# INDEXES OF HYDROLOGIC DATA FROM SELECTED COAL-MINING AREAS IN NORTHWESTERN COLORADO

By Neville G. Gaggiani

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## CONVERSION FACTORS

Inch-pound units in this report may be converted to metric (International System) units by using the following conversion factors:

| *Multiply* | *By* | *To obtain* |
|---|---|---|
| cubic foot per second ($ft^3/s$) | 0.001233 | cubic hectometer |
| foot (ft) | 0.3048 | meter |
| mile | 1.609 | kilometer |

Degree Celsius (°C) may be converted to degree Fahrenheit (°F) by using the following equation:

$$°F=9/5(°C)+32$$

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

The following terms and abbreviations also are used in this report:

degree Celsius (deg C)
microgram per liter (µg/L)
micromhos per centimeter at 25 degrees Celsius (µmhos/cm)
microsiemens per centimeter at 25 degrees Celsius (µS/cm)
milliequivalent per liter (meq/L)
milligram per liter (mg/L)
milliliter per liter (mL/L)
millivolt (mV)

# INDEXES OF HYDROLOGIC DATA FROM SELECTED COAL-MINING AREAS IN NORTHWESTERN COLORADO

By Neville G. Gaggiani

## ABSTRACT

Currently (1988), data from hydrologic studies related to coal mining that have been done in northwestern Colorado since the early 1970's are stored in the files of private companies and government offices and in various computer systems. To compile these data for additional research, a trip to each office would have to be made to determine the availability and acceptability of the data. A data base (COALDATA) was compiled that includes stream discharge, ground-water levels, and chemical analysis of water samples that were collected by private companies and government agencies other than the U.S. Geological Survey in and near selected coal mines in northwestern Colorado. Indexes in this report list 93 surface-water sites and 95 ground-water sites where hydrologic data are available in the COALDATA data base. The indexes also list 62 surface-water sites and 480 ground-water sites in the U.S. Geological Survey data base, which is separate from the COALDATA data base and contains only data collected by the U.S. Geological Survey. The combined output of the COALDATA data base and the U.S. Geological Survey data base provides surface-water and ground-water data that include most of the study area.

## INTRODUCTION

Hydrologic studies related to coal mining have been done in northwestern Colorado (fig. 1) since the early 1970's. The studies, which were done by private companies and government agencies, have included collection of data from 93 surface-water sites and 95 ground-water sites. The data include continuous discharge measurements from streamflow gaging stations, intermittent discharge measurements from miscellaneous sites, ground-water level measurements, well-construction data, some geologic data, and water-quality analyses of surface water and ground water. The water-quality constituents included in the chemical analyses are listed in table 1.

Currently (1988), hydrologic data are stored in the files of private companies and government offices, and in a variety of computers. In order to compile these data in preparation for research, a trip to each office would need to be made to determine the availability and acceptability of the data. To make these data more easily available, a centralized data base and index has been developed. This data base (COALDATA), which was compiled by the U.S. Geological Survey, in cooperation with the U.S. Bureau of Land Management and

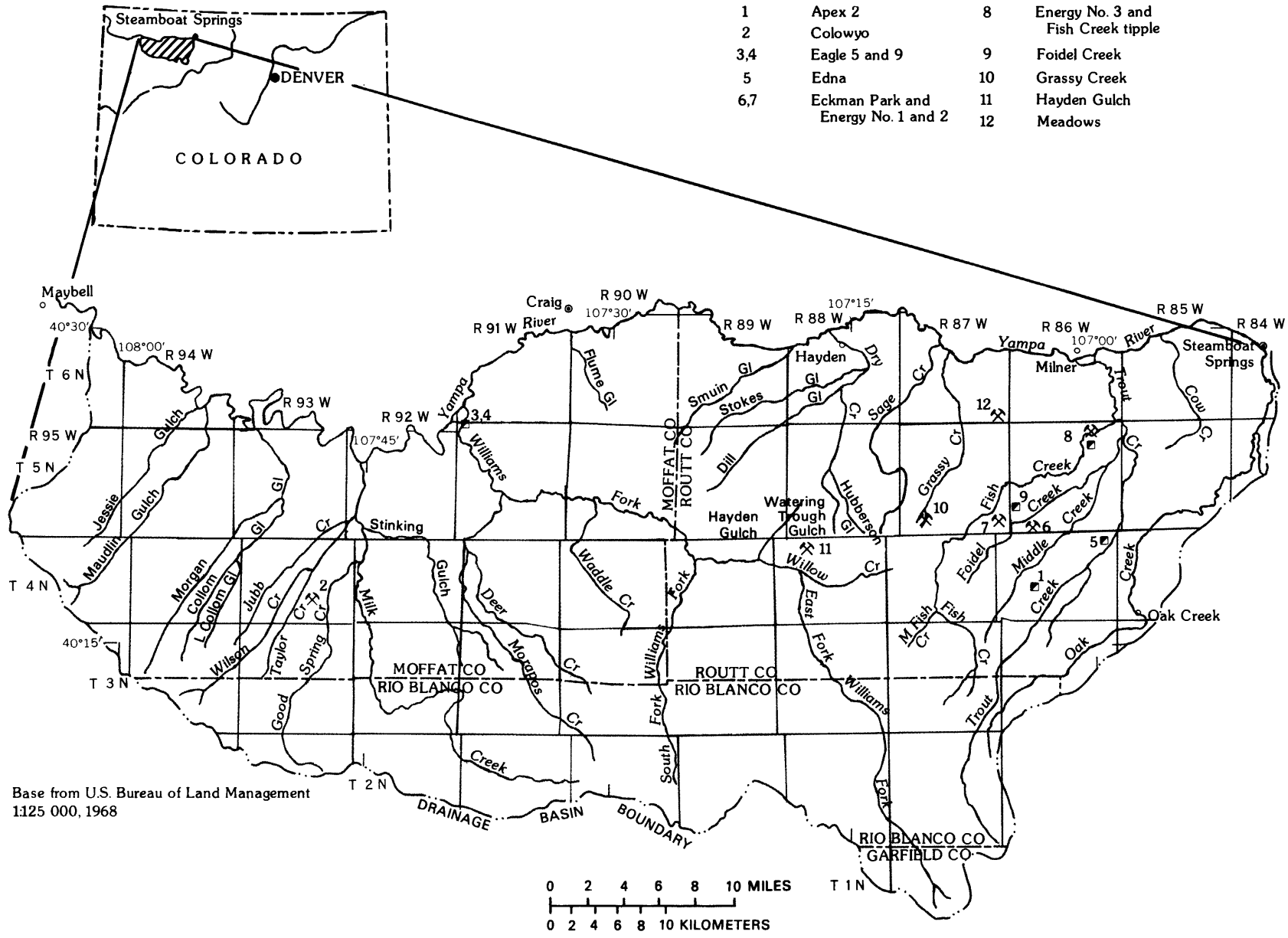


Figure 1.--Location of study area and coal mines.

the Colorado Department of Natural Resources, Mined Land Reclamation Division, contains locations, descriptions, and hydrologic data from surface-water and ground-water sites in northwestern Colorado. In addition to the data in the COALDATA data base, the U.S. Geological Survey has hydrologic data from 62 surface-water sites and 480 ground-water sites in the study area stored in a separate U.S. Geological Survey data base.

Table 1.--*Water-quality constituents used in the COALDATA data base for this report*

[NWIS, National Water Information System; °C, degrees Celsius; $ft^3/s$, cubic feet per second; mV, millivolts; µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; meq/L, milliequivalents per liter; µmhos/cm, micromhos per centimeter; µg/L, micrograms per liter; mL/L, milliliters per liter; ft, feet]

| NWIS codes | Description of constituent |
|---|---|
| 00010 | Temperature, water (°C) |
| 00060 | Discharge ($ft^3/s$) |
| 00090 | Oxidation reduction potential (mV) |
| 00095 | Specific conductance (µS/cm) |
| 00300 | Oxygen, dissolved (mg/L) |
| 00400 | pH (standard units) (meq/L) |
| 00401 | Cations minus anions |
| 00402 | Specific conductance, non-temperature corrected (µmhos/cm) |
| 00440 | Bicarbonate ion (mg/L as $HCO_3$) |
| 00445 | Carbonate ion (mg/L as $CO_3$) |
| 00608 | Nitrogen, ammonia, dissolved (mg/L as N) |
| 00610 | Nitrogen, ammonia, total (mg/L as N) |
| 00613 | Nitrogen, nitrite, dissolved (mg/L as N) |
| 00615 | Nitrogen, nitrite, total (mg/L as N) |
| 00618 | Nitrogen, nitrate, dissolved (mg/L as N) |
| 00619 | Ammonia, un-ionized (mg/L as N) |
| 00620 | Nitrogen, nitrate, total (mg/L as N) |
| 00630 | Nitrogen, nitrite plus nitrate, total (mg/L as N) |
| 00631 | Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) |
| 00650 | Phosphate, total (mg/L as $PO_4$) |
| 00653 | Phosphate, dissolved (mg/L as $PO_4$) |
| 00660 | Phosphate, ortho, dissolved (mg/L as $PO_4$) |
| 00665 | Phosphorus, total (mg/L as P) |
| 00745 | Sulfide, total (mg/L as S) |
| 00746 | Sulfide, dissolved (mg/L as S) |

Table 1.--*Water-quality constituents used in the COALDATA data base for this report*--Continued

| NWIS codes | Description of constituent |
|---|---|
| 00900 | Hardness, total (mg/L as $CaCO_3$) |
| 00901 | Hardness, carbonate (mg/L as $CaCO_3$) |
| 00902 | Hardness, noncarbonate (mg/L as $CaCO_3$) |
| 00910 | Calcium, total (mg/L as $CaCO_3$) |
| 00915 | Calcium, dissolved (mg/L as Ca) |
| 00916 | Calcium, total recoverable (mg/L as Ca) |
| 00920 | Magnesium (mg/L as $CaCO_3$) |
| 00921 | Magnesium, total recoverable (mg/L as Mg) |
| 00923 | Sodium, total recoverable (mg/L as Na) |
| 00925 | Magnesium, dissolved (mg/L as Mg) |
| 00927 | Magnesium, total (mg/L as Mg) |
| 00929 | Sodium, total (mg/L as Na) |
| 00930 | Sodium, dissolved (mg/L as Na) |
| 00931 | Sodium adsorption ratio |
| 00935 | Potassium, dissolved (mg/L as K) |
| 00937 | Potassium, total (mg/L as K) |
| 00939 | Potassium, total recoverable (mg/L as K) |
| 00940 | Chloride, dissolved (mg/L as Cl) |
| 00945 | Sulfate, dissolved (mg/L as $SO_4$) |
| 00946 | Sulfate (mg/L as $SO_4$) |
| 00951 | Fluoride, total (mg/L as F) |
| 00999 | Boron, total recoverable (µg/L as B) |
| 01002 | Arsenic, total (µg/L as As) |
| 01005 | Barium, dissolved (µg/L as Ba) |
| 01007 | Barium, total (µg/L as Ba) |
| 01009 | Barium, total recoverable (µg/L as Ba) |
| 01020 | Boron, dissolved (µg/L as B) |
| 01022 | Boron, total (µg/L as B) |
| 01027 | Cadmium, total (µg/L as Cd) |
| 01030 | Chromium, dissolved (µg/L as Cr) |
| 01032 | Chromium, hexavalent, dissolved (µg/L as Cr) |
| 01033 | Chromium trivalent (µg/L as Cr) |
| 01034 | Chromium, total (µg/L as Cr) |
| 01040 | Copper, dissolved (µg/L as Cu) |
| 01042 | Copper, total (µg/L as Cu) |
| 01045 | Iron, total (µg/L as Fe) |
| 01046 | Iron, dissolved (µg/L as Fe) |
| 01049 | Lead, dissolved (µg/L as Pb) |
| 01051 | Lead, total (µg/L as Pb) |

Table 1.--*Water-quality constituents used in the COALDATA data base for this report*--Continued

| NWIS codes | Description of constituent |
|---|---|
| 01055 | Manganese, total (µg/L as Mn) |
| 01056 | Manganese, dissolved (µg/L as Mn) |
| 01060 | Molybdenum, dissolved (µg/L as Mo) |
| 01062 | Molybdenum, total (µg/L as Mo) |
| 01065 | Nickel, dissolved (µg/L as Ni) |
| 01067 | Nickel, total (µg/L as Ni) |
| 01074 | Nickel, total recoverable (µg/L as Ni) |
| 01075 | Silver, dissolved (µg/L as Ag) |
| 01077 | Silver, total (µg/L as Ag) |
| 01079 | Silver, total recoverable (µg/L as Ag) |
| 01090 | Zinc, dissolved (µg/L as Zn) |
| 01092 | Zinc, total (µg/L as Zn) |
| 01094 | Zinc, total recoverable (µg/L as Zn) |
| 01105 | Aluminum, total (µg/L as Al) |
| 01106 | Aluminum, dissolved (µg/L as Al) |
| 01114 | Lead, total recoverable (µg/L as Pb) |
| 01118 | Chromium, total recoverable (µg/L as Cr) |
| 01123 | Manganese total recoverable (µg/L as Mn) |
| 01129 | Molybdenum total recoverable (µg/L as Mb) |
| 01145 | Selenium, dissolved (µg/L as Se) |
| 01147 | Selenium, total (µg/L as Se) |
| 01355 | Ice cover, floating or solid (severity) |
| 70301 | Solids, sum of constituents, dissolved (mg/L) |
| 70348 | Settleable solids (mL/L) |
| 70507 | Phosphorus, orthophosphate, total (mg/L as P) |
| 71825 | Acidity, total (mg/L as H) |
| 71900 | Mercury, total recoverable (µg/L as Hg) |
| 72019 | Depth below land surface (water level) (ft) |
| 80154 | Sediment, suspended concentration (mg/L) |
| 90410 | Alkalinity (mg/L as $CaCO_3$) |

## Purpose and Scope

This report describes the type of data that are available in COALDATA and gives examples of the types of information retrievals that are available from the system. Because the data base is large, actual data stored in the data base are not included in this report. Some descriptive information about the sites to aid in site selection are included in tables 2 through 5.

