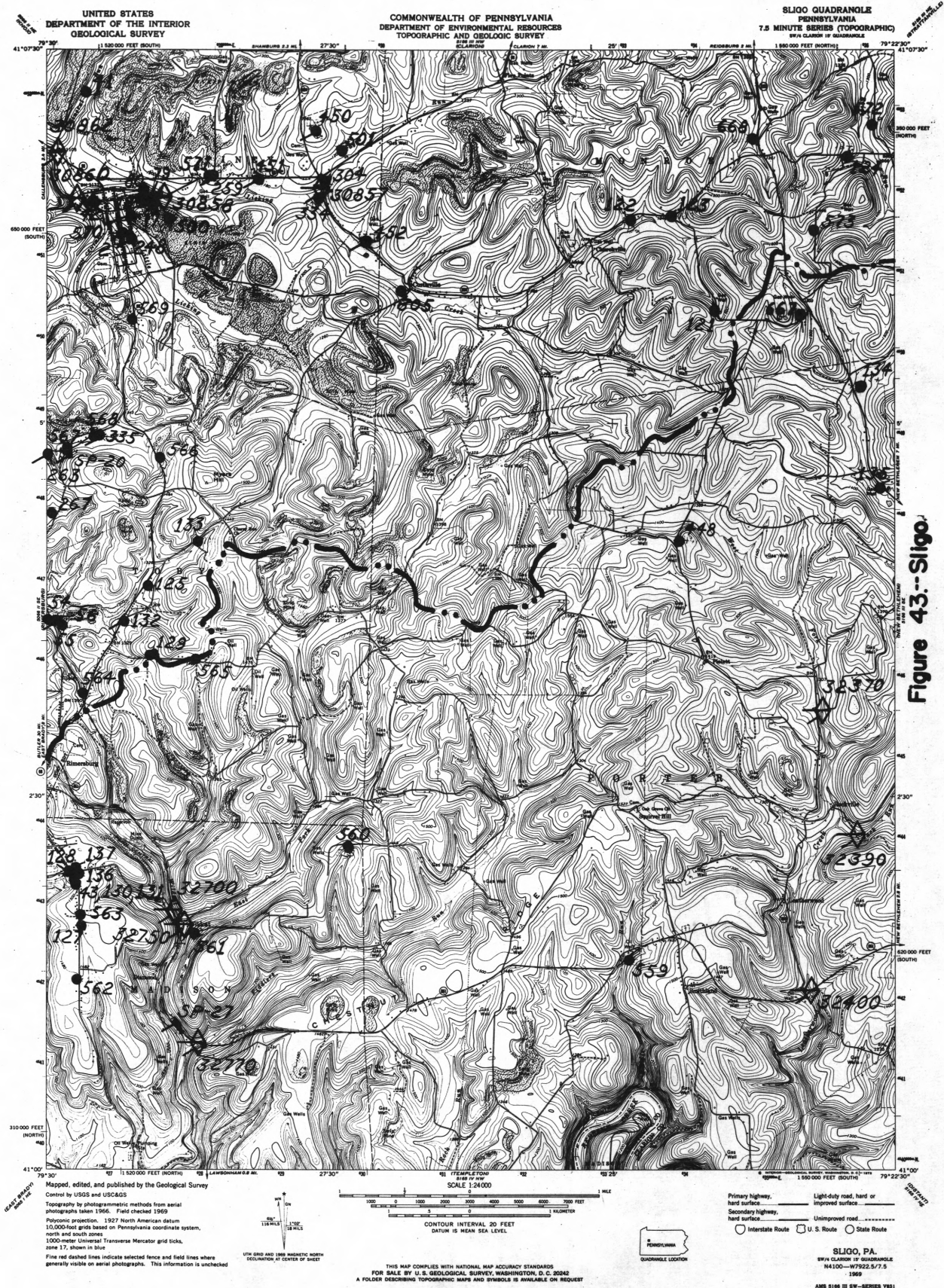


Figure 43.-Sligo.

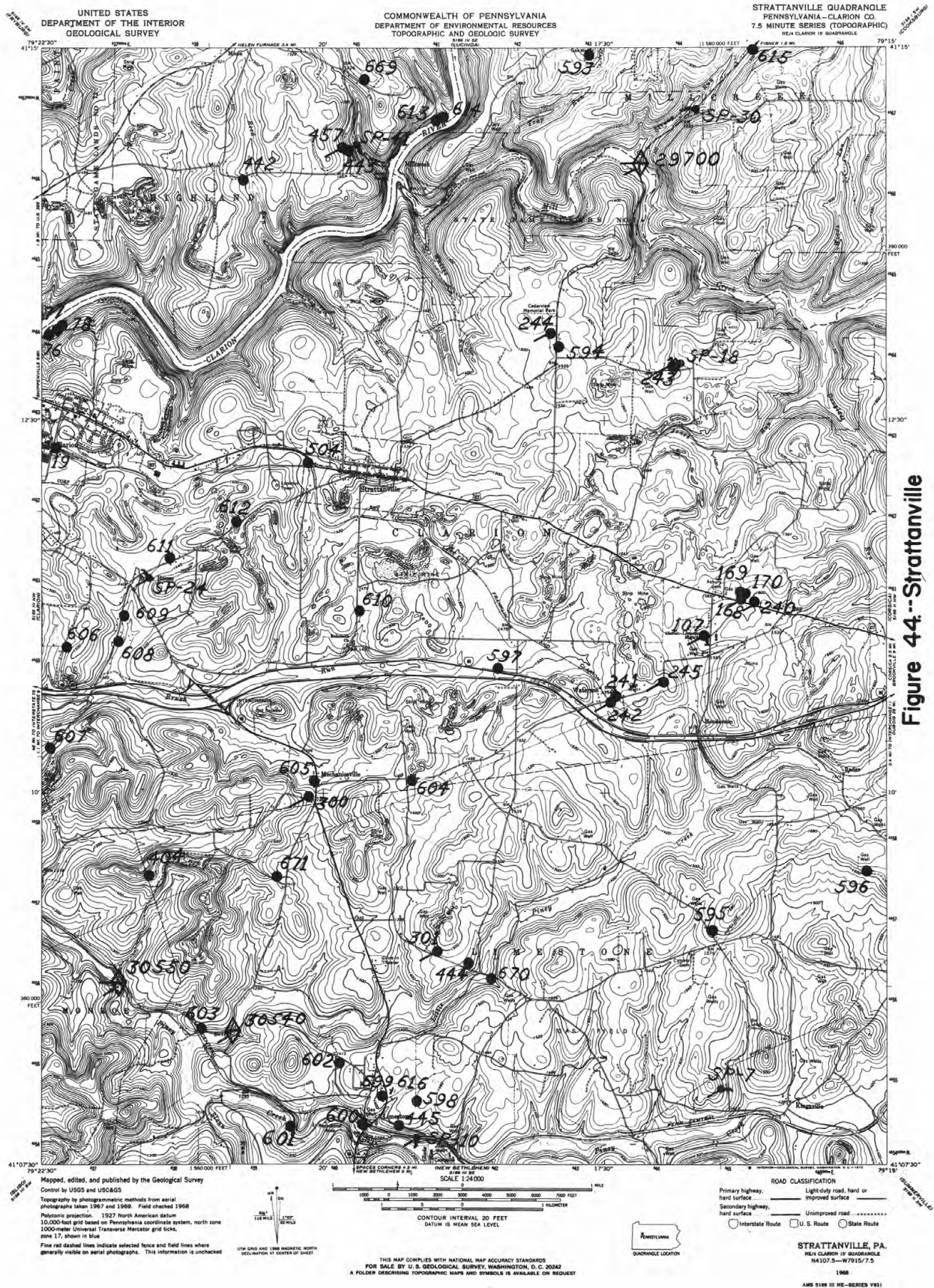


Figure 44--Strattanville

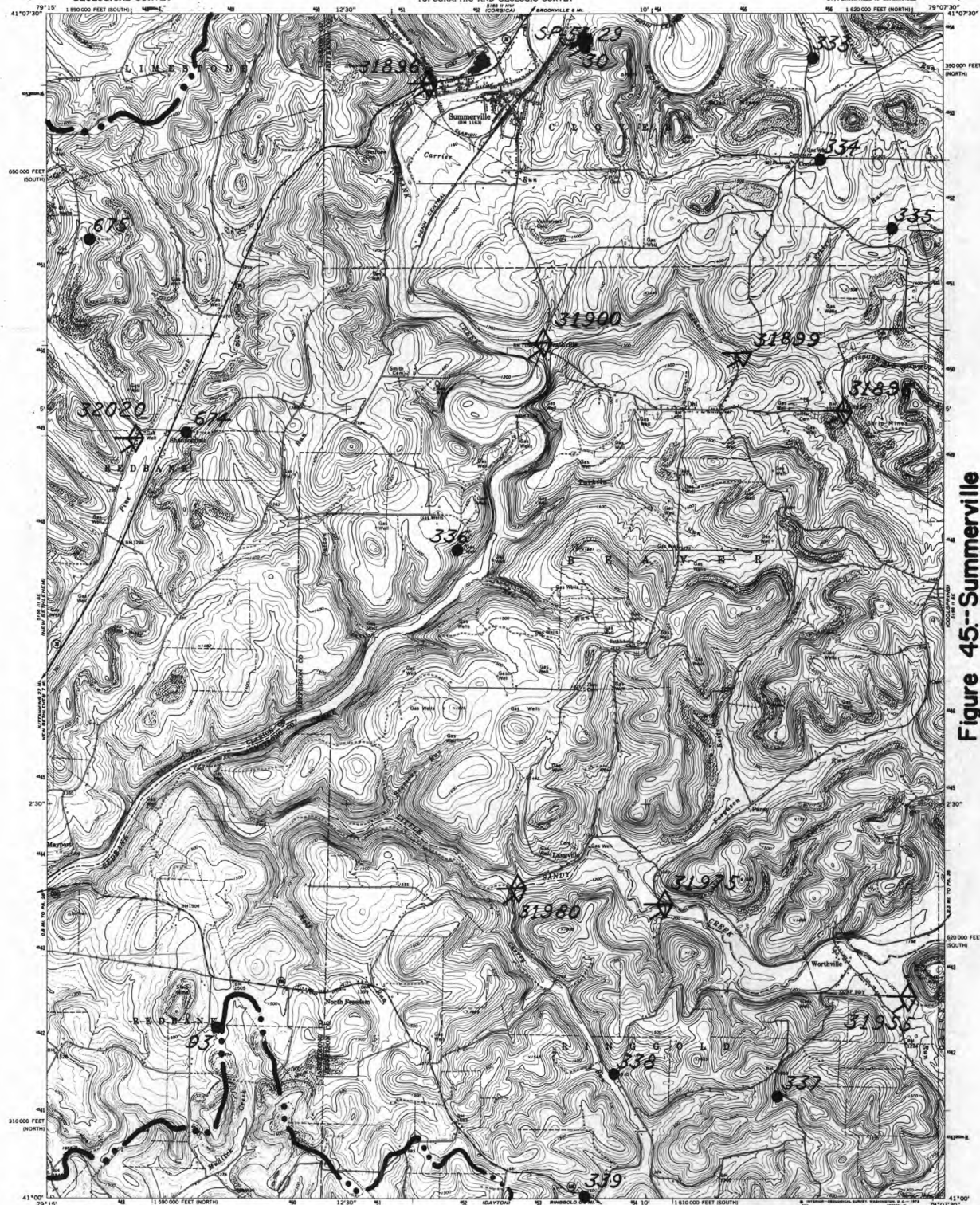


Figure 45--Summerville

Mapped, edited, and published by the Geological Survey

Control by USGS and USCGS

Topography by photogrammetric methods from aerial

photographs taken 1967. Field checked 1969

Projection: 1927 North American datum

10,000-foot grid based on Pennsylvania coordinate system,

north and south zones

1000-meter Universal Transverse Mercator grid ticks,

zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where

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UTM GRID AND 1983 MAGNETIC NORTH

DECLINATION AT CENTER OF SHEET

SCALE 1:24,000

CONTOUR INTERVAL 20 FEET

DATUM IS MEAN SEA LEVEL

FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20542

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Primary highway, hard or

improved surface

Secondary highway, hard surface

Unimproved road

Interstate Route

U. S. Route

State Route

Summerville, PA

SW/4 BROOKVILLE 18' QUADRANGLE

14100--47907.5/7.5

1969

AMS 5146 D SW-SERIES 1921

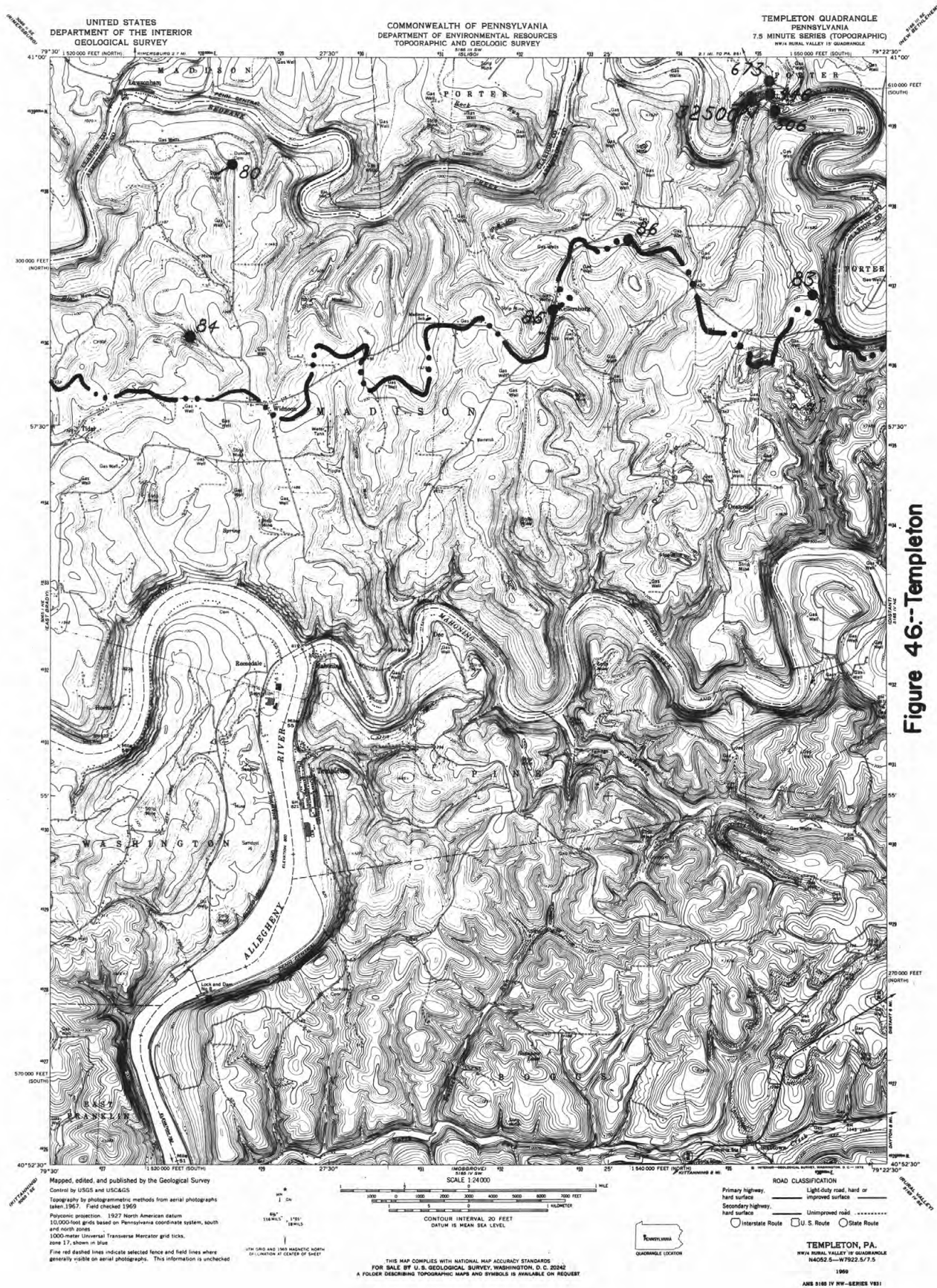


Figure 46--Templeton

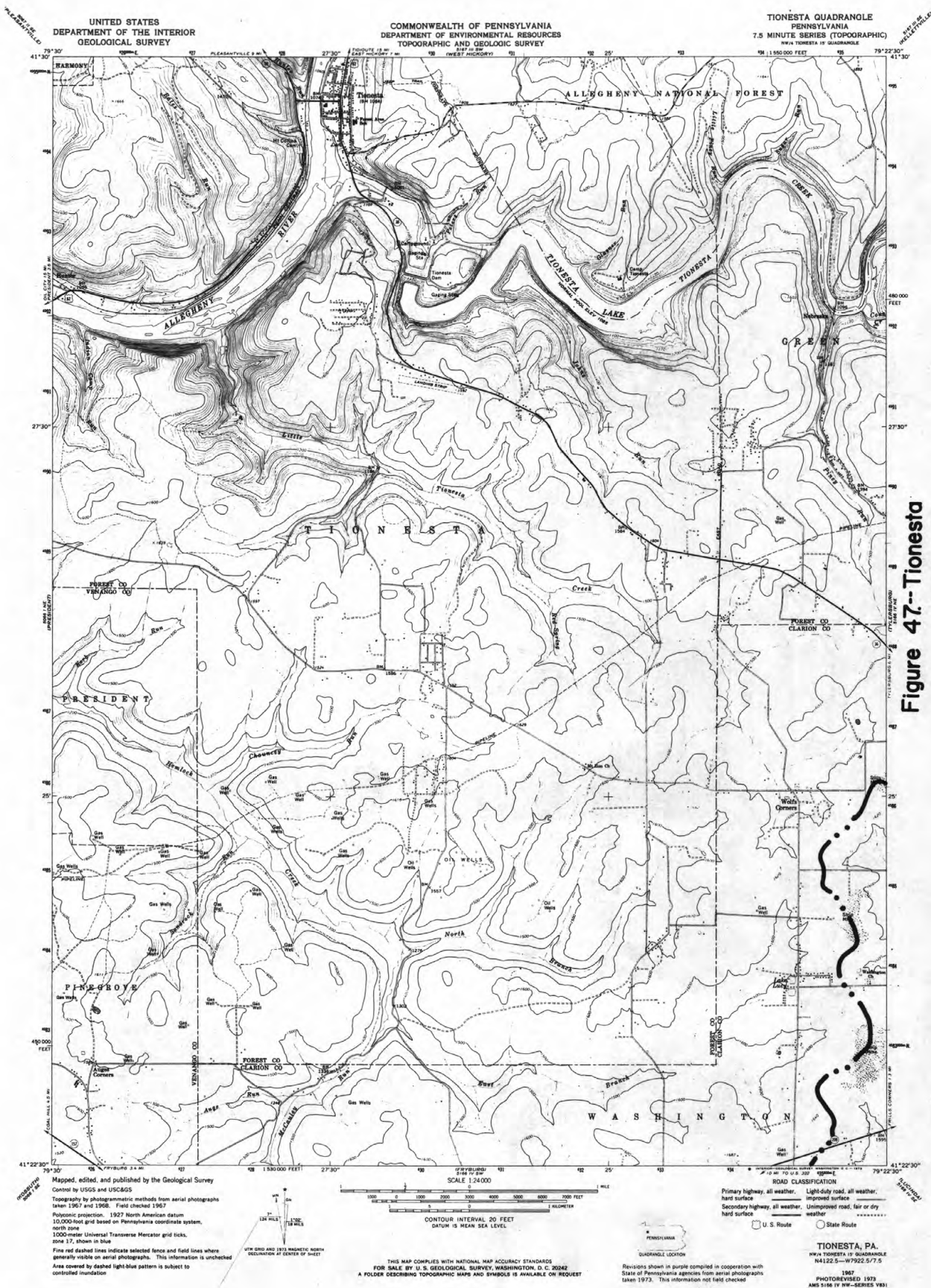


Figure 47--Tionesta



Figure 48--Tylersburg

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs
taken 1967 and 1968. Field checked 1967
Polynomial projection. 1927 North American datum
10,000-foot grid based on Pennsylvania coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 17,
shown in blue
Fine red dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. This information is unchecked
Areas covered by dashed light-blue pattern are subject to controlled
landslide
Revisions shown in purple compiled in cooperation with
State of Pennsylvania agencies from aerial photographs
taken 1972. This information not field checked

UTM GRID and 1973 magnetic north
SECURITY AT CENTER OF SCALE

SCALE 1:24,000
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20542
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Primary highway, all weather. Light-duty road, all weather.
hard surface. Improved surface.
Unimproved road, fair or dry
weather. State Route

PENNSYLVANIA
QUADRANGLE LOCATION

TYLERSBURG, PA.
NEXT TOWNSHIP IS QUADRANGLE
N4122.5-W7915.7.5
1967
PHOTOGRAPHED 1973
AMS 5186 IV NE-SERIES V81

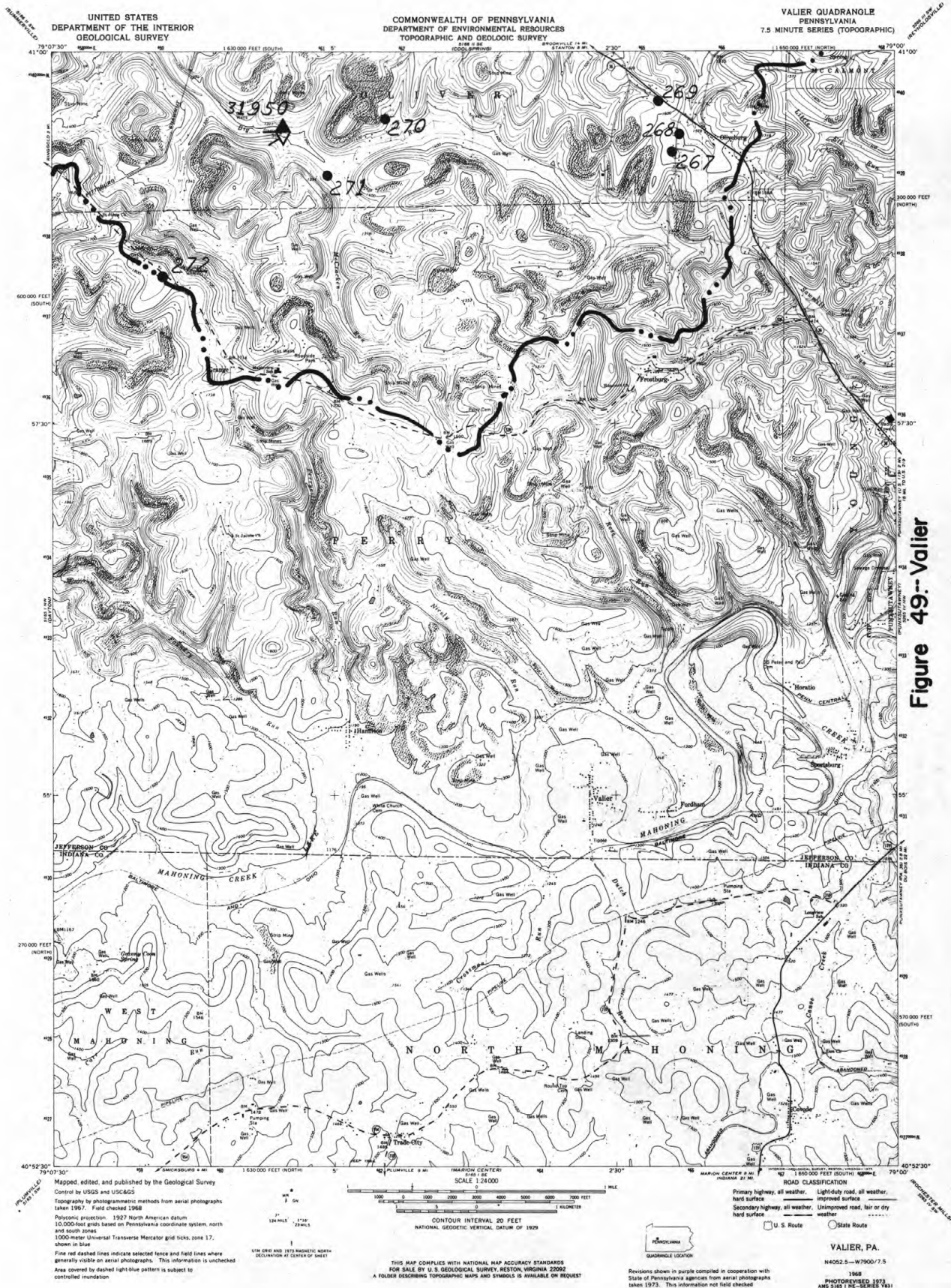


Figure 49: Valier

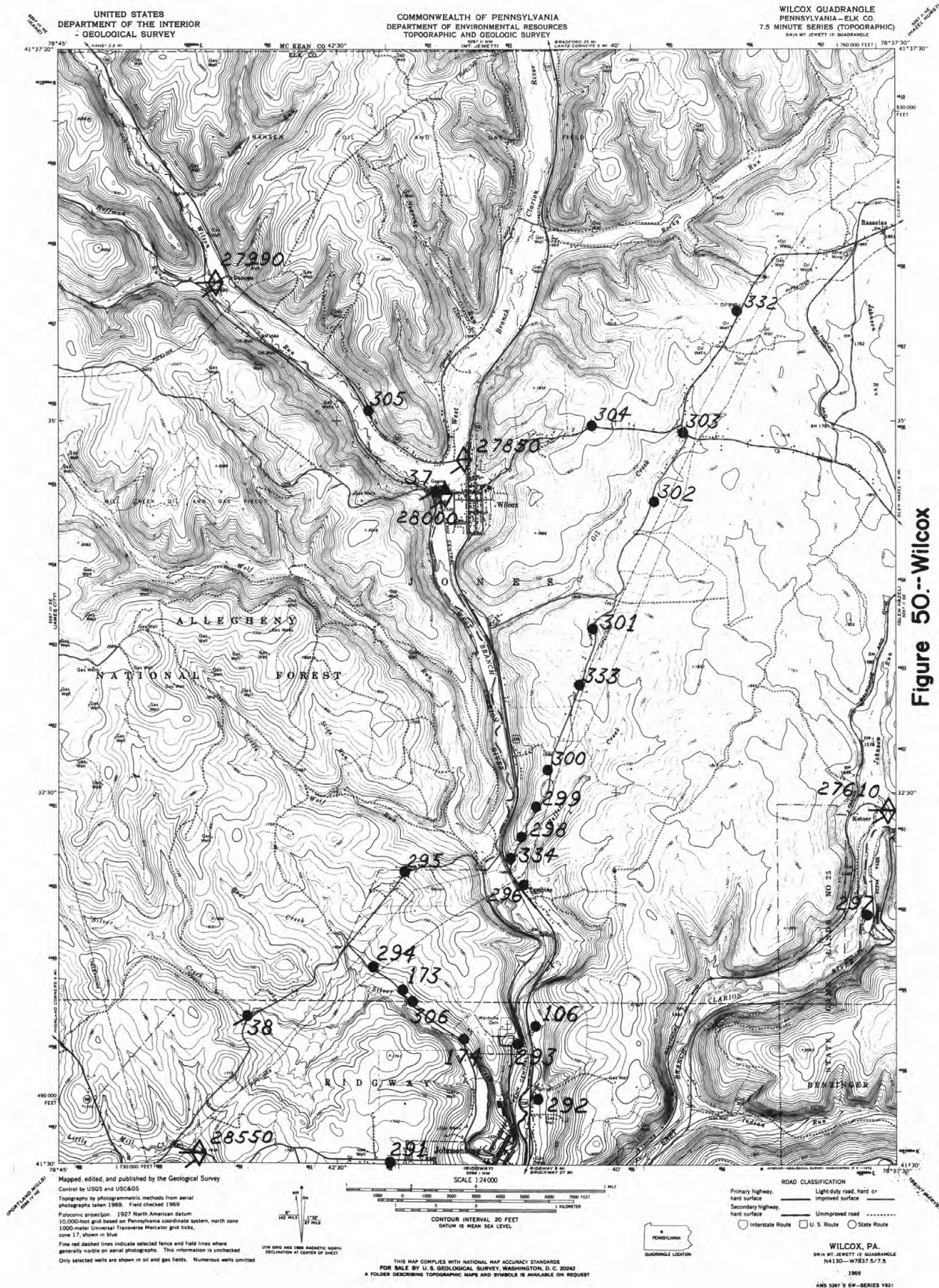


Figure 50--Wilcox

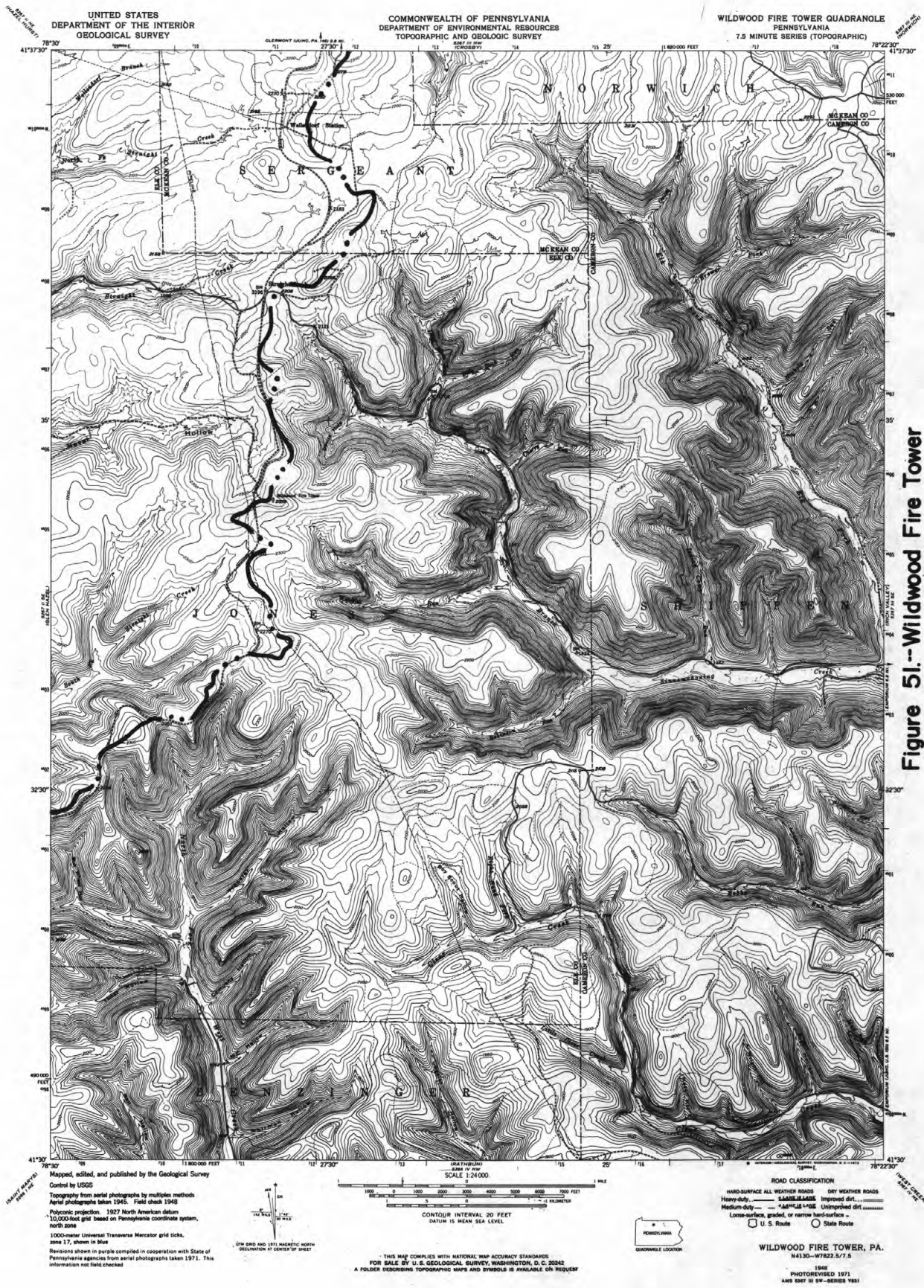


Figure 51.--Wildwood Fire Tower

TABLE 1.--RECORDS OF WELLS

WELL LOCATION: The number is that assigned to identify the well. It is prefixed by a two-letter abbreviation of the county. The county codes are as follows: AR, Armstrong; CR, Clarion; CF, Clearfield; EK, Elk; FO, Forest; JE, Jefferson; and MC, McKean. The latitude and longitude (lat-long) are the coordinates in degrees and minutes of the southeast corner of a 1-minute quadrangle within which the well is located.

USE: C, commercial; H, household; I, irrigation; N, industrial; P, public supply; R, recreation; S, stock; T, institution; U, unused; V, repressure; Z, other.

ALTITUDE OF LAND SURFACE: Estimated from topographic maps (NGVD).

TOPOGRAPHIC SETTING: H, hilltop; S, hillside; V, valley; W, draw; T, terrace; C, stream channel.

AQUIFER: QAL, Alluvium; QCL, Colluvium; PCG, Glenshaw Formation of the Conemaugh Group; PA, Allegheny Group; PP, Pottsville Group; ML, Lower Mississippian Series; DO, Oswayo Formation.

LITHOLOGY: SS, sandstone; SH, shale; SLTN, siltstone; LM, limestone; OTHR, other consolidated sediments; SGV, sand and gravel; GV, gravel; ALUM, Alluvium; UNSD, unconsolidated sediments.

STATIC WATER LEVEL: Depth-- F, flows but head is not known; +, measurement is in feet above land surface. Date-- month / last two digits of year.

REPORTED YIELD: GPM (gal/min), gallons per minute.

SPECIFIC CAPACITY: GPM/FT [(gal/min)/ft], gallons per minute per foot of drawdown.

HARDNESS: GPG (gr/gal), grains per gallon.

SPECIFIC CONDUCTANCE: MICROMHOS AT 25 DEG C, micromhos at 25 degrees Celsius.

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	ADUIT- FER /LITH- OLOGY
ARMSTRONG								
AR- 80	4059-7928	SCHRECKENGOST, EUGENE	KARLS COMP. WATER SYS. CO.	1975	H	1330	S	PP /SS
83	4058-7923	METRICK, RICHARD	KARLS COMP. WATER SYS. CO.	1975	H	1410	H	PA /SH
84	4058-7928	BISH, R.C.	TOY DRILLING CO., INC.	1976	H	1210	S	PP /SS
85	4058-7925	WILLIAMS, JACK	TOY DRILLING CO., INC.	1966	H	1510	S	PA /SH
86	4058-7924	SHUSTER, W.E.	TOY DRILLING CO., INC.	1976	H	1520	H	PA /SH
87	4059-7921	MCGINNIS, DAVID	C. EUGENE MYERS	1970	H	1250	S	PA /SLTV
88	4059-7920	DEAN, E.C.	TOY DRILLING CO., INC.	1975	H	1080	S	PP /SS
89	4059-7921	REERS, G.E.	TOY DRILLING CO., INC.	1967	H	1280	H	PP /SS
90	4100-7917	BROCIOUS, LEE	KARLS COMP. WATER SYS. CO.	1976	H	1250	S	PA /SH
91	4100-7917	SCHRECKENGOST, E.P.	TOY DRILLING CO., INC.	1974	H	1150	S	PA /SS
92	4101-7915	SERENE, DALTON		1967	H	1180	S	PP /SS
93	4101-7913	SHAY, GLEN	KARLS COMP. WATER SYS. CO.		H	1510	H	PP /SS
CLARION								
CR- 1	4112-7923	MEISINGER, JOHN			H	1450	S	PA /SS
2	4106-7929	TEXTER, G.W.		1880	H	1155	V	PP /SH
3	4120-7913	COOKS FOREST STATE PARK		1939	H	1545	S	PP /
8	4058-7937	FORDYCE WOOLEN MILLS		1913	N	870	T	ML /SS
9	4058-7937	REX HIDE RUBBER CO.		1917	N	850	T	ML /SS
10	4058-7937	BOROUGH OF EAST BRADY		1916	P	900	S	PP /SS
11	4058-7936	BOROUGH OF EAST BRADY		1923	P	1040	S	PP /SS
12	4059-7934	KIEFFER, H.M.	RONY EDDINGER	1928	H	1340	H	PA /SS
13	4102-7930	BOROUGH OF RIMERSBURG		1928	P	1300	S	PP /SS
14	4102-7930	BOROUGH OF RIMERSBURG		1925	P	1350	S	PP /SS
15	4058-7937	REX HIDE RUBBER CO.		1924	N	850	T	ML /SS
16	4058-7937	REX HIDE RUBBER CO.		1917	N	850	T	M2 /SS
17	4106-7929	BOROUGH OF SLIGO		1910	P	1200	H	ML /SS
18	4106-7929	BOROUGH OF SLIGO		1926	P	1200	H	ML /SS
19	4112-7922	HERNFY BRAND CO.		1913	N	1460	S	PP /SS
22	4120-7924	UNITED NATURAL GAS CO.			U	1510	S	/
23	4115-7927	SHIPPENVILLE WATER CO.		1913	P	1390	S	ML /SS
24	4111-7930	PENNDOT	MOODY DRILLING CO., INC.	1970	H	1475	S	ML /SS
25	4114-7932	KNOX GLASS CO.		1917	N	1370	S	PP /SS
26	4114-7932	SMITH, ALBERT		1928	U	1345	S	PP /SS
27	4114-7932	KNOX WATER CO.		1928	U	1540	H	PP /SS
28	4110-7939	BOROUGH OF ST. PETERSBURG			P	1490	S	PA /SS
29	4109-7939	BOROUGH OF ST. PETERSBURG		1918	P	1430	S	PP /SS
36	4114-7932	KNOX WATER CO.		1917	U	1540	S	PP /SS
39	4109-7923					1330	T	ML /SS

-- RECORD OF WELLS

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
358	21	6	119/158/356	250	11/75	2		5	195	7.5	AR- R0
296	99	6	117/260	120	3/76	15		4	330		R3
205	29	5	22/ 67/151			3					R4
135	20	6	38/ 80/110			4					R5
204	22	5	114			5					R6
43	14	6	35	20	9/70	3					R7
104	21	5	28/ 83/102			7					R8
200	22	6	122/170			20					R9
93	23	6	29/ 67			6					90
84	25	5	29/ 64			3					91
66	22	6	60		6/67	12					92
158	22	6				4					93
COUNTY											
28	15	36		13	4/32						CR- 1
15		48		8	12/28			4			2
130	12	6		22	8/50	2					3
71		6				20					4
51	50	6		38		28					9
76		7				16					10
115		4									11
213		8				2		11			12
158		8		55		17		6			13
262	167	6		100		36		8			14
53	50	6				25					15
60	50	8		38	7/47	50					16
313	205	6	241	130		25		18		7.2	17
310	198	6	229/247	140		50				7.0	18
300		6		96							19
				F	9/72	30			660	4.0	22
255	203	6		65	9/13	35		11	525	6.6	23
382	164	6	7348	225	4/70	35	3.9	4		6.8	24
156	15	4		20		26		3			25
160	26	6		50		8		2			26
375		6		225		24		3			27
150		6				6		4			28
160		6				20		6			29
417		6		225		30		5			36
2560											39

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
CLARION								
CR- 40	4110-7926					1240	S	ML /SS
41	4107-7929					1160	S	/
42	4106-7929	MILLER, J.B.				1145	T	/
43	4101-7929	WEAVER, LEO	C. EUGENE MYERS	1962	H	1490	H	PA /SS
50	4103-7930	BOROUGH OF RIMERSBURG	MOODY DRILLING CO., INC.	1965	U	1310	S	ML /SS
51	4103-7930	BOROUGH OF RIMERSBURG	MOODY DRILLING CO., INC.	1965	U	1240	T	PP /SS
52	4103-7930	BOROUGH OF RIMERSBURG	MOODY DRILLING CO., INC.	1966	P	1245	T	PP /SS
53	4103-7930	BOROUGH OF RIMERSBURG	MOODY DRILLING CO., INC.	1965	P	1250	T	PP /
54	4103-7929	BOROUGH OF RIMERSBURG	PENNSYLVANIA DRILLING CO.	1962	P	1320	S	PP /SS
55	4103-7929	BOROUGH OF RIMERSBURG	PENNSYLVANIA DRILLING CO.	1962	P	1340	S	PP /SS
56	4103-7929	BOROUGH OF RIMERSBURG	PENNSYLVANIA DRILLING CO.	1962	P	1335	S	PA /SS
57	4058-7936	EAST BRADY WATER WORKS CO.			U	990	S	ML /SS
58	4058-7936	EAST BRADY WATER WORKS CO.		1932	U	990	S	ML /
59	4059-7936	EAST BRADY WATER WORKS CO.			U	998	S	ML /SS
60	4058-7937	EAST BRADY WATER WORKS CO.	PENNSYLVANIA DRILLING CO.	1965	H	845	T	QAL /SGV
61	4058-7937	EAST BRADY WATER WORKS CO.	PENNSYLVANIA DRILLING CO.	1965	H	850	T	QAL /SGV
62	4058-7937	EAST BRADY WATER WORKS CO.	PENNSYLVANIA DRILLING CO.	1965	P	855	T	QAL /SGV
63	4058-7937	REX HIDE INC.	PENNSYLVANIA DRILLING CO.	1962	N	845	T	QAL /SGV
76	4113-7922	CLARION WATER CO. WELL#13	OLSON	1958	U	1108	V	ML /SS
77	4113-7922	CLARION WATER CO. WELL#14	OLSON	1958	U	1109	V	ML /SS
78	4113-7922	CLARION WATER CO. WELL#15	OLSON	1958	U	1110	V	ML /SS
79	4106-7929	SLIGO WATER CO. WELL#3			P	1190	S	ML /SS
80	4106-7929	SLIGO WATER CO. WELL#4	MOODY DRILLING CO., INC.	1960	P	1165	T	PP /SS
81	4114-7925	CORNER WATER SUPPLY #1			P	1480	H	ML /SS
82	4114-7925	CORNER WATER SUPPLY #2			P	1485	S	ML /SS
83	4114-7925	CORNER WATER SUPPLY #3			P	1470	H	PP /SS
86	4115-7932	MCGIFFEN, WILLIAM	HARRY BROS.	1968	H	1490	S	PA /SS
88	4115-7926	CORNER WATER SERVICE	KARLS COMP. WATER SYS. CO.	1970	U	1190	T	ML /SS
89	4115-7926	CORNER WATER SERVICE	KARLS COMP. WATER SYS. CO.	1970	U	1170	T	ML /SS
90	4115-7926	CORNER WATER SERVICE	KARLS COMP. WATER SYS. CO.	1970	P	1180	T	ML /SS
91	4114-7926	CORNER WATER SERVICE	KARLS COMP. WATER SYS. CO.	1970	P	1180	T	ML /SS
92	4114-7926	CORNER WATER SERVICE	KARLS COMP. WATER SYS. CO.	1970	U	1165	T	ML /SS
93	4114-7925	CORNER WATER SERVICE		1955	H	1485	S	PA /SS
94	4114-7932	KNOX WATER CO. WELL 3			P	1540	H	PP /SS
95	4114-7932	KNOX WATER CO. WELL 4			U	1510	S	PP /SS
96	4114-7932	KNOX WATER CO. WELL 5	A. L. WHISNER		U	1545	H	PP /SS
97	4114-7932	KNOX WATER CO. WELL 6	MOODY DRILLING CO., INC.	1961	P	1410	S	PP /SS
98	4114-7933	KNOX WATER CO. WELL 7	MOODY DRILLING CO., INC.	1961	P	1390	S	PP /SS
99	4119-7915	SLEPPY, FRED	MARY E. MCCREARY	1950	H	1510	S	PP /SS
100	4118-7917	GARLER		1929	U	1495	H	PP /SS
101	4111-7914	UNION 76 OIL CO. WELL 1			U	1580	H	ML /SS
102	4112-7914	ROSSEY, RUSSELL	A. L. WHISNER	1942	H	1570	S	PP /
103	4112-7914	ROSSEY, RUSSELL WELL#2		1955	H	1570	S	PP /
104	4112-7914	ROSSEY, RUSSELL WELL#3	TOY DRILLING CO., INC.	1952	H	1570	S	PP /
105	4110-7914	CLARION TOWNSHIP WELL 1	LAYNE-NEW YORK CO., INC.	1972	U	1540	S	PP /SS
107	4111-7916	CLARION-LIMESTONE SCHOOL		1945	P	1595	H	PP /SS
108	4115-7927	SHIPPENVILLE WATER CO. #3	KARLS COMP. WATER SYS. CO.	1971	P	1385	H	ML /SS
109	4113-7924	WEIDNER, DON	C. EUGENE MYERS	1963	H	1330	S	PP /SS
110	4114-7932	KNOX WATER CO.	A. L. WHISNER		P	1535	H	PP /SS
111	4112-7914	ROSSEY, RUSSELL	NEWTON W. ROTH	1971	H	1550	H	PP /