The data have been collected from private sources such as coal companies in northwestern Colorado and government sources such as the Colorado Department of Natural Resources, Mined Land Reclamation Division. Surface-water data include site location, type of gage, ownership, and surface-water discharge values. Ground-water data include well location, well depth, ownership (name of mine), depth of water-producing zone, and name of aquifer. Water-quality data include chemical analyses of selected constituents. Onsite water-quality measurements such as temperature, specific conductance, pH, and dissolved oxygen also are included, if available.

Hydrologic data stored in COALDATA have not been checked by the U.S. Geological Survey; also data collection and analysis procedures have not been verified to ensure that they meet standard U.S. Geological Survey methods and techniques. Therefore, proper data accuracy determination and appropriate data application are left to the user's discretion.

## Approach

Several methods were used to transfer data to the COALDATA data base. One method used was to manually enter data from reports and paper records. A second method of data transfer was to transfer the hydrologic data to magnetic tape from the host computer and then read the tape into the U.S. Geological Survey computer.

The COALDATA data base was developed using the U.S. Geological Survey National Water Information system (NWIS). This system processes and stores data in the COALDATA data base using two programs: the ground-water site inventory program (GWSI), which processes data for ground-water levels and information related to the drilling and operation of the site; and the quality of water program (QWDATA), which processes data for onsite measurements, chemical laboratory analyses of surface and ground water, and data for instantaneous surface-water discharge measurements. Site description information is stored so that it is available to both programs.

## System of Numbering Well Locations

The well locations (local well number) in tables 4 and 5 are based on the U.S. Bureau of Land Management system of land subdivision, and indicate the location of the well by quadrant, township, range, section, and position within the section. A graphic illustration of this method of well location is shown in figure 2. The first letter "S" preceeding the location number means that the well is located in the area governed by the sixth principal meridian. The second letter indicates the quadrant in which the well is located. Four quadrants are formed by the intersection of the base line and the principal meridian--A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. The first numeral indicates the township, the second the range, and the third the section in which the well is located. The letters following the section number locate the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section. The letters are assigned within the section in a counter-clockwise direction, beginning with (A) in the northeast quarter. Letters are assigned within each quarter section and within each quarter-quarter section in the same manner. Where two or more locations are within the smallest subdivision, consecutive numbers beginning with 1 are added in the order in which the wells were inventoried. For example, SC6-47-16AAA indicates a well in the northeast quarter of the northeast quarter of the northeast quarter of sec. 16, T. 6 S., R. 47 W. The "S" refers to the sixth principal meridian. The "C" indicates the township is south of the base line and that the range is west of the principal meridian.

## Acknowledgments

Bob Liddle, Candy Thompson, and Jim Pendelton of the Colorado Mined Land Reclamation Division helped compile the data, and Gary McIntosh of the U.S. Office of Surface Mining helped with writing computer programs. Their assistance is gratefully appreciated.

## DATA INDEXES

Indexes of surface-water and ground-water sites in and near selected coal mines in northwestern Colorado are listed in tables 2 through 5. The sites that are in the COALDATA data base, which contains only data that were collected by agencies other than the U.S. Geological Survey are listed in tables 2 and 4. The sites that are in the main U.S Geological Survey data base, which contains only data collected by the U.S Geological Survey are listed in tables 3 and 5. Data retrievals combining the U.S. Geological Survey files and COALDATA files can be combined into one output, since these two data bases use the same computer system. Locations of these sites are indicated in maps on plates 1 through 3.

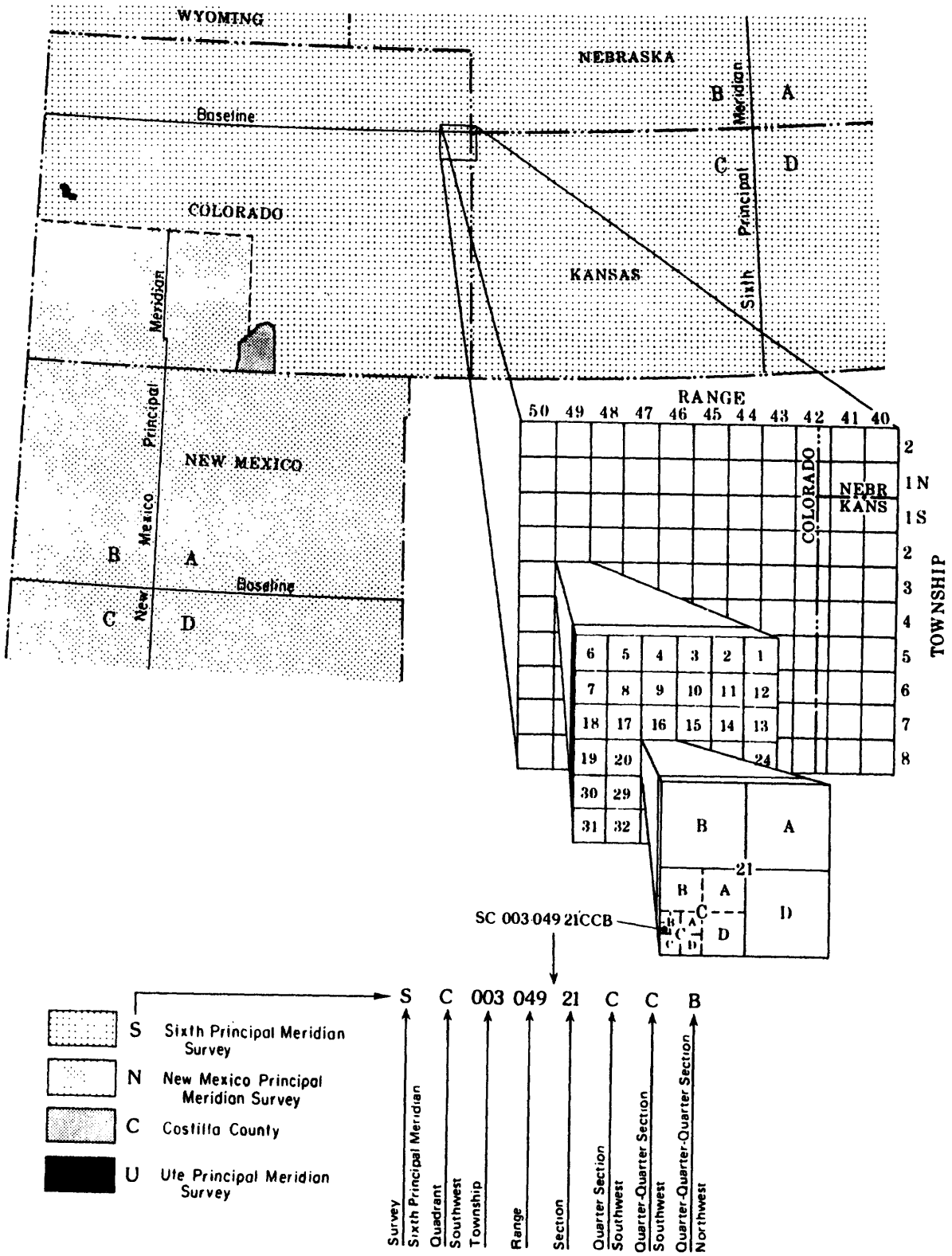


Figure 2.--Well-numbering system.

Table 2.--*Surface-water site descriptions and availability of data collected by agencies other than the U.S. Geological Survey*

[Site-ID, site identification, a unique number used to identify a site; datum, altitude above sea level of the reference mark used to measure the height of the stream; NPDES, National Pollutant Discharge Elimination System; Apx, Apex mine 2; Col, Colowyo strip mine; Egl, Eagle mines 5 and 9; Edn, Edna strip mine; Ekm, Eckman Park and Energy No. 1 & 2 strip mines; Egy, Energy No. 3 strip mine; Fis, Fish Creek tipple; Foi, Foidel Creek mine; Gra, Grassy Gap strip mine; Hyd, Hayden Gulch strip mine; Med, Meadows strip mine; GS, gaging station; C, chemical data only; X, data available; --, no data]

| Map number (plate 1) | Site identification in COALDATA data base | Station name | Township | Range | Section | Coal mine | Site ID used by mine | Datum (feet) | Site type | Availability of | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Flow data | Water-quality data |
| 1 | 401844107003501 | Trout Creek W of Edna Mine & U.S. paved county road | 4N | 86W | 23 | Apx | Downstream | 7,250 | -- | X | X |
| 2 | 401749107021001 | Trout Creek SW of property | 4N | 86W | 27 | Apx | Upstream | 7,440 | -- | X | X |
| 3 | 401510107472201 | NPDES 004, Gulch above Good Spring Creek | 3N | 93W | 02 | Col | NPDES004 | 6,640 | -- | X | X |
| 4 | 401819107481901 | E of Gossard Loadout, NPDES 003, Taylor Creek Drive | 4N | 93W | 22 | Col | NPDES003 | 6,400 | -- | X | X |
| 5 | 401601107490701 | NPDES 002, W of maintenance warehouse complex road | 4N | 93W | 34 | Col | NPDES002 | 7,190 | -- | X | X |
| 6 | 401539107471801 | NPDES 001, Good Spring Creek at Streeter Mine | 3N | 93W | 02 | Col | NPDES001 | 6,590 | -- | X | X |
| 7 | 401546107471701 | Good Spring Creek, lower site | 3N | 93W | 02 | Col | Goodspgl | 6,560 | -- | X | X |
| 8 | 401506107471601 | Good Spring Creek, upper site | 3N | 93W | 02 | Col | Goodspgu | 6,640 | -- | X | X |
| 9 | 401845107475701 | Taylor Creek, W of Gossard Ranch | 4N | 93W | 14 | Col | Taylorcr | 6,360 | -- | X | X |
| 10 | 402604107394301 | Yampa River, downstream | 6N | 92W | 36 | Egl | Y-1 | 6,130 | -- | -- | X |
| 11 | 402629107390401 | Yampa River, upstream | 6N | 91W | 30 | Egl | Y-2 | 6,160 | -- | -- | X |
| 12 | 402541107393901 | Yampa River, downstream | 6N | 92W | 36 | Egl | YS-2 | 6,115 | -- | -- | -- |
| 13 | 402851107365601 | Yampa River, upstream | 6N | 91W | 16 | Egl | YS-1 | 6,200 | -- | -- | -- |
| 14 | 402513107392501 | Williams Fork, upstream | 5N | 91W | 06 | Egl | WF-1 | 6,142 | GS | X | X |
| 15 | 402613107385701 | Williams Fork, downstream | 6N | 91W | 31 | Egl | WF-2 | 6,120 | GS | X | X |
| 16 | 402537107390601 | No. 5 Mine, coal seam F discharge | 6N | 91W | 31 | Egl | #5 Mine | 6,150 | -- | -- | X |
| 17 | 402555107384101 | No. 9 Mine, coal seam P discharge | 6N | 91W | 31 | Egl | #9 Mine | 6,315 | -- | -- | X |
| 18 | 402248106581701 | Trout Creek downstream | 5N | 85W | 19 | Edn | TR-D | 6,810 | C | -- | X |
| 19 | 402100106583001 | Trout Creek | 5N | 86W | 36 | Edn | TR-C | 6,950 | C | -- | X |
| 20 | 402014106585101 | Trout Creek | 4N | 86W | 12 | Edn | TR-B | 7,030 | C | -- | X |
| 21 | 401838107003901 | Trout Creek upstream | 4N | 86W | 23 | Edn | TR-A | 7,250 | C | -- | X |
| 22 | 401805106574101 | Oak Creek upstream | 4N | 85W | 19 | Edn | OK-A | 7,290 | C | -- | X |
| 23 | 401944106573101 | Oak Creek | 4N | 85W | 08 | Edn | OK-B | 7,160 | C | -- | X |
| 24 | 401900106573201 | Oak Creek NPDES 001 site | 4N | 85W | 18 | Edn | NPDES001 | 7,240 | -- | -- | -- |
| 25 | 401931106591701 | Drainage, Trout Creek NPDES 002 discharge site | 4N | 86W | 12 | Edn | NPDES002 | 7,120 | -- | -- | -- |
| 26 | 401939106590301 | Drainage, Trout Creek NPDES 003 discharge site | 4N | 86W | 12 | Edn | NPDES003 | 7,120 | -- | -- | -- |
| 27 | 401841107003701 | Knoll Flume discharge to Trout Creek upstream of Edna mine. | 4N | 86W | 23 | Edn | Knoll flume | 7,180 | -- | -- | -- |
| 28 | 402102107003701 | Homestead flume discharge to Trout Creek | 5N | 86W | 36 | Edn | Homestead | 7,010 | -- | -- | -- |
| 29 | 401825107002501 | Trout Creek upstream of Edna strip mine | 4N | 86W | 14 | Edn | TRa | 7,190 | GS | -- | -- |
| 30 | 402245106581701 | Trout Creek downstream of Edna strip mine | 5N | 85W | 19 | Edn | TRb | 6,780 | GS | -- | -- |
| 31 | 401840106573501 | Oak Creek at conveyer | 4N | 85W | 20 | Edn | OKa | 7,230 | GS | -- | -- |
| 32 | 402816107003901 | Trout Creek below mouth of Elk Creek | 6N | 86W | 14 | Ekm | Site 110 | 6,515 | -- | -- | -- |
| 33 | 402751107004901 | Elk Creek near Milner | 6N | 86W | 22 | Ekm | Site 68 | 6,540 | -- | -- | -- |
| 34 | 402524106582701 | Trout Creek near mouth | 5N | 85W | 06 | Ekm | Site 69 | 6,595 | GS | X | X |
| 35 | 402509106595001 | Fish Creek at Fish Creek tipple | 5N | 86W | 02 | Ekm | Site 28 | 6,590 | -- | -- | -- |