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH BELOW LAND SURFACE (FEET)	LEVEL DATE (MO/YR)	RF- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (PPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
1049											CR- 40
1075											41
809				F				5			42
178	21	6									43
542				104		20		15	7.0		50
243	48	6		45	10/69	5		2	8.0		51
228	48	8		34	10/65	160	6.3	4	7.5		52
257	48	6		34	10/65	150	12	13	7.5		53
250	170			195	9/65	80		11	7.8		54
250	170	10						7	8.2		55
210	170	10						6	1300	7.5	56
300			292	180		80	1.1				57
207	170	6		70		30					58
275	207	7		180		48		16	380		59
49			29/ 49			15					60
49			29								61
51	42	12		23	12/65	200	60	7			62
49				20		45					63
200	57	12	133/168/193	24	1/58	360	3.9	7			76
220	57	12	74/144/172/206	27	2/58	350	3.9				77
225	57	12	84/155/186	46	3/58	500	4.7	5			78
315	178	6	160	110		28		12			79
210	140	8	78/160	6	12/60	190	7.9	34			80
465	166	6				20		2			81
430		6				43		4			82
165		6				10		5			83
58	17	8		35	7/68	12		2	100		84
66	21	6	59								88
55	30	6	53	19	4/70	25	3.7	2	320	6.2	89
69	38	6	67	19	4/70	34	11	4	260	6.6	90
48	41	6	38/ 47	19	4/70	31	9.2	2	660		91
42	18	10	26/ 28	2	/70	78	22	7	1200	7.2	92
105		6				0					93
412		8	250/253/257/269	250	5/68	60	20	8	368	6.5	94
396		8		277	10/48						95
400		8									96
335	86	8	22/115/149/208/223	93				7		7.3	97
315	82	8	25/230	93	5/73	120	3.4	7	425	7.6	98
55		6		22	8/72	6	.25	24	1420	3.6	99
64		6		46	8/72	4	.46	1	47	6.2	100
258	82	6		79	2/72	100					101
112	22	6		30	1/72	10	.14	2	187	4.3	102
165	22	6		30	1/72	15	.33	2	141	4.2	103
172	22	6		48	1/72	45	1.6	1	105	5.6	104
415	262	6	44/ 58/ 84/140/396	42	2/72	34	.31	44	1540	4.2	105
113	50	6		52	3/72	10		5	195	6.9	107
255	174	8	250	70	6/71	120			570	5.2	108
36	17	6				10					109
400	194	8		281		200					110
204	58	6		141	2/72	.8					111

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	ADUIT- FER /LITH- OLOGY
CLARION								
CR- 112	4114-7930	RENNINGER, IRVIN	KARLS COMP. WATER SYS. CO.	1965	H	1480	H	PP
113	4114-7930	COLWELL, RUSSELL	KARLS COMP. WATER SYS. CO.	1967	H	1470	H	/SS
114	4114-7930	AMSLER, JAMES	H. W. ZERRE	1961	H	1470	H	PP
115	4114-7930	BARROTT, WILLIAM	HAROLD MILLER	1966	H	1470	H	/SS
116	4114-7931	FROST, MIKE	KARLS COMP. WATER SYS. CO.	1968	H	1390	S	PP
117	4113-7933	FERRIS, G. E.	H. W. ZERRE	1957	H	1430	S	/SS
118	4114-7932	ZERRE, DENNIS	H. W. ZERRE	1958	C	1420	S	PA
119	4119-7915	SLEPPY, FRED A.	JAY C. GILFORD	1971	H	1580	H	/SS
120	4108-7927	PEGO, HOMER	C. EUGENE MYERS		H	1330	S	PP
121	4105-7924	ECKER, JOHN	C. EUGENE MYERS		H	1470	S	/SS
122	4106-7924	PHILLIPS, ELLSWORTH	C. EUGENE MYERS		H	1310	S	PA
123	4106-7924	GATES, PAUL	C. EUGENE MYERS		H	1330	S	/SLTN
124	4106-7922	FOX, AMOS D.	KARLS COMP. WATER SYS. CO.	1966	H	1370	S	PP
125	4103-7929	HUMP, WINDELL J.	C. EUGENE MYERS	1962	H	1330	S	/SS
126	4108-7927	BARTLEY, ALFRED	C. EUGENE MYERS		H	1330	S	PP
127	4101-7929	MONG, HOWARD	TOY DRILLING CO., INC.		H	1490	H	/SH
128	4101-7929	CLARK, VICK	C. EUGENE MYERS	1962	H	1510	H	PA
129	4103-7929	MANSON, JAMES	KARLS COMP. WATER SYS. CO.		H	1470	S	/SS
130	4101-7929	PACY, JAMES	C. EUGENE MYERS	1962	H	1490	H	PA
131	4101-7929	WEAVER, LEO	C. EUGENE MYERS	1962	H	1490	H	/SH
132	4103-7929	SWITZER, CONNELL	KARLS COMP. WATER SYS. CO.	1966	H	1325	S	PP
133	4104-7928	GARVER, RONALD	C. EUGENE MYERS	1963	H	1350	S	/SS
134	4105-7922	WEAVER, DAVID	TOY DRILLING CO., INC.	1966	H	1390	T	PA
135	4104-7922	SWARTSFAGER, HARRY	HAROLD MILLER	1965	H	1350	T	/SLTN
136	4101-7929	STEWART, RICHARD	C. EUGENE MYERS	1962	H	1500	H	PP
137	4102-7929	WOLFF, IRENE S.	C. EUGENE MYERS	1962	H	1500	H	/SS
138	4104-7930	SHIMMONS, JAMES	C. EUGENE MYERS	1962	H	1240	S	PA
139	4104-7930	DAVIS, DORIS	KARLS COMP. WATER SYS. CO.	1966	H	1240	S	/SLTN
140	4100-7930	MORTIMER, CLAIR		1951	H	1230	S	PA
141	4100-7930	MORTIMER, CLAIR	C. EUGENE MYERS	1962	H	1300	S	/SS
142	4100-7933	ADAMS, EARL	TOY DRILLING CO., INC.	1966	H	1450	H	PA
143	4100-7933	BOWSER, ARNOLD	TOY DRILLING CO., INC.	1966	H	1420	H	/SS
144	4100-7932	HENRY, WALTER	KARLS COMP. WATER SYS. CO.	1967	H	1360	H	PA
145	4101-7933	YORI, CHARLES O.	KARLS COMP. WATER SYS. CO.	1967	H	1230	S	/SH
146	4102-7930	GILHOUSEN, EVERT	KARLS COMP. WATER SYS. CO.	1967	H	1305	S	PA
147	4124-7913	TITTLE, KENNETH S.	JAY C. GILFORD	1971	H	1620	H	/SS
148	4124-7913	HURON RD & GUN CLUR	JAY C. GILFORD	1969	C	1625	H	PP
149	4123-7912	EMERY, THOMAS	JAY C. GILFORD	1969	H	1600	H	/SH
150	4122-7923	DAUM, NORMAN	JAY C. GILFORD	1971	H	1635	H	PP
152	4122-7921	MORVATH, FRANK	JAY C. GILFORD	1974	H	1530	S	/SS
155	4115-7925	KOPPFERS CORP.			U	1195	S	PP
156	4117-7923				U	1260	T	/
157	4118-7923	SCHMADER			U	1295	T	/
158	4118-7923				U	1270	T	/
159	4119-7922				U	1290	T	/
160	4119-7924				U	1375	S	/
161	4119-7924				U	1380	S	/
162	4119-7924				U	1420	S	/
163	4120-7924				U	1465	S	/
164	4120-7924	DITZ			U	1500	S	/

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	RE- DATE PORTED (MO/YR)	SPECIFIC YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPS)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
255	20	6		60				8	260	6.8	CR- 112
270	62	6									113
42		6	30								114
210	80	6	68/ 90/130/180/205	100		34		7	400	7.1	115
100	23	6									116
90	20	6	90								117
90	22	6	90								118
85	17	6	80	40	8/71	15	7.5				119
50	21	6				2					120
45	20	6				5					121
36		6				30					122
48	32	6				30					123
48		6		27	7/66	10					124
120	18	6	115	95	9/62	.8					125
35		6				10					126
165	35	6	131			2					127
116		6	113	100		3					128
240	22	6									129
67	20	6	23	23	7/62	3					130
40	18	6	31	20	7/62	2					131
120	21	6	100	100	2/73	5		6	260	7.9	132
396		8	250/352/365			5					133
45	26	6	29			10					134
107	62	6	34/ 48/ 93			60					135
86	23	6	23/ 65	20		.8					136
77	22	6	77			2					137
61	20	6	46	46	9/62	6					138
100	24	6	50/ 90	35	2/73	2		37	1300	7.1	139
205	72	8		100							140
102	23	6	88	88	11/62	18					141
215	21	6	103/189	135	10/66	3		7	335	7.7	142
245	16	6	83/217	110		2		5	225	7.5	143
60	20	6									144
60	21	6									145
40	16	6	28	8	2/73	10		6	280	7.7	146
90	15	6	85	40	7/71	4	.10				147
80	18	6	60/ 75	30	6/69	18	1.8				148
95	16	6	45/ 70/ 85	22	6/69	5	.09				149
60	16	6	46/ 55	25	7/71	10	.67				150
65	22	7	45/ 65	36	7/74	20	5.0				152
		10		F	9/72	10			425	4.9	155
		12		F	12/72	116			2360	3.8	156
				F		11			1350	4.3	157
				F		4			885		158
				F		5			620		159
				F	12/72	2			760		160
				F		5			430		161
				F	12/72	26			580	5.1	162
				F		28			445	4.5	163
				F	12/72	5			885		164

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLFR	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	ADUI- FER /LITH- OLOGY
CLARION								
CR- 165	4120-7924	DITZ, ROBERT			U	1515	S	/
166	4118-7923				U	1275	T	/
168	4111-7916	ELDER, RUSSELL		1920	R	1585	H	OCL /UNSD
169	4111-7916	ELDER, RUSSELL		1900	S	1585	H	PA /SS
170	4111-7916	ELDER, RUSSELL	HAROLD MILLER	1967	H	1585	W	PP /SS
171	4109-7923	FRAMPTON, ARNOLD		1964	H	1340	S	PP /SS
172	4109-7923	WEAVER, W.W.		1900	H	1310	S	PP /SS
173	4122-7918	LONGHORN STEAK HUT	FRANCIS L. ALLIO	1972	C	1635	H	PP /SS
174	4118-7917	DICKEY, CLAIR	JAY C. GILFORD	1972	H	1515	S	PP /SS
175	4111-7930	STROMMYER, WILLIAM	C. EUGENE MYERS	1961	H	1330	S	PP /SS
176	4114-7932	SWITZER, RALPH	KARLS COMP. WATER SYS. CO.	1967	H	1415	S	PP /SS
177	4116-7931	FISHER, SAMUEL	KARLS COMP. WATER SYS. CO.	1966	H	1415	S	PP /SS
180	4113-7928	BEIHLS, CARL	KARLS COMP. WATER SYS. CO.	1970	H	1500	H	PP /SS
181	4115-7936	MCHEERY, RONALD	MORROW DRILLING CO.	1969	H	1550	H	PP /SS
182	4113-7936	FLEMING, FRANK	H. W. ZERRE	1963	H	1450	H	PP /SS
183	4113-7937	RINKER, ARLINGTON	H. W. ZERRE	1965	H	1460	S	PP /SS
185	4115-7932	KNIGHT, MAURICE	H. W. ZERRE	1960	H	1470	H	PP /SS
187	4117-7922	SCHMADER, WALTER			U	1420	S	/
188	4111-7914	UNION 76 OIL CO. WELL #2	TOY DRILLING CO., INC.	1971	P	1577	H	ML /SS
189	4119-7923	DAVIS, SUE			H	1340	S	ML /
190	4112-7932	DELOE, VERN	KARLS COMP. WATER SYS. CO.	1967	H	1425	S	PA /SS
191	4116-7927	CLARK, PAT	KARLS COMP. WATER SYS. CO.	1965	H	1500	S	PP /
193	4123-7920	GILFORD SUPPLY		1969	P	1495	S	PP /
194	4114-7935	BARRIS, GERALDINE	KARLS COMP. WATER SYS. CO.	1968	H	1360	S	PP /SS
196	4116-7932	KLINE, AGNEW	H. W. ZERRE	1960	H	1440	S	PP /SS
197	4116-7932	KLINE, AGNEW		1960	H	1440	S	PP /SS
198	4116-7931	MONG, JAMES	H. W. ZERRE	1965	H	1430	S	PP /SS
199	4114-7929	MCCLEARY, GARY	KARLS COMP. WATER SYS. CO.	1969	H	1470	H	PP /SS
200	4114-7932	MCCLEARY, MACK	KARLS COMP. WATER SYS. CO.	1968	H	1390	S	PP /SS
201	4112-7933	BEST, GERALD		1972	H	1425	S	PA /
202	4112-7933	BEST, GERALD			H	1425	S	PA /
203	4112-7933	BEST, GERALD	KARLS COMP. WATER SYS. CO.	1968	Z	1425	S	PP /
204	4111-7931	VANZANDT, CLAIR	KARLS COMP. WATER SYS. CO.	1967	H	1240	W	PP /SS
205	4112-7931	KLINGER, HARRISON	H. W. ZERRE	1957	H	1450	S	PA /SS
206	4112-7932	KLINE, LYNN	KARLS COMP. WATER SYS. CO.	1969	H	1470	S	PP /SS
207	4112-7932	BEST, LAWRENCE	KARLS COMP. WATER SYS. CO.	1966	H	1440	S	PA /SS
208	4112-7932	VICKERS FLOWER SHOP	KARLS COMP. WATER SYS. CO.	1966	H	1465	H	PP /SS
209	4110-7932	HUNSBERGER, JOHN	NEWTON W. ROTH	1969	H	1360	S	PP /SS
210	4111-7932	NEELY, MRS JOHN		1910	H	1455	H	PP /
211	4114-7933	FISHER, NELSON	H. W. ZERRE	1963	H	1415	S	PA /SS
212	4111-7935	DUPREE, DEMPSEY	KARLS COMP. WATER SYS. CO.	1967	H	1470	H	PP /
213	4111-7932	NEELY, MRS JOHN	KARLS COMP. WATER SYS. CO.	1967	H	1455	H	PA /
214	4112-7926	DOLBY, GERALD	TOY DRILLING CO., INC.	1972	H	1445	H	PP /SS
215	4112-7926	DOLBY, GERALD	C. EUGENE MYERS	1970	H	1445	H	PA /SS
216	4111-7927	DOLBY, GERALD	KARLS COMP. WATER SYS. CO.	1967	H	1420	S	PP /SS
217	4116-7930	ROWAN, HENRY	KARLS COMP. WATER SYS. CO.	1970	H	1420	S	PP /SS
218	4115-7929	SERVEY, GEORGE	H. W. ZERRE	1960	H	1320	S	PP /SS
219	4115-7924	ASTRO MFG. CO. INC.	KARLS COMP. WATER SYS. CO.	1970	N	1490	H	PA /SS
220	4116-7923	PFENDLER, CLEM	H. W. ZERRE	1957	H	1550	H	PA /
221	4116-7927	O'NEILL, PAT	KARLS COMP. WATER SYS. CO.	1966	H	1455	H	PP /

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (RPG)	SPECIFIC CONDUCTANCE (MICROMMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
				F	12/72	16			950	5.4	C-165
				F	12/72	15			990		166
12		30		4				6	775	6.5	168
42	20	6		12							169
130	60	6	80/125	69	10/73	16	1.3	27	950	5.8	170
221	22	6		165	12/72	5	.10	15	530	5.4	171
80	20			60							172
47	23	6	24/ 45	9	10/72	7	.13	4	248	4.7	173
90	22	6	88	42	10/72	7	.43	30	1210	3.2	174
41		6	35	12	12/61	20					175
88	22	6	30/ 70								176
80	40	6									177
130	20	6	70/ 85								180
150	30	6	130	110	9/69	4	.40	5	200		181
80		6	72								182
66	12	6	59	30	3/73	6		3	230		183
90	20	6	75	65	3/73	7		9	360		185
		6		F	10/71	130		37	1190	5.3	187
323	303	6	154/240/305	90	8/71	55	1.1	17	1470	6.9	188
30		36		6	5/73	5		8	300		189
120		6									190
135	13	6		40	3/73	5		3	115		191
30	20	6		F	4/72	250		1	64	6.3	193
80	20	6									194
65	8	6		15	4/73	20		23	2200	4.7	196
26	20	6		10				8	480		197
44	21	6	26/ 35	15	4/73	10		16	590	4.3	198
265	35	6						3	120		199
200	20	6	40	55				3	120		200
60	10	6	15	1	5/73			2	120		201
12		42		1	12/72			6	230		202
200	17	6									203
75	23	6		27	5/73	25		3	160		204
69	10	6									205
220	22	6	90/130/208	95	3/70	30		5	220	5.8	206
80	18	6	/ 65	40	4/70	10		2	95	6.5	207
240	40	6	35/100/145/200			20		7	320	6.1	208
105	26	6	95					3	160		209
360	145	6	190/360	180	12/72	50		32	1500	4.8	210
70		6	30/ 60	30	5/73	10		4	160	6.8	211
320	21	6									212
140	22	6									213
322	100	6		103	1/73			34	1180	4.2	214
80	20	6				0					215
120	18	6				0					216
70	23	6	20/ 60			8		1	80	4.8	217
48	19	6	40			5		3	180	4.9	218
180	20	6	36/ 80	95	5/73	6		2	200	5.2	219
70		6	35			5		6	180	5.0	220
100	21	6									221

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
CLARION								
CR- 222	4115-7929	FULTON, R. E.	H. W. ZERRF	1958	H	1410	H	PP /SS
223	4112-7925	SMITH, LEONARD	KARLS COMP. WATER SYS. CO.	1967	H	1420	S	PP /SS
224	4118-7931	WILSON, MRS. ROBERT	HAROLD MILLER	1967	H	1575	S	PA /SH
225	4118-7931	BISH, THOMAS	KARLS COMP. WATER SYS. CO.	1966	H	1555	S	PP /SS
226	4118-7931	BISH, THOMAS	KARLS COMP. WATER SYS. CO.	1966	H	1555	S	PP /SS
227	4118-7925	DAVIS, WILLIAM C.		1961	H	1540	S	PP /
228	4118-7924	KINCH, NORMAN	KARLS COMP. WATER SYS. CO.	1969	H	1645	H	PP /SS
229	4115-7928	HARTZELL, ROY	H. W. ZERRF	1958	H	1255	T	ML /SS
230	4112-7925	ALTMAN, R. M.	CHARLES WAGNER	1912	H	1465	H	PA /SS
231	4112-7925	ALTMAN, R. M.	KARLS COMP. WATER SYS. CO.	1967	Z	1465	H	PP /SS
232	4117-7930	COPE, LAWRENCE	KARLS COMP. WATER SYS. CO.	1966		1440	S	PP /SS
233	4115-7928	HARTZELL, JOHN	H. W. ZERRF	1958	H	1265	S	ML /SS
234	4116-7923	FERRIS, LEWIS	KARLS COMP. WATER SYS. CO.	1968	H	1550	H	PP /SS
235	4112-7933	JEFFERSON STATION			U	1195	V	/
236	4116-7923	FERRIS, LEWIS	JAY C. GILFORD	1971	H	1550	H	PP /
237	4113-7926	HASKELL, GEROME	NEWTON W. ROTH	1973	H	1420	H	PA /SS
238	4115-7923	WHISNER, ORVILLE	JAY C. GILFORD	1973	H	1490	H	PA /SS
239	4113-7922	MCCLURE, GEORGE	KARLS COMP. WATER SYS. CO.	1965	H	1180	S	ML /SS
240	4111-7916	ATKINSON, HAROLD	KARLS COMP. WATER SYS. CO.	1966	H	1605	S	PP /SS
241	4110-7917	AARON, JAMES E.	HAROLD MILLER	1964	H	1570	S	PP /SS
242	4110-7917	RHOADES, RICHARD	RAY MILLER	1965	H	1565	S	PP /SS
243	4112-7916	VOSBURG, THOMAS	NEWTON W. ROTH	1969	H	1495	S	PP /SS
244	4113-7917	CEDAR VIEW PARK	NEWTON W. ROTH	1969	I	1530	H	PP /SS
245	4110-7916	STALEY, LEWIS	HAROLD MILLER	1967	H	1595	S	PA /SH
246	4115-7915	DAUGHERTY, VIRGIL	HAROLD MILLER	1966	H	1635	H	PA /SS
247	4115-7920	MAPLE, JOHN	NEWTON W. ROTH	1969	H	1520	H	PP /SS
248	4106-7929	UNITED NATIONAL GAS CO.			U	1160	T	/
249	4109-7923	MCELRAVY, GERALD	C. EUGENE MYERS	1972	H	1390	S	PP /SLTV
250	4115-7920	MAPLE, GIB	NEWTON W. ROTH	1972	H	1525	H	PP /SS
251	4121-7919	GUTH, MIKE	KARLS COMP. WATER SYS. CO.	1966	H	1600	S	PP /SS
252	4100-7921	BLAIR, CRAIG C.	TOY DRILLING CO., INC.	1967	H	1280	S	PP /SS
253	4105-7920	WHITTLING, ALVIN	KARLS COMP. WATER SYS. CO.	1969	H	1380	S	PP /SS
254	4106-7919	MILES, THAD	KARLS COMP. WATER SYS. CO.	1967	H	1435	S	PP /SS
256	4101-7934	UNITED NATURAL GAS CO.			U	1240	S	PA /SH
257	4113-7925	SHAW MACK GARAGE	NEWTON W. ROTH	1973	N	1435	H	PA /SS
258	4102-7919	MINICH, JAMES	KARLS COMP. WATER SYS. CO.	1966	H	1280	S	PP /SS
259	4106-7928	MCHENRY, EMMET	KARLS COMP. WATER SYS. CO.	1966	H	1220	S	ML /SS
260	4109-7927	HEPLER, LYNN	C. EUGENE MYERS	1966	H	1270	S	PP /SS
261	4109-7927	HARTLE, RICHARD	C. EUGENE MYERS	1964	H	1385	H	PP /SS
262	4114-7929	RHEA	NEWTON W. ROTH	1973	H	1455	S	PP /SS
263	4104-7929	C&K COAL CO.	KARLS COMP. WATER SYS. CO.	1973	H	1345	S	PA /SH
264	4105-7930		KARLS COMP. WATER SYS. CO.	1973	H	1345	H	PA /SH
265	4104-7930		KARLS COMP. WATER SYS. CO.	1973	H	1290	S	PA /SH
266	4103-7930		KARLS COMP. WATER SYS. CO.	1973	H	1290	S	PA /SH
267	4104-7929		KARLS COMP. WATER SYS. CO.	1973	H	1285	T	PA /SH
268	4105-7930		KARLS COMP. WATER SYS. CO.	1973	H	1255	S	PA /SH
269	4118-7924		KARLS COMP. WATER SYS. CO.	1973	H	1520	H	PA /
270	4118-7924		KARLS COMP. WATER SYS. CO.	1973	H	1540	S	PA /
271	4118-7924		KARLS COMP. WATER SYS. CO.	1973	H	1610	H	PA /
272	4118-7925	FASENMYER, LAWRENCE #4	KARLS COMP. WATER SYS. CO.	1973	H	1550	S	PP /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
90	22	6	85	40	5/58						CR- 222
140	22	6									223
80	20	6	28/ 71	47	10/69	18					224
81		6									225
210	64	6									226
65	40	6		48							227
325	66	6	76								228
49	20	6	40								229
41	22	6		24				3	160	5.1	230
160	20	6									231
120	17	6									232
45	12	6	40								233
105	21	6	82	37	1/73	8	.48	4	230	4.7	234
		6		F	5/72	20		5	315	5.7	235
92	20	6	90	55	1/73	9	.44	4	230	4.9	236
75	40	6		4	7/73	18	1.3	23	1200	4.3	237
58	20	6	50	32	7/73	10	1.0	2	95	5.9	238
119	21	5	115	60	3/73	3	.05	27	1080	5.2	239
200	21	6	100/190	80		2		3	120	6.8	240
147	77	6	115/130/140			34		4	175	6.7	241
133	69	6	22/ 55/ 90/106/115			12		3	140	6.5	242
120	65	6	70/110			10		2	100	6.2	243
137	29	6	50/ 90/115	48		40		3	125	6.0	244
71	23	6	34/ 55	40	8/67	34	5.6	2	120	6.7	245
85	41	6	62/ 68/ 75	47	2/73	42		1	150		246
175	21	6	168			10		4	190		247
		6		F	8/73	25			4500	5.7	248
70		6	50	43	8/73	2		2	80		249
106	26	6	45/102	23	1/73	7	.08	3	110	6.2	250
160	22	6	35/ 90/140	65	8/73	50		12	875	4.7	251
124	21	6		55				7	340	6.8	252
100	18	6	30/ 55	25				7	280	6.7	253
120	21	6	95	40				4	135	6.6	254
91	0			43	8/73	3	.13	3	140	4.4	256
101		6		14	9/73	14	.48	6	260	6.9	257
140	21	6	70/130	48				12	475	5.9	258
240	168	6	186/230	60	9/73	65		29	2050	4.8	259
60	21	6				3					260
215	30	6	208	120	9/64	15		2	100	4.9	261
230	80	04	80/225								262
90			74	31	10/73	1	.03	3	160	6.3	263
93				58	10/73						264
60				49	9/73						265
60				35	9/73					6.1	266
60				49	10/73						267
30				11	10/73					5.1	268
28											269
35				22	10/73						270
62				39	10/73						271
62			48/ 60	25	10/73	1.5	.09	2	60	7.5	272

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
CLARION								
CR- 273	4118-7925		KARLS COMP. WATER SYS. CO.	1973	H	1610	H	PA
274	4118-7924		KARLS COMP. WATER SYS. CO.	1973	H	1610	S	PA
275	4118-7925		KARLS COMP. WATER SYS. CO.	1973	H	1580	S	PA
276	4117-7925		KARLS COMP. WATER SYS. CO.	1973	H	1600	H	PA
277	4115-7923	STATE GAME LANDS	KARLS COMP. WATER SYS. CO.	1973	H	1500	S	PP
278	4115-7923	STATE GAME LANDS	KARLS COMP. WATER SYS. CO.	1923	H	1500	H	PA
279	4115-7923	STATE GAME LANDS	KARLS COMP. WATER SYS. CO.	1973	H	1510	S	PA
280	4115-7923	STATE GAME LANDS	KARLS COMP. WATER SYS. CO.	1973	H	1530	S	PA
281	4115-7923		KARLS COMP. WATER SYS. CO.	1973	H	1500	S	PA
282	4113-7926	HASKELL, GEROME	NEWTON W. ROTH	1973	H	1430	H	PP
284	4118-7925	FASEMYER-USGS WELL 4	NEWTON W. ROTH	1973	H	1540	S	/SS
285	4122-7921	GILFORD, JAY	JAY C. GILFORD	1974	H	1565	H	ML
286	4115-7915	JOHNSTON, WILBUR	NEWTON W. ROTH	1973	H	1640	H	/SS
287	4115-7915	SEMONIK, TOM	NEWTON W. ROTH	1973	H	1640	H	PA
288	4115-7915	MCCARTNEY, LONIE	NEWTON W. ROTH	1973	H	1640	H	/SS
289	4113-7926	SOURCE INC.	NEWTON W. ROTH	1973	U	1420	H	PP
290	4115-7923	STATE GAME LANDS 72 USGS		1974	H	1510	H	/SS
291	4107-7931	SLAUGENHOU, WALTER	KARLS COMP. WATER SYS. CO.	1972	H	1285	S	PA
292	4123-7914	TOM'S RUN				1520	S	/SH
293	4107-7932	SLAUGENHOU, PAUL	C. EUGENE MYERS	1970	H	1085	T	PP
294	4107-7932	SLAUGENHOU, PAUL	C. EUGENE MYERS	1973	S	1085	T	/SS
295	4113-7924	BODOH, JOHN	KARLS COMP. WATER SYS. CO.	1974	H	1275	W	ML
297	4115-7921					1420	S	/SS
299	4121-7925	MAHLE, MIKE				1595	S	PP
300	4109-7920	COGLEY, BERYL	KARLS COMP. WATER SYS. CO.	1973	H	1480	S	/SS
301	4108-7919	CARLSON, ALBERT	KARLS COMP. WATER SYS. CO.	1969	H	1480	S	PP
302	4111-7932	PATTON, HENRY			H	1415	S	/SS
303	4111-7933				U	1195	T	QCL
304	4106-7927	MCDONALD FARM			U	1190	T	/
305	4105-7926	CURLLSVILLE METHODIST CHURCH			U	1200	T	/
306	4109-7914	STAHLMAN COAL CO.			U	1470	S	/
307	4112-7913	MARKEL FARM			U	1350	T	/
308	4112-7913				U	1370	T	/
309	4119-7919	OCHS, W. J.			U	1390	S	/
310	4118-7925				U	1425	S	/
311	4122-7919				U	1520	T	/
312	4122-7917	HAMMITT, EVELYN-CULP			U	1490	S	/
313	4119-7917	NIEDERRITER			U	1380	S	/
314	4118-7923	AUL, C. B.			U	1290	T	/
315	4116-7922				U	1330	S	/
316	4119-7922	LAUER, TOM			U	1310	S	/
317	4122-7922	GILFORD, JAY			U	1520	S	PP
318	4122-7921					1470	T	/
319	4123-7921	GILFORD, JAY			U	1500	W	/
320	4121-7921				U	1390	T	/
321	4119-7917	LASHER, J. H.			U	1375	T	/
322	4122-7919				U	1525	T	/
323	4123-7921	NORTH CLARION HIGH SCHOOL			U	1530	S	/
324	4123-7921				S	1495	T	ML
325	4120-7922				U	1350	S	/SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH BELOW LAND SURFACE (FEET)	LEVEL DATE MEASURED (MO/YR)	RF- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
53		6		49	10/73						CR- 273
63		6	56	53	10/73						274
28											275
60		6			10/73						276
103			46/101	70	10/73	2	.05	10	750	5.6	277
122			36	56	10/73	3	.05	35	1900	4.4	278
61				54	10/73						279
37					10/73						280
114					10/73					6.0	281
195	100	6	/184	168	10/73	6	10	11	420	6.0	282
235	110	6	146/210/225	149	1/74	12	1.1	58	2600	6.2	284
237	10	10	95/185/234	53	1/74	16	1.3	5	350	4.5	285
75		6		35	2/74	5		1	44	5.8	286
75				30		5					287
105				45		3					288
182	121	6		168	10/73	4	4.5	4	320	6.6	289
345	100	7		304	6/74	5		15	805	6.3	290
51				F		4			2550	6.4	291
363	12	8	130/210/260	F							292
64	40	6		45	10/73	6		2	95	5.5	293
75	20	6		50	10/73	10	.40	3	132	6.5	294
165	106	6	30/154	75	8/74	4	.05	4	210		295
338				100					5800	3.2	297
578	80	8		52				2	1000	4.4	299
225	90	6	100/220	80	10/74	30	3.0	9	450	6.0	300
150	21	6		26	8/69	5		9	700	6.0	301
28		48		6	1/75						302
		6		F	5/72	15		6	620	6.5	303
				F	5/73	10			420	6.4	304
				F	5/73	10			450	7.1	305
				F	9/72	5			780	3.3	306
				F	9/73	30			2600	4.6	307
				F	8/73	3			5200	2.9	308
		12		F	9/73	73			2070	4.0	309
				F	3/73	15			1500	5.3	310
		10		F	8/73	34			4000	5.3	311
				F	9/73	36			230	6.3	312
				F	9/73	45			1100	3.6	313
				F	7/72	13			895	4.9	314
				F	9/72	46		70	2750	5.3	315
				F	9/72	12			580	4.7	316
				F	9/72	90		26	1780		317
				F	10/72	3			1060	6.5	318
				F	10/72	10			2900	4.7	319
				F	10/72	12			500	3.8	320
				F	9/72	35			1100	5.2	321
				F	9/72	85			1720		322
				F	9/72	3			3900	5.2	323
				F	9/72	44			1850	6.8	324
				F	5/72	6			540	6.5	325

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
CLARION								
CR- 326	4117-7926				U	1300	S	/
327	4115-7922	STATF GAME LANDS				1195	T	/
328	4117-7919	ABRAHAM, RALPH			U	1275	T	/
329	4119-7919	SCHWAENHAUER, F.			U	1435	T	/
330	4116-7929				U	1355	T	/
331	4115-7925				U	1220	S	/
332	4120-7917	OCHS, REGIS			U	1440	S	/
333	4122-7921				U	1460	S	/
334	4106-7927	MCCALL FARM			U	1190	T	/
335	4104-7929	SMITH, CAPL H.	C. EUGENE MYERS	1956	H	1290	S	PP /SS
336	4116-7923	ZACHERL, D. J.			I	1540	S	PA /DAL
337	4117-7922	SCHMAEDER, W. S.		1955	H	1440	S	ALVM
338	4115-7921	STATF GAME LANDS			U	1200	S	/
339	4115-7921	STATF GAME LANDS			U	1210	S	/
340	4115-7921	STATF GAME LANDS			U	1210	S	/
341	4105-7930				U	1260	S	/
342	4123-7920	HALL FARM			U	1510	S	/
343	4120-7920				U	1450	S	/
344	4121-7923				U	1505	S	/
345	4120-7923				U	1470	S	/
346	4119-7923				U	1300	T	/
347	4118-7926				U	1380	S	/
348	4117-7929				U	1380	S	/
349	4117-7929				U	1350	T	/
350	4116-7929				U	1370	S	/
351	4120-7917				U	1420	S	/
352	4119-7919				U	1410	T	/
353	4119-7917				U	1375	T	/
354	4118-7919				U	1295	T	/
355	4117-7920				U	1255	T	/
356	4117-7920				U	1245	T	/
357	4116-7921				U	1235	T	/
358	4119-7921	GATESMAN GARAGE	KARLS COMP. WATER SYS. CO.	1966	H	1580	S	PP /SS
359	4118-7921	OCHS, CARL	KARLS COMP. WATER SYS. CO.	1966	H	1570	S	PP /SS
360	4119-7921	GROLFELMUND, NASH	KARLS COMP. WATER SYS. CO.	1966	H	1400	H	PP /SS
361	4118-7921	LAUF, J. P.	KARLS COMP. WATER SYS. CO.	1969	H	1540	S	PP /SS
391	4111-7929	PENNODT	MOODY DRILLING CO., INC.	1970	H	1460	S	ML /SS
395	4116-7923	ZACHERL, DAVID	JAY C. GILFORD	1974	H	1500	S	PP /SS
396	4115-7923	SMALL, J. R.	JAY C. GILFORD	1974	H	1510	S	PP /SS
397	4123-7914	NORTH PINE GROVE REC. AREA			U	1520	S	/
398	4122-7914	COCKS FOREST STATE PARK			U	1370	S	/
399	4121-7914	COCKS FOREST STATE PARK			U	1450	S	/
400	4121-7913	COCKS FOREST STATE PARK			U	1400	S	/
401	4112-7938	DEHART, FRED	L. M. MELAT	1966	H	1420	S	PP /
402	4119-7921	LUTZ, WINFIELD	JAY C. GILFORD	1971	H	1585	H	PP /SS
412	4119-7921	SHOUP, DON	KARLS COMP. WATER SYS. CO.	1975	H	1610	H	PP /SS
413	4118-7922	JOHNSON, G. M.	KARLS COMP. WATER SYS. CO.	1975	H	1520	S	PP /SH
414	4114-7929	RITTS, VERNON	KARLS COMP. WATER SYS. CO.	1975	H	1445	H	PP /SS
415	4112-7925	TOOL, CHARLES	KARLS COMP. WATER SYS. CO.	1975	H	1445	H	ML /SS
416	4112-7928	STARLER, HIRAM	KARLS COMP. WATER SYS. CO.	1975	H	1395	S	PP /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
				F	3/73	13			500	5.6	CR- 326
				F	9/72	35			4950	5.6	327
				F	9/72	13		36	2300	6.0	328
				F	9/72	3			4000	3.1	329
				F	7/72	11			530	5.9	330
				F	7/72	15			375	7.1	331
		8		F	9/72	200			378	5.8	332
				F	3/73	2			330	6.1	333
				F	5/73	30			560	6.6	334
260	175	6	190/230	200	2/74	30		31	3000	7.4	335
37	10	54		8	2/74	10		3	260	5.0	336
32	5	30		1	2/75	2		2	220	5.0	337
				F	7/73	2		40	2900	4.6	338
				F	7/73	1		42	2200	4.3	339
				F	7/73	4		38	1350	4.2	340
				F	3/74	75		88	1380	4.3	341
				F	7/74	27			1380	5.4	342
				F	7/74	75			1300	3.7	343
				F	7/74	13			890	3.2	344
				F	7/74	6			610	5.8	345
				F	8/74	120			805	5.3	346
				F	8/74	38			2100	4.7	347
				F	8/74	40			620	4.3	348
				F	8/74	28			1270	4.5	349
				F	8/74	42			725	4.8	350
				F	8/74	47			1080	5.2	351
				F	8/74	51			2420	4.7	352
				F	8/74	28			1500	4.5	353
				F	8/74	6			725	6.7	354
				F	8/74	32			545	4.8	355
				F	8/74	11			1120	5.9	356
				F	8/74	14			1100		357
121	20	6	85	65							358
140	10	6									359
130	14	6		10							360
55	21	6		15	1/73	10	.40	7	400	4.2	361
404	155	6	115/331	207	5/77	35	4.4	3		6.8	391
65	18	6	45/ 63	35	7/74	12	1.7		290		395
67	23	6	45/ 64	35	7/74	8	.67	9	350		396
		7		F		15			818	5.2	397
				F		8			285	6.6	398
		10		F					1280	4.3	399
				F		6			360	6.3	400
80	10	8	10	16	9/75	3	.09	8	267	7.1	401
90	20	6	90	49	9/75	7	.27	8	590	4.2	402
138	18	6		50	12/75	5	.07	11	520		412
78	50	6	20/ 55	25	10/75	5					413
235	16	6	73/103	52	9/75	4					414
418	21	6	378	100	8/75	7					415
90	19	6		36	12/75	3	.06				416

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH BELOW LAND SURFACE (FEET)	LEVEL DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (RPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
157	63	6		85	10/75	4	.07				CO- 417
138	42	6	55/110/129	57	10/75	15					418
357	21	6	236	105	8/75	9					419
278	23	6		43	11/75	6	.06				420
85	20	6	54/ 70	35	5/72	10	2.0				429
135	22	6	80/125	65	9/72	6	.10				430
85	17	6	32/ 78	20	5/72	4	.07				431
65	18	6	42/ 52	32	5/71	6	.24				432
95	18	6	45/ 88	35	6/74	4	.08				433
85	15	6	50/ 80	30	6/72	15	1.0				434
75	18	6	37/ 70	32	7/75	3	.12	9	300		435
75	18	6	40/ 65	35	9/75	8	.32				436
125	20	6	72/115	60	8/75	6	.12				437
95	18	6	70/ 87	75	5/74	12	1.2				438
85	18	6	42/ 75	30	4/72	7	.20				439
75	20	6	40/ 65	40	8/75	8	.40				440
95	18	6	50/ 85	50	8/75	7	.23				441
180	21	6	70/124	26	4/75	6	.05		130		442
198	22	6	180	40	9/75	10	.17	2	160		443
98	23	6		22	7/75	4	.07	8	288		444
198	24	6		00	7/75	6		10	340		445
119	29	6	92	76	9/75	10	4.3	8	1400	6.1	446
119	40	6	43/114	45	10/75	5					447
160	20	6	37	80	5/75	3					448
138	52	6		57	9/75	4	.08	8	290		449
180	175	6		95		30		7	295	6.6	450
30	20	6		4	3/76	20		6	360	6.8	451
250	164	6		75				6	3300	6.8	452
57	35	6		5	3/74	20		2	115	6.4	453
21		6		18		25			715		454
14	14	84		3		14			920		455
								18	875	6.3	456
100	20	6		15		10		2	68	5.2	457
158	85	6	55/123	10	1/77	8		9	340	6.8	458
340	126	8		69	9/76	220			2750		500
70	44	8	35/ 40/ 52	3	10/76	155	3.6	6	240	6.9	501
50	25	6	45			10					502
55		6									503
90	66	6									504
141		6									505
200	60	5									506
77	30	6				5					507
141	42	6	90/124								508
54	21	6	50			15					509
55	22	6				6					510
75	44	6									511
80		6				15					512
90	18	6	80			20					513
50	12	6	45								514
180	43	6	43			6					515

TABLE- 1.

WELL NUMBER	LOCATION LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO-GRAPHIC SETTING	ADDITIONAL LITHOLOGY
CLARION								
CR- 516	4111-7934	ZACHERAL, R.L.	KARLS COMP. WATER SYS. CO.	1974	H	1345	S	PA
517	4115-7934	BHOSIUS, E.R.	C. EUGENE MYERS	1974	H	1500	S	/SS
518	4115-7934	COTHRMAN, MICHAEL	C. EUGENE MYERS	1975	H	1500	H	PA
519	4116-7931	O'MALLEY, F.S.	H. W. ZERRE	1957	H	1435	T	/SH
520	4116-7933	ST. MARKS LUTHERAN CHURCH	WILLIAM H. ZERRE	1976	H	1530	H	PP
521	4120-7924	GARLER, B.V.	KARLS COMP. WATER SYS. CO.	1972	H	1545	S	/SS
522	4115-7926	MCELREE, T.N.	C. EUGENE MYERS	1972	H	1385	S	PP
523	4116-7928	DAVIS, C.W.	KARLS COMP. WATER SYS. CO.	1966	H	1285	S	/SH
524	4118-7927	STANLEY, G.I.	KARLS COMP. WATER SYS. CO.	1976	H	1555	S	/SS
525	4122-7917	BELLOTTI, F.F.	JAY C. GILFORD	1965	H	1625	S	PP
526	4123-7916	BHOSIUS, K.F.	KARLS COMP. WATER SYS. CO.	1966	H	1575	T	/SS
527	4123-7915	CULP, L.J.	KARLS COMP. WATER SYS. CO.	1972	H	1660	H	PP
528	4123-7919	BROWN, J.H.	KARLS COMP. WATER SYS. CO.	1974	H	1570	S	/SS
529	4123-7920	PEEPERS, JACK	JAY C. GILFORD	1966	H	1515	T	PP
530	4115-7915	SCOTT, D.E.	KARLS COMP. WATER SYS. CO.	1976	H	1510	S	/SS
531	4115-7916	PITLOCK, A.J.	HAROLD MILLER	1967	H	1540	H	PP
532	4116-7916	CORFEE, E.L.	NEWTON W. ROOTH	1969	H	1525	S	/SS
533	4115-7915	MADDEN, R.L.	C. EUGENE MYERS	1976	H	1595	S	PP
534	4119-7916	DESANTO, BETTY	KARLS COMP. WATER SYS. CO.	1976	H	1540	H	/SS
535	4119-7915	HURNER, R.L.	JAY C. GILFORD	1970	H	1550	H	PP
536	4121-7916	GWEEN, C.L.	HARRY BROS.	1968	H	1550	S	/SS
537	4122-7919	IRWIN, HARRIFT	KARLS COMP. WATER SYS. CO.	1966	H	1625	H	PP
538	4120-7920	BAUER, D.A.	FRANCIS L. ALLIO	1974	H	1600	H	/SS
539	4119-7921	GATESMAN, J.A.	FREDERICK DRILLING CO.	1976	H	1580	S	PP
540	4107-7925	LERCH, R.A.	C. EUGENE MYERS	1973	H	1360	S	/SS
541	4108-7924	REICHNER, M.P.	C. EUGENE MYERS	1974	H	1340	S	PA
542	4107-7926	KINDEL, C.R.	C. EUGENE MYERS	1970	H	1330	S	/SS
543	4110-7923	REICHNER, T.L.	C. EUGENE MYERS	1975	H	1350	S	/SH
544	4109-7923	MORTIMER, DANIEL	C. EUGENE MYERS	1976	H	1365	S	PP
545	4109-7923	FINLAN, T.G.	KARLS COMP. WATER SYS. CO.	1976	H	1345	S	/SH
546	4110-7925	MCCOOL, K.L.	HARRY BROS.	1975	H	1125	S	PP
547	4113-7925	MCLAIN, J.L.	C. EUGENE MYERS	1975	H	1440	H	/SS
548	4113-7924	WATSON, H.L.	KARLS COMP. WATER SYS. CO.	1966	H	1110	S	PA
549	4113-7922	HINES, J.P.	KARLS COMP. WATER SYS. CO.	1973	H	1130	S	/SH
550	4113-7928	ARNOLD, R.W., MAJ.	KARLS COMP. WATER SYS. CO.	1974	H	1500	H	/SS
551	4114-7928	MARTUCCI, M.D.	C. EUGENE MYERS	1973	H	1320	S	PP
552	4114-7928	HRINDLEY, N.D.	KARLS COMP. WATER SYS. CO.	1974	H	1335	S	/SS
553	4113-7929	CLAYPOOL, RALPH	C. EUGENE MYERS	1972	H	1480	H	PA
554	4111-7929	HLACK, L.B.	C. EUGENE MYERS	1974	H	1485	H	/SH
555	4106-7919	RHOADS, K.E.	KARLS COMP. WATER SYS. CO.	1976	H	1440	S	/SS
556	4106-7919	BOWERSOX, R.F.	KARLS COMP. WATER SYS. CO.	1975	H	1500	S	PP
557	4116-7926	FURLONG, R.K.	C. EUGENE MYERS	1972	H	1400	S	/SS
558	4118-7923	PHI SIGMA EPSILON	KARLS COMP. WATER SYS. CO.	1972	H	1285	T	PP
559	4101-7924	SAYERS, B.G.	KARLS COMP. WATER SYS. CO.	1974	H	1295	S	/SH
560	4102-7927	STEWART, W.T.	C. EUGENE MYERS	1973	H	1440	S	PA
561	4101-7928	HOWSE, W.A.	C. EUGENE MYERS	1975	H	1200	S	/SH
562	4101-7929	MANSON, EVERETT	C. EUGENE MYERS	1973	H	1475	H	PP
563	4101-7929	COACHMAN, R.L.	C. EUGENE MYERS	1963	H	1510	H	/SS
564	4103-7929	SACRIPANTI, LOUISE	KARLS COMP. WATER SYS. CO.	1968	H	1360	S	PA
565	4103-7928	JOHNSTON, W.S.	C. EUGENE MYERS	1973	H	1475	H	/SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH BELOW LAND SURFACE (FEET)	LEVEL DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
50		6	40			6					CW- 516
48	20	6	38			4					517
76	20	6	60			25					518
32	17	6	20	16	10/57						519
180	20	6	140	110	10/76						520
70	23	6	10/ 38/ 48/ 55								521
40	18		40	40	6/72	20	4.0				522
80	19	6									523
178	110	6				3					524
88	14	6	68/ 85			3					525
60	21	6									526
160	20	6	145								527
80	21	6	49			6					528
50	16	6	33/ 45								529
119	21	6				5					530
90	21	6	68/ 85	60	10/67	5	.12				531
75	20	6									532
127		6				25					533
192	17	6				6					534
65	18	6	35/ 58	30	8/70	3	.10				535
45	16	7				8					536
141		6									537
86	22	6	40								538
60	14	6	30/ 41/ 50	30	1/76	25	5.0				539
49	20		40			50					540
50	29	6				20					541
70	11	6	40	40		3					542
87	20	6	72			12					543
60	20	6				30					544
159	23	6				4					545
58	38	6		25	8/75	30					546
77	20	6	55			1					547
49	27	6									548
105	64	6	53			8					549
295	20	6	261/285								550
75	53	6	40/ 56			40					551
165	21	6	85/125			5					552
71	20	6	55								553
65	20	6				15					554
98	21	6				6					555
190	39	6				7					556
54	21	6	50	8	5/72						557
44	42	6									558
88	26	6	60			8					559
88	25	6	88		1/73	2					560
97	24	6	90			20					561
56	22	6	43			9					562
53	22	6				3					563
60	27	6									564
130	22		118	118	4/73	14	7.0				565

TABLE- 1.

WELL NUMBER	LOCATION LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO-GRAPHIC SETTING	AQUIFER /LITH- OLOGY
CLARTON								
CR- 566	4104-7929	JONES, J. R.	C. EUGENE MYERS	1970	H	1375	S	PA /SLTN
567	4104-7929	SALIZONI, V. J.	C. EUGENE MYERS	1977	H	1300	S	PA /SLTN
568	4104-7929	AITES, W. A.	C. EUGENE MYERS	1974	H	1290	T	PA /SH
569	4105-7929	RADAKER, R. R.	C. EUGENE MYERS	1970	H	1340	T	PA /SS
570	4106-7929	SIMPSON, W. A.	C. EUGENE MYERS	1975	H	1205	S	PP /SS
571	4106-7928	KARPINSKI, B. J.	C. EUGENE MYERS	1973	H	1220	S	PP /SS
572	4106-7922	SCHAFFER, H. V.	C. EUGENE MYERS	1975	H	1350	S	PP /SLTN
573	4106-7923	MCCALL, W. B.	C. EUGENE MYERS	1979	Z	1545	H	PA /SLTN
574	4105-7919	SNUG HARBOUR RESTAURANT	HAROLD MILLER	1973	C	1590	S	PP /SS
575	4104-7919	ALLORI, EDWARD	KARLS COMP. WATER SYS. CO.	1976	H	1425	T	PP /SS
576	4100-7920	GRUVER, G. P.	TOY DRILLING CO., INC.	1976	H	1330	S	PA /SH
577	4100-7921	WHITE, R. M., JR.	TOY DRILLING CO., INC.	1975	H	1320	S	PA /SH
578	4100-7920	WILE, R. L.	KARLS COMP. WATER SYS. CO.	1967	H	1195	S	PA /SS
579	4101-7916	SHUEY, C. R.	TOY DRILLING CO., INC.	1965	H	1110	T	PP /SS
580	4116-7913	SCHRECKENGOST, J. L.	HAROLD MILLER	1967	H	1595	S	PP /SS
581	4116-7913	BRADFORD, J. F.	HAROLD MILLER	1967	H	1675	S	PA /SH
582	4116-7913	CATHCART, SAMUEL	KARLS COMP. WATER SYS. CO.	1972	H	1660	S	PP /SS
583	4118-7913	GOURLEY, D. G.	JAY C. GILFORD	1965	H	1155	S	ML /SS
584	4120-7914	COXON, NICHOLAS, JR.	JAY C. GILFORD	1965	H	1540	H	PP /SS
585	4120-7914	ANDZELIK, OZELLA	KARLS COMP. WATER SYS. CO.	1966	H	1530	S	PP /SS
586	4121-7914	NEAL, C. D.	JAY C. GILFORD	1969	H	1555	S	PP /SS
587	4121-7912	CHONO, P. A.	JAY C. GILFORD	1969	H	1590	H	PP /SS
588	4122-7913	GREGORY, A. J.	JAY C. GILFORD	1969	H	1585	H	PP /SS
589	4123-7913	FITZGERALD, R. J., JR.	KARLS COMP. WATER SYS. CO.	1976	H	1630	H	PP /SS
590	4124-7913	SHAFFER, K. W.	KARLS COMP. WATER SYS. CO.	1974	H	1630	H	PP /SS
591	4123-7922	RAPP, R. T.	FREDERICK DRILLING CO.	1976	H	1575	S	PP /SS
592	4123-7922	LICHENPERGER, R. C.	JAY C. GILFORD	1972	H	1585	S	PP /SS
593	4114-7917	HOLZHAUSER, R. J.	HAROLD MILLER	1968	H	1550	S	PP /SS
594	4113-7917	SERVEY, RICHARD	NEWTON W. ROTH	1970	H	1535	H	PA /SS
595	4109-7916	BAUGHMAN, C. R.	KARLS COMP. WATER SYS. CO.	1969	H	1610	S	PP /SS
596	4109-7915	SMITH, V. E.	C. EUGENE MYERS	1973	H	1620	S	PP /SH
597	4110-7918	MAUTHE, W. P.	KARLS COMP. WATER SYS. CO.	1972	H	1480	S	PP /SS
598	4107-7919	REED, ELMER	KARLS COMP. WATER SYS. CO.	1975	H	1440	S	PP /SS
599	4107-7919	COLLETT, VICTOR	HAROLD MILLER	1967	H	1420	S	PP /SS
600	4107-7919	LIMESTONE BAPTIST CHURCH	KARLS COMP. WATER SYS. CO.	1967	H	1300	S	PP /SS
601	4107-7920	REPÖFF, M. A.	KARLS COMP. WATER SYS. CO.	1976	H	1250	S	PP /SS
602	4108-7919	MYERS, J. N.	NEWTON W. ROTH	1969	H	1400	H	PP /SS
603	4108-7921	LEWACK, STEVE, JR.	NEWTON W. ROTH	1969	H	1260	S	PP /SS
604	4110-7919	MCGRANE, J. J.	HAROLD MILLER	1966	H	1510	S	PP /SS
605	4110-7920	COOK, F. R.	HAROLD MILLER	1966	H	1430	T	PP /SS
606	4110-7922	NELSON, J. R.	KARLS COMP. WATER SYS. CO.	1967	H	1440	S	PA /SS
607	4110-7922	REID, ORLAN	C. EUGENE MYERS	1962	H	1370	S	PA /SS
608	4111-7821	HURAUER, J. E.	C. EUGENE MYERS	1966	H	1360	S	PP /SS
609	4111-7921	GATHERS, J. L.	C. EUGENE MYERS	1966	H	1360	S	PP /SS
610	4111-7919	WIKE, G. H.	HAROLD MILLER	1967	H	1465	S	PA /SS
611	4111-7921	GRAHAM, D. D.	KARLS COMP. WATER SYS. CO.	1967	H	1425	T	PP /SS
612	4111-7920	EMINGS, W. J.	KARLS COMP. WATER SYS. CO.	1967	H	1545	S	PP /SS
613	4114-7918	THOMPSON, J. R.	HAROLD MILLER	1968	H	1110	S	ML /SH
614	4114-7918	ADAMS, E. S.	KARLS COMP. WATER SYS. CO.	1974	H	1110	S	ML /SH
615	4114-7916	GATTS, S. S.	JAY C. GILFORD	1965	H	1485	S	PP /SS

-- RECORD OF WELLS, CONTINUED --

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (RPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
67	20	6	60	60	9/70	30					CH- 566
100	69	6	95			25					567
92	69	6	86			4					568
45	37	6	20/ 40	30	9/70	6					569
30	20	6	25			25					570
66	21	6	60			30					571
45	32	70	33			8					572
99	21	6	90			6					573
302	100	6	42/180/287	240	10/73	8					574
60	57	6				6					575
55	3	6				3					576
80	22	6	40			4					577
80	18	6									578
105	22	6	97								579
91	58	6	50/ 65/ 82	60	5/67	12					580
61	27	6	50	40	8/67	32	8.0				581
50	21	6	40								582
45	14	6	34/ 42								583
42	16	6	12/ 37	10	7/65						584
100	18	6									585
80	15	6	30/ 70	30	9/69	3	.08				586
110	19	6	57/ 70/100	45	4/69	10	.25				587
95	16	6	45/ 70/ 85	22	6/69	5					588
90	20	6	51/ 75			50					589
144	39	6	122/130			10					590
110	12	6	18/ 90								591
55	18	6	34/ 50	25	6/72	3	.15				592
125	22	6	35/115	100	12/68	4	.27				593
75	23	6									594
165	22	6									595
99	50	6	85			20					596
210	21	6	193								597
158	20	6				4					598
48	40	6	42	10	10/67	34	4.8				599
100	12	6									600
58	39	6				5					601
150	21	6									602
120	22	6									603
118	83	6	65/ 77/ 90/105								604
102	25	6	45/ 65/ 90			13					605
60	18	6									606
36	21	6		26	9/62	1					607
102	20	6	70/ 90								608
54	36	6				30					609
41	19	6	23/ 34	20	4/67	8	.38				610
80	21	6	65								611
250		6									612
73	44	6	57/ 64	30	4/68	45					613
45	21	6		35	6/74	10					614
55	16	6				2					615

TABLE- 1.

WELL NUMBER	LOCATION LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPOGRAPHIC SETTING	ADULT-FER/LITHOLOGY
CLARION								
CR- 616	4107-7919	COLLETT,VICTOR	NEWTON W. ROTH	1969	H	1420	S	PP /SS
617	4120-7915	STEIGERWALD,RICHARD	NEWTON W. ROTH	1969	H	1540	T	PP /SS
618	4110-7914	EXXON CORP.	KARLS COMP. WATER SYS. CO.	1972	C	1575	S	PP /SS
619	4107-7933	HOLLIDAY,FRANK	C. EUGENE MYERS	1976	H	1070	T	PP /SS
620	4105-7933	STANTS,J.G.	C. EUGENE MYERS	1963	H	1090	S	PP /SH
621	4106-7936	CALLANDER,DONEL	C. EUGENE MYERS	1975	H	1310	S	PA /SLTV
622	4105-7937	MCCALL,H.R.	C. EUGENE MYERS	1962	H	1295	T	PA /SS
623	4100-7933	SLABE,STEVE, JR.	C. EUGENE MYERS	1975	H	1425	H	PA /SLTV
624	4100-7932	CONNER,G.V.	C. EUGENE MYERS	1977	H	1390	S	PA /SH
625	4100-7930	CRAIG,D.F.	C. EUGENE MYERS	1973	H	1420	S	PA /SH
626	4101-7932	SLIGHER,G.J.	C. EUGENE MYERS	1973	H	1340	S	PA /SS
627	4101-7933	RETTIG,L.H.	C. EUGENE MYERS	1975	H	1270	S	PA /SS
628	4101-7933	KERR,VERNER	C. EUGENE MYERS	1977	H	1280	S	PA /SS
629	4101-7931	HAWK,D.R.	C. EUGENE MYERS	1977	H	1485	H	PA /SS
630	4101-7930	HAWK,R.R.	C. EUGENE MYERS	1972	H	1480	H	PA /SLTV
631	4101-7931	MCAUGHTON,R.J.	C. EUGENE MYERS	1974	S	1480	S	PA /SH
632	4101-7930	DAILEY,F.J.	KARLS COMP. WATER SYS. CO.	1967	H	1470	H	PA /SH
633	4101-7932	MCAUGHTON,W.A. JR.	HAROLD MILLER	1975	H	1445	H	PA /SS
634	4102-7930	BARGER,P.V.	C. EUGENE MYERS	1975	H	1500	H	PA /SLTV
635	4102-7930	MURPHY,D.F.	TOY DRILLING CO., INC.	1967	H	1495	H	PA /SH
636	4103-7930	MORNER,D.R.	C. EUGENE MYERS	1973	H	1295	W	PA /SLTV
637	4102-7930	REST,C.D.	C. EUGENE MYERS	1972	H	1280	S	PA /SH
638	4101-7934	KING,F.D.	C. EUGENE MYERS		H	1265	S	PA /SH
639	4059-7930	CRAIG,R.W.	C. EUGENE MYERS	1975	H	1350	S	PA /SS
640	4113-7937	NEELY,B.H.	S. C. HOFFMAN	1977	H	1450	S	PP /SS
641	4113-7938	LONGNAKER,FRED	C. EUGENE MYERS	1972	H	1465	S	PP /SH
642	4106-7939	MCCALL,W.B.	C. EUGENE MYERS	1977	H	1140	S	PP /SH
643	4105-7939	FAIR,R.E.	KARLS COMP. WATER SYS. CO.	1966	H	1120	S	PP /SS
644	4104-7938	MCFADDEN,W.G.	C. EUGENE MYERS	1972	H	1085	S	PP /SH
645	4103-7938	BARTLEY,H.G.	KARLS COMP. WATER SYS. CO.	1969	H	1430	H	PA /SS
646	4113-7929	FULTON,S.E.	KARLS COMP. WATER SYS. CO.	1976	H	1460	S	PP /SS
647	4115-7927	SHIPPENVILLE WATER CO.	KARLS COMP. WATER SYS. CO.	1969	P	1395	H	ML /SS
648	4115-7928	KISER GARAGE	KARLS COMP. WATER SYS. CO.	1976	C	1240	T	ML /SS
649	4118-7924	KINCH,N.J.	JAY C. GILFORD	1977	H	1640	H	PA /SS
650	4118-7929	KEISTER,J.W.	WILLIAM H. ZERRE	1976	H	1505	S	PP /SS
651	4118-7928	HUNTINGTON,E.I.	KARLS COMP. WATER SYS. CO.	1976	H	1510	H	PP /OTHR
652	4110-7934	ALLMENDING,CARL	KARLS COMP. WATER SYS. CO.	1974	H	1380	S	PP /SS
653	4109-7931	ENGLE,R.A.	KARLS COMP. WATER SYS. CO.	1976	H	1225	S	ML /SS
654	4111-7933	KARNES,R.R.	C. EUGENE MYERS	1974	H	1235	S	PP /SS
655	4114-7934	BLAUVELT,MARCELLA	C. EUGENE MYERS	1970	H	1305	H	PP /SS
656	4114-7935	ALLAMAN,R.E.	KARLS COMP. WATER SYS. CO.	1975	H	1400	S	PP /SH
657	4114-7935	ALLAMAN,R.E.	WILLIAM H. ZERRE	1977	H	1420	S	PP /SS
658	4112-7933	BEST,MEREDITH	C. EUGENE MYERS	1975	H	1360	S	PA /SH
659	4110-7930	PETERSON,P.A.	KARLS COMP. WATER SYS. CO.	1976	H	1325	S	PP /SS
660	4118-7917	KALYUMET TRAILER PARK	JAY C. GILFORD	1972	P	1505	H	PP /SS
661	4122-7918	ANDRE,R.D.	JAY C. GILFORD	1972	H	1620	H	PP /SS
662	4106-7915	TRINCORI,JOSEPH	HAROLD MILLER	1975	H	1420	S	PA /SS
663	4102-7917	ADAMS,RONALD	TOY DRILLING CO., INC.	1973	H	1200	S	PA /SS
664	4102-7921	WHITE,C.W.	TOY DRILLING CO., INC.	1973	H	1495	S	PA /SS
665	4102-7915	HINDERLIGHTER,WADE	KARLS COMP. WATER SYS. CO.	1973	H	1210	S	PP /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (PPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
195	95	6									CR- 616
75	20	6									617
105	32	6	38/ 65			5					618
58	18	6				4					619
50	22	6				5					620
60	20	6	50			40					621
61	21	6		43	10/62	2					622
116	20	6	108			12					623
127	23	7	72			2					624
82	23	6	44			1					625
114	65	6				20					626
100	80	6	40/ 60/ 82			45					627
65	31	6	50			30					628
100	85	6	30/ 40/ 68			15					629
35	12		25	10	5/72	8	.35				630
138	20	6	66/ 75/132								631
100		6				0					632
74	20	6	62	50	6/75	32					633
66	20	6	50			20					634
160	34	6	132/146			5					635
102	21	6	90			15					636
47	22	6	30								637
60	20	6				5					638
94	20	6	70			5					639
184	115	6	155/165	70	3/77	20	.50				640
91	30	6	83			10					641
72	38	6	50			3					642
100	21	6									643
61	35	6				40					644
205	17	6									645
260	75	6				4					646
440	45	7	53/ 89/199/213/258								647
70	21	6	25/ 60			6					648
75	18	7	45/ 69	59	4/77	10					649
126	20	6	100								650
78	23	6	57			6					651
194	21	6		150	3/74	10					652
258	18	6				6					653
81	21	6	35	35	/74	5					654
75	18	6	70	43	6/70	14					655
105	19	6	32/ 83			5					656
120	20	6	100			6					657
34	20	6	30			8					658
90	27	6				5					659
85	15	6	50/ 80			15					660
85	17	6	32/ 78			4					661
66	51	6	60	30	6/75	32					662
85	47	6	65			3					663
164	55	6	69/ 91			5					664
195	21	6	183			10					665

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
CLARION								
CR- 666	4101-7921	SHANKLE, W.D.	TOY DRILLING CO., INC.	1975	H	1480	S	PA /SH
667	4105-7923	MARTZ, ALFRED	TOY DRILLING CO., INC.	1972	H	1450	S	PA /SLTN
668	4106-7923	HARRIGER, G.R.	C. EUGENE MYERS	1975	H	1315	T	PP /SS
669	4114-7919	CORRETT, L.E.	NEWTON W. ROOTH	1969	H	1470	S	PP /SS
670	4108-7918	BURR, R.G.	KARLS COMP. WATER SYS. CO.	1976	H	1380	S	PP /SS
671	4109-7920	DECORTE, W.G.	KARLS COMP. WATER SYS. CO.	1975	H	1420	S	PA /SH
672	4100-7931	CRAIG, FRED	C. EUGENE MYERS	1973	H	1460	H	PA /SH
673	4059-7923	GUNTUM, R.E.	TOY DRILLING CO., INC.	1975	H	1220	S	ML /SS
674	4104-7913	KIEHL, D.E.	C. EUGENE MYERS	1970	H	1280	S	PP /SS
675	4106-7914	ROBERTSON, R.B.	KARLS COMP. WATER SYS. CO.	1966	H	1380	S	PA /SS
680	4104-7919	PYLER, R.H.	KARLS COMP. WATER SYS. CO.	1972	H	1440	S	PA /SH
681	4104-7919	HIMES, E.E.	KARLS COMP. WATER SYS. CO.	1966	H	1420	T	PP /SS
CLIFARFIELD								
CF- 44	4104-7844	BAKER, WALTER			H	1630	S	PA /SH
45	4103-7843	FRANTZ, A.L.			H	1760	H	PA /SH
46	4103-7843	MARSHALL		1934	H	1785	S	PA /SLTN
105	4103-7842	LUTHERSBURG SCHOOL UNION	KARLS COMP. WATER SYS. CO.	1965	P	1900	S	PA /SS
111	4107-7846	CITY OF DU BOIS		1894	U	1400	T	PP /SS
117	4106-7845	HIGHLAND HIGH SCHOOL	PENNSYLVANIA DRILLING CO.	1975	Z	1530	H	PA /SS
120	4109-7844	PAGE CONSTRUCTION- DEVELOPMENT	ROBERT L. CRYTSEY, JR.	1975	R	1670	S	PA /SS
126	4111-7843	TREASURE LAKE #N-4	LAYNE-NEW YORK CO., INC.	1970	P	1720	W	ML /SS
127	4111-7842	TREASURE LAKE #N-2	LAYNE-NEW YORK CO., INC.	1970	U	1865	S	ML /SS
128	4111-7842	TREASURE LAKE #N-1	LAYNE-NEW YORK CO., INC.	1970	P	1870	H	ML /SS
129	4110-7843	TREASURE LAKE #N-3	LAYNE-NEW YORK CO., INC.	1970	U	1705	S	ML /SS
130	4109-7842	TREASURE LAKE #S-1	LAYNE-NEW YORK CO., INC.	1970	P	1500	S	PA /SS
131	4109-7843	TREASURE LAKE #S-2	LAYNE-NEW YORK CO., INC.	1970	P	1505	S	PA /SS
133	4110-7843	CRAWFORD BROS. EXCAVATION CO.	ROBERT L. CRYTSEY, JR.	1975	H	1810	S	PA /SH
134	4110-7843	SCHNEIDER, PAUL	ROBERT L. CRYTSEY, JR.	1975	H	1730	S	PA /SS
135	4108-7843	PAGE, HOWARD	ROBERT L. CRYTSEY, JR.	1975	H	1480	S	PCG /SH
136	4109-7843	SNYDER, JAMES M.	FORSYTH DRILLING CO.	1974	H	1570	S	PCR /SLTN
137	4109-7842	FULTON & LINDAUER	FORSYTH DRILLING CO.	1974	H	1595	S	PCG /SS
138	4109-7841	SWOPE, REED	FORSYTH DRILLING CO.	1974	H	1600	S	PCG /SS
139	4110-7842	TALSMA, HERBERT	FORSYTH DRILLING CO.	1974	H	1830	H	PA /SS
140	4109-7841	PAGE, ROBERT	ROBERT L. CRYTSEY, JR.	1975	H	1730	H	PCG /SH
143	4109-7840	GEARHART, DAN	FORSYTH DRILLING CO.	1974	H	1580	S	PCG /SH
145	4111-7839	STAHLNECKER, ED	FORSYTH DRILLING CO.	1975	H	1690	S	PCG /SS
146	4108-7845	VALLEY VIEW HOMES #1	FORSYTH DRILLING CO.	1975	H	1580	S	PA /SS
147	4108-7845	VALLEY VIEW HOMES #4	FORSYTH DRILLING CO.	1975	H	1505	S	PA /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
65	42	6	52			3					CH- 666
184	20	8	29/ 88/138/175			15					667
50	20	6	40			40					668
175	21	6									669
118	22	6	80/100			6					670
58	23	6									671
127	22	6	65	57	5/73	2					672
245	20	6	234			3					673
47	18	6	37/ 45	14	4/70	60					674
46	27										675
85	40	6	70								680
108	84	7									681
COUNTY											
75	8	6		30		10					CF- 44
120	10	7		95		10					45
70	20	6		32		10					46
260	22	6	138/154/212/260	76	9/65	11	11	11	400	5.9	105
286											111
292	5	3	88/125/182	30	1/75	2		5	289	7.4	117
122	15	6	116	25	10/75	30	4.3				120
360	34	10	36/130/159/174	F	11/70	305	3.0	5	185	7.6	126
290	22	6	89/128	37	12/70	140	8.0	1	52	6.2	127
410	24	10	20/ 98/111/245	20	12/70		4.5	4	135	7.1	128
440	26	6	25/ 41/ 60/202	15	9/70	200	17	6	310	7.9	129
265	20	8	50/ 65/120	F	8/70	80	3.0				130
265	14	8	20/ 47/ 50/ 54/101	F	8/70	132	2.6	12	425	6.2	131
85	21	6	70	35	5/75	30	2.0				133
100	20	6	85	40	2/75	30	1.5				134
49	22	6	35	20	7/75	12	.41				135
78	21	6	68			10					136
200	20	6	60/185			12					137
105	20	6	90			15					138
140	22	6	45/130			5					139
78	20	6	50	25	7/75	20	2.0				140
120	20	6	100	55	8/75	5					143
195	21	6	55/145	60	11/75	3					145
155	21	6	140	60	3/75	12					146
130	20	6	120	45	3/75	10					147

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
CLEARFIELD								
CF- 149	4106-7846	AUNKST,SHIRLEY	FORSYTH DRILLING CO.	1975	H	1420	T	PA /SS
150	4104-7841	HICKMAN,ROBERT	FORSYTH DRILLING CO.	1974	H	1725	S	PP /SS
151	4106-7844	POULOS,TOM	FORSYTH DRILLING CO.	1974	H	1565	H	PCG /SS
154	4107-7847	TONEY,LARRY	ROBERT L. CRYTSE, JR.	1975	H	1565	H	PA /SS
155	4107-7847	TONEY ENTERPRISES	FORSYTH DRILLING CO.	1960	N	1575	H	PA /SS
156	4106-7847	KRUK FLOORS CO.	FORSYTH DRILLING CO.	1974	H	1600	S	PA /SLTV
157	4106-7846	TARTAL,JOHN	FORSYTH DRILLING CO.	1975	H	1460	S	PCG /SS
158	4106-7847	HUMBLE,GARY	FORSYTH DRILLING CO.	1974	H	1630	H	PCG /SS
159	4106-7847	CRATER,WILLIAM	FORSYTH DRILLING CO.	1974	H	1630	H	PCG /SLTV
160	4108-7845	LUNDGREN,W.G. DR.	ROBERT L. CRYTSE, JR.	1966	H	1645	S	PCG /SS
161	4108-7845	DENTON CONSTRUCTION CO.	ROBERT L. CRYTSE, JR.	1966	N	1525	H	PA /SS
162	4111-7846	CLARK,MRS.	GARY A. LINDEMUTH	1973	H	1645	S	PP /SH
163	4107-7847	ROBERTSON,T.R.	FORSYTH DRILLING CO.	1972	H	1565	H	PA /SS
165	4111-7842	TREASURE LAKE #N-1	LAYNE-NEW YORK CO., INC.	1970	U	1870	H	PP /SS
171	4111-7846	FRANO,F.A.	FORSYTH DRILLING CO.	1972	H	1585	T	PP /SS
172	4105-7846	KENNEDY TRANSFER CO.	GARY A. LINDEMUTH	1973	H	1475	S	PCG /SS
173	4104-7846	CENTRAL VOLKSWAGEN INC.	FORSYTH DRILLING CO.	1975	C	1565	S	PCG /SS
174	4106-7846	MITCHELL MACHINE CO.	GLEN R. WEPER	1973	C	1465	S	PA /SH
175	4104-7845	DUPENN INC.	ROBERT L. CRYTSE, JR.	1969	C	1520	S	PCG /SH
176	4105-7847	DEASEY,G.W.	FORSYTH DRILLING CO.	1975	H	1540	S	PCG /SS
177	4106-7847	PITTSLEY,J.M.	ROBERT L. CRYTSE, JR.	1976	H	1605	H	PA /SH
178	4106-7847	SHEPHERD,R.R.	GARY A. LINDEMUTH	1973	H	1545	S	PA /SS
179	4105-7847	YONUSHONIS,JOSEPH	FORSYTH DRILLING CO.	1972	H	1620	S	PA /SLTV
180	4105-7847	KOSIRA,WALTER	ROBERT L. CRYTSE, JR.	1974	H	1505	S	PCG /SS
181	4105-7846	WAYLAND,R.O.	GARY A. LINDEMUTH	1974	H	1450	V	PCG /SS
182	4108-7847	COLE TRUCKING CO.	ROBERT L. CRYTSE, JR.	1968	C	1400	T	PA /SS
183	4108-7845	BOWSER,TAYLOR	ROBERT L. CRYTSE, JR.	1977	H	1490	S	PA /SS
184	4108-7847	FALLS CREEK AMESITE CO.	ROBERT L. CRYTSE, JR.	1971	N	1405	T	PP /SS
185	4108-7844	ALPERT,R.N.	FORSYTH DRILLING CO.	1975	H	1520	S	PA /SS
186	4111-7839	GROVES,HOWARD	FORSYTH DRILLING CO.	1972	H	1610	S	PCG /SS
187	4108-7840	STAHLNECKER,JOHN	FORSYTH DRILLING CO.	1972	H	1485	S	PCG /SLTV
188	4110-7839	GREATHOUSE,R.H.	GARY A. LINDEMUTH	1974	H	1530	S	PCG /SS
189	4109-7839	BROWN,W.G.	FORSYTH DRILLING CO.	1975	H	1480	S	PCG /SS
190	4105-7843	HARVEY,B.J.	FORSYTH DRILLING CO.	1975	H	1580	S	PCG /SS
191	4105-7843	BARR,W.J.	FORSYTH DRILLING CO.	1975	H	1560	S	PCG /SS
192	4106-7843	EGAN,GEORGE	ROBERT L. CRYTSE, JR.	1976	H	1640	H	PCG /SS
193	4106-7843	SHENKLE,J.W.	ROBERT L. CRYTSE, JR.	1975	H	1540	S	PCG /SLTV
194	4105-7843	WELLS,DON	FORSYTH DRILLING CO.	1976	H	1640	S	PA /SS
195	4107-7844	POWLEY,R.F.	ROBERT L. CRYTSE, JR.	1976	H	1440	V	PCG /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (RPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
95	21	6	25/ 90	18	3/76	7			600	6.3	CF- 149
70	20	6	40/ 55/ 65	38	1/76	7			315	6.1	150
180	20	6				10					151
206	14	6	138/180	135	5/75	8	.11				154
300	220			175	9/60	2					155
180	18	6	170			12					156
34	21	6	30	11	3/75	8			155		157
140	18	6	40/128			4					158
145	20	6	130			4					159
113		5	100	73	6/66	15					160
295	35	8	105/250	65	8/66	45					161
106	24	6	50/ 90	50	1/73	10	.33				162
200	170	6	180			10					163
295	23	8		15	9/70	129	4.3				165
50	41	6	45								171
85		6	75	50	8/73	10	1.0				172
200	21	6	110/180			15					173
150	32	6	100/125	100	7/73	20					174
92	36	6	45/ 60	33	8/69	30					175
110	20	6	95			7					176
186	23	6	180	166	11/76	10					177
115	62		65	60	6/73	9					178
260	21	6	120/220			12					179
89	28	6	69	69	7/74	30					180
61	23	6	50	30	1/74						181
101	58	6	30/ 95	40	10/68	30					182
99	14	6	80	54	2/77	20					183
140	46	8	15	7		150					184
140	20	6	65/122			6					185
120	22	6	42/110			8					186
80	15	6	30/ 70			12					187
110	20	6	50/100	70	9/74	7	.35				188
50	20	6	42			20					189
85	20	6	40/ 72			10					190
80	20	6	62			10			315		191
180	20	6	75/145			8					192
120	20	6	45/110			8					193
230	20	6	36/172			7					194
75	23	6	50	40	5/76	10					195

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
ELK								
EK- 1	4121-7836	ERNST, ELIZABETH			U	1910	T	PA /SH PP
2	4128-7834	HERRICK, G.G.	DUNN		H	1905	S	/SS ML
4	4128-7853	PENNSYLVANIA GAS CO.		1931	H	1785	H	/SS PP
5	4127-7833	ELK HAVEN COUNTY HOME			U	1740	S	/SS PP
6	4122-7841	SUMMIT MANOR MOTEL			C	2170	H	/SS PP
8	4125-7833	ST. MARYS BEVERAGE CO.			N	1670	V	/SS PP
9	4125-7832	ST. MARYS SEWER PIPE WORKS	C. C. CHITTESTER		U	1715	T	/SS PP
10	4125-7833	STRAUBS BREWERY	C. C. CHITTESTER	1892	Z	1680	T	/SS PP
11	4125-7844	DIETZ, JOHN	DUNN		H	1410	T	ML /SS
12	4125-7844	PENN RICH ICE CO.			Z	1390	T	ML /SS
13	4125-7843	ALFRED ICE CREAM CO.			U	1385	T	ML /SS
14	4125-7844	ELK TANNING CO.			N	1390	T	ML /SS
15	4126-7844	OKNEFSKI, BENJAMIN	DUNN		H	1705	H	ML /SS
17	4128-7839	BOROUGH OF JOHNSONBURG			P	1470	T	ML /SS
19	4119-7841	SUNNYSIDE INN	DUNN		H	1550	V	OAL /GV
21	4117-7843	DRUMMOND SEWER PIPE CO.	C. C. CHITTESTER		U	1540	T	ML /SS
23	4121-7835	ST. MARYS JOINT WATER AUTHORITY		1949	P	1934	S	PP /
24	4121-7835	MILLER, MATTHEW	C. C. CHITTESTER		H	1965	S	PP /SH
25	4119-7838	KYLEP, ELVIE	DUNN		H	1700	S	PA /SS
26	4122-7840	HALL, J.K., MRS.	DUNN	1931	H	2110	H	PA /SS
29	4133-7851	CCC CAMP NO. 4	OLSON	1933	H	2040	H	PP /SS
34	4133-7851	BARNESDALL, T.N.	OLSON	1933	H	1860	S	PP /SS
37	4134-7841	WILCOX WATER CO. NO. 2		1912	P	1520	S	ML /SS
38	4131-7843	JOHNSONBURG MUNICIPAL SEWAGE & WATER	OLSON	1931	P	1605	T	ML /SS
41	4124-7858	EBERLY, CLEMENT	DUNN		H	1750	S	ML /SS
43	4128-7840	JOHNSONBURG MUNICIPAL SEWAGE & WATER	ROSECRAIG		P	1500	T	ML /SS
44	4128-7840	JOHNSONBURG MUNICIPAL SEWAGE & WATER			P	1500	T	ML /SS
45	4128-7840	JOHNSONBURG MUNICIPAL SEWAGE & WATER			P	1500	T	ML /SS
47	4123-7832	ST. MARYS JOINT WATER AUTHORITY	EHMKE WELL DRILLERS	1967	P	1850	T	PP /SS
65	4127-7833	ST. MARYS JOINT WATER AUTHORITY		1954	U	1735	S	ML /SS
74	4122-7833	ST. MARYS JOINT WATER AUTHORITY		1952	U	1825	S	ML /SS
75	4122-7833	ST. MARYS JOINT WATER AUTHORITY		1953	U	1830	S	ML /SS
76	4122-7832	ST. MARYS JOINT WATER AUTHORITY	F. W. WEBER'S SONS	1960	U	1834	T	ML /SS
80	4126-7835	ST. MARYS JOINT WATER AUTHORITY		1903	U	1675	V	ML /
87	4127-7835	ST. MARYS JOINT WATER AUTHORITY	F. W. WEBER'S SONS	1960	P	1785	S	ML /
90	4129-7840	PENNTech PAPERS INC.			N	1450	T	ML /SS
96	4129-7841	PENNTech PAPERS INC.			N	1455	T	ML /SS
98	4129-7840	PENNTech PAPERS INC.			N	1465	V	ML /SS
105	4137-7834	ELK STATE PARK	KOHL BROS., INC.	1967	P	2040	H	PP /SS
106	4130-7840	JOHNSONBURG ELEMENTARY SCHOOL	KOHL BROS., INC.	1969	T	1470	T	ML /SS
107	4133-7851	U.S. GEOLOGICAL SURVEY	KARLS COMP. WATER SYS. CO.	1973	H	2055	H	PP /SS
108	4124-7832	ST. MARYS JOINT WATER AUTHORITY	KOHL BROS., INC.	1965	U	1740	T	ML /
112	4127-7833	ST. MARYS JOINT WATER AUTHORITY	OLSON	1954	U	1735	T	ML /
113	4126-7835	ST. MARYS JOINT WATER AUTHORITY	OLSON	1952	U	1670	T	ML /
114	4126-7834		OLSON	1953	U	1680	T	ML /
115	4136-7833	ELK STATE PARK			Z	1720	S	ML /
116	4127-7846	PA. NATIONAL GUARD	DELP BROTHERS	1973	T	1685	H	PP /SH
117	4114-7838	HOOVER, C.L.			H	2365	H	PA /SS
150	4124-7834	LECKER, MELVIN	FORSYTH DRILLING CO.	1972	H	1895	S	PP /SS
151	4124-7834	MILLER, STEVE	FORSYTH DRILLING CO.	1972	H	1900	S	PP /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH BELOW LAND SURFACE (FEET)	LEVEL DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (PPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
87		4		10	11/41						EX- .1
105	20	6		50		8					2
237	168	6		166				3	99	6.6	4
225	100	8		75		4					5
100									33	6.1	6
165	100	6		60		180		23			8
250	140	6		100		32					9
150	25	6		40		10					10
85	30	6		42		2					11
120	2	6		13		65					12
142	40	6		20		100					13
120	80	8		12		100	17	10			14
135	32	6		103		1					15
237	60	8				500		8	420	6.9	17
35	34	6		F		1					19
450	150	6		100		50					21
345	175	8	220/270/330		6/49	100	3.2		160	6.5	23
225	140	6		100		5					24
116	42	6		76		2					25
108	20	6		68		1					26
226	39	6		120		10					29
150	18	6		110		2					34
216		6		16		42		4			37
250	28	8		16		265	6.3	3	118	6.4	38
248	200	6		180		2					41
250	30	8		22		200	4.4	8			43
90	30	8				75					44
160	30	8		15		75					45
343	14	16	84/105/188	15	6/67	300	1.8				47
200	24	12	46/120/176	F		280		5		6.7	65
225	57	12	40/ 90/140/200/318					6		5.8	74
300	42	12	56/141/180/236					7		6.4	75
300		12		15	11/74	23	186	4	200	6.5	76
257	25	8		F				2	120	5.6	80
280	42	10		F	2/60	350		4		7.2	87
201	40	10		15	/35	550	37				90
151	13	8		14		400	22				96
230		6		28	8/30	300	5.0				98
150	32	8	76/137	58	1/67	45	.96	2		6.6	105
150	50	6	13/ 40/ 71	37	7/69	46	3.3	4		7.9	106
301	21	6	112/135/209/269	94	10/73	13	1.2	1	115	7.0	107
340	40	12	40/ 90/140/200/318	15	3/66	480	5.0	4	180	6.1	108
300	26	12	50/ 82/235	3	4/54	189	1.3	6	4230	7.1	112
150	33	12	44/ 70/136	F				4		6.4	113
300	39	12	38/ 77/132/233/280	1	11/74	24	5.4	4	140	6.2	114
								9	850	5.9	115
125	100	8	116	20	9/74	4	.04	2	125	6.1	116
106		6	102	55	8/75	3	.06	1	51	5.9	117
124	20	6	62/ 95	55	10/72	4	.07	5	280	6.4	150
200	20	6	190	70	10/72	5					151