Table 2.--*Surface-water site descriptions and availability of data collected by agencies other than the U.S. Geological Survey*--Continued

| Map number (plate 1) | Site identification in COALDATA data base | Station name | Township | Range | Section | Coal mine | Site ID used by mine | Datum (feet) | Site type | Availability of: Flow data | Availability of: Water-quality data |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 36 | 402510107001101 | Near mouth of unnamed tributary to Fish Creek, at tipple. | 5N | 86W | 02 | Ekm | Site 65 | 6,800 | -- | -- | -- |
| 37 | 402954107024601 | Foidel Creek downstream from mine | 5N | 86W | 28 | Ekm | GS 2005 | 6,800 | GS | X | -- |
| 38 | 402101107033001 | Unnamed tributary to Foidel Creek, below spoil pile | 5N | 86W | 32 | Ekm | Site 109 | 6,930 | GS | -- | X |
| 39 | 402005107045601 | Unnamed tributary to Foidel Creek, near mouth | 5N | 86W | 07 | Ekm | Site 39 | 6,915 | GS | X | X |
| 40 | 402120107061601 | Fish Creek at Routt County highway 29 | 5N | 87W | 25 | Ekm | Site 16 | 6,810 | C | -- | X |
| 41 | 402307107021401 | Fish Creek - 26, downstream from mine | 5N | 86W | 16 | Ekm | GS 1002 | 6,670 | GS | X | X |
| 42 | 402140107030301 | Foidel Creek downstream from mine | 5N | 86W | 28 | Ekm | Site 8 | 6,814 | -- | X | X |
| 43 | 401939107051601 | S tributary to Foidel Creek | 4N | 86W | 07 | Ekm | Site 12 | 6,985 | -- | X | X |
| 44 | 402007107050401 | Foidel Creek upstream from mining operations | 4N | 86W | 07 | Ekm | Site 14 | 6,910 | -- | X | X |
| 45 | 401821107065801 | S tributary to Foidel Creek | 4N | 87W | 24 | Ekm | Site 33 | 7,580 | -- | X | X |
| 46 | 402108107033701 | Discharge point for pond D - (NPDES 005) | 5N | 86W | 32 | Ekm | Site 84 | -- | -- | X | -- |
| 47 | 402108107033801 | Water sampling site | 5N | 86W | 32 | Ekm | Site 83 | 6,865 | C | -- | X |
| 48 | 402105107033401 | Water sampling site | 5N | 86W | 32 | Ekm | Site 7 | 6,850 | F | -- | X |
| 49 | 402108107033701 | Discharge point for pond E - (NPDES 006) | 5N | 86W | 32 | Ekm | Site 85 | -- | -- | X | X |
| 50 | 402320106590501 | Middle Creek | 5N | 86W | 13 | Egy | Site 18 | 6,685 | C | -- | X |
| 51 | 402414106583101 | Middle Creek below confluence with Foidel Creek | 5N | 86W | 12 | Egy | Site 29 | 6,645 | -- | X | X |
| 52 | 402320106585201 | Old sediment pond site SE of Middle Creek | 5N | 86W | 13 | Egy | Site 99 | 6,690 | -- | X | -- |
| 53 | 402351106584501 | Effluent monitoring site, Middle Creek Mine | 5N | 86W | 12 | Egy | Site 24 | 6,660 | -- | X | X |
| 54 | 402341106584701 | Effluent monitoring site, mine no. 3 | 5N | 86W | 13 | Egy | Site 76 | 6,665 | -- | X | X |
| 55 | 402511106594701 | 27A Fish Creek upstream | 5N | 86W | 02 | Fis | Site 27A | 6,595 | -- | -- | X |
| 56 | 402510106594401 | Pond E outlet at Fish Creek tipple | 5N | 86W | 02 | Fis | Site 62 | 6,610 | -- | -- | X |
| 57 | 402534106585301 | Fish Creek downstream | 5N | 86W | 01 | Fis | GS 1003 | 6,510 | GS | X | X |
| 58 | 402003107081601 | Fish Creek | 4N | 87W | 11 | Foi | GS 1001 | 6,920 | GS | X | X |
| 59 | 402000107104901 | E tributary to Foidel Creek | 4N | 86W | 07 | Foi | Sed Pond A | 6,930 | -- | -- | X |
| 60 | 402330107082101 | Grassy Creek Culvert at County Road | 5N | 87W | 15 | Gra | SW-1 | 7,050 | -- | -- | X |
| 61 | 402312107092201 | Grassy Creek downstream | 5N | 87W | 21 | Gra | SW-4 | 7,040 | -- | -- | X |
| 62 | 402306107092401 | Tributary to Grassy Creek | 5N | 87W | 21 | Gra | SW-8 | 7,058 | -- | -- | X |
| 63 | 402217107100601 | Grassy Creek | 5N | 87W | 20 | Gra | SW-2 | 7,170 | -- | -- | X |
| 64 | 402217107095901 | Tributary to Grassy Creek | 5N | 87W | 29 | Gra | SW-7 | 7,250 | -- | -- | X |
| 65 | 402120107104201 | West Fork Grassy Creek SE of Pit 5 | 5N | 87W | 32 | Gra | SW-6 | 7,515 | -- | -- | X |
| 66 | 402131107104001 | West Fork Grassy Creek | 5N | 87W | 32 | Gra | SW-5 | 7,450 | -- | -- | X |
| 67 | 402139107103701 | West Fork Grassy Creek | 5N | 87W | 29 | Gra | SW-10 | 7,425 | -- | -- | X |
| 68 | 402135107102201 | East Fork Grassy Creek | 5N | 87W | 29 | Gra | SW-3 | 7,455 | -- | -- | X |
| 69 | 402141107101001 | Pond S of Pit 2 | 5N | 87W | 29 | Gra | SW-9 | 7,690 | -- | -- | X |
| 70 | 402857107144801 | Dry Creek, downstream, tipple area | 6N | 88W | 14 | Hyd | SW Down | 6,470 | -- | X | X |

Table 2.--*Surface-water site descriptions and availability of data collected by agencies other than the U.S. Geological Survey*--Continued

| Map(1) number | Site identification in COALDATA data base | Station name | Township | Range | Section | Coal mine | Site ID used by mine | Datum (feet) | Site type | Availability of: Flow data | Availability of: Water-quality data |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 71 | 402726107154001 | Dry Creek, upstream, tipple area | 6N | 88W | 22 | Hyd | SW Up | 6,485 | -- | X | X |
| 72 | 402202107174601 | Hayden Gulch upstream | 5N | 88W | 30 | Hyd | Upstream | 7,475 | -- | X | X |
| 73 | 402201107175001 | Settling pond S of shopping area | 5N | 88W | 30 | Hyd | 003 | 7,440 | -- | -- | -- |
| 74 | 402159107180001 | Pond, area A | 5N | 88W | 30 | Hyd | 002 | 7,550 | -- | -- | -- |
| 75 | 402159107180801 | Settling pond NE of explosives area | 5N | 88W | 30 | Hyd | 001 | 7,600 | -- | -- | -- |
| 76 | 402151107175701 | Pond HG-8 | 5N | 88W | 30 | Hyd | 004 | 7,400 | -- | -- | -- |
| 77 | 402151107175901 | Downstream sampling site, Hayden Gulch | 5N | 88W | 30 | Hyd | Downstream | 7,370 | -- | X | X |
| 78 | 402129107175501 | Settling pond HG-5 | 5N | 88W | 31 | Hyd | 005 | 7,595 | -- | -- | -- |
| 79 | 402156107175601 | Facilities downstream site | 5N | 88W | 30 | Hyd | FAC DS | 7,420 | -- | X | X |
| 80 | 402642107153401 | Dry Creek upstream of H.G. tipple and Dill Gulch | 6N | 88W | 28 | Hyd | S7 | 6,470 | -- | X | X |
| 81 | 402004107183201 | Dowden Gulch, below H.G. mine | 4N | 88W | 08 | Hyd | S1 | 7,140 | -- | X | X |
| 82 | 401857107194601 | Dowden Gulch at mouth | 4N | 88W | 13 | Hyd | S2 | 6,840 | -- | -- | X |
| 83 | 402004107202201 | Hayden Gulch downstream of mine | 5N | 89W | 36 | Hyd | S3 | 7,160 | -- | X | X |
| 84 | 401914107204201 | Hayden Gulch at mouth | 4N | 89W | 13 | Hyd | S4 | 6,720 | -- | X | X |
| 85 | 402855107070501 | Yampa River upstream of Meadows strip mine | 6N | 87W | 14 | Med | Upstream | 6,420 | GS | -- | X |
| 86 | 402859107065601 | Yampa River downstream of Meadows strip mine | 6N | 87W | 14 | Med | Downstream | 6,425 | GS | -- | X |
| 87 | 402811107062001 | Coal View Gulch, 1 mile above mouth | 6N | 87W | 24 | Med | -- | 6,740 | -- | -- | -- |
| 88 | 402759107062301 | Outflow from sediment pond | 6N | 87W | 23 | Med | -- | 7,160 | -- | -- | -- |
| 89 | 402743107062701 | Outflow from sediment pond no. 1 | 6N | 87W | 23 | Med | -- | 7,400 | -- | -- | -- |
| 90 | 402733107063501 | Spring | 6N | 87W | 23 | Med | -- | 7,200 | -- | -- | -- |
| 91 | 402712107063201 | Outflow from sediment pond no. 3 | 6N | 87W | 26 | Med | -- | 7,300 | -- | -- | -- |
| 92 | 402706107063401 | Outflow from sediment pond | 6N | 87W | 26 | Med | -- | 7,210 | -- | -- | -- |
| 93 | 402655107065501 | Unnamed tributary to Grassy Creek, downstream of mine. | 6N | 87W | 26 | Med | -- | 7,020 | -- | -- | -- |

Table 3.--*Surface-water site descriptions and availability of data collected by the U.S. Geological Survey*

[Datum, altitude above sea level of the reference mark used to measure the height of the stream; GS, gaging station; SM, surface-water measuring site; QW, water-quality sampling site; X, data available; --, no data]

| Map number (plate 1) | Site identification in COALDATA data base | Station name | Township | Range | Section | Datum (feet) | Site type | Availability of | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Flow data | Water-quality data |
| 94 | 09238000 | Oak Creek near Oak Creek | 3N | 85W | 06 | 7,850 | GS | X | X |
| 95 | 09239500 | Yampa River at Steamboat Springs | 6N | 84W | 17 | 6,695 | GS | X | X |
| 96 | 09243700 | Middle Creek near Oak Creek | 5N | 86W | 13 | 6,720 | GS | X | X |
| 97 | 09243800 | Foidel Creek near Oak Creek | 5N | 86W | 31 | 6,880 | GS | X | X |
| 98 | 09243900 | Foidel Creek at mouth, near Oak Creek | 5N | 86W | 14 | 6,695 | GS | X | X |
| 99 | 09244100 | Fish Creek near Milner | 5N | 87W | 34 | 6,911 | GS | X | X |
| 100 | 09244300 | Grassy Creek near Mount Harris | 6N | 87W | 34 | 6,580 | GS | X | X |
| 101 | 09244410 | Yampa River below diversion, near Hayden | 6N | 87W | 09 | 6,380 | GS | X | X |
| 102 | 09244415 | Sage Creek above Sage Creek reservoir, near Hayden | 5N | 87W | 19 | 7,220 | GS | X | X |
| 103 | 09244460 | Watering Trough Gulch near Hayden | 5N | 88W | 20 | 6,920 | GS | X | X |
| 104 | 09244464 | Hubberson Gulch near Hayden | 5N | 88W | 16 | 6,780 | GS | X | X |
| 105 | 09244470 | Stokes Gulch near Hayden | 6N | 88W | 22 | 6,375 | GS | X | X |
| 106 | 09246550 | Yampa River below Elkhead Creek, near Craig | 6N | 90W | 08 | 6,845 | GS | X | X |
| 107 | 09247600 | Yampa River below Craig | 6N | 91W | 09 | -- | GS | X | X |
| 108 | 09248600 | East Fork of Williams Fork above Willow Creek | 3N | 88W | 05 | 7,100 | GS | X | X |
| 109 | 09249000 | East Fork Williams Fork near Pagoda | 4N | 88W | 18 | 6,840 | GS | X | X |
| 110 | 09249200 | South Fork Williams Fork near Pagoda | 3N | 90W | 24 | 7,235 | GS | X | X |
| 111 | 09249450 | Waddle Creek near Pagoda | 4N | 90W | 21 | 7,035 | GS | X | X |
| 112 | 09249455 | Deep Rock Gulch near Hamilton | 4N | 90W | 20 | 7,005 | GS | X | X |
| 113 | 09249750 | Williams Fork at mouth, near Hamilton | 6N | 91W | 31 | 6,118 | SM | X | X |
| 114 | 09250000 | Milk Creek near Thornburgh | 3N | 92W | 32 | 6,599 | GS | X | X |
| 115 | 09250400 | Good Spring Creek at Axial | 4N | 93W | 26 | 6,390 | SM | X | X |
| 116 | 09250507 | Wilson Creek above Taylor Creek, near Axial | 4N | 93W | 14 | 6,315 | SM | X | X |
| 117 | 09250510 | Taylor Creek at mouth, near Axial | 4N | 93W | 14 | 6,300 | SM | X | X |
| 118 | 09250600 | Wilson Creek near Axial | 4N | 93W | 14 | 6,300 | SM | X | X |
| 119 | 09250610 | Jubb Creek near Axial | 4N | 93W | 16 | 6,400 | GS | X | X |
| 120 | 09250700 | Morgan Gulch near Axial | 5N | 93W | 31 | 6,330 | GS | X | X |
| 121 | 09251000 | Yampa River near Maybell | 6N | 95W | 02 | 5,900 | GS | X | X |
| 122 | 401601107375400 | Morapos Creek near Iles Grove | 3N | 91W | | -- | QW | -- | X |
| 123 | 401601107395300 | Stinking Gulch near Thornburgh | 4N | 92W | 36 | -- | QW | -- | X |