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
ELK								
EK- 152	4124-7831	DETSCH, PATRICK	FORSYTH DRILLING CO.	1972	H	1865	S	PP /SS
153	4125-7830	PONTZER, MICHAEL	FORSYTH DRILLING CO.	1972	H	1910	S	PP /SS
154	4127-7834	HEFFNER, EARL	FORSYTH DRILLING CO.	1972	H	1880	W	PP /SS
155	4127-7835	SCHREIFER, FRED	FORSYTH DRILLING CO.	1972	H	1935	S	PP /SS
156	4127-7834	FERRIS, JAMES	FORSYTH DRILLING CO.	1974	H	1900	S	PP /SS
157	4127-7834	FEDDER, FRED	FORSYTH DRILLING CO.	1972	H	1905	S	PP /SS
158	4129-7833	LYNCH, JOHN	FORSYTH DRILLING CO.	1974	H	2165	S	ML /SS
167	4125-7844	MOLDED MATERIALS #1	DELP BROTHERS	1972	N	1370	T	ML /SS
168	4125-7844	MOLDED MATERIALS #3	DELP BROTHERS	1974	N	1375	T	ML /SS
169	4125-7844	MOLDED MATERIALS #2	FORSYTH DRILLING CO.	1973	N	1365	T	ML /SS
170	4121-7841	FACCHINI, EUGENE	GARY A. LINDEMUTH	1974	H	2060	S	PA /SLTV
171	4121-7841	KARENSHAK, FRED	GARY A. LINDEMUTH	1973	H	2015	S	PP /SS
172	4126-7842	WARGO, RAY	KARLS COMP. WATER SYS. CO.	1975	H	1455	S	ML /SS
173	4131-7841	BULLERS, WILLIAM	FORSYTH DRILLING CO.	1972	H	1555	S	ML /SS
174	4130-7841	RIPPON, JOSEPH	DELP BROTHERS	1970	H	1515	S	ML /SLTV
175	4124-7849	BOWERS, JOHN	FORSYTH DRILLING CO.	1972	H	1500	S	PP /SS
176	4125-7849	SMOYER, ROBERT	DELP BROTHERS	1970	H	1535	S	PP /SLTV
177	4125-7849	WEIDERT, R.F.	DELP BROTHERS	1970	H	1505	S	PP /SLTV
178	4125-7849	GARDNER, MELVIN	DELP BROTHERS	1970	H	1510	S	PP /SLTV
179	4123-7850	TIERI, JOSEPH	DELP BROTHERS	1975	H	1645	H	PP /SS
181	4121-7854	FENSTEMAKER, CLYDE	DELP BROTHERS	1974	H	1630	H	PP /SLTV
183	4121-7854	CHAMBERS, MARVIN	DELP BROTHERS	1975	H	1580	S	PP /SS
184	4122-7852	HAMILTON, H.C.	DELP BROTHERS	1974	H	1610	S	PP /SS
185	4125-7842	LUNDSTEN, LARRY	FORSYTH DRILLING CO.	1972	H	1410	T	ML /SS
186	4129-7844	JOHNSON, KEN	FORSYTH DRILLING CO.	1972	H	1760	H	PP /SS
187	4129-7844	JOHNSON, ART	FORSYTH DRILLING CO.	1972	H	1765	H	PP /SS
188	4125-7843	RIDGWAY COLOR AND CHEMICAL	DELP BROTHERS	1972	N	1400	T	ML /SS
189	4126-7842	FIELDS, ROBERT	FORSYTH DRILLING CO.	1972	H	1475	S	ML /SS
190	4132-7836	STANTON, JOHN	FORSYTH DRILLING CO.	1972	H	1505	T	ML /SS
191	4115-7841	VAN METER MELVIN S.	DELP BROTHERS	1974	H	1830	H	PP /SS
192	4115-7841	VERTON, FRANK & OTHERS	DELP BROTHERS	1974	H	1820	S	PP /SS
193	4117-7840	KRIVOKUCHA, MITCHELL	GARY A. LINDEMUTH	1974	H	1545	T	PP /SS
194	4117-7841	CERIANI, TOM	ROBERT L. CRYTSE, JR.	1975	H	1560	S	PA /SLTV
195	4116-7841	GAMARINO, CARL	FORSYTH DRILLING CO.	1972	H	1500	T	PP /SS
196	4115-7841	ARNOLD, TYREE F.	DELP BROTHERS	1974	H	1850	H	PA /SLTV
197	4116-7843	SWARTWOOD BRIAN	ROBERT L. CRYTSE, JR.	1968	H	1550	S	PA /SLTV
198	4121-7836	RUSY BEE BUILDERS	FORSYTH DRILLING CO.	1975	H	1975	S	PA /SH
201	4121-7836	BEIMEL, ROGER	FORSYTH DRILLING CO.	1974	H	1925	S	PP /SS
202	4119-7836	LUCHINI, JOSEPH, JR.	FORSYTH DRILLING CO.	1974	H	1980	H	PA /SH
204	4121-7854	TOMMORELLO, FRANK	DELP BROTHERS	1970	H	1590	S	PP /SS
205	4128-7840	BLASHAW, ROMAN J.	DELP BROTHERS	1970	H	1445	T	QAL /SSV
206	4123-7903	MCGROGAN, JAMES F.	JAY C. GILFORD	1970	H	1655	H	PP /SLTV
207	4117-7838	TORRY WATER CO.	DELP BROTHERS	1974	P	1755	T	PP /SS
208	4124-7849	GOLDINGER, EDWARD	DELP BROTHERS	1975	H	1520	S	PP /SS
209	4133-7851	KOPRIVEC, DONALD	KARLS COMP. WATER SYS. CO.	1975	H	1940	S	PP /SS
210	4114-7842	BOROUGH OF BROCKWAY		1969	P	1610	T	ML /SLTV
215	4121-7853	SHAFFER, L.A.	ROBERT L. CRYTSE, JR.	1966	H	1695	S	PP /SS
216	4121-7852	STRANO, J.J.	ROBERT L. CRYTSE, JR.	1966	H	1680	S	PP /SS
220	4122-7840	STEIS, M.S.	DELP BROTHERS	1973	H	2085	S	PA /SS
221	4122-7838	WONDERLY, GEORGE	ROBERT L. CRYTSE, JR.	1964	H	2020	S	PA /SH

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
120	20	6	45/112		10/72	15		2	120	6.8	EK- 152
80	22	6	68		8/72	7		15	95		153
80	39	6	35/ 72	5	10/72	20		1	50		154
220	22	6	110	60	10/72	4					155
105	21	6	95		10/74	10					156
140	16	6	128	14	8/72	15					157
108	21	6	55/ 95	45	11/74	8	.27	1	65		158
112	86	8		12	11/72	160					167
115	100	8		15	8/74	150	4.2	7	515	7.1	168
150	90	8		45	/73	210	42				169
75	20	6	65	30	7/74	7	.23				170
75	21	6	65	30	6/73	4					171
180	17	6	110/160	22	4/75	15					172
60	35	6	52			15			105	5.2	173
65	45	6	60		6/70	10					174
35	21	6	28	8	8/72	5	.23	4		5.8	175
75	25	6	70	15	8/70	8					176
55	23	6	55	10	8/70	10					177
70	23	6	65	10	7/70	15					178
65	25	6		25	8/75	4					179
52	24	6	45	14	4/74	4					181
180	21	6	150	25	9/75	10					183
79	25	6	60	15	/74	3					184
60	41	6	45			20					185
145	24	6	72/130			8					186
155	31	6	84/142			10					187
55	40	6	50	22	5/76	24	5.4		1200	6.3	188
140	81	6	102/135			10					189
105	44	6	85	15	6/72	12		1	70		190
150	25	6	55/130	25	4/74	8					191
110	24	6	60	15	10/74	25			108		192
52	20	6	42	20	7/74	25		2	81		193
58	36	6	45	15	8/75	30		6	240	6.4	194
84	22	6	38/ 72	20	9/72	9			205		195
160	24	6			10/74	3			180	6.8	196
65	35	6	60	20	12/64	20	10		195		197
130	21	6	45/120	40	2/75	4			215		198
145	31	6	68/130	55	8/74	8			410		201
68	20	6		20	8/74	4		2	138		202
100	24	6	95	18	5/76	12	.25	2	68	5.8	204
69	64	6	65	28	8/70	25			165		205
100	14	6	32/ 80/ 90	30	5/70	20	10		95		206
100	30	6		F	7/75	23	1.6	1	50	5.4	207
49	20	6		12	5/76	23	1.9	2	120	6.2	208
58	23	6	28	21	8/75	10					209
120			72/ 86/ 98	F							210
100	65	6	40/ 73/100	63	6/66	30					215
81	23	6	48/ 75	43	6/66	10					216
105	24	6				5					220
75	23	6	65	30	9/64	3					221

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRIILLFR	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER/ LITHO- LOGY
EK- 222	4120-7839	COUSINS,D.L.,MRS.	DELP BROTHERS		H	1970	H	PCG /SH PA /SS
223	4122-7839	ANZINGER,S.E.	FORSYTH DRILLING CO.	1975	H	2010	S	PA /SS
224	4118-7839	BENTON,ELAINE	JOHN T. UHL		H	1615	S	PA /SS
225	4121-7839	GREENWALT,E.J.	ROBERT L. CRYTSEY, JR.	1959	H	2040	S	PA /SH
226	4121-7837	HOLLNRAUGH,W.E.	ROBERT L. CRYTSEY, JR.	1958	H	1960	S	PA /SH
227	4122-7839	MCCREADY,J.J.	ROBERT L. CRYTSEY, JR.	1964	H	2060	H	PA /SLTV
228	4122-7841	NEUBERT,J.B.	FORSYTH DRILLING CO.	1977	H	2130	H	PP /SS
229	4121-7842	BROWN,L.C.	ROBERT L. CRYTSEY, JR.	1966	H	2175	H	PP /SS
230	4121-7843	WIGTON,CURTIS	DELP BROTHERS	1974	H	2150	S	PP /SS
231	4121-7842	WETZEL,W.E.	DELP BROTHERS	1973	H	2110	S	PP /SS
232	4118-7840	SHUGARS,NICKALOS	DELP BROTHERS	1975	H	1555	S	PA /SS
233	4116-7842	MORRISON,L.R.	FORSYTH DRILLING CO.	1967	H	1510	T	PA /SS
234	4115-7844	MOLINE,WILLIAM	ROBERT L. CRYTSEY, JR.	1966	H	1480	T	OAL /SGV
235	4121-7843	MCGUIRE,GEORGE	FORSYTH DRILLING CO.	1975	H	2110	S	PA /SLTV
236	4120-7841	JABLONSKI,J.P.	FORSYTH DRILLING CO.	1976	H	1700	S	PA /SS
237	4121-7841	CARLINI,D.M.	GARY A. LINDEMUTH	1972	H	1925	S	PP /SS
238	4119-7841	DONATI,JOSEPH	DELP BROTHERS	1975	H	1635	S	PA /SS
239	4117-7842	COPELLA,ROBERT	DELP BROTHERS		H	1635	S	PA /SS
240	4116-7842	BATTITORI,RICHARD	GARY A. LINDEMUTH	1968	H	1515	S	PA /SH
241	4116-7842	MARCHIORI,R.L.	ROBERT L. CRYTSEY, JR.	1960	H	1570	S	PA /SLTV
242	4115-7843	GREEN,R.A.	ROBERT L. CRYTSEY, JR.	1959	H	1505	S	PA /SS
243	4115-7844	YALE,D.R.	ROBERT L. CRYTSEY, JR.	1962	H	1490	T	OAL /GV
244	4116-7841	BART,G.J.	ROBERT L. CRYTSEY, JR.	1963	H	1530	S	OAL /SRV
245	4119-7841	HAAG,CARL. L.	ROBERT L. CRYTSEY, JR.	1957	H	1695	S	PP /SLTV
246	4116-7841	VARI SCHETTI,IRMA	ROBERT L. CRYTSEY, JR.	1963	H	1515	S	PP /SLTV
247	4120-7840	SWANSON,PHILLIP	DELP BROTHERS	1975	H	1690	S	OAL /GV
248	4133-7835	VIOLA,CHESTER	PURE WATER	1976	H	1720	S	ML /SS
249	4136-7834	SQUIRES,F.L.	DELP BROTHERS	1975	H	1830	S	PP /SS
250	4136-7834	CARNEY,A.C.	W. K. ANSELL	1967	H	2035	S	PP /SLTV
251	4137-7834	ALLEBRETTO,A.J.	PURE WATER	1975	H	2060	S	PP /SS
252	4137-7835	LEMUNYON,KENNETH	KARLS COMP. WATER SYS. CO.	1976	H	2025	S	PP /SH
253	4133-7836	SCHAUT,E.C.	ROBERT L. CRYTSEY, JR.	1976	H	1830	S	PP /SS
254	4136-7834	JOHNSON,C.W.	FORSYTH DRILLING CO.	1967	H	2040	S	PP /SS
255	4132-7837	CRAIG,H.E.	JOHN T. UHL	1958	H	1530	S	ML /SS
256	4124-7856	GILL,H.D.	HAROLD MILLER	1966	H	1300	T	ML /SS
257	4123-7859	ELIS,DALE	HAROLD MILLER	1966	H	1790	S	PP /SH
258	4123-7859	LOJEK,EDWARD	HAROLD MILLER	1967	H	1765	S	PP /SLTV
259	4135-7849	MALONE,ROGER	PURE WATER	1976	H	2040	S	PP /SS
260	4133-7851	COOK,ROBERT	PURE WATER	1976	H	1980	S	PP /SS
261	4122-7835	WILHELM,T.L.	FORSYTH DRILLING CO.	1975	H	1940	S	PA /SLTN
262	4121-7836	SCULLY,ROBIN	FORSYTH DRILLING CO.	1975	H	1975	S	PA /SS
263	4121-7836	MATTIUZ,ETALO	JOHN T. UHL	1959	H	1915	S	PA /
264	4120-7837	NOLAN,OLGA	ROBERT L. CRYTSEY, JR.	1964	H	1960	S	PA /SLTN
265	4123-7901	BERRY,D.C.	DELP BROTHERS	1971	H	1640	S	PP /SS
266	4123-7900	FRAZEE,HOWARD	HAROLD MILLER	1967	H	1750	H	PP /SS
267	4123-7900	FRENA,JOHN	HAROLD MILLER	1967	H	1740	H	PP /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-REAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (RPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
110	22	6									EX- 222
50	21	6	42			12					223
56	55	6	10/ 20/ 37/ 42/ 55								224
38	29	6	30	10	6/59	20					225
90	17	6	80	60	9/58	2					226
75	22	6	50	50	9/64	20					227
80	20	6	72			10					228
112		6	50/110	40	2/66	8	.13				229
40	35	6									230
50	22	6				10					231
35	21	6									232
50	45	6	48								233
27	26	6	26	10	10/66	30					234
70	20	6	48			7					235
48	24	6	32			3					236
85	37	6		40	10/72	10					237
98	23	6									238
55	32	6				8					239
60	27	6	49								240
49	22	6	40	29	10/60	30					241
50	17	6	40	20	8/59	6					242
27	27	6		5	6/62	30					243
58	58	6	58	28	10/63	10					244
164		6	155	30	6/57	10					245
71	61	6	65	40	11/63	20					246
30	30	6									247
123	21	6	51/119	71	8/76	15	7.5				248
130	25	6									249
100	34	6	6/ 44/ 90	22	2/67	12	.36				250
120	101	6	110	40	9/75	10	1.0				251
110	38	6	74			5					252
75	26	6		40	5/76	30					253
320	132	5	110/290			10					254
89	76	6	65/ 83								255
35	20	6	21/ 35			17					256
114	21	6	57			3					257
101	22	6	80/ 85	30	7/67	10	.25				258
98	22	6	87	40	8/76	15					259
91	23	6	85	41	8/76	10					260
60	21	6				12					261
130	20	6	118			4					262
64		6									263
210		6	174/197	147	1/64	10					264
50	30	6	28								265
80	22	6	39/ 45/ 70	36	6/67	34	2.8				266
44	22	6	36/ 42	22	9/67	34					267
71	30	6	34/ 50/ 71	9	5/67	10	.16				268
65	23	6				15					269
100	60	6									270
55	23	6									271

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLFR	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
ELK								
EK- 272	4122-7850	RUGDEN, JOE	ROBERT L. CRYTSEY, JR.	1962	H	1355	T	ML /SH
273	4122-7849	FULMER, HARRY	ROBERT L. CRYTSEY, JR.	1962	H	1360	T	ML /SH
274	4122-7849	DEHUNTY, JACK	ROBERT L. CRYTSEY, JR.	1962	H	1340	T	ML /SH
275	4122-7850	QUIER, RAYMOND	ROBERT L. CRYTSEY, JR.	1959	H	1360	S	ML /SS
276	4126-7846	MOORE, P.V.	DELP BROTHERS	1975	H	1705	S	PP /SS
277	4125-7838	ECKL, EARL	FORSYTH DRILLING CO.	1967	H	1475	T	ML /SS
278	4125-7838	HIMES, BURTON	ROBERT L. CRYTSEY, JR.	1961	H	1600	T	ML /SH
279	4122-7839	WRIGHT, LAVERN	ROBERT L. CRYTSEY, JR.	1967	H	2080	H	PA /SH
280	4122-7841	ZUCHELLI, DENO	ROBERT L. CRYTSEY, JR.	1961	H	2170	H	PP /SS
281	4128-7840	FREDEROSKI, P.C.	ROBERT L. CRYTSEY, JR.	1967	H	1775	S	PP /SS
282	4128-7841	FITCH, A.A.			H	1865	S	PP /SS
283	4124-7842	YANKASKY, JOHN	ROBERT L. CRYTSEY, JR.	1958	H	2030	S	PP /SS
284	4125-7844	DRAGO, VINCENT	DELP BROTHERS	1975	H	1450	S	ML /SS
285	4125-7842	DEVALLANCE, R.E.	JOHN T. UHL	1959	H	1470	S	ML /SH
286	4120-7841	JABLONSKI, J.P.	ROBERT L. CRYTSEY, JR.	1966	H	1700	S	PP /SS
287	4125-7842	MANNO, J.M.	PURE WATER	1977	H	1490	S	ML /SS
289	4123-7841	BOGACKI, ROBERT	ROBERT L. CRYTSEY, JR.	1973	H	2070	S	PP /SS
290	4125-7844	MOLDED MATERIALS CO.	ROBERT L. CRYTSEY, JR.	1967	N	1375	T	ML /SS
291	4130-7842	FITCH, R.L.	PURE WATER	1976	H	1720	H	PP /SS
292	4130-7840	SCHILL, F.J.	FORSYTH DRILLING CO.	1975	H	1480	T	ML /SS
293	4130-7840	SHAFFER, K.R.	DELP BROTHERS	1971	H	1540	S	ML /SS
294	4131-7842	CLINE, JAMES	ROBERT L. CRYTSEY, JR.	1976	H	1590	S	ML /SLTN
295	4131-7841	POAGUE, N.H.	ROBERT L. CRYTSEY, JR.	1967	H	1730	H	PP /SS
296	4131-7840	KRONENWETTER, G.J.	JOHN T. UHL	1960	H	1490	T	ML /SS
297	4131-7837	BENDIGO STATE PARK	GERMANIA WELL DRILLING CO.	1967		1485	T	DO /SLTN
298	4132-7840	MC MAHON, J.J., JR.	PURE WATER	1976	H	1610	S	ML /SLTN
299	4132-7840	POAGUE, WILLIAM	PURE WATER	1977	H	1685	H	PP /
300	4132-7840	MC GONIGAL, R.W.	PURE WATER	1976	H	1685	H	PP /SS
301	4133-7840	WATSON, K.M.	PURE WATER	1976	H	1780	H	PP /SS
302	4134-7839	RETZER, E.M.	JOHN T. UHL	1959	H	1785	S	PP /SS
303	4134-7839	BUNDY, C.E.	DELP BROTHERS		H	1765	T	PP /SH
304	4134-7840	SOLOMON, M.W.	ROBERT L. CRYTSEY, JR.	1964	H	1920	S	PP /SS
305	4135-7842	NELSON, C.E.	PURE WATER	1977	H	1570	S	ML /SS
306	4131-7841	BARNETT, S.D.	ROBERT L. CRYTSEY, JR.	1975	H	1540	S	ML /SS
308	4126-7832	MALLISON, J.A.	JOHN T. UHL		H	1940	S	PA /SS
309	4125-7831	KEPPLE, DON	PURE WATER	1976	H	1725	S	PP /SS
310	4125-7830	NEAL, DUANE	ROBERT L. CRYTSEY, JR.	1975	H	1925	S	PA /SS
311	4125-7831	MAZZAFERRO, CAMILLO	JOHN T. UHL	1963	H	1790	S	PP /SH
312	4124-7832	SORG, G.A.	JOHN T. UHL	1958	H	1745	S	PP /SS
313	4124-7834	HEIBRGER, EDWIN	ROBERT L. CRYTSEY, JR.	1958	H	1845	H	PP /SS
314	4126-7835	RUPPRECHT, H.G.	JOHN T. UHL	1959	H	1830	S	PP /SS
315	4126-7835	SCHWABENBAUER, T.F.	JOHN T. UHL	1959	H	1820	S	PP /SS
316	4126-7835	KRONENWETTER, R.J.	DELP BROTHERS	1974	H	1880	S	PP /SS
317	4126-7836	WORTMAN, W.W.	JOHN T. UHL	1959	H	1945	S	PP /SS
318	4126-7835	KELLER, J.J.	DELP BROTHERS	1974	H	1800	S	PP /SS
319	4127-7833	DE LULLO, DAVE	FORSYTH DRILLING CO.	1975	H	1850	S	ML /SH
320	4127-7833	BUCHHEIT, R.L.	DELP BROTHERS	1976	H	1750	S	PP /SS
321	4127-7833	PFEUFER, ANTHONY	PURE WATER	1976	H	1820	S	PP /SS
322	4127-7825	FELDRAUER, P.J.	FORSYTH DRILLING CO.	1967	H	1940	S	ML /SH
323	4127-7835	KAVENEY, DENNIS	FORSYTH DRILLING CO.	1976	H	2005	S	PP /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH BELOW LAND SURFACE (FEET)	LEVEL DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (RPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
60	30	7	50	40	8/62	5	.25				EK- 272
79	50	7	70	68	7/62	10					273
83	49	7	75	55	8/62	15					274
61	30	6	35/ 50	35	8/59	10	.55				275
80	24	6									276
60	44	6	42								277
65	53	6	55	40	8/61	20					278
58	29	6	35/ 50	28	3/67	25	7.4				279
110	25	6	90	80	7/61	6					280
60	23	6	35/ 55	30	5/67	30					281
114				51	9/76	8	.57				282
89	13	6	60/ 80	64	7/58	20					283
120	21	6									284
99	68	6	50/ 68/ 95								285
135	26	6	128	45		30					286
105	42	6	96/102	56	4/77	15					287
100	12	6	80	50	7/73	6					289
112	72	8	18/ 84			178					290
120	60	6	110	81	7/76	15	15				291
60	32	6	52			12					292
125	30	6	125								293
107	13	6	99	66	10/76	30					294
104	60	6	20/ 90	70	4/67	30					295
64		6	55								296
64	50	6	50/ 60			48					297
92	17	6	84	21	10/76	12	3.0				298
120	22	6	91/108/114	41	5/77	20	10				299
77	21	6	60/ 71	40	9/76	10	2.0				300
78	20	6	65	20	10/76	15	1.5				301
40	12	6	10/ 18/ 36								302
60	44	6	55								303
202	84	6	185	152	6/64	30					304
106	86	6	94/100	62	7/77	20					305
51	34	6	40	30	1/75	40					306
96											308
75	21	6	45/ 58	21	11/76	8					309
70	22	6	60	40	1/75	15					310
65	18	6	18/ 42/ 52								311
97	16	6	85								312
160	16	6	150	63	5/68	10	.13				313
50	18	8	40								314
80	40	6	42/ 75								315
50	20	6									316
66	12	6	58								317
70	32	6									318
395		6	360			5					319
135	83	6									320
120	21	6	118	51	8/76	15	7.5				321
210	21	6	70/205			2					322
140	20	6	65/128			7					323

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	ADULT- FER- /LITH- OLOGY
FLK								
EK- 324	4128-7835	CHALLINGSWORTH, DONALD	JOHN T. UHL	1959	H	2025	S	ML /
325	4128-7834	RIGARD, E.C.	JOHN T. UHL	1960	H	2015	S	PP /SS
326	4128-7834	LODES, K.F.	FORSYTH DRILLING CO.	1976	H	2160	H	ML /SS
327	4128-7834	WICKETT, M.A.	JOHN T. UHL	1960	H	1890	S	PP /SS
328	4128-7833	STEIS, JEROME	FORSYTH DRILLING CO.	1967	H	1810	S	ML /
329	4125-7835	EOZON, JOSEPH	PURE WATER	1976	H	1750	S	ML /SS
330	4126-7834	HABERBERGER, R.J.	DINGER BROS. DRILLING	1966	H	1820	H	PP /SS
331	4127-7836	ROSS, ANTHONY	JOHN T. UHL	1959	H	2005	S	PP /SS
332	4135-7838	DICKINSON, E.C.	PURE WATER	1975	H	1940	H	PP /SS
333	4133-7840	MILLER, L.J.	JOHN T. UHL	1959	H	1725	S	PP /SS
334	4132-7840	BENNETT, L.H.	DELP BROTHERS	1973	H	1530	S	ML /SE
335	4125-7844	IPV CORP.	ROBERT L. CRYTSEY, JR.	1968	N	1465	T	ML /SS
336	4126-7842	KIELROWICK, FRED	FORSYTH DRILLING CO.	1975	H	1610	S	ML /SS
337	4126-7842	FERRAGINE, JAMES	KARLS COMP. WATER SYS. CO.	1974	H	1520	S	ML /SS
338	4136-7837	ST. ANN'S CATHOLIC CHURCH			H	1945	S	PP /SS
339	4129-7840	CASILIO, J.R.	FORSYTH DRILLING CO.	1967	C	1445	T	ML /SS
FOREST								
FO- 10	4129-7900	KELLY PINES FLOWING WELL			U	1460	T	/
11	4128-7903	U.S. GEOLOGICAL SURVEY	JAY C. GILFORD	1973	H	1780	S	PA /SLTV
13	4134-7858	U.S. FOREST SERVICE			P	1905	H	PP /SS
15	4128-7906	ESTES, LARRY	JAY C. GILFORD	1974	H	1760	H	PP /SS
16	4125-7909	KOLAR, JOHN	JAY C. GILFORD	1974	H	1720	H	PP /SS
17	4122-7906	LEDOME, A.H.	JAY C. GILFORD	1975	H	1540	H	PP /SS
23	4132-7902	O'BRIEN, JOHN	KARLS COMP. WATER SYS. CO.	1975	H	1750	H	PP /SS
25	4120-7907	LEIDELLA, MORRIS	JAY C. GILFORD	1970	H	1205	T	ML /SS
26	4119-7907	LYNN, H.A.	JAY C. GILFORD	1972	H	1210	T	ML /SS
27	4123-7909	HARTELL, LIONEL	JAY C. GILFORD	1972	H	1580	S	PP /SH
30	4131-7903	SACKMAN, FRANK T.	JAY C. GILFORD	1972	H	1830	H	PP /SS
34	4126-7910	GALLINEAU, JOHN	JAY C. GILFORD	1971	H	1645	S	PP /SS
35	4126-7910	DEL PORTA, WILLIAM	JAY C. GILFORD	1971	H	1600	S	PP /SS
40	4119-7906	DOUTHETT, R.W.	ROBERT L. CRYTSEY, JR.	1964	H	1195	T	ML /SH
41	4119-7906	FYOCK, JOHN	ROBERT L. CRYTSEY, JR.	1964	H	1260	S	ML /SH
42	4121-7906	CLARK, ALDINE	ROBERT L. CRYTSEY, JR.	1964	H	1555	H	PP /SS
43	4121-7906	ALLSHOUSE, B.C.	DELP BROTHERS	1975	H	1530	H	PP /SS
44	4120-7909	BORTZ, W.K.	HAROLD MILLER	1966	H	1260	S	ML /SS
45	4119-7909	WATTS, R.E.	JAY C. GILFORD	1965	H	1210	S	ML /SS
46	4120-7908	BYRNE, E.J.	HAROLD MILLER	1967	H	1585	H	PP /SS
47	4120-7909	RIGGS, W.A.	HAROLD MILLER	1967	H	1580	H	PP /SS
50	4122-7911	HUTCHINS, J.C.	KARLS COMP. WATER SYS. CO.	1973	H	1650	H	ML /SS
52	4130-7904	MANFREDO, SAMUEL	JAY C. GILFORD	1970	H	1825	S	PP /SS
53	4128-7906	GRIFFIN, RICHARD	JAY C. GILFORD	1969	H	1750	S	PP /SS
54	4128-7906	DONOFRIO, H.J.	JAY C. GILFORD	1969	H	1775	H	PP /SS
55	4125-7906	BARTHEL, W.A.	HAROLD MILLER	1967	H	1675	H	PP /SLTV
56	4129-7905	U.S. FOREST SERVICE	HUBERT SAXTON	1969	H	1775	H	PP /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RF- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (PPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
75	30	6	60								EX- 324
63	13	6	20/ 55								325
160	21	6	62/146			6					326
141											327
120	35	6	42/110			15					328
110		6	97/101/104	50	10/76	10	1.1				329
62		6	50			5					330
108	14	6	54/100								331
212	21	6	208	191	9/75	10					332
75	10	6	17/ 70								333
120	22	6				6					334
105	32	8	20/ 65/ 90	19	1/68	106					335
270	20	6	105/250			10					336
170	126	6	138/158			7					337
100				60		20					338
80	35	6				20					339

COUNTY

		7		F	1/73	10					F0- 10
110	23	6	40/ 70	10	10/73	10	.65	3	110	5.4	11
		6						1	23	5.6	13
75	18	6	40/ 65	30	7/74	10	1.5				15
85	18	6	45/ 75	25	8/74	4	.08				16
60	10	6		20	7/75	12	1.2	4	118	6.3	17
198	21	6		16	7/75	30		2	65		23
45	30	6	40	25	8/70	3	.30				25
60	28	6	42/ 55	20	4/72	8	.53				26
85	40	6	23/ 45/ 76	30	5/72	4	.09				27
48	16	6	38/ 42	15	7/72	8	.80				30
45	20	6	30/ 40	12	5/71	10	1.0				34
52	18	6	40/ 48	22	5/71	5	.33				35
50	22	6	35	10	5/64	15					40
55	41	6	50	35	7/64	30					41
52	12	6	44	30	8/64	6					42
90	20	6									43
100	60	6	65/ 93	65		34					44
60	20	6	49								45
105	53	6	65/ 85	69	9/67	3	.09				46
64	22	6	58	30	9/67	12					47
300	112	6	239			8					50
40	20	6	10/ 35	12	8/70	8	1.0				52
55	17	6	30/ 50	30	10/69	4	.27				53
45	12	6	16	10	9/69	1	.33				54
75	22	6	34/ 50	30	7/67	5					55
150	40	6	45/ 70/104	48		28	.46	2	119	6.2	56

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	ROUT- FEE- /LITH- OLOGY
JEFFERSON								
JE- 3	4110-7855	RUSSARD, JOHN			H	1560	S	PP /
5	4104-7852	GUTHRIE, R.H.	GARY A. LINDEMUTH	1975	H	1395	T	PA /SS
6	4109-7849	PERRIN, K.D.	ROBERT L. CRYTSE, JR.	1973	H	1560	S	PA /SS
12	4105-7851		MORRIS SMITH		H	1390	V	PA /
15	4105-7852	BOROUGH OF REYNOLDSVILLE			P	1410	V	PA /SS
16	4106-7852	BOROUGH OF REYNOLDSVILLE			N	1435	T	PP /SS
17	4108-7854	HETRICK, C.A.			H	1830	S	PA /SS
23	4106-7857	U.S. GEOLOGICAL SURVEY	HAROLD MILLER	1967	H	1660	S	PA /SS
27	4105-7853	BOROUGH OF REYNOLDSVILLE			P	1360	T	PP /SS
28	4116-7909	HORNEMAN, J.R.	DELP BROTHERS	1974	H	1730	S	PP /SLTN
29	4107-7910	PEOPLES WATER CO			P	1260	S	PP /
30	4107-7910	PEOPLES WATER CO.			P	1310	S	PP /
36	4114-7853	MCKAY, RICHARD S.	ROBERT L. CRYTSE, JR.	1964	H	1715	S	PA /LW
38	4108-7856	PENNDOT	MOODY DRILLING CO., INC.	1970	H	1625	S	PP /SS
39	4115-7844	BROCKWAY GLASS CO.	C. C. CHITESTER	1941	N	1470	T	PA /SLTN
40	4114-7847	BROCKWAY GLASS CO.		1940	U	1445	T	PA /
41	4113-7842	BOROUGH OF BROCKWAY			U	1725	T	ML /
42	4109-7910	CARRIER, ROY			U	1410	S	/
43	4108-7910				U	1380	S	/
44	4109-7909	MAGILL # 4			U	1400	S	/
45	4115-7907	TROUT, F.C.	ROCKFY BROS. DRLG. CONTRS.	1958	H	1700	S	PP /SS
46	4115-7907	PERRY, G.W.	DINGER BROS. DRILLING	1969	H	1710	S	PP /SS
47	4115-7907	GLENN, PERRY	DINGER BROS. DRILLING	1969	H	1720	S	PP /SS
48	4115-7907	GUTH, ED	ROBERT L. CRYTSE, JR.	1963	H	1710	S	PP /SS
49	4118-7907	WALMER, A.W.	HAROLD MILLER	1967	H	1580	H	PP /SS
50	4119-7908	PANGELLO, VINCENT	HAROLD MILLER	1968	H	1580	S	PA /SS
51	4119-7908	PANGALLO, E.J.	HAROLD MILLER	1967	H	1620	S	PP /SLTN
52	4119-7908	REEDY, SHARON GRACE	HAROLD MILLER	1967	H	1610	W	PP /SLTN
53	4116-7906	TRUMAN, HARRY	JAMES ASEL	1943	H	1780	H	ML /
54	4116-7906	WHITFD, VERNON	ROBERT L. CRYTSE, JR.	1966	H	1810	H	ML /SS
55	4118-7907	HIMES, JOSEPH	DELP BROTHERS		H	1610	H	PP /SS
56	4120-7902	MIEIKE, JOHN	ROBERT L. CRYTSE, JR.	1959	H	1710	S	/
57	4120-7903	CAMP SINCLAIR	HAROLD MILLER	1967	H	1625	S	PP /SS
58	4116-7906	VAN STEAMBURG, GUY	HAROLD MILLER	1968	H	1870	H	PP /SS
59	4114-7906	STOCKDALE, RICHARD	KARLS COMP. WATER SYS. CO.	1966	H	1730	H	PP /SS
60	4114-7906	STEVENS, DAISY			U	1690	S	PA /
61	4118-7910	CLARK, MAL	HAROLD MILLER	1966	H	1535	S	PP /SS
62	4111-7906	LEACH, CHARLES D.	KARLS COMP. WATER SYS. CO.	1935	H	1630	S	PP /
63	4108-7911				U	1250	T	/
64	4109-7911	CARRIER, ISAAC			U	1315	S	/
65	4112-7859	GALBRAITH, WILLIAM	DELP BROTHERS	1973	H	1760	S	PA /SH
66	4105-7851	PA CORE HOLE #4	HARVEY DIAMOND DRILLING CO	1969	U	1470	S	/
67	4112-7855	PA CORE HOLE #6	HARVEY DIAMOND DRILLING CO	1973		1910	H	PA /
68	4107-7857	PA CORE HOLE #7	HARVEY DIAMOND DRILLING CO	1973		1815	H	PA /SS
69	4106-7857	REITZ ROBERT CAMP GROUNDS	ROBERT L. CRYTSE, JR.	1972	P	1580	W	PA /
70	4106-7858	ZIMMERMAN, RICHARD	HAROLD MILLER	1971	H	1665	S	PA /
71	4111-7906	LEACH, CHARLES		1939	H	1630	S	PP /
72	4111-7906	LEACH, CHARLES			H	1630	S	PA /
73	4110-7851	COOPER, BLAKE	ROBERT L. CRYTSE, JR.	1959	H	1720	S	PA /
74	4108-7848	SMITH, FREDERIC K. JR.	ROBERT L. CRYTSE, JR.	1961	H	1480	S	PA /

-- RECORD OF WELLS. CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
112											JF- 3
30	24	6		20	9/75	10					5
30	15	6	25	5	4/73	30		17	65		6
80	30	8		F							12
210				60							15
297	28	10		30							16
47	14	6		30							17
101	37	6	33/ 42/ 52/ 72	27	5/75	16	.34	16	420	6.7	23
128								5	380	7.5	27
60	24	6									28
125	48	4						12		6.9	29
195	121	8						13			30
60	40	6	10/ 50	30	9/64	20		3		6.6	36
295	85	6	79/220/250	52	4/70	60	.24				38
116	57	10		8		254	8.2	5	400	7.3	39
100		8		10	1/62	21	.42				40
125	43	8		F	4/70	100		4	450	6.8	41
		6		F	6/74	15		50	1930		42
				F	5/72	2		52	1870	5.7	43
				F	5/72	8		6	558	6.0	44
30	30	6		17		10					45
102	22	6	57/ 74/ 90			2					46
102	22	6	57/ 74/ 90	50		2					47
42	30	6	35	15		4					48
62	18	6	32/ 50	30	1/67	.5	.02				49
70	18	6	60	30	11/68	5	.14				50
27	22	6	24	23	/67	12					51
90	22	6	45/ 83	17	8/67	4	.06				52
357	307	3		307							53
370	329	6	162/192	260	11/66						54
105	50	6	100								55
	12	6	35	35	9/59						56
96	24	6	30/ 65/ 80	30	2/67	10	.17				57
128	20	6	50/ 80/110	78	2/68	4	.11				58
240	21	6									59
96		6		61	8/73	5	.18				60
140	22	6	30/ 75/127/134			15					61
90		5		55	1/73	.5	.17				62
		12		F	7/71	10		49	1720	5.7	63
		6		F	7/71	15		52	1850	6.5	64
65	28	6		42	9/73	20	7.7	2	180	5.6	65
409	19	3		65	5/73						66
699	19	3	105/510	148	4/73			3	125	6.4	67
891	19	3	88/140/190/290/800	362	10/73			21	5500	6.3	68
42	10	6		6	11/73	40	4.0	2	325		69
65	20	6	60	9	11/73	5	.24	1	200		70
60	40	8		30	10/69	8		6		5.5	71
30		36		10					80		72
63	27	6	35/ 55	28	10/59	30	3.0				73
80	23	6	60	40	5/61	5	.12				74

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER /LITH- OLOGY
								JEFFERSON
JE- 75	4108-7849	FERNAYS, JOHN	ROBERT L. CRYTSE, JR.	1961	H	1570	H	PA /
76	4110-7852	COOPER, W.R.	ROBERT L. CRYTSE, JR.	1976	H	1650	S	PA /SH
77	4110-7853	COOPER, FORD	ROBERT L. CRYTSE, JR.	1959	H	1800	H	PA /
78	4108-7848	COPENHOUER, OSCAR	ROBERT L. CRYTSE, JR.	1959	H	1520	H	PA /
83	4111-7906	MELZER-MCMASTERS #2 WATER WELL		1952	Z	1585	S	ML /
84	4100-7904	SHERRY, J.K.	DINGER BROS. DRILLING	1974	H	1710	H	PA /SH
86	4114-7849	FREEMER, GEORGE	DELP BROTHERS	1973	H	1745	H	PA /SLTV
87	4108-7911	ROSS, MARY			U	1255	S	/
89	4117-7859	COLUMBIA GAS CO.			H	1720	S	PP /SS
90	4118-7904	COMMONWEALTH OF PENNSYLVANIA			U	1370	T	/
91	4118-7903	COMMONWEALTH OF PENNSYLVANIA			U	1390	T	/
92	4120-7900	COMMONWEALTH OF PENNSYLVANIA			U	1280	T	/
93	4109-7911				U	1380	T	/
94	4110-7911				U	1570	S	/
95	4113-7910	LOVE			U	1390	T	/
96	4113-7907				U	1480	T	/
97	4113-7911				U	1360	C	/
98	4113-7911	COMMONWEALTH OF PENNSYLVANIA			U	1360	T	/
99	4112-7911				U	1450	S	/
100	4114-7908				U	1520	S	/
101	4108-7904				U	1255	S	/
102	4102-7904				U	1250	T	/
104	4105-7852	BOROUGH OF REYNOLDSVILLE			P	1380	T	PA /SS
136	4116-7856	DAVIS, VINCENT	ROCKEY BROS. DRG. CONTRS.		H	1665	S	PP /SS
137	4108-7857	WOMELDORF INC.	ROBERT L. CRYTSE, JR.	1967	U	1605	S	PP /SS
138	4108-7857	EMORY, R.L.	HAROLD MILLER	1974	H	1625	H	PA /SLTV
139	4108-7858	DINGER, R.B.	ROBERT L. CRYTSE, JR.	1973	H	1550	S	PP /SS
140	4114-7848	PRESTON, R.T.	DELP BROTHERS	1973	H	1700	H	PA /SS
141	4114-7845	STONEBERG, HARRY, JR.	GARY A. LINDEMUTH	1969	H	1455	T	QAL /GV
142	4114-7849	SMITH, PAUL	ROBERT L. CRYTSE, JR.	1970	H	1760	H	PA /SS
143	4114-7849	SALANDRA, CLYDE	ROBERT L. CRYTSE, JR.	1967	H	1715	S	PA /SLTV
144	4114-7849	MURRAY, C.A.	ROBERT L. CRYTSE, JR.	1967	H	1740	S	PA /SH
145	4111-7847	HARTZFIELD, J.T., JR.	ROBERT L. CRYTSE, JR.	1969	H	1720	S	PA /SS
146	4114-7849	MURRAY, T.A.	ROBERT L. CRYTSE, JR.	1968	H	1700	S	PA /SS
147	4113-7848	GALLON, SAM	GARY A. LINDEMUTH	1973	H	1680	S	PA /SS
148	4112-7857	LOCKWOOD, H.E.	GARY A. LINDEMUTH	1974	H	1785	S	PP /SS
149	4111-7858	EGLET, WILLIAM	ROBERT L. CRYTSE, JR.	1975	H	1680	S	PP /SS
150	4109-7851	BUSSARD, M.G.	ROBERT L. CRYTSE, JR.	1970	H	1565	T	PA /SH
151	4112-7846	BRUBAKER, WILLIAM	ROBERT L. CRYTSE, JR.		H	1630	S	PA /
152	4109-7848	DAUGHERTY, J.W.	ROBERT L. CRYTSE, JR.	1970	H	1495	T	PA /SS
153	4112-7846	DONATI, JOSEPH	ROBERT L. CRYTSE, JR.	1968	H	1660	S	PA /SLTV
154	4109-7847	DUTTRY, FREDERICK	DINGER BROS. DRILLING	1970	H	1500	S	PP /SS
155	4110-7847	GAFFNEY, J.A.	ROBERT L. CRYTSE, JR.	1969	H	1580	T	PP /SS
156	4109-7849	WHIPPLE, HENRY	ROBERT L. CRYTSE, JR.	1967	H	1570	S	PA /SS
157	4108-7857	PENNDOT	MOODY DRILLING CO., INC.	1970	H	1575	S	PP /SS
158	4109-7850		ROBERT L. CRYTSE, JR.	1975	H	1790	S	PA /SH
159	4110-7852	TUDOR, KENNETH	GARY A. LINDEMUTH	1972	H	1620	S	PA /SS
160	4110-7850	TONSCH, JOHN	ROBERT L. CRYTSE, JR.	1975	H	1715	S	PA /SH
161	4112-7847	SMITH, DICK	GARY A. LINDEMUTH	1973	H	1730	S	PA /SH
162	4112-7854	QUINN, DICK	DELP BROTHERS	1973	H	1590	T	PP /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH BELOW LAND SURFACE (FEET)	LEVEL DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (PPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
146	14	6	71/135	71	10/61	3	.04				JE- 75
64	22	6	15	15	1/76	30					76
115		6		62	4/59	10					77
96	11	6	51/ 70	45	5/59	5	.10		600		78
217		6		127	5/74						83
162	20	6	70/153	130	5/74	9	1.0				84
342	23	6				8					86
		12		F	6/74	35		45	1400	6.2	87
130		6		53	9/74						89
		8		F	5/72	10			325	7.9	90
		8		F	5/72	25			235	7.2	91
		8		F	6/72	5			450	7.6	92
				F	7/74	26		80	1750	6.2	93
				F	7/74	18		25	950		94
				F	8/73	12			240	6.4	95
				F	8/73	5			344	6.7	96
				F	8/73	7			825	5.7	97
				F	8/73	20			925	5.8	98
				F	8/73	4			242	6.3	99
				F	8/73	10			314	6.6	100
				F	8/73	4			246	4.7	101
				F	8/73	14			316	7.4	102
110									580	7.7	104
110	80	6	80								136
169	63	8	41/ 75/140	100	7/67	40					137
126	18	6	45	40	9/74	5	.06				138
138	25	6	130	88	7/73	20					139
270	25	6				6					140
35	35	6	35	20	8/69	10					141
154	154	5	134	119	9/70	30					142
100	42	6	90	60	7/67	15					143
84	34	6	23/ 78	33	3/67	30	.6.0				144
95	22	6	80	44	8/69	20					145
155	35	6	21/145	60	4/68	14					146
140	20	6	125	40	10/73	10	1.0				147
120	20	6	50/100	80	7/74	10					148
102	14	6	90	58	5/75	40					149
38	33	6	35	15	5/70	30					150
75			68	38	8/67	30					151
31	15	6	29	5	10/70	20					152
77	32	6	68	27	8/68	10					153
142	22	6	54/100/135			6					154
85	35	6	60/ 80	39	8/69	4					155
50	23	6	36/ 45	14	8/67	45					156
298	170	6	/186/240	33	/70	35	3.9				157
60	23	6	45	30	4/75	15	.50				158
40	22	6	28	20	8/72	8	.80				159
50	28	6	34/ 40	20	6/75	20	1.3				160
80	30	6	70	50	10/73	7	.70				161
55	20	6				10					162