Table 3.--*Surface-water site descriptions and availability of data collected by the U.S. Geological Survey*--Continued

| Map number (plate 1) | Site identification in COALDATA data base | Station name | Township | Range | Section | Datum (feet) | Site type | Availability of | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Flow data | Water-quality data |
| 124 | 401747107161600 | Willow Creek near Dunckley | 4N | 88W | 22 | -- | QW | -- | X |
| 125 | 401816107011000 | Trout Creek near Oak Creek | 4N | 86W | 23 | -- | QW | -- | X |
| 126 | 401829107375600 | Deer Creek near Hamilton | 4N | 91W | 20 | -- | QW | -- | X |
| 127 | 401857107243500 | South Fork Williams Fork at mouth, near Pagoda | 4N | 89W | 17 | -- | QW | -- | X |
| 128 | 401913107204100 | Hayden Gulch near Pagoda | 4N | 89W | 13 | -- | QW | -- | X |
| 129 | 401925107523500 | Collum Gulch near Axial | 4N | 93W | 06 | -- | QW | -- | X |
| 130 | 401944107322900 | Waddle Creek near Hamilton | 4N | 90W | 07 | -- | QW | -- | X |
| 131 | 401948107445600 | Milk Creek near Iles Grove | 4N | 92W | 07 | -- | QW | -- | X |
| 132 | 402038107585100 | Maudlin Gulch near Axial | 4N | 95W | 01 | -- | QW | -- | X |
| 133 | 402145108001000 | Jesse Gulch near Axial | 5N | 95W | 24 | -- | QW | -- | X |
| 134 | 402330107082000 | Grassy Creek at Grassy Gap | 5N | 87W | 15 | -- | QW | -- | X |
| 135 | 402409107503600 | Morgan Gulch near mouth, near Axial | 5N | 93W | 09 | -- | QW | -- | X |
| 136 | 402530106585700 | Fish Creek at mouth, near Milner | 5N | 86W | 01 | -- | QW | -- | X |
| 137 | 402605107181500 | Dill Gulch near Hayden | 5N | 89W | 02 | -- | QW | -- | X |
| 138 | 402720106591200 | Trout Creek above Milner | 6N | 86W | 25 | -- | QW | -- | X |
| 139 | 402829107193700 | Smuin Gulch near Hayden | 6N | 89W | 14 | -- | QW | -- | X |
| 140 | 402836106550100 | Cow Creek near Steamboat Springs | 6N | 85W | 21 | -- | QW | -- | X |
| 141 | 402845107185100 | Smuin tributary creek near Hayden | 6N | 89W | 24 | -- | QW | -- | X |
| 142 | 402911107323600 | Flume Gulch near Craig | 6N | 90W | 18 | -- | QW | -- | X |
| 143 | 401650107291501 | Waddle Creek No. 2 | 4N | 90W | 27 | 7,300 | QW | -- | X |
| 144 | 401734107302801 | Waddle Creek No. 5 | 4N | 90W | 28 | 7,035 | QW | -- | X |
| 145 | 401753107305701 | Waddle Creek No. 10 | 4N | 90W | 21 | 6,980 | QW | -- | X |
| 146 | 401807107310501 | Waddle Creek No. 12 | 4N | 90W | 21 | 6,940 | QW | -- | X |
| 147 | 401816107311601 | Waddle Creek No. 13 | 4N | 90W | 20 | 6,900 | QW | -- | X |
| 148 | 401847107314601 | Waddle Creek No. 15 (Hart Gulch near mouth) | 4N | 90W | 17 | 6,820 | QW | -- | X |
| 149 | 402000107315601 | Waddle Creek No. 17 | 4N | 90W | 08 | 6,620 | QW | -- | X |
| 150 | 401608107304601 | Deep Rock Gulch No. 2 | 4N | 90W | 33 | 7,780 | QW | -- | X |
| 151 | 401731107312101 | Deep Rock Gulch No. 5 | 4N | 90W | 29 | 7,120 | QW | -- | X |
| 152 | 401732107312201 | Deep Rock Gulch No. 6 (Stinky Tributary) | 4N | 90W | 29 | 7,120 | QW | -- | X |
| 153 | 401733107312201 | Deep Rock Gulch No. 7 | 4N | 90W | 29 | 7,100 | QW | -- | X |
| 154 | 401532107340401 | North Fork Deer Creek | 3N | 91W | 01 | 7,220 | QW | -- | X |
| 155 | 401529107273501 | HSP1 (pond) | 3N | 90W | 02 | 7,900 | QW | -- | X |

Table 4.--*Ground-water site descriptions and availability of data collected by agencies other than the U.S. Geological Survey*

[Site-ID, site identification, a unique number used to identify a site; Datum, altitude above sea level of the reference mark used to measure the height of the stream; Apx, Apex mine number 2; Col, Colowyo strip mine; Edn, Edna strip mine; Egl, Eagle mines 5 and 9; Egy, Energy No. 3 strip mine; Ekm, Eckman Park and Energy No. 1 & 2 strip mines; Fis, Fish Creek tipple; Foi, Foidel Creek mine; Gra, Grassy Gap strip mine; Hyd, Hayden Gulch strip mine; Med, Meadows strip mine; X, data available; --, no data]

| Map number (plate 2) | Site identification in COALDATA data base | Local well number (see fig. 2) | Latitude | Longitude | Mine | Site-ID used by mine | Datum (feet) | Availability of | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Water-level data | Water-quality data | Well-construction data |
| 1 | 401902107002001 | SB00408614DBB | 40°19'02" | 107°00'20" | Apx | SEC14NWSE | 7,180 | -- | X | X |
| 2 | 401753107020101 | SB00408622CCC | 40°27'53" | 107°02'17" | Apx | SEC22SWSW | 7,420 | -- | X | X |
| 3 | 401541107472201 | SB00309302ACB | 40°15'41" | 107°47'22" | Col | 6600N | 6,580 | X | X | -- |
| 4 | 401533107472101 | SB00309302ACD | 40°15'33" | 107°47'21" | Col | 6600S | 6,590 | X | X | -- |
| 5 | 401539107473401 | SB00309302BDA | 40°15'33" | 107°47'21" | Col | 6900N | 6,700 | X | X | -- |
| 6 | 401535107473301 | SB00309302BDD | 40°15'35" | 107°47'33" | Col | 6900S | 6,760 | X | X | -- |
| 7 | 401832107482701 | SB00409315DDC | 40°18'32" | 107°48'27" | Col | GOSSARD WL | 6,370 | X | X | -- |
| 8 | 402204106582701 | SB00508519BAC | 40°22'04" | 106°58'27" | Edn | TR-4 | 6,900 | -- | X | X |
| 9 | 402103106583001 | SB00508636AAD | 40°21'03" | 106°58'30" | Edn | TR-3 | 6,920 | -- | X | X |
| 10 | 402017106585101 | SB00408612AAC | 40°20'17" | 106°58'51" | Edn | TR-2 | 7,050 | -- | X | X |
| 11 | 401909107000201 | SB00408614 | 40°19'09" | 107°00'02" | Edn | TR-1.5 | 7,160 | -- | X | X |
| 12 | 401904107001101 | SB00408614DAB | 40°19'04" | 107°00'11" | Edn | TR-1 | 7,160 | -- | X | X |
| 13 | 401917106573101 | SB00408517BCC | 40°19'17" | 106°57'31" | Edn | OK-2 | 7,210 | -- | X | X |
| 14 | 401802106574201 | SB00408519DDA | 40°18'02" | 106°57'42" | Edn | OK-1 | 7,280 | -- | X | X |
| 15 | 402540107391801 | SB00609131CCC | 40°25'40" | 107°39'18" | Egl | #5MINEWELL | 6,190 | -- | X | X |
| 16 | 402540107391802 | SB00509106CA | 40°25'40" | 107°39'18" | Egl | #5A WELL | 6,190 | -- | X | X |
| 17 | 402525107381301 | SB00509106AAD | 40°25'25" | 107°38'13" | Egl | OKIE PLAZA | 6,552 | -- | X | X |
| 18 | 402645107373601 | SB00609129DBC | 40°25'45" | 107°37'36" | Egl | TR-4 | 6,304 | -- | X | X |
| 19 | 402628107385801 | SB00609131BAB | 40°26'28" | 107°38'58" | Egl | TR-7A | 6,220 | -- | X | X |
| 20 | 402546107381401 | SB00609131DDA | 40°25'46" | 107°38'14" | Egl | 81-01 | 6,413 | -- | X | X |
| 21 | 402614107385101 | SB00609131BDA | 40°26'14" | 107°38'51" | Egl | 83-01 | 6,173 | -- | X | X |
| 22 | 402534107371201 | SB00509105AAA | 40°25'34" | 107°37'12" | Egl | 83-02 | 6,683 | -- | X | X |
| 23 | 402740107382701 | SB00609119DAC | 40°27'40" | 107°38'27" | Egl | 83-03 | 6,131 | -- | X | X |
| 24 | 402615107385401 | SB00609131BAD | 40°26'15" | 107°38'54" | Egl | 259 | 6,128 | -- | X | X |
| 25 | 402644107373601 | SB00609129DCB | 40°26'44" | 107°37'36" | Egl | 84-01 | 6,307 | -- | X | X |
| 26 | 402608107380401 | SB00609132BCA | 40°26'08" | 107°38'04" | Egl | #9MINEWELL | 6,383 | -- | X | -- |
| 27 | 402706107372901 | SB00609129ACB | 40°27'06" | 107°37'39" | Egl | 81-03A | 6,227 | -- | -- | -- |
| 28 | 402725107391001 | SB00609119CDD | 40°27'25" | 107°39'10" | Egl | 81-04A | 6,378 | -- | X | X |
| 29 | 402818107375201 | SB00609117CDC | 40°28'18" | 107°37'52" | Egl | 81-19 | 6,138 | -- | X | X |
| 30 | 402631107374401 | SB00609129CDD | 40°26'31" | 107°37'44" | Egl | NORTHSPRNG | 6,310 | -- | X | Spring |
| 31 | 402636107401601 | SB00609125BAC | 40°26'36" | 107°40'16" | Egl | HAXTONSPRG | 6,600 | -- | X | Spring |
| 32 | 402613107385101 | SB00609131BDA | 40°26'13" | 107°38'51" | Egl | #1STRIPPIT | 6,170 | -- | X | Spring |
| 33 | 402746107381901 | SB00609119DAA | 40°27'46" | 107°38'19" | Egl | YAW-1 | 6,130 | -- | X | X |
| 34 | 402732107382701 | SB00609119DDB | 40°27'32" | 107°38'27" | Egl | YAW-2 | 6,130 | -- | X | X |
| 35 | 402706107380101 | SB00609129BCA | 40°27'06" | 107°38'01" | Egl | YAW-3 | 6,130 | -- | X | X |
| 36 | 402718107383801 | SB00609130ABA1 | 40°27'18" | 107°38'38" | Egl | YAW-5 | 6,130 | -- | X | X |
| 37 | 402718107383601 | SB00609130ABA2 | 40°27'18" | 107°38'36" | Egl | YAW-6 | 6,130 | -- | X | X |
| 38 | 402550107385901 | SB00609131CAC | 40°25'50" | 107°38'59" | Egl | AVF-3 | 6,135 | -- | X | X |
| 39 | 402601107385401 | SB00609131BDD | 40°26'01" | 107°39'18" | Egl | AVF-5 | 6,135 | -- | X | X |
| 40 | 402535107391801 | SB00509106BBB | 40°25'35" | 107°39'18" | Egl | AVF-6 | 6,140 | -- | X | -- |
| 41 | 402327106585601 | SB00508613 | 40°23'27" | 106°58'56" | Egy | 008-AV-1 | 6,679 | -- | X | X |
| 42 | 402345106585301 | SB00508613ABC | 40°23'45" | 106°58'53" | Egy | 008-AV-2 | 6,676 | -- | X | X |
| 43 | 402344106585101 | SB00508613 | 40°23'44" | 106°58'51" | Egy | 008-AV-3 | 6,676 | -- | X | X |
| 44 | 402343106585001 | SB00508613 | 40°23'43" | 106°58'50" | Egy | 008-AV-4 | 6,676 | -- | X | X |
| 45 | 402414106583001 | SB00508612 | 40°24'14" | 106°58'30" | Egy | 008-AX-1 | 6,655 | -- | X | X |
| 46 | 402344106585901 | SB00508613 | 40°23'44" | 106°58'59" | Egy | 008-FM-6 | 6,673 | -- | X | X |
| 47 | 402339106585601 | SB00508613ABD | 40°23'39" | 106°58'56" | Egy | 008-77-35 | 6,673 | -- | X | X |
| 48 | 402313106585501 | SB00508613DBC | 40°23'13" | 106°58'55" | Egy | 008-77-42 | 6,741 | -- | X | X |
| 49 | 402313106584701 | SB00508613DCA | 40°23'13" | 106°58'47" | Egy | 008-77-43 | 6,714 | -- | X | X |
| 50 | 402320106584501 | SB00508613DBA | 40°23'20" | 106°58'45" | Egy | 008-77-58 | 6,720 | -- | X | X |