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	AQUI- FER/ LITH- OLOGY
JEFFERSON								
JE- 163	4109-7849	PERRIN,K.D.	ROBERT L. CRYTSE, JR.	1967	H	1550	S	PA /SS
164	4113-7852	LINDEMUTH,MELVIN	GARY A. LINDEMUTH	1974	H	1635	T	PA /SS
165	4109-7849	COLLINS,FRANCIS	ROBERT L. CRYTSE, JR.	1975	H	1500	T	PA /SS
166	4105-7850	ALDRFTON,F.W.	GARY A. LINDEMUTH	1970	H	1475	S	PA /SH
167	4106-7852	GIPSON,R.L.	ROBERT L. CRYTSE, JR.	1973	H	1460	S	PA /SH
168	4107-7852	RAYBUCK,H.F.	ROBERT L. CRYTSE, JR.	1975	H	1500	S	PA /SH
169	4105-7851	SCHUCKERS,L.J.	GARY A. LINDEMUTH	1974	H	1405	S	PA /SH
170	4113-7849	CALHOUN,R.E.	ROBERT L. CRYTSE, JR.	1976	H	1750	H	PA /SH
172	4108-7848	BOROUGH OF FALLS CREEK	ROBERT L. CRYTSE, JR.	1960	P	1455	T	PP /SS
173	4108-7848	BUNDY,G.F.	ROBERT L. CRYTSE, JR.	1966	H	1465	H	PA /SS
174	4107-7852	WELLS,J.D.	ROBERT L. CRYTSE, JR.	1967	H	1390	T	PP /SS
175	4107-7849	EDWARDS,ETHYL	ROBERT L. CRYTSE, JR.	1961	H	1400	T	PA /SH
176	4107-7848	ROSS,H.V.	ROBERT L. CRYTSE, JR.	1973	H	1400	S	PA /OTHR
177	4110-7851	STERRETT,J.A.	ROBERT L. CRYTSE, JR.	1964	H	1710	S	PA /SH
178	4110-7851	SCULL,H.F.	ROBERT L. CRYTSE, JR.	1976	H	1695	H	PA /SS
179	4110-7850	SNYDER,C.J.	ROBERT L. CRYTSE, JR.	1966	H	1640	S	PA /SS
180	4110-7850	WASHINGTON TOWNSHIP	ROBERT L. CRYTSE, JR.	1976	H	1605	T	PA /SH
181	4110-7851	SHERWIN,J.M.	ROBERT L. CRYTSE, JR.	1970	H	1705	H	PA /SLTN
182	4111-7850	BEECHWOODS PRESBYTERIAN CHURCH	ROBERT L. CRYTSE, JR.	1976	H	1680	S	PA /SH
183	4111-7849	WILLIAMSON,S.P.	ROBERT L. CRYTSE, JR.	1976	H	1740	S	PA /SH
184	4111-7848	ESOLA,J.L.	FORSYTH DRILLING CO.	1976	H	1690	S	PA /SS
185	4111-7848	WELSH,D.K.	ROBERT L. CRYTSE, JR.	1974	H	1700	S	PA /SH
186	4112-7849	BEECHTREF UNION CHURCH	ROBERT L. CRYTSE, JR.	1959	H	1560	S	PA /SH
187	4112-7852	LINDEMUTH,R.J.	GARY A. LINDEMUTH	1976	H	1800	S	PA /SS
188	4113-7849	HUTCHINS,R.G.	ROBERT L. CRYTSE, JR.	1961	H	1730	S	PA /OTHR
189	4114-7850	FELT,GEORGE	DELP BROTHERS	1970	H	1655	T	PA /SH
190	4114-7849	CALHOUN,DWIGHT	ROBERT L. CRYTSE, JR.	1961	H	1760	H	PA /SS
191	4113-7848	JOHNS,F.A.	ROBERT L. CRYTSE, JR.	1975	H	1725	H	PCG /SH
192	4114-7849	GENEVRO,G.P.	GARY A. LINDEMUTH	1971	H	1770	H	PA /OTHR
193	4114-7845	TRUNZO,W.M.	ROBERT L. CRYTSE, JR.	1970	H	1465	T	PA /SS
194	4114-7848	CHARLESON,H.J.	ROBERT L. CRYTSE, JR.	1975	H	1655	H	PA /SH
195	4114-7851	ANDERSON,P.L.	GARY A. LINDEMUTH	1974	H	1710	S	PA /SS
196	4114-7850	REYNOLDS,D.B.	GARY A. LINDEMUTH	1969	H	1700	S	PA /SH
197	4110-7846	VANCE,E.L.	ROBERT L. CRYTSE, JR.	1960	H	1540	T	ML /SS
198	4101-7858	MANNERS,SIDNEY	DINGER BROS. DRILLING	1969	H	1720	S	PA /SS
199	4102-7856	MULHOLLAN,J.H.	ROBERT L. CRYTSE, JR.	1962	H	1760	S	PCG /SS
200	4103-7855	DOUTHIT,D.L.	ROBERT L. CRYTSE, JR.	1957	H	1795	S	PCG /SS
201	4002-7857	RHODES,S.D.	DINGER BROS. DRILLING	1967	H	1810	S	PA /SS
202	4102-7854	VEITZ,ANTHONY	ROBERT L. CRYTSE, JR.	1967	H	1550	S	PA /SH
203	4103-7855	SMITH,K.E.	ROBERT L. CRYTSE, JR.	1976	H	1755	S	PA /SH
204	4107-7858	CLINGER,K.L.	ROBERT L. CRYTSE, JR.	1962	H	1505	S	PA /SS
205	4106-7855	FAULKNER,S.A., JR.	ROBERT L. CRYTSE, JR.	1957	H	1665	H	PA /SS
206	4106-7854	CLONTZ,W.L.	ROBERT L. CRYTSE, JR.	1975	H	1720	H	PA /SH
207	4105-7852	LICHVARCIK,W.A.	GARY A. LINDEMUTH	1969	H	1450	S	PA /SS
208	4106-7853	HARRIGER,W.C.	DELP BROTHERS	1973	H	1480	S	PA /SS
209	4115-7846	REED,R.E.	ROBERT L. CRYTSE, JR.	1975	H	1530	S	PA /SH
210	4115-7846	INZANA,P.J.	GARY A. LINDEMUTH	1974	H	1740	H	PA /SS
211	4115-7848	WEILACHER,NORMAN	ROBERT L. CRYTSE, JR.	1959	H	1505	S	PA /SS
212	4115-7850	MARTINI,JAMES	ROBERT L. CRYTSE, JR.	1968	H	1750	S	PA /SLTN
213	4115-7850	FOEKS,C.F.	DELP BROTHERS	1975	H	1760	S	PA /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
55	30	6	20/ 45	7	9/67	30					JF- 163
40	34	6	35	10	3/74						164
33	16	6	25	5	4/75	40	4.0				165
58	21	6	48	30		7	.35				166
78	25	6	70	58	7/73	20					167
70	14	6	60	40	4/75	8	.27				168
50	27	6	40	15	9/74	10	.67				169
235	20	6	160	160	2/76	5					170
295	38	8	27/ 50/ 80	30	8/60	65	.27				172
105	17	6	62	25	9/66	6	.08				173
42	40	6	40	18	6/67	40					174
56	21	6	45	20	9/61	40	2.0				175
60	40	6	35/ 50	15	5/73	30					176
85	49	6	44	44	6/64	20		4	160		177
114	57	6	90	70	3/76	30					178
65	22	6	35/ 60	40	7/66	15					179
56	40	6	48	6	10/76	45					180
69	43	6	60	5	10/70	45					181
92	25	6		70	10/76	30					182
116	23	6	103	65	6/76	15					183
120		6	112			10					184
74	18	6	62	54	7/74	30					185
50	15	6	40	20	8/59	10					186
115	25	6									187
135	22	6	73/130	105	8/61	20					188
40	22	6	35	20	5/70	20					189
125	32	6	115	80	3/61	5	.11				190
205	12	6	100	100	9/75	6	.06				191
180	47	6	85	20	3/71	8					192
26	23	6	26	6	10/70	10					193
217	25	6	130/190	117	6/75	30					194
90	20	6	60/ 80	60	9/74	10	1.0				195
90	22	7	77	25	6/69	5					196
43	41	6	42	5	1/60	30	10				197
102	22	6	42/ 66			3					198
114	14	6	79	79	4/62	30					199
61	23	6	45	30	5/57	5	.16				200
92	22	6	63/ 74			8					201
95	38	6	82	55	7/67	8	.23				202
165	18	6	106	100	8/76	1					203
45	21	6	35	18	5/62	30	1.7				204
68	17	6	40	32	8/57	20					205
97	17	6		57	9/75	30					206
70	22	7	58	25	1/69						207
60	30	6				14					208
61	21	6	35	20	9/75	8	.20				209
170	20	6	75/155	130	5/74	10		10	380		210
58	12	6	15/ 48	10	10/59	2					211
135	85	5	75/125	70	3/68	6	.13				212
90	28	6						7	290		213

TABLE - 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	ADDITIONAL LITH- OLOGY
JEFFERSON								
JE- 214	4115-7851	BOVAIRD, W.B.	GARY A. LINDEMUTH	1969	H	1765	S	PA /SH
215	4115-7851	ROSS, T.L.	DELP BROTHERS	1974	H	1805	S	PA /SS
216	4116-7850	GORHAM, D.R.	ROBERT L. CRYTSE, JR.	1959	H	1880	H	PA /SH
217	4114-7852	HOLT, B.J., JR.	GARY A. LINDEMUTH	1973	H	1650	S	PA /SH
218	4113-7856	WILLIAMS, A.D.	ROBERT L. CRYTSE, JR.	1966	H	1755	T	PP /SS
219	4114-7856	GEISLER, WILLIAM	GORDON R. MILLER	1977	H	1790	H	PP /SS
220	4113-7857	HICKMAN, JOHN	DELP BROTHERS	1974	H	1720	S	PP /SS
221	4113-7858	EDWARDS, CLYDE	DELP BROTHERS	1973	H	1745	H	PP /SS
222	4113-7859	ROBINSON, J.T.	ROBERT L. CRYTSE, JR.	1967	H	1635	S	PP /SS
223	4113-7858	PETITTI, GERALD	DELP BROTHERS	1975	H	1715	S	PP /SS
224	4112-7857	NOSKER LUMBER CO.	ROBERT L. CRYTSE, JR.	1968	H	1685	S	PP /SS
225	4112-7857	STORMER, L.B.	GARY A. LINDEMUTH	1968	H	1715	S	PP /SS
226	4111-7856	TRUESDALE, E.L.	DELP BROTHERS	1975	H	1785	S	PP /SS
227	4108-7859	FORD, L.P.	HAROLD MILLER	1967	H	1590	S	PA /SS
228	4108-7859	FORD, L.P.	HAROLD MILLER	1969	H	1590	S	PA /SS
229	4107-7858	SCOTT, G.M.	ROBERT L. CRYTSE, JR.	1961	H	1650	S	PA /SS
230	4107-7859	LUÇAS, R.W.	HAROLD MILLER		H	1565	S	PA /SS
231	4107-7852	BURKETT, G.Z.	ROBERT L. CRYTSE, JR.	1967	H	1410	T	PP /SS
232	4108-7854	SCHUCKERS, DANIEL	ROBERT L. CRYTSE, JR.	1975	H	1835	H	PA /SS
233	4108-7853	CHERRY, D.R.	DELP BROTHERS		H	1690	T	PA /SS
234	4109-7854	MOORE, A.E.	ROBERT L. CRYTSE, JR.	1964	H	1770	S	PP /SH
235	4111-7852	MCCLELLAN, J.W.	ROBERT L. CRYTSE, JR.	1967	H	1675	S	PA /SLTV
236	4112-7856	CROSBY, L.W.	TOY DRILLING CO., INC.	1976	H	1810	H	PA /SS
237	4113-7855	KITE, J.E.	DELP BROTHERS	1969	H	1805	T	PA /SH
238	4110-7854	HALSTROM, A.B.	ROBERT L. CRYTSE, JR.	1975	H	1700	S	PA /SS
239	4120-7859	PUTT, M.W., JR.	HAROLD MILLER	1969	H	1650	H	PP /SS
240	4116-7859	DELO, J.T.	DELP BROTHERS	1976	H	1765	H	PP /SS
241	4116-7859	KLOZAL, G.L.	DELP BROTHERS	1972	H	1695	S	PP /SS
242	4116-7856	SYPHRIT, D.G.	ROBERT L. CRYTSE, JR.	1967	H	1585	S	PP /SS
243	4116-7859	SMITH, H.R.	DELP BROTHERS	1975	H	1570	S	PA /SH
244	4115-7858	WITHERSON, B.H.	DELP BROTHERS		H	1645	H	PP /SS
245	4117-7854	CONTRAL, J.H.	ROBERT L. CRYTSE, JR.	1975	H	1720	S	PP /SS
246	4117-7854	GRIFFITH, R.E.	DELP BROTHERS	1976	H	1680	S	PP /SH
247	4116-7855	LARIMER, MERLE	ROBERT L. CRYTSE, JR.	1959	H	1530	S	PP /SS
248	4116-7855	PHILLIPS, MICHAEL	DELP BROTHERS	1974	H	1705	S	PP /SS
249	4115-7856	DELP, J.A.	DELP BROTHERS	1974	H	1735	S	PA /SH
250	4120-7904	SMITH, J.C.	DELP BROTHERS	1970	H	1570	S	PP /SH
251	4120-7904	PATTON, G.K.	HAROLD MILLER	1973	H	1625	S	PP /SS
252	4118-7904	MILLER, K.R.	HAROLD MILLER	1975	H	1575	S	ML /SS
253	4118-7905	OLAY, MARCELLA	DELP BROTHERS	1975	H	1665	S	ML /SS
254	4118-7905	JONES, RAYMOND	DELP BROTHERS	1975	H	1685	S	PP /SS
255	4117-7907	COON, W.R.	HAROLD MILLER	1972	H	1775	S	PP /SS
256	4116-7907	HEETER, C.R.	ROBERT L. CRYTSE, JR.	1975	H	1770	W	PP /SS
257	4116-7906	BEERS, C.H.	TOY DRILLING CO., INC.	1966	H	1780	S	ML /SLTV
258	4116-7906	LUTHER, M.G.	ROBERT L. CRYTSE, JR.	1964	H	1815	S	PP /SS
259	4116-7900	BOWSER, S.K., JR.	ROBERT L. CRYTSE, JR.	1959	H	1655	H	PA /SS
260	4116-7900	CULEEN, J.A.	DELP BROTHERS	1976	H	1745	S	PP /SS
261	4116-7900	LAWRENCE, R.T.	DELP BROTHERS	1975	H	1720	S	PP /SS
262	4119-7902	RUDDOCK, H.E.	DELP BROTHERS	1969	H	1815	S	PP /SS
263	4119-7902	JAMISON, H.T.	DELP BROTHERS	1973	H	1820	S	PP /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH RELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH RELOW LAND SURFACE (FEET)	LEVEL DATE MEASURED (MO/YR)	RF- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (GPG)	SPECIFIC CONDUCTANCE (MICROHMOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
69	30	6				4					JE- 214
95	26	6									215
85	22	6	69/ 75	30	4/59	3					216
40	32	6	32	20	4/73	9	.90				217
130	22	6	46/120	105	10/66	30					218
78	40	6				4					219
80	22	6									220
205	36	6				10					221
50	23	6	40	20	5/67	10	.50				222
135	20	6									223
116	85	6	30/ 65/100	96	6/68	30					224
130	7		76/ 99/105								225
70	30	6									226
139	41	6	72/ 86	75	9/67	3	.05				227
80	45	6	60/ 70	40	3/69	5	.17				228
168	13	6	60/158	138	4/61	5					229
51	21	6	32/ 42	30	8/67	16	1.3				230
67	31	6	50	20	6/67	40					231
107	10	6	53/ 90	53	9/75	30					232
70	20	6									233
197	96	6	30/185	100	10/64	5					234
80	21	6	70	45	7/67	18	.82	8	270		235
76	21	6				9		3	75		236
44	25	6	30								237
60	36	6	50	30	4/75	30					238
122	22	6	110	80	2/69	7	.14				239
60	25										240
75	28	6									241
96	22	6	88	18	4/67	20	.34				242
45	20	6									243
165	26	6				6					244
49	12	6	25	25	7/75	10	.42				245
52	20	6									246
39	20	6	30	20	3/59	1					247
65	20	6									248
110	20	6									249
57	36	6									250
88	28	6	35/ 78	75	6/73	34	1.4				251
106	19	6	60/ 85	75	5/75	32					252
175	25	6									253
70	24	6									254
87	60	6	68	60	8/72	34	3.4				255
120	12	6	90	80	11/75	30					256
385	303	6	327/360			25					257
112	13	6	100	92	6/64	7					258
60	11	6	20	20	4/59	.3					259
152	20	6									260
66	20	6									261
60	25	6	50								262
105	33	6									263

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	ADULT- FEW LITH- OLOGY
JEFFERSON								
JE- 264	4119-7902	STARK, F. J.	HAROLD MILLER		H	1750	S	PP /SS
265	4121-7901	WALLACE, T. G.	KARLS COMP. WATER SYS. CO.	1976	H	1285	S	ML /SS
266	4118-7900	SHOEPIKER, J. D.	DELP BROTHERS	1973	H	1920	H	PP /SS
267	4059-7901	WHITESSELL, T. H.	DINGER BROS. DRILLING	1973	H	1625	H	PA /SH
268	4159-7901	WYANT, G. L.	DINGER BROS. DRILLING	1974	H	1610	H	PA /SH
269	4059-7902	CAPPELLA, ANGELO	DINGER BROS. DRILLING	1969	H	1610	S	PA /OTHER
270	4059-7904	MCAFOOS, W. E.	DINGER BROS. DRILLING	1973	H	1420	S	PA /SS
271	4059-7905	SIVFLING, G. R.	DINGER BROS. DRILLING	1966	H	1320	T	PP /SS
272	4058-7906	STAHLMAN, W. L.	DINGER BROS. DRILLING	1968	H	1425	H	PCS /SH
273	4059-7910	MARTZ, JAMES	DINGER BROS. DRILLING	1971	H	1525	H	PA /SS
274	4059-7910	CAYLOR, LEROY	DINGER BROS. DRILLING	1968	H	1460	S	PA /SS
275	4059-7910	STANFORD, BERNARD	DINGER BROS. DRILLING	1967	H	1360	S	PA /SS
276	4116-7910	MANSFIELD, W. A.	HOFFMAN DRILLING INC.	1974	H	1745	S	PP /SS
277	4116-7909	SMITH, PAUL	DELP BROTHERS	1970	H	1715	H	PP /SS
278	4117-7908	PRINGLE	KARLS COMP. WATER SYS. CO.	1976	H	1730	H	PP /SS
279	4118-7910	SPADE, M. A.	HAROLD MILLER	1969	H	1585	S	PP /SS
280	4118-7909	WOODROW, E. F.	HAROLD MILLER	1968	H	1575	H	PP /SS
281	4118-7910	ANDERSON, K. W.	HAROLD MILLER	1972	H	1540	S	PP /SH
282	4118-7908	HONNEFFER, J. C.	KARLS COMP. WATER SYS. CO.	1976	H	1620	S	PP /SS
283	4119-7909	COOK, F. E.	HAROLD MILLER	1967	H	1540	S	PP /SLTV
284	4119-7907	THOMPSON, C. L.	ROBERT L. CRYTSEY, JR.	1968	H	1550	H	PP /SS
285	4119-7907	CRAWFORD, G. E.	HAROLD MILLER	1967	H	1270	S	ML /SS
286	4101-7905	WASKO, A. J.	DINGER BROS. DRILLING	1973	H	1305	S	PP /SS
287	4102-7906	HARP, L. R.	ROBERT L. CRYTSEY, JR.	1973	H	1225	T	PA /SH
288	4105-7905	STEPHENSON, JACK	GORDON R. MILLER	1975	H	1565	S	PA /LH
289	4105-7906	BURNS, R. J.	HAROLD MILLER	1975	H	1520	S	PP /SS
290	4105-7905	KNAPP, H. A.	GORDON R. MILLER	1975	H	1540	S	PP /SH
291	4106-7901	BARBER, R. B.	DELP BROTHERS	1975	H	1645	S	PA /SH
292	4105-7900	SMITH, HARRY	DELP BROTHERS	1975	H	1420	S	PP /SS
293	4105-7901	ESRAUGH, C. C.	GLEN R. WEFER	1967	H	1660	H	PA /SH
294	4105-7901	SHAFER, D. L.	GLEN R. WEFER		H	1665	H	PA /SH
295	4105-7901	DONE, C. D.	GARY A. LINDEMUTH	1972	H	1705	S	PA /SS
296	4105-7901	DINGER, WADE	GLEN R. WEFER	1967	H	1710	H	PA /SH
297	4104-7903	HARRIS, J. L.	HAROLD MILLER	1967	H	1630	S	PA /SLTV
298	4104-7901	HUZARD, JAMES	HAROLD MILLER	1967	H	1515	T	PA /SS
299	4104-7900	CENTER HILL METHODIST CHURCH	HAROLD MILLER	1971	H	1845	H	PA /SS
300	4102-7901	COVATCH, RICHARD	DINGER BROS. DRILLING	1974	H	1530	S	PP /SH
301	4101-7902	BEATTY, R. L.	DINGER BROS. DRILLING	1972	H	1400	S	PP /SS
302	4101-7903	HURKETT, H. L.	DINGER BROS. DRILLING	1971	H	1415	T	PP /SS
303	4100-7903	HURKETT, J. E.	DINGER BROS. DRILLING	1971	H	1480	H	PP /SS
304	4100-7903	PROCTOR, GERALD	DINGER BROS. DRILLING		H	1670	S	PA /SS
305	4101-7904	HEIZENWATER, R. C.	DINGER BROS. DRILLING	1967	H	1590	S	PP /SH
306	4105-7859	CORBIN, D. J.	DELP BROTHERS	1974	H	1340	S	PP /SS
307	4103-7857	PUMINS, I. A. W.	DINGER BROS. DRILLING	1966	H	1805	S	PA /SS
308	4104-7856	SPENCER, WILLIAM	GORDON R. MILLER	1977	H	1800	S	PA /SH
309	4103-7859	UPLINGER, CALVIN	DINGER BROS. DRILLING	1971	H	1760	S	PA /SS
310	4103-7859	UPLINGER, ROBERT	DINGER BROS. DRILLING	1968	H	1415	H	PA /SH
311	4104-7854	WELLS, K. P.	FORSYTH DRILLING CO.	1976	H	1435	S	PP /SS
312	4107-7855	MCGARVEY EQUIPMENT CO.	ROBERT L. CRYTSEY, JR.	1968	H	1695	S	PP /SS
313	4103-7850	ROSANNA, K. M.	FORSYTH DRILLING CO.	1974	H	1525	S	PCS /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER LEVEL DEPTH BELOW LAND SURFACE (FEET)	DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (RPS)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
69	21	6	40/ 50			2					JF- 264
99	41	6				4					265
75	20					10					266
116	21	6	33/ 65			3					267
79	20	6	67			7					268
160	22	6	77/106			2					269
80	29	6	57/ 67			5					270
50	40	6	41			30					271
120	22	6	47			2					272
268	38	6	70/204/252			10					273
122	22	6	93			2					274
120	21	6	100			3					275
95	62	6	47/ 87	75	8/74	14	1.0				276
68	20	6	60								277
98	24	6				4					278
129	22	6	35/110/121	70	2/69	8					279
116	21	6	80/105	90	4/68	24					280
119	20	6	108	105	6/72		.89				281
124	19	6				4					282
62	21	6	38/ 45	20	7/67	14	.41				283
60	27	6	50	30	8/68	30					284
92	75	6	80	67	8/67	34					285
80	20	6	68			9					286
60	46	6	20	0	7/73	40					287
124	40	6	92/ 98			4					288
119	43	6	68/115	65	4/75	12	.27				289
61	20	6				8					290
75	20	6									291
55	20	6									292
175	21	6	145/170	80	6/67	2					293
225	23	6	140/220	125	5/67	2					294
190	25	6	80/125/135	70	9/72	4	.04				295
205	83	6	120/175/195	80	8/67	2					296
89	59	6	75	67	7/67	12	.75				297
42	33	6	34	8	7/67	10	.38				298
80	26	6	38/ 54/ 70	35	2/71	34	1.7				299
85	20	6	52/ 76			5					300
65	21	6	58			8					301
180	20	6	40/170			20					302
320	34	6	205			1					303
165	23	6	124/130/155			5					304
82	51	6	30/ 68			4					305
75	24	6									306
85	15	6	65			2					307
144	20	6	26/122			3					308
145	60	6	85/125			3					309
120	22	6	75/116			3					310
140	20	6	65/125			5					311
95	53	6	48/ 90	35	4/68	40					312
68	21	6	55			4					313

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	ADULT- FER /LITH- OLOGY
JFFERSON								
JE- 314	4103-7851	SPRAGUE, R.B.	ROBERT L. CRYTSEY, JR.	1976	H	1605	S	PCB /SS PA
315	4103-7850	DEITCH, J.E.	GARY A. LINDEMUTH	1970	H	1520	S	PA /SH PA
316	4105-7852	DEPELLO, F.W.	WALTER T. SMOUSE, JR.	1977	H	1575	H	PA /SH PA
317	4105-7850	BANTLY, H.C.	ROBERT L. CRYTSEY, JR.	1975	H	1410	T	PA /SH PA
318	4105-7852	REA, F.H.	WALTER T. SMOUSE, JR.	1977	H	1560	H	PA /SS PA
319	4105-7850	HARMON, J.E.	FORSYTH DRILLING CO.	1972	H	1480	S	PA /SH PA
320	4106-7850	DAVID, R.D.	ROBERT L. CRYTSEY, JR.	1961	H	1435	T	PA /SH PA
321	4106-7851	PALUMBO, T.C.	WALTER T. SMOUSE, JR.	1977	H	1505	S	PA /SS PP
322	4112-7908	BARRET	HAROLD MILLER	1972	H	1400	T	PA /SS PP
323	4114-7909	MCCOOL, L.V.	HAROLD MILLER	1972	H	1755	H	PA /SS PA
324	4110-7908	BARR, GARY	HAROLD MILLER	1975	H	1620	H	PA /SLTV PP
325	4108-7909	PHARF, W.W.	HAROLD MILLER	1975	H	1390	S	PA /SS PP
326	4108-7908	NORLE, STEVE	DELP BROTHERS	1970	H	1350	S	PA /SH PP
327	4108-7907	QUICK, R.G.	HAROLD MILLER	1975	H	1390	S	PA /SS PP
328	4108-7909	SMITH, J.L.	DELP BROTHERS	1972	H	1305	S	PA /SS PP
329	4107-7909	HAMLER, W.T.	GORDON B. MILLER	1977	H	1235	S	PA /SS PP
330	4113-7912	MOKK, HARRY	ROBERT L. CRYTSEY, JR.	1959	H	1630	S	PA /SH PP
331	4112-7911	'HILL, L.W.	ROBERT L. CRYTSEY, JR.	1966	H	1565	H	PA /SS PP
332	4107-7909	ISHMAN, H.B.	DELP BROTHERS	1975	H	1240	S	PA /SS PP
333	4107-7908	SHIELDS, C.H.	ROBERT L. CRYTSEY, JR.	1961	H	1460	S	PA /LW PP
334	4106-7908	SHIELDS, J.B.	DELP BROTHERS	1974	H	1490	H	PA /SS PP
335	4106-7907	FENSTEMAKER, RON	DINGER BROS. DRILLING	1970	H	1440	S	PA /SS PP
336	4104-7911	PUCALIK, A.J.	DINGER BROS. DRILLING	1971	H	1280	S	ML /SS PP
337	4100-7908	AMES, J.W.	DINGER BROS. DRILLING	1967	H	1680	H	PCB /SS PA
338	4100-7910	MARTZ, F.B.	DINGER BROS. DRILLING	1968	H	1300	S	PA /SS PP
339	4100-7910	YOUNG, R.J.	DINGER BROS. DRILLING	1969	H	1365	S	PA /SS PP
340	4114-7848	DU BOIS COUNCIL OF GIRL SCOUTS	ROBERT L. CRYTSEY, JR.	1956	T	1505	S	PA /SH PA
341	4113-7848	GRANT, J.H.	ROBERT L. CRYTSEY, JR.	1974	H	1695	H	PA /SH PA
342	4113-7847	KNIGHT, LORAIN	ROBERT L. CRYTSEY, JR.	1977	H	1690	S	PA /SH PA
343	4113-7845	HEVERLY, ORLIN	ROBERT L. CRYTSEY, JR.	1959	H	1530	S	PA /SH PA
344	4112-7846	BISH, N.R.	FORSYTH DRILLING CO.	1976	H	1540	S	PA /SS PP
345	4112-7845	NEIGER, M.E.	ROBERT L. CRYTSEY, JR.	1957	H	1710	S	PA /SH PP
346	4111-7846	VARISCETTI, FRANK	ROBERT L. CRYTSEY, JR.	1976	H	1610	T	PA /SS PP
347	4111-7848	ZATSTICK, ALEX	FORSYTH DRILLING CO.	1976	H	1760	T	PA /SS PP
348	4109-7852	PERRIN, W.N.	ROBERT L. CRYTSEY, JR.	1966	H	1780	S	PA /SH PA
349	4110-7848	DAVENPORT, R.S.	ROBERT L. CRYTSEY, JR.	1975	H	1685	T	PA /SS PP
350	4112-7851	ALLEN, W.J.	GARY A. LINDEMUTH	1969	H	1770	S	PA /SH PA
351	4114-7849	GRIM, THOMAS	FORSYTH DRILLING CO.	1976	H	1630	S	PA /SS PP
352	4114-7900	ROBERT, GERALD	DELP BROTHERS	1973	H	1435	S	PA /SS PP
353	4114-7900	HETRICK, H.B.	ROBERT L. CRYTSEY, JR.	1966	H	1480	S	PA /SS PP
354	4113-7900	HEATH, H.G.	HAROLD MILLER	1968	H	1585	T	PA /SS PP
355	4113-7901	BARBER, L.J.	GARY A. LINDEMUTH	1970	H	1580	H	PA /SS PP
356	4112-7903	WOLFE, J.R.	ROBERT L. CRYTSEY, JR.	1968	H	1650	S	PA /SLTV PP
357	4111-7902	ROYER, PAUL	ROBERT L. CRYTSEY, JR.	1959	H	1540	S	PA /SS PP
358	4111-7903	GREELY, G.R.	GARY A. LINDEMUTH	1973	H	1405	T	PA /SS PP
359	4110-7902	FIKE, B.B.	GARY A. LINDEMUTH	1972	H	1440	S	PA /SS PP
360	4110-7903	ALLGEIER, K.W.	HAROLD MILLER	1968	H	1495	S	PA /SS PP
361	4110-7902	WAGNER, F.N.	HAROLD MILLER	1967	H	1455	S	PA /SS PP
362	4108-7900	BLAIR, R.A.	HAROLD MILLER	1973	H	1570	S	PA /SLTV PP
363	4107-7902	ZIMMERMAN, R.R.	GARY A. LINDEMUTH	1976	H	1620	H	PA /SS PP

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH BELOW LAND SURFACE (FEET)	LEVFL DATE MEASURED (MO/YR)	RF- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (RPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	DN	WELL NUMBER
COUNTY											
80	26	7	70	40	12/76	4					JF- 314
120	67	6	109	25	3/70	10					315
220	20	6	183			2					316
60	46	6	50	15	5/75	12					317
95	20	6	65/ 83			10					318
105	21	6	40/ 90			7					319
53	32	6	10/ 45	20	5/61	20	1.0				320
89	20	6	82			50					321
75	55	7	30/ 65	35		34	2.3				322
66	41	6	57	48	6/72	14	2.0				323
64	32	6	40/ 55	40	4/75	32					324
92	24	6	50/ 82	60	5/75	32					325
95	46	6	90								326
90	23	6	70	70	1/75	4	.27				327
60	27	6									328
69	20	6	36/ 59								329
58	28	6		37	9/59	10					330
105	22	6	100	50	11/66	20	.80				331
80	20	6									332
98	29	6	50	50	5/61	5					333
135	26	6									334
82	21	6	28			2					335
285	22	6	235/270			5					336
300	22	6	76/144/260			1					337
148	32	6	104/122/142			30					338
180	22	6	143/174			5					339
128	19	6	120	83	10/56	15	3.0				340
187	22	6	170	130	6/74	15					341
175	22	6	163	152	4/77	15					342
75	33	6	62	37	6/59	10					343
130	26	6	56/112			7					344
95	22	6	10/ 50	28	11/57	3	.05				345
57	21	6	50	25	5/76	30					346
66	32	6	54			10					347
65	24	6	37/ 55	27	6/66	30					348
90	35	6	45/ 80	20	3/75	30					349
155	65	6	91/145			10					350
80	20	6	65			8					351
60	26										352
43	43	6	40	15	11/66	20					353
97	20	6	29/ 85	57	3/68	20	.74	4	150		354
70	29	6	33/ 62	50							355
114	22	6	90	65	7/68	6	.17				356
48	20	6	40	25	9/59	4					357
50	25	6	40	30	8/73	10					358
45	35	6	36	20	6/72	10					359
50	20	6	30	20	3/68	15	.60				360
56	43	6	21/ 38/ 53	20	11/67	60					361
161	21	6	70/117/155	80	4/73	34	.92				362
65	20	6	50			10					363

TABLE- 1.

WELL LOCATION NUMBER	LAT-LONG	OWNER	DRILLER	DATE COMPLETED	USE	ALTITUDE OF LAND SURFACE (FEET)	TOPO- GRAPHIC SETTING	ADULT- FER /LITH- OLOGY
JEFFERSON								
JE- 364	4108-7904	HAGG, R.E.	DINGER BROS. DRILLING	1969	H	1460	S	PP /SS
365	4108-7904	BREKLEY, T.L.	HAROLD MILLER	1967	H	1360	S	PP /SS
366	4107-7905	HETRICK, R.A.	DINGER BROS. DRILLING	1972	H	1505	S	PP /SS
367	4107-7906	LOCKARD, J.T.	ROBERT L. CRYTSE, JR.	1975	H	1460	S	PP /SS
368	4108-7905	MYERS, A.K.	HAROLD MILLER	1974	H	1470	S	PP /SS
369	4110-7903	KIRKMAN, L.E.	HAROLD MILLER	1973	H	1425	T	PP /SS
370	4111-7906	THRUSH, A.C.	HAROLD MILLER	1969	H	1525	T	PP /SS
371	4111-7906	OSBOPNE, WAYNE	HAROLD MILLER	1972	H	1605	T	PP /SS
372	4112-7906	MATTHEWS, B.E.	DELP BROTHERS	1976	H	1595	S	PP /SS
373	4112-7906	PARK, G.O.	DINGER BROS. DRILLING	1966	H	1650	S	PP /SS
374	4113-7906	ASTORINO, C.A.	DINGER BROS. DRILLING	1970	H	1560	S	PP /SS
375	4113-7904	BISH, H.J.	HAROLD MILLER	1968	H	1640	S	PP /SS
376	4113-7906	PARK, W.C.	DINGER BROS. DRILLING	1969	H	1565	S	PP /SS
377	4113-7905	MCKINLEY, R.H.	GARY A. LINDEMUTH	1973	H	1640	S	PP /SS
378	4113-7906	SMITH, EDWIN	DELP BROTHERS	1975	H	1610	S	PP /SS
379	4113-7904	ALLHOUSE, J.F.	DELP BROTHERS		H	1530	S	PP /SS
380	4110-7902	CO-OP CONSTRUCTION CO.	HAROLD F. NESS	1970	H	1500	S	PP /SS
381	4112-7844	SIPLE, S.T.	ROBERT L. CRYTSE, JR.	1960	H	1690	S	PP /SS
382	4114-7844	SERAFINI, R.E.	FORSYTH DRILLING CO.	1976	H	1785	H	PP /SS
MCKEAN								
MC- 77	4139-7842	OLEAN PETROLEUM CO.			V	2185	H	PP /SS
78	4139-7843	OLEAN PETROLEUM CO.			V	1900	T	ML /SS
79	4140-7842	OLEAN PETROLEUM CO.			V	1900	T	ML /SS
87	4142-7841	RIG LEVEL INN	OLSON		C	2090	H	ML /SS
88	4142-7841	KENDALL REFINING CO.	OLSON	1930	H	2085	H	ML /SS
89	4143-7841	TORY SPRINGS SCHOOL	OLSON		H	2080	H	PP /SS
110	4138-7834	U.S. GEOLOGICAL SURVEY	NEWTON W. POOTH	1973	H	2050	W	PP /SS
118	4142-7839	SCHNFIDER, HERBERT	W. K. ANSELL	1970	H	2210	S	PP /SS
119	4141-7843	SMITH, ALAN	KARLS COMP. WATER SYS. CO.	1975	H	2035	S	PP /SS
120	4139-7837	KEYSTONE GIRL SCOUTS	FREER WATER SERVICE	1977	H	2150	S	PP /SS
121	4139-7838	KEYSTONE GIRL SCOUTS	FREER WATER SERVICE	1976	H	2170	S	PP /SS
122	4143-7838	RETTGER, RICHARD	ALLEN S. RUCHER	1977	H	2240	S	ML /SS

-- RECORD OF WELLS, CONTINUED

TOTAL DEPTH BELOW LAND SURFACE (FEET)	CASING DEPTH (FEET)	CASING DIAMETER (INCHES)	DEPTH(S) TO WATER-BEAR- ING ZONE(S) (FEET)	STATIC WATER DEPTH BELOW LAND SURFACE (FEET)	LEVEL DATE MEASURED (MO/YR)	RE- PORTED YIELD (GPM)	SPECIFIC CAPACITY (GPM/FT)	HARD- NESS (RPG)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG C)	PH	WELL NUMBER
COUNTY											
62	21	6	47/ 58			8					JF- 364
47	20	6	36/ 47	8	3/67	15	.48				365
120	21	6	81/115			2					366
49	22	6	40	24	1/75	30					367
284	30	6	85/214/276	239	9/74	32					368
68	21	6	57	53	3/73	12	4.0				369
72	43	6	50/ 60	40	3/69	15	.75				370
78	40	6	25/ 68	50	6/72	34					371
150	26	6									372
182	22	6	99/158			2					373
60	22	6	38/ 48			10					374
69	22	6	55	34	3/68	3	.09				375
70	21	6	56/ 67			3					376
122	20	6	50/ 97	60	9/73	7	.16				377
115	29	6									378
50	20	6									379
72	23	6	43/ 67	40	11/70	10					380
144	25	6	83	83	11/60	2					381
130	20	6	42/110			5					382

COUNTY											
350	21	8		250		50					4C- 77
165	22	8		F		150					78
150	21	8		F							79
179	126	6									87
330	131	6		100		10					88
109	94	6		60		10					89
107	28	6	44	28	10/73	4	.83	2	115	6.9	110
113	9	6		52	11/70	1		2	75		118
110	21	6									119
186	113	6	49/ 86/110/176	84	3/77	10		2	100		120
162	40	6	44/ 84/145	101	8/76	33		2	95		121
286	90	6	85/130/252	190	2/77	15					122

Table 2.—Records of springs and mine drainages

Spring or mine-drainage number: AR, Armstrong County; CR, Clarion County; CF, Clearfield County; EK, Elk County; JE, Jefferson County; MC, McKean County; SP, spring; MD, mine drainage.
 Location: Lat-long, latitude and longitude in degrees and minutes of the southeast corner of a 1-minute quadrangle within which the spring or mine drainage is located.
 Use: H, household; P, public supply; R, recreation--swimming; S, stock; U, unused.
 Altitude of land surface: Estimated from topographic maps (NGVD).
 Aquifer: See table 1 for explanation of symbols.

Spring or mine-drainage number	Location (lat-long)	Owner or name	Use	Altitude of land surface (feet)	Aquifer	Yield		Temperature (°C)	Hardness (gr/gal)	Specific conductance (micromhos)	pH	Iron dissolved (mg/L as Fe)
						Discharge (gal/min)	Date					
AR-SP- 2	4059-7920	Seneca Trail	P	1,220	PA	6	4-14-72	8.3	17	558	5.7	0.04
CR-SP- 1	4105-7940	-----	H	950	PA	2	---	---	---	---	---	---
2	4118-7923	Huefner	P	1,300	QAL	43	4- 5-72	7.5	1	50	5.1	0
3	4119-7914	Mars Gas Co.	P	1,300	ML	53	4- 5-72	8.5	1	95	4.9	0
4	4123-7916	Leeper	H	1,630	QCL	5	4-12-72	6.8	3	265	6.4	.13
6	4113-7923	Lions Club	U	1,150	ML	8	4-25-72	9.8	21	610	4.2	.09
7	4108-7916	Marder, Matthew	H	1,520	QCL	---	---	---	1	80	---	1.0
8	4117-7930	Cope, Lawrence	H	1,425	QCL	---	---	---	1	50	---	1.5
9	4111-7914	Lemonade	U	1,565	QCL	247	1-26-72	9.8	24	1,240	3.6	.50
10	4107-7919	Miles, Clyde	-	1,430	QAL	---	---	8.3	3	110	5.6	.08
11	4121-7917	Lowell Valley	P	1,450	QAL	2	4-26-72	8.3	2	226	5.7	.06
12	4113-7924	Ebenezer	P	1,120	ML	3	4-25-72	7.6	1	44	5.6	.06
13	4116-7921	BSA	P	1,310	QAL	<11	10-14-71	8.0	<1	45	5.5	.08
14	4116-7921	--do.-----	U	1,240	PP	1,350	10-14-71	8.0	---	499	5.3	230
16	4123-7919	Halls	P	1,540	QCL	233	5-17-73	7.2	2	75	5.5	.14
18	4112-7916	Vosburg, T. L.	H	1,510	QCL	---	---	---	2	60	---	.70
19	4109-7927	Hepler, Lynn	H	1,270	PA	---	---	---	6	230	---	.55
20	4104-7929	Huey	R	1,330	QAL	20	2-21-74	8.7	4	180	6.1	.15
21	4103-7933	Oak Grove	P	1,380	QAL	10	2-21-74	8.7	4	170	---	.10
22	4103-7933	Gallegher, Jan	U	1,440	QAL	6	2-21-74	9.0	2	82	5.6	.15
23	4100-7931	Milliren, H. D.	H	1,260	PA	12	2-25-74	10.1	10	320	6.9	.11
24	4111-7921	Snyder, Larry	H	1,420	QCL	---	---	---	4	180	4.5	.76
25	4117-7919	Rex, Gary	U	1,460	QCL	---	---	---	---	1,500	4.5	.70
26	4118-7914	Gravel Lick	P	1,170	ML	10	3-29-74	10.8	1	50	5.5	.35
27	4100-7928	Wildcat	P	1,055	PP	6	1-31-73	8.7	12	615	6.7	.20
28	4106-7935	Say, Edwin	H	1,210	PA	5	7-22-74	8.7	8	347	6.1	0
29	4107-7933	Town	P	1,100	PP	2	7-25-74	8.4	2	105	5.4	.04
30	4114-7916	Stroup Run	P	1,340	PP	9	5- 9-72	6.9	---	55	5.7	---
31	4117-7918	Trainer, Jerry	H	1,320	PP	98	2-21-75	7.5	7	300	4.5	0
32	4115-7923	State Game Land	U	1,500	PA	5	7-14-73	13.9	3	222	5.4	.19
33	4115-7921	do.	U	1,360	PP	2	7- 2-73	21.0	290	7,000	3.0	141
34	4115-7922	do.	U	1,290	PP	10	7- 2-73	15.3	34	1,350	3.6	4.3
35	4116-7922	do.	U	1,370	PP	15	7-14-73	10.2	69	2,950	3.7	5.0
36	4119-7921	Lutz, Winfield	S	1,580	PA	4	3-13-75	6.7	---	135	3.9	.29
38	4113-7937	Rinker, Arlington	H	1,460	PA	3	5-15-73	---	---	110	5.7	.30
40	4058-7936	East Brady	P	990	PP	10	12-11-75	10.5	<1	85	6.8	0
41	4114-7919	Barrickman, Robert	H	1,260	PP	8	4- 7-76	7.4	2	95	6.2	.09
42	4100-7932	Mortimer, John	H	1,340	PA	5	4- 9-76	8.2	1	138	5.7	.10
MD- 1	4104-7930	-----	-	1,240	PA	<11	4-10-73	---	---	---	3.4	1.0
2	4104-7930	-----	-	1,235	PA	144	2-21-75	10.5	21	850	5.0	29
3	4104-7930	-----	-	1,245	PA	---	4-10-73	---	---	---	5.1	.30
4	4104-7930	-----	-	1,235	PA	---	---	---	---	---	3.2	28
5	4104-7930	-----	-	1,235	PA	---	---	---	---	---	2.8	69
6	4105-7930	-----	-	1,240	PA	---	---	---	---	---	3.3	4.0
7	4105-7930	-----	-	1,250	PA	800	2-21-75	11.0	31	1,000	3.3	15
8	4102-7917	-----	-	1,280	PA	14	4-27-73	---	---	2,400	5.7	52
9	4105-7916	-----	-	1,390	PA	---	---	---	---	8,000	1.8	2,100
CF-SP- 1	4111-7942	Treasure Lake	U	1,850	PP	285	5-16-73	12.8	1	50	4.5	.26
2	4111-7942	do.	U	1,865	PP	124	5-16-73	7.0	1	40	6.7	.10
3	4111-7942	do.	U	1,875	PP	36	5-16-73	7.0	1	40	7.4	.10
EK-SP- 2	4131-7837	Bendigo State Park	R	1,740	PP	27	8-30-74	10.0	1	60	6.4	.03
JE-SP- 1	4105-7852	Reynoldsville Borough	P	1,410	PA	100	10-11-29	7.2	2	---	---	.18
3	4108-7910	Carrier Homesite	U	1,430	PA	64	6- 5-73	---	---	---	---	---
4	4105-7852	Reynoldsville Borough	P	1,410	PA	6	10-11-29	---	---	---	---	---
5	4107-7910	Peoples Water Co.	P	1,300	PA	---	---	---	---	---	---	---
6	4109-7911	-----	U	1,370	PP	4	8- 3-73	11.8	2	325	5.1	.09
7	4106-7852	Reynoldsville Borough	P	1,470	PA	---	---	---	2	80	6.6	---
MD- 1	4107-7857	-----	U	1,800	PA	40	2- 6-74	---	17	620	---	4.4
MC-SP- 3	4137-7834	Rasselas	P	1,725	PP	700	4-27-72	7.6	<1	34	5.8	50
4	4140-7840	-----	P	1,880	PP	18	3-27-78	---	3	150	---	---
5	4140-7840	-----	-	2,000	PP	15	3-27-78	10.0	1	80	---	---

Table 3.--Chemical

Well, spring, or mine-drainage number: AR, Armstrong County; CR, Clarion County; CF, Clearfield County; EK, Elk County; FO, Forest County;
 JE, Jefferson County; MC, McKean County; SP, spring; MD, mine drainage.
 Aquifer: See table 1 for explanation of symbols.
 Analyst: 1, U.S. Geological Survey; 2, Pennsylvania State University; 3, private.