Table 4.--*Ground-water site descriptions and availability of data collected by agencies other than the U.S. Geological Survey*--Continued

| Map number (plate 2) | Site identification in COALDATA data base | Local well number (see fig. 2) | Latitude | Longitude | Mine | Site-ID used by mine | Datum (feet) | Availability of | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Water-level data | Water-quality data | Well-construction data |
| 51 | 402344106585801 | SB00508613ABC1 | 40°23'44" | 106°58'58" | Egy | 008-79-6 | 6,676 | -- | X | X |
| 52 | 402346106585901 | SB00508613ABC2 | 40°23'46" | 106°58'59" | Egy | 008-79-7 | 6,696 | -- | X | X |
| 53 | 402341106584201 | SB00508613 | 40°23'41" | 106°58'42" | Egy | 008-AY-2 | 6,680 | -- | X | -- |
| 54 | 402509107003001 | SB00508602 | 40°25'09" | 107°00'30" | Egy | 008-AU-1 | 6,616 | -- | X | X |
| 55 | 402136107060101 | SB00508725CCA | 40°21'36" | 107°06'01" | Ekm | 006-AW-1 | 6,785 | -- | X | -- |
| 56 | 402300107033301 | SB00508616DCA | 40°23'00" | 107°03'33" | Ekm | 006-AW-2 | 6,690 | -- | X | -- |
| 57 | 402002107050301 | SB00408607BDB | 40°20'02" | 107°05'03" | Ekm | 009-S-10 | 6,905 | -- | X | -- |
| 58 | 401926107053201 | SB00408618BCC | 40°19'26" | 107°05'32" | Ekm | 026-SP-1 | 7,080 | -- | X | -- |
| 59 | 401951107045101 | SB00408607DBA | 40°19'51" | 107°04'51" | Ekm | 026-SP-2 | 6,990 | -- | X | -- |
| 60 | 401854107061201 | SB00408713DDC | 40°18'54" | 107°06'12" | Ekm | 026-SP-3 | 7,270 | -- | X | X |
| 61 | 401828107065901 | SB00408724BCA | 40°18'28" | 107°06'59" | Ekm | 026-BRDH-1 | 7,530 | -- | X | X |
| 62 | 401935107053201 | SB00408618BBB | 40°19'35" | 107°05'32" | Ekm | 026-79-4 | 7,087 | -- | X | -- |
| 63 | 401902107061901 | SB00408713DBD | 40°19'02" | 107°06'19" | Ekm | 026-79-6 | 7,290 | -- | X | -- |
| 64 | 401844107064101 | SB00408713CCD | 40°18'44" | 107°06'41" | Ekm | 026-79-7 | 7,358 | -- | X | X |
| 65 | 401955107043401 | SB00408607DAA | 40°19'55" | 107°04'34" | Ekm | 009-79-4 | 7,003 | -- | X | -- |
| 66 | 402357106585101 | SB00508612 | 40°23'57" | 106°58'51" | Ekm | 008-AY-1 | 6,680 | -- | X | -- |
| 67 | 402507107002901 | SB00508602 | 40°25'07" | 107°00'29" | Fis | 008-AU-2 | 6,610 | -- | X | X |
| 68 | 402504107002801 | SB00508602CCA | 40°25'04" | 107°00'28" | Fis | 008-AU-3 | 6,608 | -- | X | X |
| 69 | 402501107003701 | SB00508602 | 40°25'01" | 107°00'27" | Fis | 008-AU-4 | 6,608 | -- | -- | -- |
| 70 | 402458107002701 | SB00508602 | 40°24'58" | 107°00'27" | Fis | 008-AU-5 | 6,609 | -- | X | X |
| 71 | 402456107002601 | SB00508602 | 40°24'56" | 107°00'26" | Fis | 008-AU-6 | 6,610 | -- | X | X |
| 72 | 402511106594501 | SB00508602DAB | 40°25'11" | 106°59'45" | Fis | 008-AW-3 | 6,595 | -- | X | X |
| 73 | 402245107052901 | SB00508724ACA | 40°22'45" | 107°05'29" | Foi | 006-81-30 | 6,780 | -- | X | X |
| 74 | 402244107041601 | SB00508619AAC | 40°22'44" | 107°04'16" | Foi | 006-81-31 | 6,805 | -- | X | -- |
| 75 | 402211107041801 | SB00508619DDC | 40°22'11" | 107°04'18" | Foi | 006-82-38 | 7,080 | -- | X | X |
| 76 | 402143107041801 | SB00508630ADC1 | 40°21'43" | 107°04'18" | Foi | 006-82-48 | 7,300 | -- | X | X |
| 77 | 402143107041802 | SB00508630ADC2 | 40°21'43" | 107°04'18" | Foi | 006-82-48A | 7,300 | -- | X | X |
| 78 | 402141107031201 | SB00508628BCB | 40°21'41" | 107°03'17" | Foi | 001-S-5 | 6,817 | -- | X | X |
| 79 | 402114107033601 | SB00508629DCD | 40°21'14" | 107°03'36" | Foi | 001-S-6 | 6,830 | -- | X | X |
| 80 | 402147107102801 | SB00508729 | 40°21'47" | 107°10'28" | Gra | MW-1 | 7,370 | -- | X | -- |
| 81 | 402220107100401 | SB00508720 | 40°22'20" | 107°10'04" | Gra | MW-2 | 7,230 | -- | X | -- |
| 82 | 402308107092501 | SB00508716 | 40°23'08" | 107°09'25" | Gra | MW-3 | 7,052 | -- | X | -- |
| 83 | 402148107100601 | SB00508729 | 40°21'48" | 107°10'06" | Gra | PIT2 SPOIL | 7,670 | -- | X | -- |
| 84 | 402124107104801 | SB00508729 | 40°21'24" | 107°10'48" | Gra | PIT5 SPOIL | 7,595 | -- | X | X |
| 85 | 402204107180501 | SB00508830ACA1 | 40°22'04" | 107°18'05" | Hyd | LC-2 | 7,560 | -- | X | -- |
| 86 | 402204107180502 | SB00508830ACA2 | 40°22'04" | 107°18'05" | Hyd | UC-2 | 7,560 | -- | X | -- |
| 87 | 402203107174601 | SB00508830BAB1 | 40°22'03" | 107°17'46" | Hyd | LC-1 | 7,475 | -- | X | -- |
| 88 | 402203107174602 | SB00508830BAB2 | 40°22'03" | 107°17'46" | Hyd | UC-1 | 7,475 | -- | X | -- |
| 89 | 402154107175601 | SB00508830DBB | 40°21'54" | 107°17'56" | Hyd | LC-4 | 7,425 | -- | X | -- |
| 90 | 402144107174201 | SB00508830DDD | 40°21'44" | 107°17'42" | Hyd | UC-3 | 7,530 | -- | X | -- |
| 91 | 402157107180901 | SB00508830BCA | 40°21'57" | 107°18'09" | Hyd | LC-3 | 7,655 | -- | X | -- |
| 92 | 402814107143901 | SB00608822BA | 40°28'14" | 107°14'39" | Hyd | UPDIP WELL | 6,380 | -- | X | -- |
| 93 | 402815107142201 | SB00608815DD | 40°28'15" | 107°14'22" | Hyd | DWNDIPWELL | 6,380 | -- | X | -- |
| 94 | 402854107070001 | SB00608714BDA | 40°28'54" | 107°07'00" | Med | CRUSH WELL | 6,400 | -- | X | X |
| 95 | 402900107070401 | SB00608714BAC | 40°29'00" | 107°07'04" | Med | TRAIL WELL | 6,480 | -- | -- | -- |

Table 5.--*Ground-water site descriptions and availability of data collected by the U.S. Geological Survey*

[Datum, altitude of land surface above sea level; USGS, U.S. Geological Survey; BLM, U.S. Bureau of Land Management; CONSOL, Consolidation Coal Company; X, data available; --, no data]

| Map number (plate 3) | Site identification in COALDATA data base | Local well number (see fig. 2) | Datum[1] (feet) | Depth of well below land surface (feet) | Owner | Availability of | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Water-level data | Water-quality data | Well-construction data |
| 1 | 401500107363401 | SB00309109AAC | 7,150 | 8.00 | Hill Forbes | X | -- | X |
| 2 | 401500107431401 | SB00309209BAD | 6,930 | 30.0 | Jim Leander | X | X | X |
| 3 | 401503107363901 | SB00309109ABA1 | -- | 29.0 | J. Cooper | X | X | X |
| 4 | 401503107460101 | SB00309312AAB | 6,810 | -- | Harry Kourlis | X | -- | X |
| 5 | 401506107474401 | SB00309302CDC | 7,160 | -- | -- | X | -- | X |
| 6 | 401508107485401 | SB00309303DCC | 7,360 | -- | -- | X | -- | X |
| 7 | 401510107483101 | SB00309310DCC | 7,340 | 198 | USGS | X | -- | X |
| 8 | 401516107475000 | SB00309303CDB | -- | -- | U.S. Government | X | X | -- |
| 9 | 401535107472001 | SB00309302ACC | 6,800 | -- | -- | X | -- | X |
| 10 | 401539107472601 | SB00309302ACB | -- | 30.0 | Colowyo Coal Co. | X | X | X |
| 11 | 401619107485401 | SB00309303CAC | 7,200 | 36.0 | -- | X | -- | X |
| 12 | 401622107320201 | SB00409032BCD | 7,920 | 600 | -- | X | -- | X |
| 13 | 401708107473301 | SB00409326CAD | 6,470 | 27.0 | Walter Mack | X | -- | X |
| 14 | 401729107312701 | SB00409029ABA | 7,200 | -- | Phillips Petroleum | X | -- | X |
| 15 | 401741107453901 | SB00409230BBC | 6,300 | 30.0 | Jim Leander | X | -- | X |
| 16 | 401801107470301 | SB00409323DAC | -- | 11.0 | Tom Wheeler | X | X | X |
| 17 | 401806107470901 | SB00409323DAB | -- | 120 | Tom Wheeler | X | -- | X |
| 18 | 401829107440501 | SB00409220ABC | 6,400 | 63.0 | Tom Moore | X | -- | X |
| 19 | 401833107333501 | SB00409113DCC | 7,270 | 500 | -- | X | -- | X |
| 20 | 401838107411601 | SB00409223BBB | -- | 2,930 | Texaco Oil Co. | X | -- | X |
| 21 | 401847107314801 | SB00409017CAD | 6,830 | -- | H. Tuttle | X | -- | X |
| 22 | 401854107474901 | SB00409314CBD | 6,310 | 70.0 | Bill Gossard | X | X | X |
| 23 | 401855107351401 | SB00409115DAD | 7,240 | -- | Phillips Petroleum | X | -- | X |
| 24 | 401857107385201 | SB00409118DDB | 6,430 | -- | Al Camilletti | X | -- | X |
| 25 | 401906107472901 | SB00409314BDD1 | -- | 100 | Bill Gossard | X | X | X |
| 26 | 401943107392401 | SB00409212DCA | -- | 150 | Al Camilletti | X | -- | X |
| 27 | 401944107352901 | SB00409110DDB | 7,020 | -- | Phillips Petroleum | X | -- | X |
| 28 | 401944107464901 | SB00409312CBC | -- | 30.0 | Bill Gossard | X | -- | X |
| 29 | 401953107384701 | SB00409107DDB | 6,380 | 49.0 | H. Rakestraw | X | -- | X |
| 30 | 402001107481301 | SB00509335CDC | 6,310 | 70.0 | -- | X | -- | X |
| 31 | 402013107374901 | SB00509132CDA | -- | 380 | Al Camilletti | X | -- | X |
| 32 | 402019107385301 | SB00509131DBB | 6,490 | -- | Moffat County | X | -- | X |
| 33 | 402049107325001 | SB00509136AAA | 6,800 | 205 | Durham Livestock Co. | X | X | X |
| 34 | 402116107361801 | SB00509128DAC | -- | -- | Myron Jeffcoat | X | -- | X |
| 35 | 402123107365301 | SB00509128CAB | -- | 12.0 | J.E. Carpenter | X | -- | X |
| 36 | 402129107265201 | SB00509025BCD1 | 6,600 | 5.00 | L. Seeley | X | -- | X |
| 37 | 402146107294601 | SB00509028ABA1 | 6,420 | 12.0 | D. Seeley | X | -- | X |
| 38 | 402201107304601 | SB00509020DDB | 6,370 | 30.0 | Hamilton | X | -- | X |
| 39 | 402203107304602 | SB00509020DAC2 | 6,360 | 460 | Gilbert Myers | X | -- | X |
| 40 | 402204107304501 | SB00509020DAC1 | 6,370 | 35.0 | Gilbert Myers | X | -- | X |
| 41 | 402208107304201 | SB00509020DAC | 6,390 | 480 | Gilbert Myers | X | -- | X |
| 42 | 402208107315201 | SB00509019DAC | -- | 50.0 | Jacob Hamilton | X | -- | X |
| 43 | 402211107361901 | SB00509121DAC | 6,260 | 53.0 | R.E. Southard | X | -- | X |
| 44 | 402211107363501 | SB00509121DBC | -- | 250 | Shirley Brown | X | -- | X |
| 45 | 402211107363701 | SB00509121DBC | -- | 190 | Bill Kendall | X | -- | X |
| 46 | 402212107363402 | SB00509121DBC | -- | 25.0 | Shirley Brown | X | -- | X |
| 47 | 402216107390801 | SB00509119CAB | 6,920 | 180 | Mead Brothers | X | X | X |
| 48 | 402244107385401 | SB00509119ABB | -- | 180 | Mead Brothers | X | -- | X |
| 49 | 402301107445301 | SB00509208BCA | 6,240 | 205 | -- | X | X | -- |
| 50 | 402316107282401 | SB00509015ADC1 | -- | -- | -- | -- | X | Spring |
| 51 | 402347107351900 | SB00509110DCD | -- | -- | -- | -- | X | Spring |
| 52 | 402347107352201 | SB00509110DCD1 | -- | -- | -- | -- | X | Spring |
| 53 | 402416107275801 | SB00509011BCB | -- | -- | -- | X | -- | -- |
| 54 | 402505107435501 | SB00509204BBB | 6,380 | 205 | -- | X | X | -- |
| 55 | 402518107381801 | SB00509106ADA | 6,560 | -- | Empire Energy Co. | X | -- | X |