WELL, SPRING OR MINE- DRAINAGE NUMBER	AQUI- FER	ANA- LYST	SAMP- LING DEPTH (FT)	DATE OF SAMPLE	IRON, DIS- SOLVED (UG/L AS FE)	IRON, FERROUS DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	SILICA, DIS- SOLVED (MG/L AS SiO2)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	ALKA- LINIT (MG/L AS CACO3)
Armstrong														
AR-80	PP	1	--	76-03-04	4500	--	100	--	--	--	--	--	28	23
SP-2	PA	1	--	72-04-14	40	30	0	7.9	70	30	1.6	1.9	24	20
Clarion														
CR-23	ML	1	--	72-03-15	51500	--	2000	7.1	46	18	22	8.0	0	0
56	PA	1	--	64-10-07	220	--	0	8.8	30	8.5	263	3.5	417	342
86	ML	1	--	73-08-22	1100	--	0	--	--	--	--	--	10	8
90	ML	1	--	70-04-17	12000	--	900	7.1	7.5	4.0	14	3.0	54	44
90	ML	1	--	74-12-18	>6500	--	1000	--	--	--	--	--	--	--
90	ML	1	--	75-03-06	180	0	0	7.5	1.0	.1	83	2.0	144	118
90	ML	1	--	75-03-06	15000	13000	740	6.8	9.0	4.3	24	3.2	55	45
92	ML	1	--	70-04-17	14000	--	350	6.4	15	4.6	175	3.3	153	125
94	PP	1	--	72-03-15	5100	--	400	7.2	42	8.2	25	3.7	123	101
98	PP	1	--	72-03-15	1800	--	1500	7.0	31	4.5	57	2.7	156	128
99	PP	1	--	72-08-09	--	--	--	14	77	54	1.5	3.7	0	0
99	PP	1	--	72-08-09	280000	--	25000	15	170	120	3.1	7.0	0	0
99	PP	1	51	75-05-12	25000	--	21000	14	160	110	3.0	6.7	0	0
100	PP	1	--	72-08-09	--	--	--	6.0	5.6	1.9	1.3	.7	6	5
100	PP	1	--	72-08-09	500	--	10	6.2	3.0	1.8	1.3	1.4	6	5
102	PP	1	105	72-01-26	370	--	160	--	5.2	3.5	--	--	0	0
103	PP	1	160	72-01-26	220	--	60	--	13	1.6	--	--	0	0
104	PP	1	165	72-01-26	13000	--	420	--	3.5	2.7	--	--	4	3
105	PP	1	41	72-01-20	--	1800	--	--	1.9	2.1	--	--	34	28
105	PP	1	44	72-01-20	1300	1200	--	--	24	12	--	--	134	110
105	PP	1	58	72-01-20	25000	22000	--	--	140	77	--	--	0	0
105	ML	1	240	72-01-25	186000	100000	16000	--	162	85	9.4	6.6	0	0
105	ML	1	395	72-01-28	30	0	360	--	20	8.3	--	--	221	181
105	ML	1	185	72-02-18	500000	--	17000	11	150	82	4.2	6.3	0	0
107	PP	1	110	72-02-25	11000	--	500	7.5	24	5.5	1.3	3.5	59	48
112	PP	1	--	72-12-18	25000	--	1000	--	--	--	--	--	24	20
115	PP	1	180	73-04-05	1000	--	200	--	--	--	--	--	84	69
132	PP	1	115	73-02-27	150	--	0	--	--	--	--	--	114	94
139	PP	1	95	73-02-27	3800	--	5900	--	--	--	--	--	90	74
142	PA	1	200	73-02-26	400	--	0	--	--	--	--	--	90	74
143	PA	1	230	73-02-26	100	--	0	--	--	--	--	--	96	79
146	PA	1	28	73-02-27	350	--	500	--	--	--	--	--	92	75
168	QCL	1	--	72-12-08	1000	--	400	--	--	--	--	--	16	13
170	PP	1	102	72-12-08	62500	60000	4200	--	--	--	--	--	0	0
170	PP	1	101	74-10-29	53000	4600	4300	13	59	20	1.0	4.3	0	0
170	PP	1	101	75-05-02	63000	32000	3800	13	51	16	1.0	4.0	0	0
171	PP	1	217	73-04-04	15000	--	100	--	--	--	--	--	24	20
171	PP	1	103	74-05-10	76000	68000	4900	14	65	22	1.2	4.2	0	0
173	PP	1	45	72-10-11	22400	--	970	--	16	7.4	--	--	1	1
174	PP	1	87	72-10-11	39300	--	8100	--	107	66	--	--	0	0
181	PP	1	--	73-04-04	700	--	0	--	--	--	--	--	28	23
183	PP	1	--	73-03-23	2200	--	0	--	--	--	--	--	9	7
185	PP	1	8.8	73-03-22	1800	--	0	--	--	--	--	--	112	92
187	--	1	.0	71-10-21	212000	--	6800	--	155	52	--	--	--	--
187	--	2	--	73-07-14	201000	200000	7500	--	144	68	27	5.7	1	1
188	ML	1	305	72-01-26	4900	--	320	15	52	12	206	7.2	137	112
188	ML	1	--	72-04-06	30000	--	1700	2.8	77	25	--	--	96	79
189	ML	1	25	73-05-24	200	--	1500	--	--	--	--	--	--	--
191	PP	1	121	73-03-13	12500	--	1000	--	--	--	--	--	46	38
193	PP	1	.0	72-04-26	140	--	40	3.3	5.9	1.7	2.1	.8	2	2
193	PP	1	--	72-05-08	110	--	60	4.5	5.7	1.6	2.4	1.0	6	5
196	PP	1	55	73-04-04	280000	--	38000	--	--	--	--	--	0	0
197	PP	1	--	73-04-04	2400	--	400	--	--	--	--	--	2	2
198	PP	1	40	73-04-05	28000	--	1400	--	--	--	--	--	0	0
200	PP	1	--	73-04-05	3000	--	50	--	--	--	--	--	26	21
201	PA	1	--	73-05-24	500	--	50	--	--	--	--	--	8	7
202	PA	1	--	73-05-24	500	--	0	--	--	--	--	--	38	31
204	PP	1	65	73-05-24	2800	--	50	--	--	--	--	--	32	26
206	PP	1	200	73-05-24	2100	--	700	--	--	--	--	--	14	11
207	PA	1	--	73-05-24	600	--	0	--	--	--	--	--	10	8
208	PP	1	200	73-05-24	1200	--	500	--	--	--	--	--	142	116
209	PP	1	--	73-05-24	1600	--	200	--	--	--	--	--	32	26
210	PP	1	180	73-05-24	42000	--	2000	--	--	--	--	--	1	1
211	PA	1	--	73-05-24	42500	--	1000	--	--	--	--	--	46	38
214	PP	1	--	73-05-24	40000	--	1000	--	--	--	--	--	0	0
217	PP	1	--	73-05-25	1000	--	50	--	--	--	--	--	4	3
218	PP	1	--	73-05-25	500	--	0	--	--	--	--	--	4	3
219	PA	1	--	73-05-25	2800	--	200	--	--	--	--	--	9	7
220	PA	1	--	73-05-25	800	--	200	--	--	--	--	--	2	2
230	PA	1	--	73-05-25	1200	--	30	--	--	--	--	--	4	3
234	PP	1	92	73-08-20	450	--	500	--	--	--	--	--	7	6
235	--	1	--	71-10-10	2500	--	1800	3.1	--	--	--	--	107	88
235	--	1	--	72-05-17	3600	--	440	9.0	26	6.2	50	3.4	121	99
236	PP	1	90	73-08-20	400	--	500	--	--	--	--	--	7	6
237	PA	1	61	73-08-10	110000	--	11000	--	--	--	--	--	0	0
238	PA	1	54	74-03-13	10800	--	1400	--	--	--	--	--	3	2

analyses of ground water

CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHOS- DIS- SOLVED (MG/L AS P)	ACIDITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	HARD- NESS (MG/L AS CACO3)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	OXID- ATION RED- UCTION POTEN- TIAL (MV)
County														
18	--	--	--	--	--	--	--	--	--	71	94	195	6.4	--
77	260	2.8	.3	.29	--	.00	--	404	388	280	298	558	5.7	--
County														
.0	222	17	--	.02	--	.00	10	340	394	190	190	525	3.9	--
21	189	94	.3	.00	--	--	--	794	803	0	110	1300	7.5	--
11	.3	20	.1	.00	--	.00	.0	88	96	26	34	100	--	--
--	--	--	--	--	--	--	--	--	--	0	35	159	6.9	--
15	6.1	44	1.6	.02	.00	.34	--	232	218	0	3	320	7.2	--
56	.5	41	.2	.01	.00	.00	--	139	132	0	40	260	6.2	--
12	.2	269	.6	.00	--	.00	--	569	564	0	56	1100	7.3	--
6.2	43	37	--	.00	--	.00	--	227	232	38	140	368	7.5	--
6.3	15	60	--	.16	--	.00	--	255	258	0	96	425	7.6	--
.0	650	2.1	.1	.03	--	.00	131	812	806	420	420	1420	3.6	--
.0	1300	7.4	.5	.05	--	.00	328	1820	1940	920	920	2300	2.8	--
--	1300	4.3	.0	.00	.00	.01	646	1330	1660	850	850	2000	--	--
3.8	11	3.7	.2	.08	--	.00	--	33	34	17	22	47	6.4	--
6.1	12	5.0	.0	.07	--	.00	--	34	34	10	15	47	6.2	--
.0	34	10	--	6.3	--	.00	34	101	--	27	27	187	4.2	--
.0	37	8.4	--	9.0	--	.00	18	101	--	39	39	141	4.2	--
16	28	7.4	--	.11	--	.00	29	71	--	17	20	105	5.6	--
8.6	--	10	--	--	--	--	--	--	--	0	13	118	6.8	--
5.4	--	4.3	--	--	--	--	--	--	--	0	110	223	7.6	--
.0	--	6.2	--	--	--	--	--	--	--	670	670	1400	3.9	--
.0	950	5.8	.0	.56	--	.00	176	1220	--	760	760	1540	5.7	--
5.6	--	159	--	--	--	--	--	--	--	0	84	1230	7.8	--
.0	972	4.2	.0	.68	--	.00	237	1300	1760	710	710	1830	2.7	--
12	46	1.3	.3	.05	--	.00	--	144	131	34	83	195	6.9	--
6.1	--	--	--	--	--	--	--	--	--	120	137	290	6.8	--
11	--	--	--	--	--	--	--	--	--	51	120	400	7.1	--
2.3	31	4.6	--	--	--	--	--	--	--	6	100	260	7.9	--
11	525	29	--	--	--	--	--	--	--	560	630	1300	7.1	--
2.9	61	20	--	--	--	--	.0	--	--	46	120	335	7.7	--
4.9	22	3.8	--	--	--	--	--	--	--	86	86	225	7.5	--
2.9	7.0	40	--	--	--	--	--	--	--	7	100	280	7.7	--
8.1	--	3.8	--	--	--	--	--	--	--	25	100	775	6.5	--
.0	--	5.6	--	--	--	--	199	--	--	--	--	950	5.8	--
.0	340	2.1	.0	--	--	--	104	539	499	230	230	800	5.9	--
.0	250	3.6	.0	.00	.01	.01	104	472	408	190	190	750	5.4	--
.0	--	--	--	--	--	--	--	--	--	80	100	225	--	--
32	370	2.9	.1	--	--	--	--	500	560	250	250	530	5.4	--
.0	42	41	--	2.7	--	.22	--	--	--	70	70	248	4.7	--
.0	610	5.0	--	.11	--	.00	60	--	--	540	540	1210	3.2	--
--	--	--	--	--	--	--	--	--	--	63	86	200	--	--
--	--	--	--	--	--	--	.0	--	--	44	51	230	--	--
--	--	--	--	--	--	--	--	--	--	62	154	360	--	--
8.0	1000	30	--	--	--	--	550	--	--	--	600	1190	5.7	--
174	630	7.9	.0	.00	--	.00	--	964	1000	640	640	1580	5.3	353
19	672	6.3	.0	.56	--	.00	--	1060	--	67	180	1300	6.1	--
--	--	--	--	--	--	--	--	--	--	220	300	1470	6.9	--
--	--	--	--	--	--	--	--	--	--	13	140	300	--	--
6.4	13	5.0	.1	.50	--	.00	--	40	35	20	22	59	5.7	--
4.8	13	.7	.0	.59	--	.00	--	41	35	16	21	64	6.3	--
.0	--	--	--	--	--	--	503	--	--	400	400	2200	4.7	--
.0	--	--	--	--	--	--	20	--	--	130	136	480	--	--
--	--	--	--	--	--	--	--	--	--	240	240	590	4.3	--
--	--	--	--	--	--	--	--	--	--	30	51	120	--	--
--	--	--	--	--	--	--	--	--	--	27	34	120	--	--
--	--	--	--	--	--	--	--	--	--	69	100	230	--	--
36	--	--	--	--	--	--	--	--	--	28	54	160	--	--
5.1	--	--	--	--	--	--	--	--	--	75	86	235	5.8	--
180	--	--	--	--	--	--	--	--	--	26	34	95	6.5	--
--	--	--	--	--	--	--	--	--	--	4	120	320	6.1	--
--	--	--	--	--	--	--	--	--	--	25	51	160	--	--
25	--	--	--	--	--	--	65	--	--	550	550	1500	4.8	--
12	--	--	--	--	--	--	--	--	--	30	68	160	6.8	--
.0	--	--	--	--	--	--	19	--	--	580	580	1180	4.2	--
101	--	--	--	--	--	--	19	--	--	16	19	80	4.8	--
81	--	--	--	--	--	--	--	--	--	54	57	180	4.9	--
91	--	--	--	--	--	--	1.2	--	--	27	34	200	5.2	--
32	--	--	--	--	--	--	2.4	--	--	98	100	180	5.0	--
51	--	7.8	--	--	--	--	5.0	--	--	54	57	160	5.1	--
178	--	.5	--	--	--	--	4.0	--	--	62	68	230	4.8	--
108	54	25	--	--	--	--	29	--	--	12	100	350	6.2	--
386	56	39	1.0	.09	--	--	--	241	255	0	90	315	5.7	--
141	--	--	--	--	--	--	4.0	--	--	62	68	230	4.9	--
.0	--	--	--	--	--	--	129	--	--	390	390	1200	4.4	--
6.0	--	--	--	--	--	--	--	--	--	32	34	95	5.9	--

Table 3.--Chemical

WELL, SPRING OR MINE- DRAINAGE NUMBER	AQUI- FER	ANA- LYST	SAMP- LING DEPTH (FT)	DATE OF SAMPLE	IRON, DIS- SOLVED (UG/L AS FE)	IRON, FERROUS DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	SILICA, DIS- SOLVED (MG/L AS SiO2)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	ALKA- LINITY (MG/L AS CaCO3)
239	ML	1	102	73-08-14	45500	--	2600	--	--	--	--	--	146	120
240	PP	1	--	73-08-15	800	--	50	--	--	--	--	--	30	25
241	PP	1	--	73-02-06	2500	--	200	--	--	--	--	--	32	26
242	PP	1	--	73-02-07	3000	--	0	--	--	--	--	--	30	25
243	PP	1	--	73-02-07	30000	--	300	--	--	--	--	--	26	21
244	PA	1	132	73-08-20	22500	--	300	--	--	--	--	--	26	21
245	PA	1	60	73-08-20	3000	--	1500	--	--	--	--	--	16	13
246	PA	1	--	73-08-20	400	--	50	--	--	--	--	--	46	38
247	PP	1	--	73-08-20	28800	--	1200	--	--	--	--	--	5	4
248	--	2	--	73-08-23	472000	470000	198000	--	485	536	12	8.3	27	22
248	--	1	0	73-10-21	480000	440000	175000	--	--	--	--	--	0	0
248	--	1	--	74-03-13	560000	340000	--	--	--	--	--	--	0	0
249	PP	1	--	73-08-22	1500	--	300	--	--	--	--	--	10	8
250	PP	1	95	73-08-22	3000	--	700	--	--	--	--	--	41	34
251	PP	1	145	73-08-22	200000	--	600	--	--	--	--	--	0	0
252	PP	1	119	73-08-22	1300	--	100	--	--	--	--	--	196	161
253	PP	1	94	73-08-22	650	--	1000	--	--	--	--	--	110	90
254	PP	1	--	73-08-23	4800	--	100	--	--	--	--	--	48	39
256	PA	1	83	74-03-13	4000	1400	1200	--	--	--	--	--	4	3
257	PA	1	84	73-09-13	8700	4700	0	--	--	--	--	--	78	64
258	PP	1	--	73-09-10	1100	--	500	--	--	--	--	--	14	11
259	ML	1	210	73-09-06	250000	--	40000	--	--	--	--	--	0	0
261	PP	1	208	73-09-10	1200	--	1000	--	--	--	--	--	2	2
263	PA	1	83	73-10-11	650	--	1500	--	--	--	--	--	68	56
272	PP	1	57	74-03-13	9000	--	1400	--	--	--	--	--	22	18
277	PP	1	97	74-03-13	43000	--	1800	--	--	--	--	--	0	0
278	PA	1	97	74-03-13	2200	--	0	--	--	--	--	--	0	0
282	PP	1	--	74-03-13	24000	17000	2000	--	--	--	--	--	32	26
284	PP	1	--	73-12-14	140000	75000	3200	--	--	--	--	--	2	2
284	PP	1	200	74-01-13	145000	--	40000	--	--	--	--	--	0	0
285	PP	1	99	74-01-13	800	--	0	--	--	--	--	--	6	5
285	ML	1	226	74-01-15	600	--	0	--	--	--	--	--	4	3
285	ML	1	237	74-01-16	40000	--	50	--	--	--	--	--	0	0
286	PA	1	67	74-03-13	1000	--	50	--	--	--	--	--	10	8
289	PP	1	170	74-03-13	3300	900	1000	--	--	--	--	--	144	118
290	ML	1	330	74-07-23	1400	--	400	5.7	11	3.5	6.6	2.6	40	33
291	PA	1	--	74-07-25	110000	425000	40000	13	250	300	6.0	3.4	0	0
292	ML	1	--	74-07-22	20000	--	1900	6.6	27	12	12	2.6	24	20
295	ML	1	--	74-08-05	17400	--	800	--	--	--	--	--	--	--
297	PP	1	330	74-09-11	--	10000	--	97	280	550	8.0	3.1	0	0
299	PP	1	540	74-10-18	--	--	170	2.6	8.0	2.7	340	2.6	55	45
299	PP	1	104	74-11-15	25000	25000	2400	8.0	28	13	2.0	3.5	0	0
300	PP	1	--	74-12-20	18000	14000	1900	--	--	--	--	--	40	33
301	PP	1	--	75-01-10	70000	35000	5500	--	--	--	--	--	--	--
303	--	1	--	72-05-17	3500	--	1400	--	--	--	--	--	123	101
315	--	2	--	73-07-15	380000	375000	21900	--	260	134	22	10	10	8
317	PP	1	--	75-05-14	170000	91000	19000	8.8	78	61	6.9	5.0	0	0
327	--	2	--	73-07-02	514000	505000	71900	--	336	286	70	11	5	4
328	--	2	--	73-07-03	39000	38800	10100	--	48	121	7.0	10	10	8
335	PP	1	250	74-02-19	1500	--	8500	--	--	--	--	--	194	159
336	PA	2	30	73-07-14	100	100	50	--	10	5.8	2.0	2.7	4	3
337	QAL	2	20	73-07-14	50	30	0	--	4.5	3.8	4.1	3.0	6	5
338	--	2	--	73-07-27	152000	150000	40500	--	73	123	35	5.1	0	0
339	--	2	--	73-07-27	239000	235000	48500	--	72	129	44	9.0	0	0
340	--	2	--	73-07-27	39400	39000	37600	--	53	125	40	8.0	0	0
361	PP	1	55	73-01-11	1600	--	100	--	--	--	--	--	32	26
401	PP	1	76	75-09-04	130	0	300	--	--	--	--	--	126	103
402	PP	1	83	75-09-08	--	36000	3500	--	--	--	--	--	0	0
446	ML	1	110	76-03-31	11000	7500	1000	--	--	--	--	--	--	--
450	PP	1	--	76-03-15	4200	--	1100	--	--	--	--	--	138	113
450	PP	1	174	76-03-19	3400	2400	400	--	--	--	--	--	--	--
451	PP	1	--	76-03-19	100	--	100	--	--	--	--	--	--	--
452	ML	3	--	69-05-16	140	--	80	7.0	2.6	4	200	--	259	212
452	ML	1	--	76-03-18	900	830	200	--	--	--	--	--	231	189
453	PA	1	--	74-03-24	300	--	0	--	--	--	--	--	16	13
456	PA	1	--	76-03-25	1700	--	500	--	--	--	--	--	--	--
457	PP	1	--	76-04-07	50	--	800	--	--	--	--	--	6	5
458	PA	3	150	77-02-07	580	520	70	--	33	16	--	--	12	10
SP- 2	QAL	1	--	72-04-05	0	--	10	6.5	4.3	2.5	--	--	3	2
3	ML	1	--	72-04-05	0	--	10	21	3.9	2.0	--	--	4	3
4	QCL	1	--	72-04-12	130	--	50	1.1	16	1.3	--	--	6	5
6	ML	1	--	72-04-25	90	--	20000	14	50	56	6.4	3.7	0	0
7	QCL	1	--	73-03-22	1000	--	0	--	--	--	--	--	4	3
8	QCL	1	--	73-01-08	1500	--	0	--	--	--	--	--	4	3
9	QCL	1	--	72-01-26	500	--	19000	--	46	72	--	--	--	--
10	QAL	1	--	72-04-14	80	--	0	3.9	14	2.7	.8	1.1	12	10
11	QAL	1	--	72-04-26	60	--	0	4.5	10	3.3	25	1.3	7	6
12	ML	1	--	72-04-25	60	--	10	4.9	2.3	2.6	.7	1.1	2	2
13	QAL	1	--	71-10-14	800	--	75	--	2.1	1.3	--	--	1	1
14	PP	1	--	71-10-14	230000	--	25000	--	--	--	--	--	0	0

analyses of ground water--Continued.

CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ACIDITY (MG/L AS CAC03)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	HARD- NESS (MG/L AS CAC03)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	OXID- ATION RED- UCTION POTEN- TIAL (MV)
1470	--	10	--	--	--	--	--	--	--	350	468	1080	5.2	--
7.6	--	6.2	--	--	--	--	--	--	--	25	50	100	6.8	--
10	--	--	--	--	--	--	--	--	--	33	59	175	6.7	--
15	--	--	--	--	--	--	--	--	--	31	56	140	6.5	--
26	--	--	--	--	--	--	--	--	--	13	34	100	6.2	--
42	--	--	--	--	--	--	--	--	--	30	51	110	6.0	--
5.1	--	--	--	--	--	--	--	--	--	21	34	120	6.7	--
--	--	--	--	--	--	--	--	--	--	0	19	150	--	--
--	--	--	--	--	--	--	--	--	--	64	68	190	--	--
685	2840	5.0	--	--	--	--	810	4600	--	3400	3410	4750	4.8	365
.0	--	--	--	--	--	--	840	--	--	--	--	4500	5.7	--
.0	2340	4.5	--	--	--	--	840	--	--	2900	2900	4000	4.0	--
--	--	--	--	--	--	--	--	--	--	26	34	70	--	--
41	--	--	--	--	--	--	--	--	--	13	47	110	6.2	--
.0	--	26	--	--	--	--	69	--	--	200	200	875	4.7	--
50	--	--	--	--	--	--	--	--	--	0	120	340	6.8	--
35	--	--	--	--	--	--	--	--	--	30	120	280	6.7	--
19	--	6.7	--	--	--	--	--	--	--	19	58	120	6.6	--
255	--	--	--	--	--	--	5.0	--	--	54	57	140	4.4	--
16	--	--	--	--	--	--	--	--	--	36	100	260	6.9	--
28	--	--	--	--	--	--	--	--	--	190	200	475	5.9	--
.0	--	35	--	--	--	--	241	--	--	500	500	2050	4.8	--
40	--	--	--	--	--	--	5.0	--	--	32	34	100	4.9	--
55	24	7.7	--	--	--	--	--	--	--	30	86	185	6.3	--
.9	11	.8	--	--	--	--	--	--	--	10	28	60	7.6	--
.0	130	71	--	--	--	--	124	--	--	170	170	750	5.6	--
.0	750	--	--	--	--	--	320	--	--	--	--	1900	4.4	--
51	--	--	--	--	--	--	--	--	--	--	--	420	6.0	--
2.0	--	--	--	--	--	--	280	--	--	600	600	1400	6.2	--
.0	--	--	--	--	--	--	360	--	--	990	990	2600	6.2	--
6.1	--	12	--	--	--	--	--	--	--	12	17	120	6.2	--
2.0	--	.6	--	--	--	--	--	--	--	31	34	85	6.5	--
.0	110	35	--	--	--	--	18	--	--	85	85	350	4.5	--
25	--	--	--	--	--	--	--	--	--	9	17	44	5.8	--
58	33	3.8	--	--	--	--	--	--	--	0	68	320	6.6	--
51	18	2.5	.2	--	--	--	--	73	72	9	42	143	6.1	--
.0	2500	4.6	.4	--	--	--	--	3680	3230	1900	1900	2550	6.4	--
305	120	7.0	.1	--	--	--	--	259	221	97	120	412	5.1	--
--	--	--	--	--	--	--	--	--	--	--	68	210	--	--
.0	3400	5.2	7.4	--	--	--	2230	7400	4400	3000	3000	5800	3.1	--
3500	3.8	580	.2	--	--	--	.0	978	967	0	31	1990	4.4	--
.0	120	2.5	.0	--	--	--	20	203	205	120	120	380	3.9	--
64	--	--	--	--	--	--	--	--	--	120	150	450	6.0	--
156	95	90	--	.45	--	--	25	--	--	--	150	700	6.0	--
--	--	--	--	--	--	--	--	--	--	0	100	620	6.1	--
80	1710	25	--	--	--	--	750	--	--	1200	1200	2750	5.3	352
--	600	5.3	.0	.00	.00	.01	--	864	954	450	450	1300	--	--
20	3200	20	--	--	--	--	900	--	--	2000	2020	4850	5.6	94.0
16	1250	55	--	--	--	--	135	--	--	610	620	2300	6.0	94.0
12	1270	77	--	--	--	--	--	--	--	370	530	3000	7.4	--
64	40	13	--	--	--	--	.0	--	--	46	49	260	5.0	471
96	28	8.4	--	--	--	--	.0	--	--	21	26	220	5.0	504
.0	1400	10	--	--	--	--	--	--	--	690	690	2900	4.6	391
.0	1240	12	--	--	--	--	--	--	--	710	710	2200	4.3	445
.0	890	19	--	--	--	--	600	--	--	650	650	1350	4.2	441
32	--	28	--	--	--	--	.0	--	--	94	120	400	6.2	--
16	25	--	--	--	--	--	--	--	--	0	100	267	7.1	--
.0	--	--	--	--	--	--	--	--	--	140	140	590	4.2	--
--	.5	395	--	--	--	--	--	--	--	--	140	1400	6.1	--
70	21	10	--	--	--	--	--	--	--	27	140	295	6.5	--
--	18	10	--	--	--	--	--	--	--	--	120	295	6.6	--
--	33	38	--	--	--	--	--	--	--	--	95	360	6.8	--
21	4.4	170	--	--	--	--	--	--	512	0	8	700	7.3	--
59	.5	857	--	--	--	--	--	--	--	0	100	3300	6.8	--
10	--	--	--	--	--	--	.0	--	--	21	34	115	6.4	--
--	350	2.0	--	--	--	--	--	--	--	--	310	875	6.3	--
61	--	--	--	--	--	--	--	--	--	21	26	68	5.2	--
3.0	120	6.8	.2	--	--	--	--	--	--	140	150	340	6.8	--
7.6	24	3.5	--	.36	--	--	--	50	--	19	21	68	5.8	--
10	15	.8	.20	--	--	--	--	69	--	15	18	90	5.8	--
19	25	55	--	.68	--	--	--	134	--	40	45	265	5.7	--
.0	500	12	1.2	.20	--	--	184	783	668	360	360	610	4.2	--
--	--	--	--	--	--	--	.0	--	--	12	15	80	--	--
--	--	--	--	--	--	--	.0	--	--	14	17	50	--	--
--	786	3.4	--	.59	--	--	422	1100	--	--	410	1240	3.6	--
48	29	3.0	--	.59	--	.00	--	61	63	36	46	110	5.6	--
22	15	52	.1	.09	--	--	--	123	115	33	39	226	5.7	--
8.0	12	2.2	.1	.07	--	.00	--	31	27	15	16	44	5.6	--
5.1	11	.3	--	.07	--	.00	--	--	--	10	11	45	5.5	--
.0	--	11	--	1.3	--	.00	--	--	--	--	--	499	5.3	--

Table 3.—Chemical

WELL, SPRING OR MINE- DRAINAGE NUMBER	AQUI- FER	ANA- LYST	SAMP- LING DEPTH (FT)	DATE OF SAMPLE	IRON, DIS- SOLVED (UG/L AS FE)	IRON, FERROUS DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	SILICA, DIS- SOLVED (MG/L AS SiO2)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	ALKA- LINITY (MG/L AS CACO3)
16	QCL	1	--	73-05-11	140	--	0	--	--	--	--	--	4	3
18	QCL	1	--	73-08-20	700	--	0	--	--	--	--	--	4	3
19	PA	1	--	73-09-06	550	--	500	--	--	--	--	--	8	7
20	QAL	1	--	72-12-17	150	--	0	--	--	--	--	--	32	26
21	QAL	1	--	74-02-21	100	--	0	--	--	--	--	--	30	25
22	QAL	1	--	74-02-21	150	--	0	--	--	--	--	--	10	8
23	PA	1	--	73-08-28	110	--	0	--	--	--	--	--	110	90
24	QCL	1	--	74-03-26	760	--	2100	--	--	--	--	--	0	0
25	QCL	1	--	74-03-24	700	--	12000	--	--	--	--	--	0	0
26	ML	1	--	73-05-11	350	--	0	--	--	--	--	--	4	3
27	PP	1	--	73-01-31	200	--	0	--	--	--	--	--	36	30
31	PP	1	--	75-02-21	0	0	2900	7.0	22	16	.8	1.3	0	0
32	PA	2	--	73-07-14	190	0	0	--	5.0	10	2.0	2.1	4	3
33	PP	2	--	73-07-02	141000	135000	280000	--	357	985	6.8	1.1	0	0
34	PP	2	--	73-07-02	4280	280	28300	--	67	102	1.4	2.7	0	0
35	PP	2	--	73-07-14	5000	0	66300	--	150	196	3.2	5.0	0	0
36	PA	1	--	75-03-13	290	--	440	6.0	6.0	1.6	1.0	.8	0	0
38	PA	3	--	73-05-15	300	--	0	--	--	--	--	--	6	5
41	PP	2	--	74-08-05	300	25	--	--	10	--	--	--	14	11
41	PP	1	--	75-10-10	90	0	100	--	--	--	--	--	8	7
MD- 2	PA	1	--	75-02-21	29000	28000	2300	14	80	40	26	3.2	0	0
7	PA	1	--	75-02-21	15000	10000	6400	15	100	68	8.3	1.8	0	0
8	PA	1	--	73-04-27	52000	--	20000	--	--	--	--	--	52	43
9	PA	1	--	73-04-27	2100000	--	38000	--	--	--	--	--	0	0
Clearfield														
CF- 105	PA	1	--	66-09-07	4600	--	--	--	--	--	--	--	65	53
117	PA	1	250	75-01-28	34000	3000	1100	5.5	22	7.2	30	2.3	84	69
126	ML	3	150	73-04-09	0	--	40	--	--	--	--	--	156	128
127	ML	3	128	73-04-09	10	--	10	--	2.0	1.7	--	--	32	26
128	ML	3	150	73-04-03	100	--	80	--	--	--	--	--	116	95
129	ML	3	202	73-04-04	1200	--	250	--	--	--	--	--	192	157
131	PA	3	50	73-04-11	16000	--	1100	--	--	--	--	--	8	7
149	PA	1	--	76-03-08	1600	--	100	--	--	--	--	--	199	163
150	PP	1	--	76-03-08	1500	--	1100	--	--	--	--	--	67	55
SP- 1	PP	1	--	73-05-16	260	--	0	--	--	--	--	--	0	0
2	PP	1	--	73-05-16	100	--	0	--	--	--	--	--	4	3
3	PP	1	--	73-05-16	100	--	0	--	--	--	--	--	4	3
Elk														
EK- 4	ML	1	--	64-10-06	7100	--	1800	7.3	10	5.1	.1	2.2	57	47
4	ML	1	--	64-10-06	>2400	--	560	--	--	--	--	--	--	--
6	PP	1	--	64-10-06	20	--	--	--	--	--	--	--	16	13
8	PP	1	--	35-09-13	2200	--	--	--	111	27	--	--	67	55
14	ML	1	--	35-09-16	2800	--	--	--	54	9.3	--	--	193	158
17	ML	1	--	74-08-30	190	1200	150	7.7	42	8.0	35	1.6	175	144
37	ML	1	--	35-09-14	540	--	--	--	24	4.1	--	--	74	61
37	ML	1	--	66-05-04	400	--	--	--	--	--	--	--	--	--
38	ML	1	--	74-08-30	2400	1120	270	6.3	12	3.4	4.5	1.4	58	48
43	ML	1	--	35-09-12	630	--	--	16	43	8.6	62	1.9	202	166
76	ML	1	44	74-11-18	2400	2400	280	8.0	24	3.2	4.0	2.0	48	39
80	ML	1	--	74-08-21	4000	3200	230	6.0	13	2.4	5.7	1.4	28	23
107	PP	1	225	73-06-28	--	--	--	--	--	--	--	--	138	113
107	PP	1	301	73-06-29	--	--	--	--	--	--	--	--	116	95
107	PP	1	152	73-10-25	16000	14000	1300	--	--	--	--	--	20	16
107	PP	1	--	73-10-25	>13000	--	1300	--	--	--	--	--	--	--
107	PP	1	152	73-10-25	22000	--	110	4.9	3.0	3.0	.4	1.3	19	16
107	PP	1	151	74-05-15	12000	7000	300	6.1	2.0	1.7	.4	1.0	0	0
107	PP	1	151	74-11-05	12000	8000	570	5.9	3.0	2.2	.5	.8	5	4
107	PP	1	141	75-05-19	13000	6000	460	6.8	2.3	1.6	.5	1.0	3	2
108	ML	1	52	74-11-18	11000	8600	950	5.7	12	5.8	2.2	1.6	34	28
108	ML	1	--	74-11-18	>4300	8600	1300	--	--	--	--	--	--	--
108	ML	1	33	75-05-21	14000	8000	880	6.2	13	5.2	2.7	2.1	43	35
112	ML	1	292	75-01-31	2500	--	180	6.0	44	6.6	980	4.0	254	208
114	ML	1	33	74-11-19	3700	3000	300	6.0	14	2.5	4.7	1.4	34	28
115	ML	1	--	74-08-27	1700	1500	70	5.5	44	12	59	1.9	30	25
116	PP	3	111	74-09-12	1200	--	560	--	15	3.6	--	--	68	56
116	PP	1	--	75-03-11	32000	--	580	8.7	8.0	3.2	1.0	1.5	24	20
117	PA	1	85	75-08-21	--	--	1300	--	--	--	--	--	--	--
157	PP	1	--	76-04-14	200	--	100	--	--	--	--	--	6	5
168	ML	1	--	76-04-15	1000	--	700	--	--	--	--	--	170	139
188	ML	1	33	76-05-27	11500	9000	1900	--	--	--	--	--	200	164
192	PP	1	--	76-05-17	600	--	100	--	--	--	--	--	52	43
193	PP	1	--	76-05-14	450	--	500	--	--	--	--	--	30	25
194	PA	1	--	76-05-14	4080	--	200	--	--	--	--	--	140	115
204	PP	1	--	76-05-21	10000	--	800	--	--	--	--	--	22	18
207	PP	1	83	76-05-28	5000	3700	400	--	--	--	--	--	18	15
208	PP	1	40	76-05-27	50000	10000	900	--	--	--	--	--	34	28
SP- 2	PP	1	--	74-08-30	30	30	0	5.5	4.5	1.7	.7	1.4	10	8
Forest														
FO- 10	--	1	--	72-05-17	1200	--	50	7.4	30	4.2	40	2.2	181	148
10	--	1	--	73-01-31	400	--	0	--	--	--	--	--	154	126
11	PA	1	62	73-10-23	6000	--	1100	6.1	10	7.4	.5	1.5	58	48
11	PA	1	--	73-10-23	8700	--	1000	--	--	--	--	--	--	--
11	PA	1	62	74-05-14	6600	4200	1100	6.8	11	7.4	.5	1.5	58	48

analyses of ground water--Continued.

CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ACIDITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	HARD- NESS (MG/L AS CACO3)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	OXID- ATION RED- UCTION POTEN- TIAL (MV)
20	--	8.5	--	--	--	--	.0	--	--	31	34	75	5.5	--
--	--	--	--	--	--	--	.0	--	--	31	34	60	--	--
--	--	--	--	--	--	--	3.0	--	--	95	102	230	--	--
41	44	18	--	--	--	--	.0	--	--	37	63	180	6.1	--
76	45	10	--	--	--	--	.0	--	--	43	68	170	5.8	--
40	22	6.8	--	--	--	--	.0	--	--	26	34	82	5.6	--
22	68	10	--	--	--	--	.0	--	--	80	170	320	6.9	--
.0	88	8.2	--	--	--	--	15	--	--	68	68	180	4.5	--
.0	--	6.1	--	--	--	--	25	--	--	--	--	1500	4.5	--
20	11	4.5	--	--	--	--	.0	--	--	14	17	50	5.5	--
11	214	7.8	--	--	--	--	.0	--	--	170	200	615	6.7	--
.0	140	1.5	.6	.00	.23	.00	30	231	194	120	120	300	4.5	--
25	42	16	--	--	--	--	.0	--	--	51	54	222	5.4	398
.0	6220	17	--	--	--	--	--	--	--	4900	4940	7000	3.0	428
.0	753	4.9	--	--	--	--	375	--	--	590	590	1350	3.6	511
.0	1690	25	--	--	--	--	--	--	--	1200	1180	2950	3.7	494
.0	31	1.8	.2	.83	.00	.00	15	63	53	22	22	135	3.9	--
19	--	--	--	--	--	--	.0	--	--	45	50	110	5.7	--
--	7.2	3.3	--	--	--	--	--	--	--	27	38	--	--	--
4.0	--	--	--	--	--	--	--	--	--	27	34	110	6.5	--
.0	480	3.2	.2	.04	.00	.00	94	700	681	360	360	850	5.0	--
.0	610	11	.6	.27	.00	.00	124	451	847	530	530	1000	3.9	--
166	--	--	--	--	--	--	2.2	--	--	--	--	2400	5.7	--
.0	--	--	--	--	--	--	5860	--	--	--	--	8000	1.8	--
County														
131	125	3.0	.0	.47	--	--	--	--	--	140	190	400	5.9	--
1.7	31	19	.9	.40	.02	.00	--	168	196	16	85	289	7.9	--
6.3	2.2	1.6	--	--	--	--	--	128	--	0	82	185	7.6	--
32	1.4	6.0	.1	.05	--	--	--	--	--	0	12	52	6.2	--
15	2.0	2.4	--	--	--	--	--	99	--	0	65	135	7.1	--
4.9	18	1.8	--	--	--	--	--	198	--	0	110	310	7.8	--
10	220	2.2	--	--	--	--	60	311	--	190	200	425	6.1	--
160	--	--	--	--	--	--	--	--	--	59	222	600	6.3	--
85	--	--	--	--	--	--	--	--	--	48	103	315	6.1	--
.0	--	--	--	--	--	--	.0	--	--	17	17	50	4.5	--
1.3	--	--	--	--	--	--	.0	--	--	14	17	40	6.7	--
.3	--	--	--	--	--	--	.0	--	--	14	17	40	7.4	--
County														
23	3.4	9.0	.2	.00	--	--	--	60	74	0	46	99	6.6	--
--	--	--	--	--	--	--	--	120	--	--	--	--	--	--
20	.8	1.0	--	--	--	--	--	22	--	2	15	33	6.1	--
--	345	33	--	.32	--	--	--	584	--	330	390	--	--	--
--	67	142	--	.38	--	--	--	487	--	15	170	--	--	--
35	39	15	.2	--	--	--	--	219	235	0	140	420	6.9	--
--	21	4.0	--	.77	--	--	--	100	--	16	77	--	--	--
--	--	7.0	--	.50	--	--	--	--	--	--	76	--	7.0	--
37	5.7	.6	.2	--	--	--	--	46	65	0	44	118	6.4	--
--	36	37	.1	.04	--	--	--	322	305	0	140	--	--	--
24	40	.8	.2	--	--	--	--	101	109	34	73	200	6.5	--
100	15	7.5	.2	--	--	--	--	55	69	19	42	120	5.6	--
88	--	--	--	--	--	--	--	--	--	0	100	170	6.4	--
117	--	--	--	--	--	--	--	--	--	7	102	250	6.2	--
3.2	--	--	--	--	--	--	--	--	--	18	34	115	7.0	--
--	--	--	--	--	--	--	--	127	--	--	--	--	--	--
12	2.9	1.1	.2	.00	.00	.00	--	38	48	4	20	47	6.4	--
.0	16	1.1	.1	--	--	--	20	36	43	12	12	65	3.9	--
2.5	12	1.1	.1	--	--	--	--	21	41	12	17	90	6.5	--
12	15	1.0	.0	.00	.00	.01	--	53	43	10	12	80	5.6	--
8.6	20	5.9	.2	--	--	--	--	66	82	26	54	180	6.8	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
55	20	8.7	.0	.00	.00	.01	--	96	94	19	54	180	6.1	--
64	3.8	1600	.6	.01	.00	.00	--	2710	2770	0	140	4230	6.8	--
86	14	6.4	.1	--	--	--	--	52	70	17	45	140	5.8	--
60	50	150	.0	--	--	--	--	435	339	130	160	850	5.9	--
11	3.6	6.4	.0	.01	.00	--	--	83	--	0	52	128	7.0	--
31	8.2	3.5	.2	.00	.01	.01	--	118	79	13	33	125	6.1	--
--	--	--	--	--	--	--	--	--	--	--	26	51	5.9	--
30	--	--	--	--	--	--	5.0	--	--	12	17	48	5.5	--
22	--	--	--	--	--	--	.0	--	--	0	120	515	7.1	--
160	--	--	--	--	--	--	.0	--	--	--	--	1300	6.3	--
66	--	--	--	--	--	--	.0	--	--	0	34	108	6.1	--
60	--	--	--	--	--	--	2.5	--	--	1	26	81	5.9	--
89	--	--	--	--	--	--	.0	--	--	0	100	240	6.4	--
56	--	--	--	--	--	--	.0	--	--	0	17	68	5.8	--
115	--	--	--	--	--	--	5.0	--	--	0	15	50	5.4	--
34	--	--	--	--	--	--	2.5	--	--	6	34	120	6.2	--
6.4	11	.5	.0	--	--	--	--	20	30	10	18	60	6.4	--
County														
183	.0	18	.2	.00	--	.03	--	185	193	0	92	255	6.2	--
155	--	--	--	--	--	--	--	--	--	0	68	360	6.2	--
12	6.7	1.4	.7	.00	--	.01	--	85	70	8	55	115	6.9	--
--	--	--	--	--	--	--	--	177	--	--	--	--	--	--
5.9	7.7	.3	.6	--	--	--	--	62	72	10	58	140	7.2	--

Table 3.--Chemical

WELL, SPRING OR MINE- DRAINAGE NUMBER	AQUI- FER	ANA- LYST	SAMP- LING DEPTH (FT)	DATE OF SAMPLE	IRON, DIS- SOLVED (UG/L AS FE)	IRON, FERROUS DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	SILICA, DIS- SOLVED (MG/L AS SiO2)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	ALKA- LINITY (MG/L AS CaCO3)
11	PA	1	--	74-05-14	9000	--	1500	--	--	--	--	--	--	--
11	PA	1	--	74-10-23	11000	--	1600	--	--	--	--	--	--	--
11	PA	1	62	74-10-23	5600	3000	1000	7.0	10	7.6	.5	1.0	61	50
11	PA	1	83	75-05-06	5700	5000	1100	7.1	10	7.1	.4	1.3	64	53
11	PA	1	63	75-11-05	4800	3100	870	6.4	11	8.0	.4	1.0	55	45
13	PP	1	--	72-05-17	710	--	20	4.3	1.3	.5	1.7	.3	9	7
17	PP	1	54	75-07-22	--	--	800	--	--	--	--	--	--	--
Jefferson														
JE- 23	PA	1	70	68-05-22	--	--	--	6.2	92	13	2.0	.6	104	85
23	PA	1	70	73-11-07	9000	--	1100	5.9	75	12	1.7	1.7	158	130
23	PA	1	--	73-11-07	1200	2800	900	--	--	--	--	--	12	10
23	PA	1	--	73-11-07	8300	--	1500	--	--	--	--	--	--	--
23	PA	1	83	74-05-07	4700	1900	1100	6.7	98	12	1.5	1.4	113	93
23	PA	1	83	74-11-01	5100	1300	1100	6.7	84	12	1.5	1.1	145	119
23	PA	1	81	75-05-05	6200	2100	1300	6.9	91	11	1.5	1.3	147	121
27	PP	1	--	75-03-17	860	100	140	6.9	28	5.6	63	1.8	239	196
29	PP	1	--	29-10-10	1690	--	--	8.5	49	12	368	12	197	162
30	PP	1	--	29-10-10	2710	--	--	--	72	--	--	--	167	137
36	PA	1	--	64-10-06	4200	--	1000	7.9	12	4.6	.8	1.2	60	49
36	PA	1	--	64-10-06	>2000	--	580	--	--	--	--	--	--	--
38	PA	3	252	70-04-17	7000	--	400	7.3	7.2	3.0	1.4	1.0	33	27
39	PA	3	--	70-05-01	3200	--	50	6.7	28	4.8	36	2.9	159	130
42	--	1	--	72-05-24	100000	--	32000	16	180	100	3.6	5.0	--	--
43	--	1	--	72-05-24	80000	--	14000	9.2	235	74	8.9	5.4	--	--
44	--	1	--	72-05-24	3200	--	500	7.7	30	74	78	3.7	141	116
46	PP	1	--	73-05-22	350	--	0	--	--	--	--	--	8	7
47	PP	1	--	73-05-17	8400	--	0	--	--	--	--	--	22	18
50	PA	1	--	73-05-21	23000	--	1000	--	--	--	--	--	18	15
52	PP	1	--	73-05-21	28000	--	1500	--	--	--	--	--	24	20
53	ML	1	--	73-05-18	500	--	0	--	--	--	--	--	84	69
60	PA	1	--	73-08-15	2500	1100	2300	--	--	--	--	--	42	34
61	PP	1	--	73-05-21	--	--	600	--	--	--	--	--	10	8
63	--	1	--	72-05-11	98000	--	32000	19	240	92	--	6.3	--	--
63	--	2	--	73-08-01	80200	78000	21700	--	169	102	13	5.7	40	33
64	--	1	--	72-05-11	65000	--	12000	--	210	60	36	5.9	--	--
64	--	2	--	73-08-01	122000	121000	21000	--	191	100	50	7.7	123	101
65	PA	1	--	73-09-07	750	--	1400	--	--	--	--	--	78	64
67	PA	1	200	73-10-05	4800	--	1600	--	--	--	--	--	36	30
67	ML	1	640	73-10-05	2800	--	400	--	--	--	--	--	124	102
68	PA	1	600	73-10-04	16000	--	1200	--	--	--	--	--	110	90
68	ML	1	800	73-10-04	5400	--	1000	--	--	--	--	--	68	56
69	PA	1	--	73-11-07	7000	--	--	--	--	--	--	--	--	--
70	PA	1	--	73-11-07	700	--	--	--	--	--	--	--	--	--
73	PA	1	--	73-05-22	200	--	0	--	--	--	--	--	134	110
74	PA	1	--	73-05-22	100	--	0	--	--	--	--	--	60	49
75	PA	1	--	73-05-21	100	--	0	--	--	--	--	--	166	136
76	PA	1	--	74-03-19	400	--	0	--	--	--	--	--	90	74
77	PA	1	--	74-03-19	100	--	0	--	--	--	--	--	12	10
78	PA	1	--	73-05-22	700	--	500	--	--	--	--	--	168	138
84	PA	1	155	74-05-06	840	150	380	7.1	17	4.4	.5	1.2	61	50
87	--	2	--	73-08-01	73400	73200	17500	--	160	90	16	5.7	58	48
87	--	1	--	74-06-27	68000	59000	18000	13	180	78	15	3.8	25	21
93	--	2	--	73-08-01	84000	83500	19800	--	312	143	15	5.8	77	63
94	--	2	--	73-08-01	64000	63500	10600	--	91	48	3.5	3.3	38	31
104	PA	1	--	75-03-17	260	100	250	6.9	26	5.7	150	1.7	216	177
SP- 1	PA	1	--	29-10-11	180	--	--	6.1	8.0	3.4	2.0	1.8	17	14
4	PA	1	--	29-10-11	--	--	--	--	9.0	--	--	--	23	19
5	PA	1	--	29-10-11	--	--	--	--	74	--	--	--	147	121
6	PP	2	--	73-08-03	90	50	20	--	3.0	6.2	.8	1.7	3	2
7	PA	1	--	75-03-17	110	0	10	5.8	9.7	2.0	1.2	1.0	11	9
McKean														
MC- 88	ML	1	--	35-09-09	1300	--	--	--	45	8.2	--	--	197	162
110	PP	1	--	73-10-24	12000	--	940	--	--	--	--	--	--	--
110	PP	1	82	73-10-24	7700	--	110	6.3	8.9	2.2	.3	1.5	29	24
110	PP	1	83	74-05-15	10000	5800	550	7.0	9.1	2.2	.4	1.4	33	27
110	PP	1	83	74-11-04	6900	6000	570	6.9	12	2.3	.5	1.1	35	29
110	PP	1	83	75-05-20	760	2700	580	7.3	9.2	2.0	.2	1.3	40	33
SP- 3	PP	1	--	72-04-27	50	--	0	3.9	3.8	1.1	.7	.6	8	7
3	PP	1	--	74-08-29	30	500	20	4.8	6.3	1.8	1.0	.8	15	12

analyses of ground water--Continued.

CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ACIDITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS (MG/L AS CACO3)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	OXID- ATION RED- UCTI- ON POTEN- TIAL (MV)
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
309	9.9	1.4	.5	--	--	--	--	70	74	6	56	160	5.5	--
26	4.4	1.0	.4	.00	.00	.01	--	80	70	2	54	140	6.6	--
70	6.2	.9	.6	.00	.01	.01	--	69	68	15	60	160	6.1	--
7.2	.2	4.2	.1	.05	--	--	--	--	18	0	5	34	6.3	--
--	--	--	--	--	--	--	--	--	--	--	60	118	6.3	--
County														
2.6	201	2.5	.2	.05	--	--	--	361	369	200	280	575	7.8	--
13	130	2.8	.3	.04	.00	.00	--	358	318	110	240	512	7.3	--
2.4	--	--	--	--	--	--	.0	--	--	240	248	500	6.9	--
--	--	--	--	--	--	--	--	504	--	--	--	--	--	--
91	160	3.2	.2	--	--	--	--	374	344	200	290	530	6.3	--
73	140	2.5	.2	--	--	--	--	328	326	140	260	516	6.5	--
47	160	4.5	.0	.00	.00	.01	--	379	356	150	270	420	6.7	--
12	.4	28	.3	.00	.01	.10	--	260	253	0	93	380	7.5	--
--	8.1	593	--	.43	--	--	--	1150	1150	10	170	--	--	--
--	1.5	900	--	.05	--	--	--	--	--	80	217	--	--	--
24	4.2	.8	.2	.00	--	--	--	59	66	0	49	104	6.6	--
--	--	--	--	--	--	--	--	106	--	--	--	--	--	--
1.7	7.5	1.1	.1	.00	--	.00	--	57	52	3	30	76	7.5	--
--	.4	24	.3	.56	--	.03	--	188	187	90	334	--	--	--
--	1000	2.0	.6	.02	--	.03	--	1410	--	--	860	1930	3.0	--
--	930	4.4	.5	.05	--	.03	45	1372	--	--	890	1870	3.1	--
226	130	24	.2	.20	--	.01	--	331	355	0	100	558	6.0	--
.3	--	--	--	--	--	--	.0	--	--	10	17	50	7.7	--
4.4	--	--	--	--	--	--	.0	--	--	16	34	70	6.9	--
7.2	--	--	--	--	--	--	.0	--	--	19	34	120	6.6	--
15	--	--	--	--	--	--	.0	--	--	14	34	150	6.4	--
4.3	--	--	--	--	--	--	.0	--	--	0	51	520	7.5	--
42	--	--	--	--	--	--	.0	--	--	52	86	185	6.2	--
13	--	--	--	--	--	--	2.4	--	--	26	34	55	6.1	--
--	1100	6.0	.2	--	--	.00	154	1686	--	--	978	2360	2.7	--
128	1060	11	--	--	--	--	205	--	--	810	840	1720	5.7	319
--	840	18	.0	.00	--	.00	15	1689	--	--	770	1450	5.8	--
62	1130	23	--	--	--	--	230	--	--	790	890	1850	6.5	172
6.3	--	--	--	--	--	--	.0	--	--	22	86	185	7.3	--
23	32	2.5	--	--	--	--	.0	--	--	24	54	125	6.4	--
9.9	42	144	--	--	--	--	--	--	--	0	15	700	7.3	--
28	--	--	--	--	--	--	--	--	--	0	86	265	6.8	--
6.9	28	1670	--	--	--	--	--	--	--	300	360	5500	7.2	--
--	--	--	--	--	--	--	--	--	--	--	43	325	--	--
--	--	--	--	--	--	--	--	--	--	--	17	200	--	--
5.4	--	--	--	--	--	--	.0	--	--	10	120	280	7.6	--
6.1	--	--	--	--	--	--	.0	--	--	--	--	360	7.2	--
2.7	--	--	--	--	--	--	.0	--	--	120	256	480	8.0	--
5.7	--	--	--	--	--	--	.0	--	--	66	140	300	7.4	--
7.6	--	--	--	--	--	--	.0	--	--	41	51	160	6.4	--
3.4	--	--	--	--	--	--	.0	--	--	150	290	600	7.9	--
39	8.2	1.3	.2	--	--	--	--	71	71	11	61	130	6.4	--
147	956	14	--	--	--	--	218	1250	--	720	770	1700	5.8	265
20	800	5.4	.0	--	--	--	--	1190	1190	750	770	1400	6.3	--
78	1550	8.4	--	--	--	--	195	--	--	1300	1370	--	6.2	179
153	550	20	--	--	--	--	305	--	--	390	420	950	5.6	265
6.9	14	160	.4	.00	.01	.01	--	390	472	0	88	840	7.7	--
--	15	2.5	--	.23	--	--	--	59	48	20	34	--	--	--
--	10	2.0	--	.29	--	--	--	--	--	13	32	--	--	--
--	208	1.5	--	1.2	--	--	--	--	--	110	230	--	--	--
38	30	4.1	--	--	--	--	.0	--	--	31	33	325	5.1	555
4.4	19	1.6	.0	.33	.01	.02	--	59	47	23	32	80	6.6	--
County														
--	4.0	100	--	.06	--	--	--	329	--	0	150	--	--	--
--	--	--	--	--	--	--	--	119	--	--	--	--	--	--
7.4	3.6	.7	.2	.00	.00	.00	--	49	46	7	31	69	6.8	--
1.7	4.4	.6	.2	--	--	--	--	43	52	5	32	100	7.5	--
22	4.4	1.1	.1	--	--	--	--	38	53	11	39	83	6.4	--
20	3.8	1.1	.0	.00	.01	.01	--	61	46	0	31	120	6.5	--
20	5.8	.7	.1	--	--	.00	--	20	21	7	14	34	5.8	--
9.6	10	1.1	.0	--	--	--	--	6	33	11	23	60	6.4	--

Table 4.--Trace-element

Well, spring, or mine-drainage number: CR, Clarion County; EK, Elk County, FO, Forest County; JE, Jefferson County, MC, McKean County;
 SP, Spring; MD, mine drainage.
 Aquifer: See table 1 for explanation of symbols.
 Analyst: 1, U.S. Geological Survey; 2, Pennsylvania State University; 3, private.

WELL, SPRING OR MINE- DRAINAGE	AQUI- FER	ANA- LYST	SAMP- LING DEPTH (FT)	DATE OF SAMPLE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BISMUTH DIS- SOLVED (UG/L AS BI)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	
CLARION															
CR-	23	ML	1	--	72-03-15	--	--	--	--	--	--	--	--	--	
	90	ML	1	--	74-12-18	10	650	<1	<3	41	1	<4	<3	0	
	90	ML	1	--	75-03-06	--	--	--	--	--	--	--	--	110	
	90	ML	1	--	75-03-06	--	--	--	--	--	--	--	--	0	
	92	ML	1	--	70-04-17	0	--	--	--	--	--	--	--	--	
	94	PP	1	--	72-03-15	0	--	--	--	--	--	--	--	--	
	98	PP	1	--	72-03-15	0	--	--	--	--	--	--	--	--	
	99	PP	1	--	72-08-09	300	--	--	--	--	--	--	--	--	
	104	PP	1	165	72-01-26	--	--	--	--	--	--	--	--	0	
	105	ML	1	240	72-01-25	0	--	--	--	--	--	--	--	10	
	105	PP	1	185	72-02-18	6400	--	--	--	--	--	--	--	--	
	107	PP	1	110	72-02-25	400	--	--	--	--	--	--	--	--	
	170	PP	1	101	74-10-29	--	--	--	--	--	--	--	70	0	
	187	--	1	--	71-10-21	--	--	--	--	--	--	--	--	20	
	187	--	2	--	73-07-14	160	--	--	--	--	1	4	200	14	
	235	--	1	--	71-10-10	--	--	--	--	--	--	--	--	0	
	248	--	2	--	73-08-23	13000	--	--	--	--	10	20	1300	18	
	290	ML	1	330	74-07-23	140	--	--	--	--	--	--	7	10	
	291	PA	1	--	74-07-25	30	--	--	--	--	--	--	200	40	
	297	PP	1	330	74-09-11	20	--	--	--	--	--	--	--	--	
	299	PP	1	540	74-10-18	0	--	--	--	--	--	--	10	--	
	303	--	3	--	72-05-17	--	--	--	--	--	--	--	--	0	
	315	--	2	--	73-07-15	500	--	--	--	--	0	8	350	17	
	317	PP	1	--	75-05-14	--	--	--	--	--	--	--	55	--	
	327	--	2	--	73-07-02	9000	--	--	--	--	2	11	870	21	
	328	--	2	--	73-07-03	0	--	--	--	--	0	5	160	6	
	336	PA	2	30	73-07-14	320	--	--	--	--	2	1	50	46	
	337	QAL	2	20	73-07-14	450	--	--	--	--	2	1	100	4	
	338	--	2	--	73-07-27	5100	--	--	--	--	3	5	450	14	
	339	--	2	--	73-07-27	400	--	--	--	--	2	8	570	10	
	340	--	2	--	73-07-27	300	--	--	--	--	2	7	270	11	
SP-	9	QCL	1	--	72-01-26	300	--	--	--	--	--	--	--	--	
	14	PP	1	--	71-10-14	--	--	--	--	--	10	--	180	0	
	32	PA	2	--	73-07-14	200	--	--	--	--	2	1	50	4	
	33	PP	2	--	73-07-02	201000	--	--	--	--	13	120	4800	270	
	34	PP	2	--	73-07-02	38000	--	--	--	--	6	14	470	53	
	35	PP	2	--	73-07-14	80100	--	--	--	--	12	9	1400	43	
	41	PP	3	--	74-08-05	100	--	--	--	--	--	--	--	--	
MD-	2	PA	1	--	75-02-21	480	--	--	--	--	--	--	30	--	
	7	PA	1	--	75-02-21	6400	--	--	--	--	--	--	70	--	
ELK															
EK-	4	ML	1	--	64-10-06	250	--	470	<1	--	95	--	3	<1	7
	76	ML	1	44	74-11-18	--	--	--	--	--	--	--	--	0	
	107	PP	1	--	73-10-25	150	--	110	<1	<2	9	3	<1	5	
	107	PP	1	151	74-11-05	--	--	--	--	--	--	--	--	0	
	108	ML	1	52	74-11-18	--	--	--	--	--	--	--	--	0	
	108	ML	1	--	74-11-18	10	--	100	0	<2	33	1	<3	2	
	112	ML	1	292	75-01-31	--	--	--	--	--	150	--	--	--	
	114	ML	1	33	74-11-19	--	--	--	--	--	--	--	--	0	
FOREST															
FO-	11	PA	1	--	73-10-23	1200	--	210	<1	<3	25	2	1	<3	5
	11	PA	1	--	74-05-14	540	--	160	0	<2	41	1	<3	<2	2
	11	PA	1	--	74-10-23	1200	--	180	0	<2	41	1	<3	<3	4
	11	PA	1	62	74-10-23	--	2	--	--	--	--	--	--	--	--
	11	PA	1	83	75-05-06	--	1	--	--	--	--	--	--	--	--
	11	PA	1	63	75-11-05	40	0	0	--	--	30	0	0	1	0

analyses of ground water

GALLIUM DIS- SOLVED (UG/L AS GA)	GER- MANIUM, DIS- SOLVED (UG/L AS GE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	TIN, DIS- SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI- TANIUM, DIS- SOLVED (UG/L AS TI)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZIR- CONIUM, DIS- SOLVED (UG/L AS ZR)
--	--	--	--	--	---	--	---	--	--	---	---	--	--	--

COUNTY

--	--	--	--	--	--	--	--	--	--	--	--	--	100	--
<2	<3	<3	40	--	<2	<3	--	0	110	<3	<3	<3.0	<10	<6
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--	--	--	--	--	--	--	--	--	--	--	--	--	40	--
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--	--	--	--	--	--	150	--	--	--	--	--	--	50	--
--	--	--	--	--	--	--	--	--	--	--	--	--	40	--
--	--	1	--	--	--	270	--	--	--	--	--	--	40	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	6	--	--	--	1600	--	1	--	--	--	--	1750	--
--	--	--	--	--	--	22	--	--	240	--	--	--	220	--
--	--	--	--	--	--	320	--	--	1400	--	--	--	170	--
--	--	--	--	--	--	--	--	--	--	--	--	--	8700	--
--	--	--	--	--	--	90	--	--	--	--	--	--	200	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	1	--	--	--	290	--	1	--	--	--	--	40	--
--	--	--	--	--	--	44	--	--	--	--	--	--	140	--
--	--	1	--	--	--	1100	--	0	--	--	--	--	620	--
--	--	1	--	--	--	110	--	0	--	--	--	--	30	--
--	--	1	--	--	--	150	--	0	--	--	--	--	320	--
--	--	1	--	--	--	110	--	0	--	--	--	--	520	--
--	--	1	--	--	--	400	--	0	--	--	--	--	370	--
--	--	1	--	--	--	620	--	0	--	--	--	--	400	--
--	--	4	--	--	--	250	--	0	--	--	--	--	310	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	510	--	--	--	--	--	--	80	--
--	--	1	--	--	--	110	--	0	--	--	--	--	940	--
--	--	4	--	--	--	7500	--	2	--	--	--	--	10600	--
--	--	5	--	--	--	840	--	0	--	--	--	--	1300	--
--	--	1	--	--	--	1800	--	1	--	--	--	--	2900	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	110	--	--	--	--	--	--	80	--
--	--	--	--	--	--	160	--	--	--	--	--	--	270	--

COUNTY

--	--	4	21	--	<1	3	--	0	43	<1	9	<.6	1120	<1
--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
<1	<2	5	13	--	<1	6	--	<1	20	<2	7	<1.0	50	3
--	--	--	--	--	--	--	--	--	--	--	--	--	30	--
--	--	--	--	--	--	--	--	--	--	--	--	--	50	--
<1	<2	4	30	--	<1	20	--	0	110	<2	<2	<2.0	<10	<4
--	--	--	200	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	10	--

COUNTY

<1	<3	<3	11	--	<1	3	--	<1	57	<3	70	1.0	20	4
0	<2	<2	10	--	0	<2	--	0	70	<2	32	<2.0	<10	<4
<1	<3	2	20	--	<1	2	--	0	71	<2	63	<2.0	<10	5
--	--	--	--	11	--	--	0	--	--	--	--	--	--	--
--	--	--	--	4.0	--	--	0	--	--	--	--	--	--	--
--	--	2	10	<.5	--	2	0	2	60	--	--	--	10	--

WELL, SPRING OR MINE- DRAINAGE	AQUI- FER	ANA- LYST	SAMP- LING DEPTH (FT)	DATE OF SAMPLE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BISMUTH DIS- SOLVED (UG/L AS BI)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	
JEFFERSON															
JE-	23	PA	1	--	73-11-07	1500	--	58	<2	<7	11	<4	<4	<7	4
	23	PA	1	83	74-11-01	--	--	--	--	--	--	--	--	--	10
	36	PA	1	--	64-10-06	300	--	160	0	--	83	--	2	1	9
	63	--	2	--	73-08-01	0	--	--	--	--	1	3	280	5	
	64	--	2	--	73-08-01	0	--	--	--	--	1	4	330	7	
	87	--	2	--	73-08-01	3000	--	--	--	--	4	3	230	4	
	93	--	2	--	73-08-01	0	--	--	--	--	4	3	320	6	
	94	--	2	--	73-08-01	0	--	--	--	--	1	2	200	3	
SP-	6	PP	2	--	73-08-03	100	--	--	--	--	5	1	70	22	
McKEAN															
MC-	110	PP	1	--	73-10-24	150	--	210	<1	<2	10	2	<1	6	10
	110	PP	1	83	74-11-04	--	--	--	--	--	--	--	--	--	0
SP-	3	PP	1	--	74-08-29	--	--	--	--	--	10	--	--	--	--

analyses of ground water--Continued

GALLIUM DIS- SOLVED (UG/L AS GA)	GER- MANIUM, DIS- SOLVED (UG/L AS CE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	TIN, DIS- SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI- TANIUM, DIS- SOLVED (UG/L AS TI)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZIR- CONIUM, DIS- SOLVED (UG/L AS ZR)
--	--	--	--	--	---	--	---	--	--	---	---	--	--	--

COUNTY

<4	<7	<6	8	--	<4	<7	--	<1	320	<7	58	<4.0	14	<7
--	--	--	--	--	--	--	--	--	--	--	--	--	20	--
--	--	3	14	--	0	2	--	0	31	<1	11	<1.0	290	<1
--	--	1	--	--	--	370	--	0	--	--	--	--	160	--
--	--	1	--	--	--	150	--	0	--	--	--	--	3	--
--	--	1	--	--	--	300	--	0	--	--	--	--	100	--
--	--	1	--	--	--	180	--	0	--	--	--	--	1	--
--	--	1	--	--	--	140	--	0	--	--	--	--	8	--
--	--	1	--	--	--	90	--	0	--	--	--	--	80	--

COUNTY

<1	<2	3	15	--	<1	8	--	<1	30	<2	10	<1.0	65	<2
--	--	--	--	--	--	--	--	--	--	--	--	--	20	--
--	--	--	0	--	--	--	--	--	--	--	--	--	10	--

Table 5.--Ground-water levels of selected observation wells

CLARION COUNTY

Local number: Cr-99 Location: See figure 26

Monthly means

Water level, in feet below land-surface datum

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1974	-	-	21.54	21.46	21.79	20.80	20.80	21.24	22.28	21.95	22.63	22.00
1975	22.45	21.88	21.37	21.23	21.01	20.39	20.96	20.78	20.39	21.38	21.80	20.94
1976	20.99	21.41	20.71	20.47	20.16	20.56	20.88	21.53	21.62	22.28	22.83	23.23
1977	22.69	22.57	22.36	23.05	22.53	20.71	20.80	21.61	22.10	21.29	21.10	21.30

Annual means

Water level, in feet below land-surface datum

Year	Water level
1974	(1)
1975	21.21
1976	21.39
1977	21.84

ELK COUNTY

Local number: EK-107 Location: See figure 21

Monthly means

Water level, in feet below land-surface datum

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1973	-	-	-	-	-	-	-	-	-	-	92.95	93.24
1974	93.68	(1)	94.25	93.80	92.95	90.72	89.43	89.09	89.50	88.82	88.64	88.37
1975	88.28	89.57	88.69	87.73	86.52	85.24	84.35	81.92	-	-	-	86.83
1976	86.83	86.27	85.32	83.80	82.19	81.23	80.48	82.90	84.46	84.46	87.86	89.43
1977	89.63	88.87	89.31	(1)	-	-	-	-	-	-	-	-

Annual means

Water level, in feet below land-surface datum

Year	Water level
1973	(1)
1974	291.10
1975	(1)
1976	84.63
1977	(1)

Table 5.--Ground-water levels of selected observation wells--Continued

FOREST COUNTY												
Local number: Fo-11				Location: See figure 29								
Monthly means												
Water level, in feet below land-surface datum												
Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1973	-	-	-	-	-	-	-	-	-	-	9.68	10.49
1974	10.49	9.17	8.43	8.14	8.43	8.05	8.14	8.26	8.69	-	10.03	(1)
1975	9.77	8.75	(1)	(1)	9.03	8.75	8.87	8.66	8.73	9.90	11.08	10.14
1976	9.13	9.26	9.19	9.34	9.28	9.12	9.20	9.39	9.82	10.11	10.66	11.22
1977	10.10	9.49	9.37	9.85	9.70	8.68	8.61	9.27	10.39	(1)	9.51	9.25
Annual means												
Water level, in feet below land-surface datum												
Year				Water level								
1973				(1)								
1974				(1)								
1975				(1)								
1976				9.64								
1977				29.51								

JEFFERSON COUNTY												
Local number: Je-23				Location: See figure 36								
Monthly means												
Water level, in feet below land-surface datum												
Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1968	-	-	-	-	21.74	21.18	19.55	18.67	18.16	20.30	20.43	20.45
1969	20.60	19.77	17.55	17.31	16.79	17.29	16.13	17.27	17.64	18.29	18.13	18.81
1970	19.43	17.69	16.21	16.11	(1)	15.26	15.16	15.76	16.81	17.94	18.02	17.64
1971	17.28	16.08	16.17	16.84	(1)	(1)	(1)	17.37	17.88	(1)	19.72	19.67
1972	19.10	(1)	17.67	17.14	18.17	17.60	17.25	17.82	18.49	18.12	19.79	20.80
1973	20.59	20.51	20.61	21.58	22.32	22.35	22.37	22.72	23.05	23.87	24.83	25.38
1974	25.12	27.89	28.07	29.51	29.77	(1)	(1)	29.61	30.72	31.15	31.89	30.78
1975	30.85	30.74	30.35	30.26	30.27	28.86	27.35	28.03	28.10	29.28	30.54	29.72
1976	28.98	29.11	28.88	28.69	28.43	28.13	27.91	28.42	28.93	28.94	28.98	29.18
1977	28.56	28.19	28.29	28.49	28.70	27.59	27.26	28.11	28.95	29.39	29.18	29.39
Annual means												
Water level, in feet below land-surface datum												
Year				Water level								
1968				(1)								
1969				17.97								
1970				216.81								
1971				(1)								
1972				218.36								
1973				22.51								
1974				(1)								
1975				29.53								
1976				28.72								
1977				28.51								

Table 5.--Ground-water levels of selected observation wells --Continued

MCKEAN COUNTY												
Local number: Mc-110 Location: See figure 19												
Monthly means												
Water level, in feet below land-surface datum												
Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1973	-	-	-	-	-	-	-	-	-	-	29.63	28.70
1974	28.48	28.65	28.30	28.38	28.44	28.30	28.26	27.87	28.31	28.29	28.27	28.18
1975	28.28	28.05	28.18	28.24	28.22	28.20	28.22	27.98	28.11	28.37	28.62	28.54
1976	28.21	28.20	28.12	28.20	28.17	-	28.23	28.25	28.31	28.20	28.24	28.36
1977	28.30	28.23	28.18	28.27	28.36	27.95	27.99	28.16	28.31	28.35	28.18	28.12
Annual means												
Water level, in feet below land-surface datum												
Year	Water level											
1973	(1)											
1974	28.30											
1975	28.25											
1976	² 28.22											
1977	28.20											

¹ Partial record available.² Estimated.

Table 6.--Chemical analyses of surface water¹

Date	Time	Discharge (ft ³ /s)	Temperature (°C)	pH	Specific conductance (micromhos)	Iron, dissolved (ug/L as Fe)	Iron, ferrous dissolved (ug/L as Fe)	Manganese, dissolved (ug/L as Mn)	Sulfate, dissolved (mg/L as SO ₄)	Chloride, dissolved (mg/L as Cl)	Alkalinity (mg/L as CaCO ₃)	Acidity (mg/L as H ⁺)	Acidity (mg/L as CaCO ₃)	Hardness (mg/L as CaCO ₃)
Station number and name					7½-minute quadrangle									
03026500 Sevenmile Run near Russelas					Hazel Hurst									
9-30-75	1200	16	12.1	6.1	40	100	0	0	4.0	1.5	6	0.1	2.5	17
8-26-76	1030	2.7	15.1	6.7	40	500	0	0	14	1.0	--	.1	4.8	20
03027500 East Branch Clarion River at East Branch Clarion River Dam					Glen Hazel									
9-30-75	1300	248	13.2	6.2	50	200	0	0	7.0	2.0	12	.1	2.5	26
8-26-76	1145	84	16.2	6.5	48	660	0	0	21	3.1	--	0	0	40
03028000 West Branch Clarion River at Wilcox					Wilcox									
9-30-75	1000	141	11.1	6.4	90	250	0	100	8.0	6.0	18	.1	2.5	34
8-26-76	0955	33	16.8	6.6	90	580	0	50	12	8.2	--	0	0	60
03028500 Clarion River at Johnsonburg					Ridgway									
9-30-75	1410	490	14.5	6.6	85	100	0	400	9.0	3.5	15	0	1.2	17
8-26-76	1230	159	20.1	5.9	95	1,300	0	20	18	3.7	--	0	0	55
03028900 Elk Creek at Ridgway					Ridgway									
9-30-75	1435	170	15.6	6.4	160	300	250	100	26	12	8	.1	2.5	34
8-26-76	1330	27	22.7	5.5	310	1,000	0	10	60	41	--	.1	4.9	80
03029000 Clarion River at Ridgway					Ridgway									
9-30-75	1445	--	14.5	6.7	100	100	0	100	15	7.0	11	.1	2.5	17
8-26-76	1300	315	22.4	6.3	220	810	0	50	32	24	--	.1	4.9	40
03029170 Little Toby Creek at Portland Mills					Carman									
9-30-75	1525	--	15.9	6.0	300	150	100	1,700	150	3.8	6	.1	2.5	77
8-26-76	1400	--	23.7	5.7	460	960	0	280	200	7.1	--	.1	7.3	170
03039185 Spring Creek near Hallton					Hallton									
9-30-75	1300	88	14.7	6.5	60	100	0	100	3.0	.2	14	.1	2.5	17
8-24-76	1115	--	20.5	6.5	85	1,000	0	20	7.0	3.1	--	.2	8.5	35
03029400 Toms Run at Cooksburg					Cooksburg									
10- 3-75	1415	26	11.1	7.0	90	100	0	100	19	5.5	8	.1	2.5	34
8-24-76	0945	2.4	16.6	6.7	190	1,700	0	10	48	8.2	--	.1	6.1	80
03029500 Clarion River at Cooksburg					Cooksburg									
10- 3-75	1400	1,180	12.5	7.0	118	200	0	600	28	5.5	10	0	0	34
8-24-76	0910	375	22.0	6.5	220	1,300	0	0	40	12	--	0	0	90
03029700 Mill Creek near Strattanville					Strattanville									
9-29-75	1100	45	11.5	4.1	340	3,300	3,000	4,000	190	7.5	0	.5	25	100
8-24-76	0830	15	17.5	3.5	620	9,000	400	6,100	225	7.1	0	.9	44	220
03030073 Toby Creek above Step Creek near Miola					Lucinda									
1- 2-75	1000	--	1.2	4.1	400	6,000	3,500	2,500	--	--	0	.7	34	--
4-15-75	1200	--	4.9	3.7	500	8,000	7,000	5,000	--	--	0	--	--	--
9-16-75	1030	--	12.2	3.5	560	--	8,000	--	--	--	0	--	--	--
10- 6-75	1330	--	13.1	3.3	700	--	9,000	--	--	--	0	--	--	--
4- 8-76	1030	--	5.5	3.4	400	--	4,000	--	--	--	0	--	--	--
03030089 Step Creek at Mouth					Lucinda									
1- 2-75	0945	--	.7	3.5	700	14,000	4,000	5,500	--	--	0	1.9	93	--
4-15-75	1200	--	5.0	3.1	950	21,000	7,000	6,500	--	--	0	--	--	--
9-16-75	1000	--	12.4	3.1	1,000	--	2,000	--	--	--	0	--	--	--
10- 6-75	1300	2.6	13.2	2.9	1,100	--	1,500	--	--	--	0	--	--	--
4- 8-76	1000	5.8	4.6	3.0	800	--	4,800	--	--	--	0	--	--	--
03030100 Toby Creek near Miola					Lucinda									
10- 6-75	1400	16	13.1	3.2	800	--	10,000	--	--	--	0	--	--	--
4- 8-76	1100	35	5.2	3.4	460	--	4,200	--	--	--	0	--	--	--
03030106 Toby Creek near Clarion					Clarion									
9-25-74	0830	--	7.5	3.3	1,050	32,000	18,000	12,000	--	--	0	3.3	160	--
1- 2-75	0900	--	1.6	4.1	675	14,000	10,100	5,500	--	--	0	1.8	88	--
4-15-75	1200	--	4.7	3.4	850	22,000	16,000	16,000	--	--	0	--	--	--
9-16-75	0900	--	12.1	3.3	800	--	25,000	--	--	--	0	--	--	--
10- 6-75	1100	22	14.6	3.1	1,300	--	27,000	--	--	--	0	--	--	--
4- 8-76	0900	48	5.4	3.5	675	--	13,000	--	--	--	0	--	--	--

Table 6.--Chemical analyses of surface water--Continued

Date	Time	Discharge (ft ³ /s)	Temperature (°C)	pH	Specific conductance (microhms)	Iron, dissolved (ug/L as Fe)	Iron, ferrous dissolved (ug/L as Fe)	Manganese, dissolved (ug/L as Mn)	Sulfate, dissolved (mg/L as SO ₄)	Chloride, dissolved (mg/L as Cl)	Alkalinity (mg/L as CaCO ₃)	Acidity (mg/L as H ⁺)	Acidity (mg/L as CaCO ₃)	Hardness (mg/L as CaCO ₃)
Station number and name						7½-minute quadrangle								
<u>03030500 Clarion River near Piney</u>						Clarion								
9-29-75	1245	3,450	16.1	5.5	200	100	0	1,500	51	5.5	4	0	0	50
8-25-76	1415	3,820	21.8	5.2	240	1,700	0	1,100	50	7.5	—	.1	7.3	110
<u>03030600 Piney Creek at Piney</u>						Clarion								
9-29-75	1330	56	14.1	4.4	520	6,000	3,500	5,200	180	10	0	0.5	23	154
8-25-76	1315	67	21.9	4.1	700	8,200	6,000	4,800	280	11	0	.6	30	240
<u>03030700 Deer Creek at Piney</u>						Clarion								
9-29-75	1355	56	14.8	3.6	380	2,300	2,000	2,500	130	10	0	.6	30	77
8-25-76	1300	82	23.4	3.2	770	7,200	300	3,500	210	15	0	.9	44	240
<u>03030858 Licking Creek at Sligo</u>						Sligo								
9-25-74	1130	--	11.1	5.6	800	14,000	10,000	6,500	--	--	8	.7	34	--
1- 2-75	1100	--	2.9	6.1	360	5,000	3,000	2,100	--	--	--	--	--	--
4-18-75	1200	--	12.9	6.1	800	9,000	5,000	4,300	--	--	20	--	--	--
10- 7-75	1100	6.2	10.2	6.2	775	--	9,000	--	--	--	--	--	--	--
4-14-76	1400	10	11.7	6.0	625	--	7,000	--	--	--	--	--	--	--
<u>03030860 Little Licking Creek at Sligo</u>						Sligo								
1- 2-75	0930	--	5.0	5.7	1,700	30,000	26,000	28,000	--	--	--	1.3	64	--
4-18-75	1200	--	13.4	5.0	3,000	40,000	--	42,000	--	--	4	--	--	--
10- 7-75	1200	2.7	11.7	5.8	3,000	--	48,000	--	--	--	--	--	--	--
4-14-76	1500	4.4	9.5	5.5	2,300	--	37,000	--	--	--	--	--	--	--
<u>03030900 Licking Creek at Callensburg</u>						Rimersburg								
9- 5-74	1030	80	12.9	5.2	800	--	6,000	--	--	--	.5	24	--	--
1- 2-75	1100	80	3.3	6.2	900	12,000	7,000	4,500	--	--	--	.4	20	--
4-18-75	1200	68	13.9	4.9	1,700	15,000	9,000	20,000	--	--	2	--	--	--
10- 7-75	1000	35	9.1	4.5	1,600	--	10,000	--	--	--	0	--	--	--
4-14-76	1300	45	7.0	5.5	1,300	--	14,000	--	--	--	.9	43	--	--
8-25-76	1145	25	20.1	4.1	1,600	7,700	550	13,000	--	17	0	--	--	660
<u>03031000 Clarion River at St. Petersburg</u>						Emlenton								
9-29-75	1530	443	17.8	6.2	240	400	0	1,400	85	9.0	4	--	2.5	51
8-25-76	1100	283	23.5	6.2	300	580	0	580	60	10	--	.1	3.6	150
<u>03031770 Sandy Lick Creek near Brookville</u>						Brookville								
9-22-75	1300	84	14.4	6.7	240	1,500	100	500	60	.18	40	0	2.5	68
8-23-76	1045	45	19.5	7.0	250	720	0	50	30	17	--	0	1.2	130
<u>03031870 Mill Creek at Brookville</u>						Brookville								
9-22-75	1130	--	12.8	7.3	170	100	0	0	24	13	34	0	0	34
8-23-76	1100	--	19.0	7.3	120	500	0	0	21	10	--	0	0	60
<u>03031882 Redbank Creek at Brookville</u>						Brookville								
9-22-75	1000	179	14.9	6.9	110	700	50	200	9.0	9.0	19	0	0	26
8-23-76	1020	120	18.0	6.9	110	720	0	50	14	7.1	--	0	0	60
<u>03031894 Welch Run near Summerville</u>						Corsica								
12-24-74	1300	--	5.1	4.5	700	11,000	2,800	7,700	--	--	0	.7	34	--
4-21-75	1200	--	2.2	3.8	850	13,000	10,000	20,000	--	--	0	--	--	--
10- 7-75	1330	2.5	13.4	3.1	1,600	--	5,000	--	--	--	0	--	--	--
<u>03031895 Welch Run at Summerville</u>						Corsica								
9-25-75	1600	--	11.1	4.2	1,500	14,000	7,000	16,000	--	--	0	1.3	64	--
12-24-74	1400	--	4.8	4.7	625	8,000	2,000	7,500	--	--	0	.5	24	--
4-21-75	1200	--	3.1	4.5	540	18,000	12,000	20,000	--	--	0	--	--	--
10- 7-75	1430	--	13.8	3.5	1,800	--	13,000	--	--	--	0	--	--	--
4-14-76	1400	3.9	13.9	3.9	1,300	--	9,000	--	--	--	0	--	--	--
<u>03031950 Big Run near Sprinkle Mills</u>						Valier								
9-22-75	1500	5.3	13.4	6.7	270	200	100	100	65	6.5	46	0	2.5	77
8-23-76	1320	2.8	17.5	7.3	340	620	0	50	68	5.1	--	.1	4.9	180
<u>03031980 Little Sandy Creek near North Freedom</u>						Summerville								
9-22-75	1100	--	14.4	6.9	280	100	0	100	70	9.0	26	0	0	77
8-23-76	1400	84	21.0	7.4	320	1,400	0	50	90	11	--	0	0	150
<u>03032500 Redbank Creek at St. Charles</u>						Templeton								
9-22-75	1600	580	15.6	6.7	310	100	0	300	110	12	15	0	0	86
8-23-76	1510	263	22.5	6.8	330	860	0	50	90	11	--	00	0	160

¹Field determinations include discharge, temperature, pH, specific conductance, and ferrous iron. Additional water quality analyses performed at the U.S. Geological Survey, Clarion field office laboratory and the Allegheny College Geology Department laboratory.