Table 5.--*Ground-water site descriptions and availability of data collected by the U.S. Geological Survey*--Continued

| Map number (plate 3) | Site identification in COALDATA data base | Local well number (see fig. 2) | Datum[1] (feet) | Depth of well below land surface (feet) | Owner | Availability of | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Water-level data | Water-quality data | Well-construction data |
| 56 | 402520107292300 | SB00509004AAC1 | -- | -- | -- | X | -- | -- |
| 57 | 402529107445901 | SB00609232CBC | 6,310 | 1,100 | -- | X | X | X |
| 58 | 402541107420801 | SB00609234ACD | 6,100 | 60.0 | Elgen Lawrence | X | -- | X |
| 59 | 402543107423201 | SB00609234BDC | 6,120 | 20.0 | Elgen Lawrence | X | -- | X |
| 60 | 402549107270300 | SB00609035DAB1 | -- | -- | -- | X | -- | -- |
| 61 | 402558107421101 | SB00609234ABA | 6,240 | 832 | Elgen Lawrence | X | X | X |
| 62 | 402613107390801 | SB00609136BBD1 | -- | 1,100 | -- | X | X | X |
| 63 | 402627107381801 | SB00609131AAA | -- | 100 | Brasel and Simms | X | -- | X |
| 64 | 402647107400600 | SB00609225BAD | -- | -- | -- | -- | X | -- |
| 65 | 402647107400601 | SB00609225BAD1 | 6,610 | 600 | Haxton Iva | X | -- | -- |
| 66 | 402649107382001 | SB00609130DAA | -- | -- | W.R. Grace Co. | X | -- | X |
| 67 | 402658107305501 | SB00609029BDD | 6,500 | 340 | Clyde Skidmore | X | -- | X |
| 68 | 402659107352801 | SB00609127BDD1 | -- | 1,100 | Paul Schipke | X | X | X |
| 69 | 402718107333201 | SB00609112CCA1 | -- | -- | -- | X | X | X |
| 70 | 402722107310701 | SB00609020CDC | -- | 600 | Clyde Skidmore | X | -- | X |
| 71 | 402734107301501 | SB00609021CBC | -- | 360 | Anton Knez | X | X | X |
| 72 | 402738107422001 | SB00609222AAB | 6,400 | 800 | Ed Johnston | X | -- | X |
| 73 | 402743107364702 | SB00609121CAB | 6,160 | 120 | Ed Loudy | X | -- | X |
| 74 | 402744107364901 | SB00609121CAB | -- | 700 | Ed Loudy | X | -- | X |
| 75 | 402811107295301 | SB00609021BAB | -- | 40.0 | Mike Voloshin | X | -- | X |
| 76 | 402812107271401 | SB00609014DCD1 | 6,580 | 182 | E.G. Deakins | X | X | X |
| 77 | 402814107321101 | SB00609019BAB | 6,460 | 360 | Eugene Biskup | X | X | X |
| 78 | 402814107490001 | SB00609315DBB | 6,120 | 425 | U.S. Dept. of Conservation. | X | X | X |
| 79 | 402815107271101 | SB00609014DCD2 | 6,610 | 876 | E.G. Deakins | X | -- | X |
| 80 | 402824107401001 | SB00609213BDA | 6,350 | 20.0 | John Salioko | X | -- | X |
| 81 | 401735107344901 | SB00409126BAD1 | 8,123 | 115 | BLM | X | -- | X |
| 82 | 401630107310702 | SB00409032AAD2 | 7,739 | -- | CONSOL | X | -- | X |
| 83 | 401532107280202 | SB00309002ACB | 7,940 | 517 | -- | X | X | X |
| 84 | 401706107313301 | SB00409029DBB | 7,400 | -- | CONSOL | -- | X | Spring |
| 85 | 401752107310501 | SB00409021CBC | 7,000 | -- | CONSOL | -- | X | Spring |
| 86 | 401613107325201 | SB00409031CAA | 7,640 | -- | CONSOL | -- | X | Spring |
| 87 | 401646107314601 | SB00409029CAC | 7,768 | -- | -- | X | X | -- |
| 88 | 401726107312301 | SB00409029AAC1 | 7,240 | -- | -- | X | X | -- |
| 89 | 401726107312302 | SB00409029AAC2 | 7,240 | -- | -- | X | X | -- |
| 90 | 401654107312401 | SB00409029DCA | 7,560 | -- | -- | X | -- | -- |
| 91 | 401551107312802 | SB00409032DCC2 | 8,408 | 221 | BLM | X | -- | X |
| 92 | 401504107310801 | SB00409005DDC | 8,200 | -- | CONSOL | -- | X | Spring |
| 93 | 401657107312901 | SB00409029DBD | 7,560 | -- | CONSOL | -- | X | Spring |
| 94 | 401729107312301 | SB00409029AAB1 | 7,160 | -- | CONSOL | -- | X | Spring |
| 95 | 401730107312501 | SB00409029AAB2 | 7,160 | -- | CONSOL | -- | X | Spring |
| 96 | 401748107311102 | SB00409020DDA2 | 7,020 | -- | CONSOL | -- | X | Spring |
| 97 | 401748107311101 | SB00409020DDA1 | 7,020 | 17.0 | CONSOL | X | X | X |
| 98 | 401941107325901 | SB00409007CAA | 6,820 | -- | Almon Durham | X | -- | X |
| 99 | 401902107315101 | SB00409017BDB | 6,800 | -- | CONSOL | -- | X | Spring |
| 100 | 401749107311201 | SB00409020DDA1 | 7,020 | 17.0 | CONSOL | X | -- | X |
| 101 | 401748107311501 | SB00409020DDA2 | 7,040 | 22.0 | CONSOL | X | X | X |
| 102 | 401747107311401 | SB00409020DDA3 | 7,020 | 19.0 | -- | X | -- | X |
| 103 | 401745107304401 | SB00409021CDB | 7,040 | 26.0 | CONSOL | X | -- | X |
| 104 | 401747107311301 | SB00409020DDA4 | 7,020 | 25.7 | CONSOL | X | -- | X |
| 105 | 401746107311301 | SB00409020DDA5 | 7,040 | 24.0 | CONSOL | X | X | X |
| 106 | 401745107304301 | SB00409021CDB1 | 7,060 | 25.0 | CONSOL | X | X | X |
| 107 | 401743107304101 | SB00409021CDD | 7,060 | 26.0 | CONSOL | X | -- | X |
| 108 | 401742107304201 | SB00409021CDC | 7,060 | 26.0 | CONSOL | X | X | X |
| 109 | 401744107304501 | SB00409021CDB2 | 7,040 | 26.5 | -- | X | -- | X |
| 110 | 401743107304601 | SB00409021CDB3 | 7,040 | 26.0 | CONSOL | X | X | X |

Table 5.--*Ground-water site descriptions and availability of data collected by the U.S. Geological Survey*--Continued

| Map number (plate 3) | Site identification in COALDATA data base | Local well number (see fig. 2) | Datum[1] (feet) | Depth of well below land surface (feet) | Owner | Availability of | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Water-level data | Water-quality data | Well-construction data |
| 111 | 401815107364801 | SB00409121DCC | 6,940 | -- | CONSOL | -- | X | Spring |
| 112 | 401819107362601 | SB00409121DAB | 7,100 | -- | CONSOL | -- | X | Spring |
| 113 | 401813107362501 | SB00409121DAC | 7,120 | -- | CONSOL | -- | X | Spring |
| 114 | 401825107334601 | SB00409124BAA | 7,300 | -- | CONSOL | -- | X | Spring |
| 115 | 401911107325901 | SB00409118BAC | 7,200 | -- | CONSOL | -- | X | Spring |
| 116 | 401919107325701 | SB00409118BAA | 7,000 | -- | CONSOL | -- | X | Spring |
| 117 | 401827107321601 | SB00409118BAA | 6,960 | -- | CONSOL | -- | X | Spring |
| 118 | 401817107321601 | SB00409020BBC | 6,940 | -- | CONSOL | -- | X | Spring |
| 119 | 401744107304401 | SB00409021CDB | 7,040 | -- | CONSOL | -- | X | Spring |
| 120 | 401532107280201 | SB00309002ACB1 | 7,940 | 583 | BLM | X | X | X |
| 121 | 401532107280203 | SB00309002ACB2 | 7,940 | 372 | BLM | X | X | X |
| 122 | 401551107312801 | SB00409032DCC | 8,408 | 337 | BLM | X | X | X |
| 123 | 401617107310001 | SB00409033BCC | 7,911 | 340 | BLM | X | -- | X |
| 124 | 401600107314002 | SB00409032CDA2 | 8,413 | 425 | BLM | X | -- | X |
| 125 | 401600107314003 | SB00409032CDA3 | 8,413 | 310 | BLM | X | X | X |
| 126 | 401600107314101 | SB00409001CDA1 | 8,412 | 350 | BLM | X | X | X |
| 127 | 401630107310701 | SB00409032AAD1 | 7,738 | 500 | BLM | X | X | X |
| 128 | 401630107310601 | SB00409032AAD2 | 7,739 | 303 | BLM | X | X | X |
| 129 | 401625107313101 | SB00409032ACB1 | 7,973 | 300 | BLM | X | X | X |
| 130 | 401625107313102 | SB00409032ACB2 | 7,973 | 103 | BLM | X | X | X |
| 131 | 401745107341301 | SB00409123DDD1 | 7,920 | 156 | BLM | X | X | X |
| 132 | 401745107341302 | SB00409123DDD2 | 7,920 | 115 | BLM | X | X | X |
| 133 | 401744107341301 | SB00409123DDD3 | 7,921 | 153 | BLM | X | -- | X |
| 134 | 401744107341302 | SB00409123DDD4 | 7,921 | 107 | BLM | X | -- | X |
| 135 | 401748107333601 | SB00409124DCB1 | 7,700 | 162 | BLM | X | X | X |
| 136 | 401748107333602 | SB00409124DCB2 | 7,700 | 118 | BLM | X | X | X |
| 137 | 401747107333601 | SB00409124DCB3 | 7,700 | 171 | BLM | X | -- | X |
| 138 | 401747107333602 | SB00409124DCB4 | 7,700 | 117 | BLM | X | -- | X |
| 139 | 401735107344902 | SB00409126BAD | 8,123 | 34.0 | -- | X | X | X |
| 140 | 401552107312701 | SB00409032DCC | 8,408 | 346 | BLM | X | -- | X |
| 141 | 401600107314001 | SB00409032CDA | 8,413 | 495 | BLM | X | X | X |
| 142 | 401617107310002 | SB00409033BCC | 7,911 | 312 | BLM | X | X | X |
| 143 | 401552107035301 | SB00308605ACB1 | 7,550 | -- | R. Carnahan | X | -- | X |
| 144 | 401611106575001 | SB00408531DDC1 | 7,600 | 30.0 | George Stieduhar | X | X | X |
| 145 | 401702107111501 | SB00408729CDD1 | 7,660 | 300 | -- | X | -- | X |
| 146 | 401729106575400 | SB00408730 | -- | -- | -- | -- | X | Spring |
| 147 | 401729106575701 | SB00408530ACD1 | -- | 260 | Pittsburg Midway Co. | X | X | X |
| 148 | 401735107104201 | SB00408729ADA1 | 7,630 | 8.00 | Robert Kagie | X | -- | X |
| 149 | 401751107045201 | SB00408630ABA1 | -- | -- | -- | -- | X | Spring |
| 150 | 401754107020501 | SB00408622CCC1 | 7,400 | -- | Steel | X | -- | X |
| 151 | 401801107015101 | SB00408622CDB1 | 7,380 | 12.0 | Edwin Yorty | X | X | X |
| 152 | 401804107062101 | SB00408724DBD | 7,890 | 263 | U.S. Government | X | X | X |
| 153 | 401826107070401 | SB00408724BCB | 7,510 | 145 | U.S. Government | X | X | X |
| 154 | 401828107020601 | SB00408622BCB1 | -- | -- | -- | -- | X | Spring |
| 155 | 401837107054501 | SB00408619BBD | 7,520 | 111 | U.S. Government | X | X | X |
| 156 | 401842107032201 | SB00408620AAA1 | 7,100 | -- | B. Flatten | X | X | X |
| 157 | 401847107003101 | SB00408614DCC1 | 7,220 | 20.0 | U.S. Government | X | X | X |
| 158 | 401847107003301 | SB00408614CDD | -- | -- | Foidel Coal Co. | X | X | -- |
| 159 | 401850107003301 | SB00408614CDD2 | 7,260 | 140 | U.S. Government | X | -- | X |
| 160 | 401857106573101 | SB00408517CCB1 | 7,230 | -- | E. Lombardi | X | -- | X |
| 161 | 401904107060800 | SB00408713AAD | -- | -- | U.S. Government | X | X | -- |
| 162 | 401904107060801 | SB00408713DAA | 7,100 | 173 | U.S. Government | X | X | X |
| 163 | 401904107202601 | SB00408913BDC1 | 6,790 | -- | Lee Roads | X | -- | X |
| 164 | 401909107221701 | SB00408915ACA1 | 6,670 | 20.0 | L. Wyran | X | -- | X |
| 165 | 401912107031300 | SB00408616CBA | -- | -- | Foidel Coal Co. | X | X | -- |

Table 5.--*Ground-water site descriptions and availability of data collected by the U.S. Geological Survey*--Continued

| Map number (plate 3) | Site identification in COALDATA data base | Local well number (see fig. 2) | Datum[1] (feet) | Depth of well below land surface (feet) | Owner | Availability of | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Water-level data | Water-quality data | Well-construction data |
| 166 | 401912107031301 | SB00408616CBA | 7,020 | 122 | U.S. Government | X | X | X |
| 167 | 401913107214301 | SB00408914BBD1 | 6,740 | -- | V. Preece | X | -- | X |
| 168 | 401914107244301 | SB00508931DDC1 | -- | 100 | Gail Coulverwel | X | -- | X |
| 169 | 401915107244301 | SB00408917ABC1 | -- | 20.0 | H. Wynan | X | -- | X |
| 170 | 401922107050101 | SB00408618BDA1 | -- | -- | -- | X | -- | -- |
| 171 | 401922107050701 | SB00408618BDA | 7,160 | 180 | U.S. Government | X | X | X |
| 172 | 401935106595401 | SB00408612CBD1 | 7,240 | 750 | USGS | X | X | X |
| 173 | 401939107091201 | SB00408710CCD1 | 7,010 | 8.00 | K. Rhodes | X | -- | X |
| 174 | 401941107002001 | SB00408611DCC | 7,490 | 1,030 | -- | X | X | X |
| 175 | 401941107222101 | SB00408910DBC1 | -- | 210 | A.J. Klein | X | -- | X |
| 176 | 401950107103300 | SB00408709CBC | -- | -- | Dale Weldon | X | X | -- |
| 177 | 401950107103301 | SB00408709CBC | 7,080 | 26.0 | -- | X | -- | X |
| 178 | 401952107103101 | SB00408709CBC1 | 7,090 | -- | Dale Weldon | X | -- | X |
| 179 | 402005107200101 | SB00408912ABD1 | -- | -- | -- | -- | X | Spring |
| 180 | 402013107245201 | SB00508931DDC1 | -- | -- | -- | X | X | -- |
| 181 | 402015107014501 | SB00408610BAD | 6,940 | 100 | U.S. Government | X | X | X |
| 182 | 402015107015500 | SB00408610BAD | -- | -- | Foidel-Midway Co. | X | X | -- |
| 183 | 402040106591001 | SB00508636CAC1 | 7,160 | 716 | USGS | X | -- | X |
| 184 | 402041107013301 | SB00508634CAB1 | 6,920 | 200 | D. Hayes | X | X | X |
| 185 | 402048107203201 | SB00508923CCC | -- | -- | -- | X | X | -- |
| 186 | 402056106590901 | SB00508636BDD1 | 7,080 | 560 | Perley Green | X | X | X |
| 187 | 402106107011801 | SB00508622DCC1 | 6,820 | -- | William Rogers | X | -- | X |
| 188 | 402108107220301 | SB00508923CCC | 7,360 | 280 | -- | X | X | X |
| 189 | 402112107050801 | SB00508630CCC1 | -- | 350 | Dale Kemeer | X | X | X |
| 190 | 402113106590501 | SB00508636BAA2 | 7,080 | 750 | Perley Greene | X | X | X |
| 191 | 402114107034300 | SB00508629CDD1 | 6,820 | 126 | U.S. Government | X | X | X |
| 192 | 402114107034301 | SB00508629CDD2 | 6,820 | 266 | U.S. Government | X | X | X |
| 193 | 402118107033101 | SB00508629DCC1 | -- | 126 | Energy Fuels Co. | X | X | X |
| 194 | 402124107031801 | SB00508629DDB | 6,820 | 126 | Tom Greenhaugh | X | X | X |
| 195 | 402128106583901 | SB00508625DDB1 | -- | 15.0 | Perley Green | X | -- | X |
| 196 | 402149107013801 | SB00508627BCA1 | 6,840 | -- | Robert George | X | X | X |
| 197 | 402156107015201 | SB00508627BBC1 | 6,810 | 14.0 | Robert George | X | X | X |
| 198 | 402157106583801 | SB00508625AAC1 | -- | 20.0 | Robert McKune | X | -- | X |
| 199 | 402158106570701 | SB00408529BAC1 | 7,060 | 40.0 | Giacomo Camilletti | X | -- | -- |
| 200 | 402202107022101 | SB00508628ABB1 | 6,800 | 14.0 | Vaughn Hockaday | X | X | X |
| 201 | 402202107160801 | SB00508809CDB1 | 6,750 | 15.0 | H. Green | X | -- | X |
| 202 | 402204107012201 | SB00508627BAA | 6,820 | 18.0 | U.S. Government | X | X | X |
| 203 | 402204107022801 | SB00508628BAA1 | -- | -- | -- | X | X | -- |
| 204 | 402205107013201 | SB00508627BAB1 | 6,800 | 14.0 | Don Hinkle | X | X | X |
| 205 | 402209107023101 | SB00508621CDD | 6,840 | 282 | U.S. Government | X | X | X |
| 206 | 402212107011801 | SB00508622DCC1 | -- | -- | -- | X | X | -- |
| 207 | 402213107024401 | SB00508621CCA1 | -- | -- | -- | -- | X | Spring |
| 208 | 402217107113601 | SB00508719CDA2 | 7,380 | 18.0 | Leonard Yoast | X | -- | -- |
| 209 | 402221107005201 | SB00508622DAD1 | -- | -- | -- | -- | X | Spring |
| 210 | 402222107113001 | SB00508719CDA1 | 7,370 | 90.0 | Leonard Yoast | X | X | X |
| 211 | 402231107111601 | SB00508719ABA2 | 7,340 | 62.0 | Peabody Coal Co. | X | X | X |
| 212 | 402231107111602 | SB00508719ABA1 | 7,320 | 58.5 | Peabody Coal Co. | X | X | X |
| 213 | 402231107111603 | SB00508719DBA1 | 7,580 | 133 | Peabody Coal Co. | X | -- | X |
| 214 | 402231107111604 | SB00508719DBA2 | 7,580 | 146 | Peabody Coal Co. | X | -- | X |
| 215 | 402231107111605 | SB00508730ABA1 | 7,740 | 9.50 | Peabody Coal Co. | X | -- | X |
| 216 | 402231107111606 | SB00508730ABA2 | 7,740 | 26.3 | Peabody Coal Co. | X | -- | X |
| 217 | 402231107111607 | SB00508729BBA1 | 7,980 | 65.0 | Peabody Coal Co. | X | -- | X |
| 218 | 402231107111609 | SB00508720CBA1 | 7,800 | 48.0 | Peabody Coal Co. | X | -- | X |
| 219 | 402231107111611 | SB00508720BBA1 | 7,700 | 27.0 | Peabody Coal Co. | X | -- | X |
| 220 | 402231107111612 | SB00508720BBA2 | 7,700 | 37.4 | Peabody Coal Co. | X | X | X |

Table 5.--*Ground-water site descriptions and availability of data collected by the U.S. Geological Survey*--Continued

| Map number (plate 3) | Site identification in COALDATA data base | Local well number (see fig. 2) | Datum[1] (feet) | Depth of well below land surface (feet) | Owner | Availability of | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Water-level data | Water-quality data | Well-construction data |
| 221 | 402231107111613 | SB00508717CBC2 | 7,540 | 85.7 | Peabody Coal Co. | X | -- | X |
| 222 | 402231107111614 | SB00508717CBC1 | 7,540 | 101 | Peabody Coal Co. | X | -- | X |
| 223 | 402231107111615 | SB00508717BCC2 | 7,400 | 79.5 | Peabody Coal Co. | X | -- | X |
| 224 | 402231107111616 | SB00508717BCC1 | 7,400 | 104 | Peabody Coal Co. | X | X | X |
| 225 | 402231107111617 | SB00508717ADC1 | 7,560 | 90.0 | Peabody Coal Co. | X | X | X |
| 226 | 402231107111618 | SB00508717ADC2 | 7,560 | 109 | Peabody Coal Co. | X | -- | X |
| 227 | 402231107111619 | SB00508717DAC1 | 7,760 | 25.0 | Peabody Coal Co. | X | -- | X |
| 228 | 402231107111620 | SB00508717DAC2 | 7,760 | 43.0 | Peabody Coal Co. | X | -- | X |
| 229 | 402231107111630 | SB00508719ABB1 | 7,300 | 47.0 | Peabody Coal Co. | X | X | X |
| 230 | 402231107111631 | SB00508719ABB2 | 7,300 | 47.0 | Peabody Coal Co. | X | X | X |
| 231 | 402231107111632 | SB00508719ABB3 | 7,300 | 54.0 | Peabody Coal Co. | X | X | X |
| 232 | 402231107111633 | SB00508719ABB4 | 7,300 | 54.0 | Peabody Coal Co. | X | X | X |
| 233 | 402231107111634 | SB00508719DBA3 | 7,580 | 135 | Peabody Coal Co. | X | X | X |
| 234 | 402231107111635 | SB00508719DBA4 | 7,580 | 135 | Peabody Coal Co. | X | -- | X |
| 235 | 402231107111636 | SB00508719DBA5 | 7,580 | 151 | Peabody Coal Co. | X | X | X |
| 236 | 402231107111637 | SB00508719DBA6 | 7,580 | 151 | Peabody Coal Co. | X | X | X |
| 237 | 402231107111638 | SB00508719DBA7 | 7,580 | 170 | Peabody Coal Co. | X | -- | X |
| 238 | 402231107111646 | SB00508718CAC1 | 7,200 | 39.1 | USGS | X | X | X |
| 239 | 402231107111647 | SB00508718CAC2 | 7,200 | 29.4 | USGS | X | -- | X |
| 240 | 402231107111648 | SB00508719BAA1 | 7,240 | 44.0 | USGS | X | -- | X |
| 241 | 402231107111649 | SB00508719BAA2 | 7,240 | 59.0 | USGS | X | -- | X |
| 242 | 402231107111650 | SB00508719BAA3 | 7,240 | 45.0 | USGS | X | -- | X |
| 243 | 402231107111651 | SB00508719CCB1 | 7,360 | 40.0 | USGS | X | -- | X |
| 244 | 402231107111652 | SB00508719CCB2 | 7,360 | 45.0 | USGS | X | -- | X |
| 245 | 402231107111653 | SB00508719CCB3 | 7,360 | 20.0 | USGS | X | X | X |
| 246 | 402231107111654 | SB00508719CCB4 | 7,360 | 20.0 | USGS | X | -- | X |
| 247 | 402231107111655 | SB00508719CCA1 | 7,360 | 50.0 | USGS | X | -- | X |
| 248 | 402231107111656 | SB00508719CDC1 | 7,360 | 40.0 | USGS | X | -- | X |
| 249 | 402231107111657 | SB00508719CDC2 | 7,360 | 40.0 | USGS | X | X | X |
| 250 | 402231107111658 | SB00508719CDC3 | 7,360 | 30.0 | USGS | X | -- | X |
| 251 | 402232107234201 | SB00508920ACD1 | 7,820 | 640 | BLM | X | X | X |
| 252 | 402236107025301 | SB00508621BCC | 6,760 | 198 | U.S. Government | X | X | X |
| 253 | 402239107040301 | SB00508620BCB | 6,820 | 30.0 | U.S. Government | X | X | X |
| 254 | 402244107165001 | SB00508820ACA1 | -- | 49.0 | -- | X | X | -- |
| 255 | 402244107165002 | SB00508820DAB1 | -- | -- | -- | X | -- | -- |
| 256 | 402250107151801 | SB00508822BBC1 | -- | -- | -- | X | X | -- |
| 257 | 402250107151802 | SB00508822BBC2 | 7,060 | 235 | -- | X | -- | X |
| 258 | 402257107015301 | SB00508621AAA | 6,700 | 207 | U.S. Government | X | X | X |
| 259 | 402303107215701 | SB00508915CAB | 7,400 | 440 | -- | X | X | X |
| 260 | 402316107182301 | SB00508913ACC | 7,000 | 720 | -- | X | X | X |
| 261 | 402327106590000 | SB00508613ACC | -- | -- | Foidel-Midway Co. | X | X | -- |
| 262 | 402327106590001 | SB00508613ACC | 6,680 | 237 | U.S. Government | X | X | X |
| 263 | 402327107161301 | SB00508816CAB1 | -- | 62.0 | -- | X | X | -- |
| 264 | 402334106574601 | SB00508518ACA1 | 6,800 | 80.0 | Wegener | X | -- | X |
| 265 | 402336106574400 | SB00508518ACA | 6,780 | 105 | Truman Yowell | X | X | X |
| 266 | 402344107195001 | SB00508912CCD1 | -- | -- | P. Barns | X | X | X |
| 267 | 402346106590000 | SB00508613ABB | -- | -- | Foidel-Midway Co. | X | X | -- |
| 268 | 402346106590001 | SB00508613ABB | 6,660 | 100 | U.S. Government | X | X | X |
| 269 | 402356107171701 | SB00508808CDC | 6,780 | 80.0 | U.S. Dept. of Conservation. | X | X | X |
| 270 | 402414106580701 | SB00508507CBC1 | 6,680 | 180 | -- | X | -- | X |
| 271 | 402414106585701 | SB00508612DBB1 | -- | -- | -- | X | X | -- |
| 272 | 402415107184401 | SB00508807CBB1 | 6,680 | 85.0 | Marvin D. Barnes | X | -- | X |
| 273 | 402430107070801 | SB00508711BDB1 | -- | -- | -- | X | -- | -- |
| 274 | 402438106572001 | SB00508508BBC1 | 6,960 | -- | Streeter | X | -- | X |
| 275 | 402440106591001 | SB00508612BAC | -- | -- | -- | X | X | -- |