Table 7.--Common names and taxonomic classification of benthic invertebrates

Common name	Phylum	Class	Order	Family	Genus
Joint-footed animals	Arthropoda				
Crustaceans		Crustacea			
Aquatic sow bugs			Isopoda	Asellidae	<u>Asellus</u>
Do.					
Crayfishes			Decapoda	Astacidae	<u>Orconectes</u>
Do.					Unidentified
Do.					
Insects		Insecta			
Beetles			Coleoptera		
Leaf beetles				Chrysomelidae	<u>Donacia</u>
Predaceous diving beetles				Dytiscidae	<u>Agabus</u>
Do.					Unidentified Genera
Riffle beetles				Elmidae	Unidentified Genera
Whirligig beetles				Gyrinidae	<u>Dineutus</u>
Do.					<u>Gyrinus</u>
Water scavenger beetles				Hydrophilidae	Unidentified Genus
Flies			Diptera		
Anthomyiids				Anthomyiidae	<u>Limnophora</u>
Biting midges				Ceratopogonidae	Unidentified Genera
Midges				Chironomidae	<u>Pentaneura</u>
Do.					Unidentified Genera
Phantom midges, mosquitos				Culicidae	Unidentified Genera
Snipe flies				Rhagionidae	<u>Atherix</u>
Black flies				Simuliidae	<u>Simulium</u>
Do.					Unidentified Genera
Soldier flies				Stratiomyidae	Unidentified Genera
Flower flies				Syrphidae	<u>Eristalis</u>
Horserflies				Tabanidae	<u>Chrysops</u>
Crane flies				Tipulidae	<u>Antocha</u>
Do.					<u>Hexatoma</u>
Do.					<u>Limonia</u>
Do.					<u>Tipula</u>
Do.					Unidentified Genera
Mayflies			Ephemeroptera		
Do.				Baetidae	<u>Baetis</u>
Do.					<u>Callibaetis</u>
Do.					<u>Centroptilum</u>
Do.					<u>Neocloeon</u>
Do.					<u>Pseudocloeon</u>
Do.					Unidentified Genus
Do.				Baetiscidae	<u>Baetisca</u>
Do.				Caenidae	<u>Caenis</u>
Do.				Ephemerellidae	<u>Ephemerella</u>
Do.				Ephemeridae	<u>Ephemer</u>
Do.				Heptageniidae	<u>Arthroplea</u>
Do.					<u>Epeorus</u>
Do.					<u>Heptagenia</u>
Do.					<u>Stenonema</u>
Do.				Leptophlebiidae	<u>Choroterpes</u>
Do.					<u>Paraleptophlebia</u>
Do.				Siphonuridae	<u>Ameletus</u>
Do.					<u>Isonychia</u>
Do.					<u>Siphonurus</u>
True bugs			Hemiptera		
Giant water bugs				Belostomatidae	<u>Belostoma</u>
Water boatmen				Corixidae	Unidentified Genera
Water striders				Gerridae	<u>Gerris</u>
Do.					<u>Metrobates</u>
Shore bugs				Saldidae	Unidentified Genus
Broad-shouldered water striders				Velidae	<u>Rhagovelia</u>
Alderflies, dobsonflies, fishflies			Megaloptera		
Fishflies				Corydalidae	<u>Chauliodes</u>
Dobsonflies, hellgrammites					<u>Corydalus</u>
Alderflies				Sialidae	<u>Sialis</u>
Dragonflies, damselflies			Odonata		
Dragonflies				Aeshnidae	<u>Boyeria</u>
Damselflies				Coenagrionidae	<u>Argia</u>
Do.					<u>Coenagrion</u>
Dragonflies				Cordulegasteridae	<u>Cordulegaster</u>
Do.				Corduliidae	<u>Somatochlora</u>
Do.				Gomphidae	<u>Gomphus</u>
Do.					<u>Lanthus</u>
Do.					<u>Ophiogomphus</u>
Stoneflies			Plecoptera		
Do.				Chloroperlidae	<u>Alloperla</u>
Do.					<u>Hastaperla</u>
Do.				Leuctridae	<u>Leuctra</u>
Do.				Nemouridae	<u>Nemoura</u>
Do.				Peltoperlidae	<u>Peltoperla</u>
Do.				Perlidae	<u>Acronuria</u>
Do.					<u>Paragnetina</u>
Do.					<u>Neophasganophora</u>
Do.					Unidentified juveniles
Do.				Perlodidae	<u>Isoperla</u>
Do.				Taeniopterygidae	<u>Brachyptera</u>

Table 7.--Common names and taxonomic classification of benthic invertebrates--Continued

Common name	Phylum	Class	Order	Family	Genus
Caddisflies			Trichoptera		
Do.				Glossosomatidae	<u>Glossosoma</u>
Do.				Hydropsychidae	<u>Cheumatopsyche</u>
Do.					<u>Diplectrona</u>
Do.					<u>Hydropsyche</u>
Do.					<u>Macronema</u>
Do.					<u>Parapsyche</u>
Do.					Unidentified Genus
Do.				Hydroptilidae	Unidentified Genus
Do.				Lepidostomatidae	<u>Lepidostoma</u>
Do.				Limnephilidae	<u>Hydatophylax</u>
Do.					<u>Ironoquia</u>
Do.					<u>Limnephilus</u>
Do.					<u>Neophylax</u>
Do.					<u>Platycentropus</u>
Do.					<u>Pycnopsyche</u>
Do.				Odontoceridae	<u>Psilotreta</u>
Do.				Philopotamidae	<u>Chimarra</u>
Do.					<u>Dolophilodes</u>
Do.					<u>Wolmalidia</u>
Do.				Phryganeidae	<u>Oligostomis</u>
Do.					<u>Ptilostomis</u>
Do.					Unidentified Genus
Do.				Polycentropodidae	<u>Polycentropus</u>
Do.				Psychomyiidae	<u>Psychomyia</u>
Do.					Unidentified Genus
Do.				Rhyacophilidae	<u>Rhyacophila</u>
Mollusks	Mollusca				
Snails, limpets		Gastropoda			
Do.			Pulmonata		
Pond snails				Lymnaeidae	<u>Lymnaea</u>
Pouch snails				Physidae	<u>Physa</u>
Clams, mussels		Pelecypoda			
Clams				Sphaeriidae	Unidentified Genus
Mussels				Unioniidae	Unidentified Genus
Segmented worms	Annelidia				
Aquatic earthworms		Oligochaeta			

Table 8.--Benthic invertebrate data

[The invertebrate data is given by station. The stations are presented sequentially and identified by eight-digit downstream-order numbers. The station name is given below the downstream-order number. The date of collection of samples is shown. The notation QW means that a water-quality sample was collected and analyzed for the date indicated. This water-quality data is given in Koester and Lescinsky (1976). The number columns opposite the taxa of invertebrates give the number of individuals collected]

03026490	4/9/74	QW		03028550	5/21/74	QW	
Fivemile Run at Williamsville				Little Mill Creek near Johnsonburg			
<u>Hydropsyche</u>	2	<u>Leuctra</u>	1	<u>Ephemera</u>	7	<u>Psilotreta</u>	4
<u>Polycentropus</u>	3	<u>Hexatoma</u>	5	<u>Stenonema</u>	4	<u>Polycentropus</u>	2
<u>Diplectrona</u>	1	<u>Simuliidae</u>	5	<u>Leuctra</u>	10	<u>Psychopsyche</u>	1
<u>Acronuria</u>	3	<u>Chironomidae</u>	3	<u>Nemoura</u>	5	<u>Elmidae</u>	2
<u>Alloperla</u>	3			<u>Gomphus</u>	3	<u>Hexatoma</u>	3
				<u>Chauliodes</u>	2	<u>Chironomidae</u>	3
				<u>Hydropsyche</u>	2	<u>Tipula</u>	2
				<u>Diplectrona</u>	3	<u>Tabanidae</u>	3
03026500	4/9/74	QW					
Sevenmile Run near Rasselas				03028750	4/8/74	QW	
<u>Oligochaeta</u>	1	<u>Leuctra</u>	4	Laurel Run near St. Marys			
<u>Stenonema</u>	4	<u>Lanthus</u>	3	<u>Leuctra</u>	1		
<u>Ephemera</u>	9	<u>Psychopsyche</u>	6				
<u>Isoperla</u>	1	<u>Hexatoma</u>	4				
<u>Alloperla</u>	1	<u>Tipula</u>	2				
03026850	4/9/74	QW		03028800	4/8/74	QW	
Swamp Creek near Rasselas				Daguschahonda Creek at Daguschahonda			
No macroinvertebrates found				<u>Chironomidae</u>	3		
03027550	4/10/74	QW		03028900	4/8/74		
Crooked Creek at Glen Hazel				Elk Creek at Ridgway			
<u>Oligochaeta</u>	1	<u>Acronuria</u>	6	<u>Oligochaeta</u>	1	<u>Chauliodes</u>	1
<u>Stenonema</u>	4	<u>Leuctra</u>	1	<u>Stenonema</u>	1		
<u>Epeorus</u>	5	<u>Glossosoma</u>	3				
<u>Paraleptophlebia</u>	4	<u>Neophylax</u>	4	03029120	5/20/74	QW	
<u>Ephemera</u>	9	<u>Rhyacophila</u>	1	Big Mill Creek near Ridgway			
<u>Baetis</u>	6	<u>Hexatoma</u>	3	<u>Astacidae</u>	8	<u>Ephemera</u>	3
<u>Peltoperla</u>	1	<u>Simuliidae</u>	5	<u>Lanthus</u>	2	<u>Stenonema</u>	11
<u>Brachyptera</u>	7	<u>Chironomidae</u>	3	<u>Chauliodes</u>	2	<u>Acronuria</u>	4
<u>Isoperla</u>	5			<u>Hydropsyche</u>	2	<u>Neophasganophora</u>	1
				<u>Cheumatopsyche</u>	1	<u>Nemouridae</u>	2
				<u>Psychopsyche</u>	1	<u>Coenagrion</u>	2
				<u>Gyrinidae</u>	2	<u>Boyeria</u>	1
				<u>Chironomidae</u>	2		
03027580	4/9/74	QW					
Johnson Run near Ketner				03029125	4/9/74	QW	
<u>Corixidae</u>	1	<u>Gyrinus</u>	4	Little Toby Creek at Dagus Mines			
<u>Sialis</u>	2			No macroinvertebrates found			
03027610	4/10/74	QW		03029128	4/9/74	QW	
Johnson Run at Ketner				Limestone Run at Toby			
<u>Psychopsyche</u>	1	<u>Chironomidae</u>	1	No macroinvertebrates found			
<u>Ptilostomis</u>	1						
03027990	4/10/74	QW		03029130	4/9/74	QW	
Wilson Run at Dahoga				Kyler Run at Kyler's Corners			
<u>Oligochaeta</u>	3	<u>Iron</u>	1	<u>Ptilostomis</u>	1		
<u>Ameletus</u>	1	<u>Isoperla</u>	1				
<u>Baetis</u>	8	<u>Nemoura</u>	1				
<u>Baetisca</u>	1	<u>Psychopsyche</u>	2				
<u>Ephemera</u>	2	<u>Chironomidae</u>	8				
03028520	4/8/74	QW		03029135	4/9/74	QW	
Powers Run at mouth				Tributary to Little Toby Creek at Kyler's Corners			
<u>Oligochaeta</u>	2	<u>Isoperla</u>	1	No macroinvertebrates found			
<u>Baetisca</u>	1	<u>Hydropsyche</u>	1				
<u>Paraleptophlebia</u>	6	<u>Cheumatopsyche</u>	1				
<u>Stenonema</u>	3	<u>Neophylax</u>	3				
<u>Peltoperla</u>	1	<u>Tipula</u>	3	03029136	4/9/74	QW	
<u>Acronuria</u>	5	<u>Hexatoma</u>	7	Little Toby Creek at Kyler's Corners			
<u>Brachyptera</u>	15	<u>Chironomidae</u>	1	<u>Sialis</u>	3	<u>Chironomidae</u>	1
<u>Leuctra</u>	2						
03028530	4/8/74	QW		03029138	5/20/74	QW	
Riley Run near Johnsonburg				Sawmill Run near Kyler's Corners			
<u>Culicidae</u> ¹				<u>Siphonurus</u>	8	<u>Chauliodes</u>	2
				<u>Ephemera</u>	1	<u>Diplectrona</u>	4
				<u>Leuctra</u>	23	<u>Isonychia</u>	3
				<u>Isoperla</u>	1	<u>Psychopsyche</u>	1
				<u>Corixidae</u>	2	<u>Dytiscidae</u>	3

Table 8.--Benthic invertebrate data--Continued

03029140	4/9/74	QW	03029184	5/21/74	QW		
Brandy Camp Creek near Elbon			Wolf Run at Parrish				
<u>Sialis</u>	1	Ceratopogonidae	1	Astacidae ¹	Coenagrion	1	
				<u>Ephemera</u>	Boyeria	1	
03029142	4/10/74	QW		<u>Stenonema</u>	4	Chauliodes	2
Bear Run near Elbon				<u>Ephemera</u>	1	Hydropsyche	1
				<u>Acroneuria</u>	6	Cheumatopsyche	1
<u>Oligochaeta</u>	1	<u>Diplectrona</u>	1	<u>Nemoura</u>	1	<u>Polycentropus</u>	4
<u>Stenonema</u>	2	<u>Rhyacophila</u>	1	<u>Leuctra</u>	13	<u>Tipula</u>	2
<u>Hastaperla</u>	1	<u>Hexatoma</u>	1	<u>Hastaperla</u>	2	<u>Hexatoma</u>	1
<u>Parapsyche</u>	1						
03029143	4/10/74	QW	03029185	9/18/73	QW		
Boggy Run at Brockport			Spring Creek near Hallton				
<u>Leuctra</u>	11	<u>Polycentropus</u>	1	<u>Stenonema</u>	3	<u>Hydropsyche</u>	3
<u>Hydropsyche</u>	2	<u>Simuliidae</u>	8	<u>Boyeria</u>	1	<u>Cheumatopsyche</u>	4
<u>Diplectrona</u>	1	<u>Chironomidae</u>	1	<u>Macronema</u>	1		
03029144	4/10/74	QW	03029188	9/20/73			
Mead Run at Brockport			Maxwell Run at Mouth				
<u>Stenonema</u>	2	<u>Cheumatopsyche</u>	2	Astacidae ¹		<u>Diplectrona</u>	5
<u>Leuctra</u>	2	<u>Tipula</u>	1	<u>Ephemera</u>	1	<u>Hydropsyche</u>	2
<u>Hydropsyche</u>	1			<u>Gerridae</u> ⁴		<u>Polycentropus</u>	1
03029145	4/10/74	QW	03029190	9/18/73	QW		
Little Toby Creek at Brockport			Wyncoop Run near Clarington				
No macroinvertebrates found				<u>Stenonema</u>	1	<u>Rhagovelia</u>	1
				<u>Paraleptophlebia</u>	2	<u>Hydropsyche</u>	2
				<u>Baetis</u>	4	<u>Chironomidae</u>	8
				<u>Acroneuria</u>	1	<u>Tipula</u>	1
03029146	4/10/74	QW	03029194	4/25/74			
Whetstone Branch at Brockport			East Branch Millstone Creek at Loleta				
<u>Ephemera</u>	1	<u>Neophylax</u>	2	<u>Stenonema</u>	1	<u>Pycnopsyche</u>	1
<u>Epeorus</u>	4	<u>Glossosoma</u>	1	<u>Ephemera</u>	2	<u>Chimarra</u>	1
<u>Paraleptophlebia</u>	3	<u>Tipula</u>	1	<u>Acroneuria</u>	13	<u>Atherix</u>	1
<u>Baetis</u>	1	<u>Simuliidae</u>	7	<u>Leuctra</u>	2	<u>Hexatoma</u>	1
03029147	4/11/74	QW		<u>Cheumatopsyche</u>	1		
Rattlesnake Run near Lanes Mills			03029195	9/18/73	QW		
<u>Baetis</u>	17	<u>Glossosoma</u>	1	Millstone Creek near Clarington			
<u>Ephemera</u>	2	<u>Hexatoma</u>	1	<u>Stenonema</u>	5	<u>Hydropsyche</u>	1
<u>Hydropsyche</u>	11	<u>Chironomidae</u>	1	<u>Acroneuria</u>	7	<u>Elmidae</u>	1
03029148	4/11/74	QW		<u>Dolophilodes</u>	15		
Rattlesnake Run at Lanes Mills			03029205	9/20/73			
<u>Stenonema</u>	2	<u>Polycentropus</u>	1	Clear Creek at Mouth			
<u>Ephemera</u>	1	<u>Pycnopsyche</u>	1	<u>Oligochaeta</u>	1	<u>Dolophilodes</u>	3
<u>Leuctra</u>	3	<u>Tipula</u>	1	<u>Stenonema</u>	13	<u>Cheumatopsyche</u>	6
<u>Hydropsyche</u>	2			<u>Epeorus</u>	3	<u>Hydropsyche</u>	1
03029150	9/21/73			<u>Ephemera</u>	3	<u>Psychomyia</u>	1
Little Toby Creek at Brockway				<u>Peltoptera</u>	3	<u>Hexatoma</u>	1
No macroinvertebrates found				<u>Acroneuria</u>	4	<u>Chironomidae</u>	1
				<u>Paragnetina</u>	1	<u>Isoperla</u>	1
03029170	9/21/73	QW	03029240	4/25/74	QW		
Little Toby Creek at Portland Mills			Bearpen Run at Redclyffe				
<u>Hydropsyche</u>	4	<u>Atherix</u>	1	<u>Ephemera</u>	1	<u>Diplectrona</u>	2
				<u>Isoperla</u>	4	<u>Rhyacophila</u>	1
03029180	5/20/74	QW		<u>Leuctra</u>	1	<u>Neophylax</u>	7
Bear Creek near Ridgway				<u>Nemoura</u>	2	<u>Simuliidae</u>	14
<u>Astacidae</u>	1	<u>Stenonema</u>	3	03029250	9/18/73	QW	
<u>Chauliodes</u>	2	<u>Epeorus</u>	6	Maple Creek near Clarington			
<u>Cheumatopsyche</u>	1	<u>Ephemera</u>	2	<u>Stenonema</u>	7	<u>Paragnetina</u>	1
<u>Hydropsyche</u>	1	<u>Peltoptera</u>	1	<u>Isonychia</u>	1	<u>Rhagovelia</u>	1
<u>Pycnopsyche</u>	2	<u>Nemoura</u>	1	<u>Acroneuria</u>	1	<u>Hydropsyche</u>	5
<u>Elmidae</u>	1	<u>Acroneuria</u>	2	<u>Neophasgonophora</u>	1		
<u>Chironomidae</u>	1						
03029300	9/18/73	QW	03029300	9/18/73	QW		
Coleman Run near Cooksburg			Coleman Run near Cooksburg				
<u>Lanthus</u>	1	<u>Hydropsyche</u>	1				
<u>Dolophilodes</u>	3	<u>Tipulidae</u>	3				

Table 8.--Benthic invertebrate data--Continued

03029350	4/10/74	QW			03030520	6/3/74			
Toms Run near Vowinckel					Piney Creek at Limestone				
<u>Hydropsyche</u>	1		<u>Cheumatopsyche</u>	1	<u>Chauliodes</u>	2	<u>Limnephilidae</u>	2	
					<u>Hydropsyche</u>	19			
03029400	9/20/73				03030530	6/3/74			
Toms Run at Cooksburg					Glade Run at Frogtown				
<u>Stenonema</u>	3		<u>Paraleptophlebia</u>	3					
<u>Isonychia</u>	1		<u>Hydropsyche</u>	4	<u>Oligochaeta</u>	2	<u>Tipula</u>	1	
<u>Baetis</u>	3		<u>Dolophilodes</u>	10	<u>Baetis</u>	11	<u>Simuliidae</u>	13	
<u>Centroptilum</u>	2		<u>Chironomidae</u>	2	<u>Hydropsyche</u>	1	<u>Chironomidae</u>	3	
	4/10/74	QW							
<u>Stenonema</u>	1		<u>Hydropsyche</u>	1	03030550	6/3/74			
<u>Ephemera</u>	1		<u>Cheumatopsyche</u>	4	Piney Creek near Limestone				
<u>Peltoperla</u>	1		<u>Rhyacophila</u>	2	<u>Hydropsyche</u>	4			
<u>Leuctra</u>	19		<u>Tipula</u>	1					
<u>Hastaperla</u>	1		<u>Tipulidae</u>	1					
<u>Boyeria</u>	1				03030560	6/5/74			
					Reids Run at Reidsburg				
03029510	9/20/73				<u>Oligochaeta</u>	1	<u>Nemoura</u>	7	
Cathers Run at Mouth					<u>Stenonema</u>	19	<u>Chauliodes</u>	2	
<u>Stenonema</u>	4		<u>Wormaldia</u>	5	<u>Baetis</u>	6	<u>Hydropsyche</u>	16	
<u>Baetis</u>	5		<u>Hydropsyche</u>	1	<u>Ephemera</u>	1	<u>Chimarra</u>	1	
<u>Paragnetina</u>	6		<u>Cheumatopsyche</u>	1	<u>Caenis</u>	1	<u>Chironomidae</u>	2	
<u>Acronuria</u>	3		<u>Rhyacophila</u>	1	<u>Paraleptophlebia</u>	4	<u>Hexatoma</u>	1	
<u>Chauliodes</u>	1		<u>Simulium</u>	1	<u>Leuctra</u>	5	<u>Ceratopogonidae</u>	1	
					<u>Acronuria</u>	4	<u>Lymnaea</u>	1	
03029680	4/10/74	QW			03030580	9/17/73	QW		
Mill Creek near Strattanville					Brush Run at Williamsburg				
<u>Astacidae</u>	3		<u>Pycnopsyche</u>	6	No macroinvertebrates found				
<u>Isoperla</u>	1		<u>Hydropsyche</u>	3					
<u>Leuctra</u>	1		<u>Chironomidae</u>	2	03030600	9/17/73	QW		
<u>Gerris</u>	1				Piney Creek at Piney				
					No macroinvertebrates found				
03029700	9/19/73	QW			03030610	9/18/73	QW		
Mill Creek near Strattanville					Licking Creek at Huefner				
No macroinvertebrates found					<u>Corixidae</u> ¹		<u>Sialis</u>	1	
03030004	9/17/73	QW			<u>Gerridae</u> ¹		<u>Ptilostomis</u>	1	
Toby Creek near Scotch Hill									
<u>Oligostomis</u>	1		<u>Diptera</u>	1	03030615	6/2/74			
					Mahles Run at Huefner				
03030007	9/17/73				<u>Leuctra</u>	1	<u>Polycentropus</u>	1	
Toby Creek near Helen Furnace					<u>Sialis</u>	2	<u>Dytiscidae</u>	1	
<u>Corixidae</u>	1		<u>Oligostomis</u>	2					
					03030620	6/3/74			
03030008	6/2/74				Cooper Run near Shippenville				
Step Creek near Lucinda					<u>Siphonurus</u>	1	<u>Diplectrona</u>	1	
No macroinvertebrates found					<u>Nemoura</u>	35	<u>Polycentropus</u>	1	
03030103	6/2/74				<u>Leuctra</u>	1	<u>Dytiscidae</u>	1	
Tributary to Toby Creek near Clarion					<u>Boyeria</u>	2	<u>Chironomidae</u>	3	
No macroinvertebrates found					<u>Corixidae</u>	1	<u>Hexatoma</u>	1	
					<u>Sialis</u>	1			
03030104	6/2/74				03030650	6/2/74			
Rapp Run at Mouth					Little Paint Creek near Shippenville				
<u>Leuctra</u>	2		<u>Chironomidae</u>	3	<u>Corixidae</u>	1	<u>Donacia</u>	1	
<u>Dytiscidae</u>	1				<u>Sialis</u>	1	<u>Hexatoma</u>	1	
					<u>Rhyacophila</u>	1	<u>Tabanidae</u>	1	
					<u>Dytiscidae</u>	6			
03030106	6/2/74				03030660	9/17/73	QW		
Toby Creek near Clarion					Paint Creek at Shippenville				
<u>Belostoma</u>	1		<u>Tabanidae</u>	1	<u>Chauliodes</u>	4	<u>Dytiscidae</u>	1	
<u>Dytiscidae</u>	1				<u>Sialis</u>	4	<u>Chironomidae</u>	6	
					<u>Oligostomis</u>	1			
03030500	9/17/73	QW			03030670	9/20/73	QW		
Clarion River near Piney					Deer Creek near Shippenville				
No macroinvertebrates found					<u>Sialis</u>	7	<u>Limnophora</u>	1	
					<u>Oligostomis</u>	4			

Table 8.--Benthic invertebrate data--Continued

03030680	9/17/73	QW			03030870	9/20/73			
Little Deer Creek at Mouth					Tributary to Licking Creek at Sligo				
Corixidae	9		<u>Sialis</u>	2	<u>Diplectrona</u>	22		<u>Tipulidae</u>	9
Chauliodes	1		<u>Polycentropus</u>	11	<u>Simuliidae</u>	2		<u>Chironomidae</u>	21
Chironomidae	1								
03030690	9/20/73				03030880	9/17/73	QW		
Deer Creek at Shippenville					Cherry Run at Huey				
<u>Sialis</u>	10		<u>Ptilostomis</u>	1	No macroinvertebrates found				
<u>Oligostomis</u>	1		<u>Chironomidae</u>	11					
03030700	9/17/73	QW			03030890	9/20/73	QW		
Deer Creek at Piney					Cherry Run at Callensburg				
No macroinvertebrates found					<u>Diplectrona</u>	1		<u>Hydropsyche</u>	3
03030710	4/8/74	QW			03030900	9/20/73	QW		
Canoe Creek at Knox					Licking Creek at Callensburg				
<u>Sialis</u>	2		<u>Tipula</u>	1	No macroinvertebrates found				
03030730	9/20/73	QW			03030920	9/21/73	QW		
Tributary to Canoe Creek at Wentlings Corners					Turkey Run at Turkey City				
<u>Stenonema</u>	5		<u>Polycentropus</u>	1	<u>Stenonema</u>	10		<u>Hydropsyche</u>	7
<u>Acroneuria</u>	2		<u>Chironomidae</u>	1	<u>Ephemera</u>	1		<u>Cheumatopsyche</u>	4
<u>Hydropsychidae</u>	1				03030925	9/20/73			
03030740	9/20/73	QW			Tributary to Turkey Creek at Turkey City				
Tributary to Canoe Creek at Canoe Ripple					<u>Hydropsyche</u>	9		<u>Tipulidae</u>	1
<u>Heptagenia</u>	1		<u>Acroneuria</u>	1	03030950	9/20/73	QW		
<u>Stenonema</u>	3		<u>Dolophilodes</u>	1	Turkey Run near St. Petersburg				
<u>Paraleptophlebia</u>	1		<u>Dytiscidae</u>	1	<u>Stenonema</u>	6		<u>Polycentropus</u>	3
03030750	9/20/73	QW			03031000	9/19/73	QW		
Canoe Creek near Callensburg					Clarion River at St. Petersburg				
<u>Stenonema</u>	2		<u>Hydropsyche</u>	8	<u>Gerridae</u> ¹			<u>Corixidae</u> ¹	
<u>Baetis</u>	11		<u>Tipulidae</u>	1	Benthic macroinvertebrates of the Allegheny River basin				
03030770	4/8/74	QW			03031520	9/19/73	QW		
Beaver Creek near Knox					Black Fox Run near West Freedom				
<u>Ephemera</u>	1		<u>Chauliodes</u>	1	<u>Diplectrona</u>	1		<u>Hydropsyche</u>	4
<u>Stenonema</u>	2		<u>Tipula</u>	1	03031530	9/19/73	QW		
<u>Paraleptophlebia</u>	1		<u>Stratiomyidae</u>	1	Catfish Run at Mouth				
<u>Ephemerella</u>	1		<u>Chironomidae</u>	1	<u>Peltoperla</u>	2		<u>Hydropsyche</u>	1
03030800	4/8/74	QW			<u>Acroneuria</u>	1			
Beaver Creek near Turkey City					Benthic macroinvertebrates of the Redbank Creek basin				
<u>Oligochaeta</u>	1		<u>Nemoura</u>	1	03031600	3/27/73	QW		
<u>Ephemera</u>	1		<u>Chironomidae</u>	1	Sandy Lick Creek near Sabula				
<u>Stenonema</u>	1		<u>Chrysops</u>	1	<u>Oligochaeta</u>	1		<u>Cheumatopsyche</u>	14
03030850	9/20/73	QW			<u>Orconectes</u>	6		<u>Lepidostoma</u>	1
Tributary to Clarion River below Beaver Creek near Callensburg					<u>Stenonema</u>	11		<u>Pycnopsyche</u>	2
No macroinvertebrates found					<u>Hastaperla</u>	1		<u>Chironomidae</u>	4
03030857	9/20/73				<u>Chauliodes</u>	5		<u>Tipula</u>	2
Craggs Run at Curllsville					<u>Hydropsyche</u>	1		<u>Sphaeriidae</u>	1
<u>Baetis</u>	4		<u>Cheumatopsyche</u>	5	03031605	3/26/73			
<u>Centroptilum</u>	2		<u>Chironomidae</u>	2	Narrows Creek at Sabula				
<u>Hydropsyche</u>	6				<u>Oligochaeta</u>	1		<u>Leuctra</u>	1
03030858	6/5/74				<u>Stenonema</u>	2		<u>Isoperla</u>	3
Licking Creek at Sligo					<u>Ephemerella</u>	4		<u>Hastaperla</u>	2
<u>Cheumatopsyche</u>	1		<u>Hydropsyche</u>	1	<u>Acroneuria</u>	2		<u>Cheumatopsyche</u>	2
03030865	9/20/73	QW			<u>Peltoperla</u>	1		<u>Pycnopsyche</u>	2
Anderson Run at Sligo					No macroinvertebrates found				

Table 8.--Benthic invertebrate data--Continued

03031620	3/27/73	QW			03031868	6/6/74		
Laborde Branch near Homecamp					Little Mill Creek near Brookville			
<u>Orconectes</u>	1		<u>Corydalis</u>	6	<u>Ephemera</u>	43	<u>Hastaperla</u>	1
<u>Acroeuria</u>	1		<u>Chimarra</u>	1	<u>Stenonema</u>	4	<u>Lanthus</u>	1
<u>Alloperla</u>	1		<u>Polycentropus</u>	1	<u>Baetis</u>	1	<u>Pycnopsycha</u>	4
<u>Leuctra</u>	14		<u>Tipula</u>	1	<u>Paraleptophlebia</u>	2	<u>Rhyacophila</u>	2
<u>Corixidae</u>	1				<u>Nemoura</u>	2	<u>Tipula</u>	1
					<u>Leuctra</u>	4	<u>Simuliidae</u>	4
					<u>Isoperla</u>	1	<u>Chironomidae</u>	6
					<u>Acroeuria</u>	1	<u>Hexatoma</u>	1
03031625	3/29/73	QW						
Clear Run at DuBois								
<u>Leptophlebia</u>	1		<u>Platycentropus</u>	1	03031870	3/29/73	QW	
<u>Sialis</u>	6		<u>Chironomidae</u>	1	Mill Creek at Brookville			
					<u>Ephemera</u>	3	<u>Leuctra</u>	1
03031630	3/28/73	QW			<u>Ameletus</u>	10	<u>Hydropsyche</u>	2
Falls Creek at Falls Creek					<u>Stenonema</u>	2	<u>Cheumatopsycha</u>	4
<u>Orconectes</u>	2		<u>Cheumatopsycha</u>	4	<u>Peltoperla</u>	2	<u>Chironomidae</u>	2
<u>Isonychia</u>	2		<u>Chimarra</u>	3	<u>Isoperla</u>	3	<u>Tipulidae</u>	2
<u>Stenonema</u>	13		<u>Chironomidae</u>	1				
<u>Acroeuria</u>	1		<u>Simuliidae</u>	5		4/17/73	QW	
<u>Brachyptera</u>	3		<u>Physa</u>	5	<u>Stenonema</u>	8	<u>Cheumatopsycha</u>	1
<u>Corydalis</u>	1		<u>Unionidae</u>	5	<u>Polycentropus</u>	1	<u>Parapsyche</u>	1
<u>Pycnopsycha</u>	5				<u>Hydropsyche</u>	2		
03031640	3/29/73	QW			03031872	4/12/74	QW	
Wolf Run at Falls Creek					Five Mile Run at Brookville			
<u>Orconectes</u>	1		<u>Corydalis</u>	2	<u>Oligochaeta</u>	3	<u>Ephemera</u>	1
<u>Stenonema</u>	4		<u>Pycnopsycha</u>	2	<u>Astacidae</u>	1	<u>Tipula</u>	2
<u>Ephemera</u>	1		<u>Pelotreta</u>	2				
<u>Ephemera</u>	1		<u>Lepidostoma</u>	1				
<u>Leuctra</u>	7		<u>Chironomidae</u>	3	03031873	6/5/74		
					South Branch near Munderf			
03031680	3/28/73	QW			<u>Stenonema</u>	1	<u>Hydropsyche</u>	1
Sandy Lick Creek near Falls Creek					<u>Leuctra</u>	45	<u>Rhyacophila</u>	2
<u>Asellus</u>	14		<u>Isonychia</u>	2	<u>Boyeria</u>	1	<u>Pycnopsycha</u>	2
<u>Leptophlebia</u>	12		<u>Chironomidae</u>	1	<u>Corixidae</u>	1	<u>Simuliidae</u>	11
<u>Platycentropus</u>	1				<u>Chauliodes</u>	1	<u>Chironomidae</u>	1
					<u>Diplectrona</u>	25		
03031700	4/9/73	QW			03031874	6/5/74		
Soldier Run at Reynoldsville					North Fork near Munderf			
<u>Sialis</u>	1				<u>Leuctra</u>	5	<u>Chauliodes</u>	1
					<u>Nemoura</u>	4	<u>Diplectrona</u>	3
03031720	4/9/73	QW			<u>Acroeuria</u>	6	<u>Hydropsyche</u>	1
Trout Run near Reynoldsville								
<u>Stenonema</u>	9		<u>Cordulagaster</u>	1	03031875	6/6/74		
<u>Ephemera</u>	1		<u>Hydropsyche</u>	2	North Fork at Richardsville			
<u>Leuctra</u>	2		<u>Cheumatopsycha</u>	1	<u>Oligochaeta</u>	1	<u>Chauliodes</u>	1
					<u>Epeorus</u>	8	<u>Hydropsyche</u>	13
03031770	3/29/73	QW			<u>Ephemera</u>	2	<u>Cheumatopsycha</u>	5
Sandy Lick Creek near Brookville					<u>Stenonema</u>	1	<u>Hydroptilidae</u>	1
<u>Orconectes</u>	1		<u>Hydropsyche</u>	1	<u>Nemoura</u>	2	<u>Wormaldia</u>	4
<u>Stenonema</u>	3		<u>Pycnopsycha</u>	4	<u>Acroeuria</u>	1	<u>Rhyacophila</u>	1
<u>Leuctra</u>	1				<u>Neophasganophora</u>	4	<u>Macronema</u>	1
					<u>Leuctra</u>	1	<u>Pycnopsycha</u>	1
					<u>Isoperla</u>	2	<u>Stratiomyidae</u>	1
	4/12/74	QW			<u>Coenagrion</u>	2	<u>Chironomidae</u>	4
<u>Oligochaeta</u>	1		<u>Pycnopsycha</u>	2	<u>Boyeria</u>	1		
<u>Astacidae</u>	2							
					03031876	4/17/73	QW	
03031805	9/18/73	QW			North Fork near Richardsville			
Horn Run near Allens Mills					<u>Astacidae</u>	1	<u>Boyeria</u>	1
<u>Stenonema</u>	1		<u>Cheumatopsycha</u>	4	<u>Stenonema</u>	3	<u>Ophiogomphus</u>	1
<u>Hydropsyche</u>	2				<u>Ephemera</u>	3	<u>Chauliodes</u>	1
					<u>Acroeuria</u>	3	<u>Hydropsyche</u>	5
					<u>Isoperla</u>	6	<u>Rhyacophila</u>	1
					<u>Leuctra</u>	1	<u>Dolophilodes</u>	1
03031861	4/9/73	QW						
Fivemile Run near Emerickville					03031880	9/17/73		
<u>Astacidae</u>	2		<u>Hexatoma</u>	1	North Fork at Brookville			
<u>Leuctra</u>	1				<u>Astacidae</u>	2	<u>Hydropsyche</u>	2
					<u>Acroeuria</u>	3	<u>Cheumatopsycha</u>	1
	9/18/73	QW			<u>Ophiogomphus</u>	1		
<u>Baetis</u>	1		<u>Ephemera</u>	1				
<u>Stenonema</u>	3		<u>Hydropsyche</u>	3				

Table 8.--Benthic invertebrate data--Continued

03031882	9/18/73	QW			03031950	9/19/73	QW		
Redbank Creek at Brookville					Big Run near Sprinkle Mills				
Oligochaeta	1	<u>Hydropsyche</u>	3		Astacidae ¹		<u>Cheumatopsyche</u>	7	
Astacidae	1	<u>Dineutus</u>	2		<u>Stenonema</u>	22	<u>Tipulidae</u>	11	
Acronuria	1				Baetidae	1	<u>Limonia</u>	1	
					Nemouridae	1	<u>Antocha</u>	4	
					<u>Rhagovelia</u>	1	<u>Atherix</u>	1	
					<u>Chauliodes</u>	2	<u>Simuliidae</u>	3	
					<u>Hydropsyche</u>	6			
03031884	6/7/74								
Coder Run near Brookville									
<u>Peltoperla</u>	1	<u>Chauliodes</u>	1						
<u>Leuctra</u>	9	<u>Diplectrona</u>	16		03031955	9/18/73	QW		
<u>Nemoura</u>	6	<u>Tipula</u>	1		Big Run at Worthville				
<u>Sialis</u>	1	<u>Simuliidae</u>	1						
					<u>Stenonema</u>	19	<u>Cheumatopsyche</u>	11	
03031886	9/18/73	QW			<u>Baetis</u>	6	<u>Hydropsyche</u>	8	
Coder Run near Brookville					<u>Choroterpes</u>	1	<u>Elmidae</u>	2	
Astacidae	1	<u>Hydropsyche</u>	2		<u>Acronuria</u>	12	<u>Chrysops</u>	3	
<u>Stenonema</u>	1	<u>Cheumatopsyche</u>	2		<u>Somatochlora</u>	2	<u>Tipulidae</u>	2	
<u>Paraleptophlebia</u>	1	<u>Hydrophilidae</u>	1		<u>Saldidae</u>	1	<u>Atherix</u>	1	
<u>Acronuria</u>	1	<u>Tipulidae</u>	1		<u>Chauliodes</u>	2	<u>Astacidae</u> ¹		
<u>Chauliodes</u>	1				<u>Sialis</u>	1			
03031888	9/19/73	QW			03031975	9/21/73	QW		
Simpson Run at Baxter					Little Sandy Creek near Worthville				
<u>Sialis</u>	3	<u>Chironomidae</u>	1		<u>Stenonema</u>	2	<u>Cheumatopsyche</u>	2	
					<u>Hydropsyche</u>	12			
03031894	9/19/73	QW			03031980	4/17/73	QW		
Welch Run at Summerville					Little Sandy Creek near North Freedom				
<u>Sialis</u>	2	<u>Hydropsyche</u>	3		<u>Stenonema</u>	9	<u>Hydropsyche</u>	4	
					<u>Isoperla</u>	1	<u>Cheumatopsyche</u>	1	
					<u>Leuctra</u>	1	<u>Tipulidae</u>	1	
					<u>Chauliodes</u>	1			
03031895	9/19/73	QW							
Welch Run at Summerville						9/18/73	QW		
<u>Sialis</u>	1				Astacidae	2	<u>Chauliodes</u>	2	
					<u>Stenonema</u>	6	<u>Cheumatopsyche</u>	7	
					Baetidae	1	<u>Hydropsyche</u>	1	
					<u>Metrobates</u>	1	<u>Tipula</u>	2	
03031896	6/6/74								
Runaway Run at Summerville									
No macroinvertebrates found					03032020	6/6/74			
					Tributary to Pine Creek at Shannondale				
03031898	6/6/74				<u>Oligochaeta</u>	2	<u>Elmidae</u>	2	
Beaver Run at Conifer					<u>Baetis</u>	4	<u>Chironomidae</u>	2	
No macroinvertebrates found					<u>Coenagrion</u>	2			
03031899	6/7/74				03032025	4/17/73	QW		
Beaver Run at Conifer					Pine Creek at Mayport				
No macroinvertebrates found					<u>Stenonema</u>	4	<u>Chironomidae</u>	3	
					<u>Hydropsyche</u>	2			
03031900	4/16/73	QW			03032055	6/6/74			
Beaver Run at Heathville					Town Run near Hawthorn				
Astacidae	1	<u>Rhyacophila</u>	1		<u>Hydropsyche</u>	2	<u>Chironomidae</u>	2	
					<u>Tipula</u>	1			
	4/12/74	QW							
Astacidae	1	<u>Diplectrona</u>	1		03032100	4/16/73	QW		
<u>Gerris</u>	1	<u>Tipula</u>	2		Leisure Run at New Bethlehem				
					<u>Epeorus</u>	1	<u>Diplectrona</u>	1	
03031930	9/18/73	QW			<u>Isoperla</u>	1	<u>Hydropsyche</u>	1	
Indiancamp Run near Coolspring					<u>Leuctra</u>	1	<u>Cheumatopsyche</u>	1	
<u>Stenonema</u>	4	<u>Diplectrona</u>	1		<u>Gerris</u>	1	<u>Tipulidae</u>	4	
<u>Neocloeon</u>	2	<u>Hydropsyche</u>	2		<u>Chauliodes</u>	4	<u>Chironomidae</u>	1	
<u>Coenagrion</u>	5	<u>Dytiscidae</u>	1						
<u>Chauliodes</u>	1	<u>Hexatoma</u>	2		03032350	4/11/74	QW		
<u>Rhyacophila</u>	2	<u>Tipulidae</u>	1		Leatherwood Creek near New Bethlehem				
<u>Dolophiodes</u>	11	<u>Chironomidae</u>	1		<u>Oligochaeta</u>	1	<u>Sialis</u>	2	
					Astacidae	1			
03031935	9/18/73	QW							
Little Sandy Creek at Coolspring					03032370	4/11/74	QW		
Astacidae	1	<u>Acronuria</u>	4		West Fork near New Bethlehem				
<u>Stenonema</u>	15	<u>Paragnetina</u>	4						
<u>Baetisca</u>	1	<u>Nemouridae</u>	1						
<u>Ephemera</u>	1	<u>Chauliodes</u>	1		Astacidae	1	<u>Isoperla</u>	1	
<u>Callibaetis</u>	2	<u>Sialis</u>	4		<u>Stenonema</u>	1	<u>Hydropsyche</u>	3	
<u>Paraleptophlebia</u>	1	<u>Elmidae</u>	1		<u>Paraleptophlebia</u>	1	<u>Tipula</u>	1	
							<u>Atherix</u>	1	

Table 8.--Benthic invertebrates data--Continued

03032390 4/11/74 QW
Jack Run near New Bethlehem

<u>Astacidae</u>	3	<u>Cheumatopsyche</u>	5
<u>Acroneuria</u>	1	<u>Hydropsyche</u>	3
<u>Isoperla</u>	1	<u>Rhyacophila</u>	1
<u>Chauliodes</u>	1	<u>Tipula</u>	1

03032400 4/16/73 QW
Leatherwood Creek near New Bethlehem

<u>Ephemerella</u>	2	<u>Coenagrion</u>	2
<u>Baetis</u>	2	<u>Chironomidae</u>	1
<u>Leuctra</u>	1		

4/11/74 QW

<u>Astacidae</u>	2	<u>Chauliodes</u>	1
<u>Acroneuria</u>	1	<u>Pycnopsyche</u>	2
<u>Cordulegaster</u>	1	<u>Tipula</u>	12
<u>Coenagrion</u>	1	<u>Ceratopogonidae</u>	1

03032500 4/17/73 QW
Redbank Creek at St. Charles

<u>Astacidae</u>	3	<u>Hydropsyche</u>	2
<u>Stenonema</u>	1	<u>Tipulidae</u>	1

9/19/73 QW

<u>Astacidae</u> ¹		<u>Argia</u>	3
<u>Stenonema</u>	12	<u>Macronema</u>	4
<u>Baetis</u>	6	<u>Hydropsyche</u>	1
<u>Pseudocloeon</u>	1	<u>Chironomidae</u>	1

4/11/74 QW

<u>Astacidae</u>	1	<u>Macronema</u>	1
<u>Gomphus</u>	1	<u>Atherix</u>	1

03032700 9/17/73 QW
Wildcat Run near Rimersburg
No macroinvertebrates found

03032750 9/20/73 QW
East Fork near Rimersburg

<u>Astacidae</u>	1	<u>Diplectrona</u>	7
<u>Sialis</u>	1	<u>Tipulidae</u>	1

03032770 9/20/73 QW
Fiddlers Run near Rimersburg

<u>Baetidae</u>	1	<u>Cheumatopsyche</u>	2
<u>Stenonema</u>	1	<u>Psychomyiidae</u>	1
<u>Choroterpes</u>	1	<u>Hexatoma</u>	1
<u>Acroneuria</u>	6	<u>Atherix</u>	3
<u>Chauliodes</u>	1	<u>Chironomidae</u>	2
<u>Hydropsyche</u>	1		

¹ Abundant.