Table 5.--*Ground-water site descriptions and availability of data collected by the U.S. Geological Survey*--Continued

| Map number (plate 3) | Site identification in COALDATA data base | Local well number (see fig. 2) | Datum[1] (feet) | Depth of well below land surface (feet) | Owner | Availability of | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Water-level data | Water-quality data | Well-construction data |
| 276 | 402459107154901 | SB00508804DBC1 | -- | 80.0 | G.A. Bowen | X | X | X |
| 277 | 402514106561501 | SB00508505ADD1 | -- | 91.0 | J.T. Kelton | X | X | X |
| 278 | 402514107065001 | SB00508702ACC1 | -- | -- | -- | X | -- | -- |
| 279 | 402514107065002 | SB00508702ACC2 | -- | -- | -- | X | -- | -- |
| 280 | 402515107005401 | SB00508603ADC1 | 6,700 | 460 | Arther Hudspeth | X | X | X |
| 281 | 402517106590701 | SB00508601BDA1 | 6,600 | -- | -- | X | -- | -- |
| 282 | 402526107231601 | SB00508904BBA1 | 6,920 | 80.0 | Otis Lyons | X | X | X |
| 283 | 402535106582301 | SB00608531CCC1 | 6,580 | -- | V. Lazer | X | -- | X |
| 284 | 402535106582501 | SB00608531CCC1 | 6,600 | -- | Adams | X | -- | X |
| 285 | 402535107234401 | SB00608932DDB | 7,060 | -- | Otis Lyons | X | -- | X |
| 286 | 402545107073901 | SB00608734DDB1 | -- | -- | -- | X | X | -- |
| 287 | 402600107160001 | SB00608833DBB | 6,500 | 205 | U.S. Dept. of Conservation. | X | X | X |
| 288 | 402609107124801 | SB00608836BDC1 | -- | 60.0 | William Coley | X | X | X |
| 289 | 402614107125001 | SB00608836BDB1 | 6,650 | 66.0 | Allen Codey | X | -- | X |
| 290 | 402620107072924 | SB00608734DDA1 | 6,800 | 52.0 | Peabody Coal Co. | X | -- | X |
| 291 | 402620107072925 | SB00608734DAA1 | 6,800 | 25.0 | Peabody Coal Co. | X | -- | X |
| 292 | 402620107072926 | SB00608734DAD1 | 6,760 | 64.0 | Peabody Coal Co. | X | -- | X |
| 293 | 402620107072928 | SB00608734ADA1 | 6,760 | 50.5 | Peabody Coal Co. | X | X | X |
| 294 | 402620107072929 | SB00608734ADA2 | 6,740 | 43.5 | Peabody Coal Co. | X | X | X |
| 295 | 402620107072930 | SB00608734ADB3 | 6,720 | 38.5 | Peabody Coal Co. | X | X | X |
| 296 | 402620107072932 | SB00608734ACA1 | 6,640 | 143 | Peabody Coal Co. | X | X | X |
| 297 | 402620107072933 | SB00608734ACA2 | 6,640 | 141 | Peabody Coal Co. | X | X | X |
| 298 | 402620107072935 | SB00508703DAC1 | 6,840 | 260 | Peabody Coal Co. | X | X | X |
| 299 | 402620107072939 | SB00608722DDD1 | -- | -- | -- | X | X | -- |
| 300 | 402620107072950 | SB00608734DDB1 | 6,740 | 261 | Peabody Coal Co. | X | X | X |
| 301 | 402620107072951 | SB00608734DDB2 | 6,740 | 78.0 | Peabody Coal Co. | X | X | X |
| 302 | 402620107072952 | SB00508703DAA1 | 6,780 | 350 | Peabody Coal Co. | X | X | X |
| 303 | 402620107072953 | SB00508711BDB1 | 7,020 | 300 | Peabody Coal Co. | X | X | X |
| 304 | 402620107072955 | SB00508711BDB2 | 7,020 | 300 | Peabody Coal Co. | X | X | X |
| 305 | 402620107072956 | SB00608734BAB1 | -- | -- | -- | X | X | -- |
| 306 | 402620107072958 | SB00608734 | -- | -- | Peabody Coal Co. | X | X | -- |
| 307 | 402627107115900 | SB00608731BBB | -- | -- | Jim Rowley | X | X | -- |
| 308 | 402627107115901 | SB00608731BBB | 6,580 | -- | Jim Rowley | X | -- | X |
| 309 | 402633107080101 | SB00608727DCA | -- | 10.0 | Seneca Coal Co. | X | X | X |
| 310 | 402641107090201 | SB00608728DCA1 | 6,600 | -- | H. Rhodes | X | -- | X |
| 311 | 312643107153301 | SB00608828DAD1 | 6,460 | 160 | Cross Mountain Ranch | X | X | X |
| 312 | 402646106585501 | SB00608625DBC1 | 6,550 | 13.0 | Arnold Lieske | X | -- | X |
| 313 | 402647106585000 | SB00608625DBD | -- | -- | Arnold Lieske | X | X | -- |
| 314 | 402647106585001 | SB00608625DBD | 6,580 | 12.0 | Arnold Lieske | X | -- | X |
| 315 | 402709106591201 | SB00608625BDB1 | 6,590 | 116 | Dan Bedell | X | X | X |
| 316 | 402709107252501 | SB00608930BAB1 | -- | -- | -- | X | X | -- |
| 317 | 402710106591401 | SB00608625BAC1 | 6,600 | 116 | Bedells | X | -- | X |
| 318 | 402738107011300 | SB00608622DBC | -- | -- | -- | X | X | -- |
| 319 | 402738107011301 | SB00608622DBC | 6,580 | -- | -- | -- | -- | Spring |
| 320 | 402804107095201 | SB00608720AAC1 | 6,500 | -- | Beryl Rienks | X | -- | X |
| 321 | 402809106595501 | SB00608623ABA1 | 6,600 | 260 | Wyman | X | -- | X |
| 322 | 402815107003001 | SB00608623BBA1 | 6,490 | 150 | E.C. Black | X | -- | X |
| 323 | 401710107562800 | SB00409428DBB | -- | -- | W.R. Grace Co. | -- | X | -- |
| 324 | 401759107555400 | SB00409422CBC | -- | -- | W.R. Grace Co. | -- | X | -- |
| 325 | 401810107553200 | SB00409422BDD | -- | -- | W.R. Grace Co. | -- | X | -- |
| 326 | 402120106535201 | SB00508526CCC1 | 6,990 | 105 | Don Zoller | -- | X | X |
| 327 | 402146106543401 | SB00508527ACC1 | 7,100 | 17.0 | W. Whitecotton | X | -- | X |
| 328 | 329157106543101 | SB00508527ABC1 | 7,110 | 17.0 | W. Whitecotton | X | -- | X |
| 329 | 402309106520801 | SB00508513DDB | 6,920 | 15.0 | -- | X | -- | -- |
| 330 | 402321106534601 | SB00508514CBA | 7,160 | -- | -- | X | -- | -- |

Table 5.--*Ground-water site descriptions and availability of data collected by the U.S. Geological Survey*--Continued

| Map number (plate 3) | Site identification in COALDATA data base | Local well number (see fig. 2) | Datum[1] (feet) | Depth of well below land surface (feet) | Owner | Availability of | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Water-level data | Water-quality data | Well-construction data |
| 331 | 402324106545001 | SB00508515CAB1 | 7,600 | 302 | -- | X | -- | -- |
| 332 | 402329106541001 | SB00508515ADC1 | 7,300 | 200 | Bill Bulden | X | -- | X |
| 333 | 402338106503600 | SB00508417BCB | -- | -- | R. Rubish | -- | X | -- |
| 334 | 402345106503601 | SB00508417BBC1 | 6,820 | 155 | Vernon Summer | X | -- | X |
| 335 | 402349106535201 | SB00508514BBB1 | 7,360 | 320 | Gary Hertzog | X | -- | -- |
| 336 | 402357106535801 | SB00508511CCC1 | 7,440 | 150 | Michael R. Roper | X | -- | X |
| 337 | 402358106503601 | SB00508417BCB | 6,840 | 237 | R. Rubish | X | -- | -- |
| 338 | 402358106535900 | SB00508511CCC | -- | -- | Betty Pugh | -- | X | -- |
| 339 | 402358106535901 | SB00508511CCC | 7,310 | 224 | Betty Pugh | X | -- | X |
| 340 | 402423106552500 | SB00508509ADC | -- | -- | Gary Brenneman | -- | X | -- |
| 341 | 402423106552501 | SB00508509ADC | 7,400 | 150 | Gary Brenneman | X | -- | X |
| 342 | 402436106510101 | SB00508407ABD1 | 6,860 | 130 | Capra Doyle | X | -- | X |
| 343 | 402440106505701 | SB00508407AAC | 6,840 | -- | -- | X | -- | -- |
| 344 | 402442106530401 | SB00508511AAB | 7,300 | 100 | -- | X | -- | -- |
| 345 | 402551106505201 | SB00608431DDB1 | -- | 525 | Richard Hunter | X | -- | X |
| 346 | 402551106513901 | SC00608431CCA | 8,000 | 310 | -- | X | -- | -- |
| 347 | 402552106504101 | SB00608431DDA | 7,080 | 475 | -- | X | -- | -- |
| 348 | 402631106485700 | SB00608433BAD | -- | -- | Cyril Barber | -- | X | -- |
| 349 | 402631106485701 | SB00608433BAD | 6,760 | 55.0 | Cyril Barber | X | -- | -- |
| 350 | 402639106493600 | SB00608429DDD | -- | -- | L. Ardrey | -- | X | -- |
| 351 | 402639106493601 | SB00608429DDD | 6,800 | 25.0 | L. Ardrey | X | -- | X |
| 352 | 402810106551001 | SB00608509DDD1 | -- | 95.0 | Hoffman E. Perry | X | X | X |
| 353 | 402840107105501 | SB00608718DAA1 | 6,430 | -- | Tom Cozzens | X | -- | -- |
| 354 | 402842107120001 | SB00608813ADD2 | -- | 60.0 | Robert V. Barnes | X | X | X |
| 355 | 402843107150601 | SB00608815BDC1 | 6,440 | 16.5 | V.C. Williams | X | -- | X |
| 356 | 402843107151201 | SB00608815BCD1 | 6,440 | -- | M. Rolando | X | -- | -- |
| 357 | 402845107115901 | SB00608813ADD1 | 6,400 | 35.0 | Scott Ecil | X | -- | -- |
| 358 | 402852107125801 | SB00608814ADA1 | 6,450 | 35.0 | Yampa Valley AI | -- | X | -- |
| 359 | 402858107102501 | SB00608717BAD1 | 6,506.5 | 28.0 | Colorado Ute Coal Co. | X | X | X |
| 360 | 402900106533000 | SB068417A | -- | -- | -- | -- | X | -- |
| 361 | 402902106470401 | SB00608514BBC1 | 7,380 | 12.0 | Clayson | -- | -- | -- |
| 362 | 402902107101801 | SB00608717BAA1 | 6,472.6 | 28.0 | Colorado Ute Coal Co. | X | X | X |
| 363 | 402904106595701 | SB00608614ABA1 | 6,560 | 16.0 | L.B. Morris | X | -- | X |
| 364 | 402908107103701 | SB00608708CCD1 | 6,510.9 | 50.0 | Colorado Ute Coal Co. | X | X | X |
| 365 | 402910107103501 | Hayden seep no. 5. | -- | -- | -- | -- | X | Seep |
| 366 | 402912107112401 | SB00608707DCC1 | 6,506.1 | 45.0 | Colorado Ute Coal Co. | -- | X | -- |
| 367 | 402913107103701 | SB00608708CCD2 | 6,502.3 | 39.0 | Colorado Ute Coal Co. | -- | X | -- |
| 368 | 402913107132101 | SB00608811DDC1 | -- | 15.0 | E.C. Signs | X | -- | X |
| 369 | 402918106502700 | Steamboat spring. | -- | -- | -- | -- | X | -- |
| 370 | 402920106550701 | SB00608509DAD1 | 6,640 | 400 | Carmen Alessi | X | -- | X |
| 371 | 402920107154301 | SB00608809CBD1 | 6,340 | 20.0 | Wessley Signs | X | -- | X |
| 372 | 402921107103801 | HS SP-1 | -- | -- | -- | -- | X | -- |
| 373 | 402921107104001 | SB00608708CBD1 | 6,504.2 | 42.0 | Colorado Ute Coal Co. | X | X | X |
| 374 | 402922106502500 | Steamboat soda spring. | -- | -- | -- | -- | X | -- |
| 375 | 402922107042301 | SB00608607DBD2 | 6,460 | 30.0 | K. Rains | X | -- | X |
| 376 | 402922107104001 | SB00608708CBD2 | 6,502.0 | 40.0 | Colorado Ute Coal Co. | -- | X | -- |
| 377 | 402924106532301 | SB00608511CAD1 | 6,760 | 300 | Gary Garratt | -- | X | X |
| 378 | 402924107112001 | SB00608707DBC1 | 6,493.9 | 39.0 | Colorado Ute Coal Co. | X | X | X |
| 379 | 402924107112201 | SB00608707DBC2 | 6,497.8 | 42.0 | Colorado Ute Coal Co. | X | X | X |
| 380 | 402929107110301 | SB00608707DAB1 | 6,493.6 | 36.0 | Colorado Ute Coal Co. | X | -- | X |

Table 5.--*Ground-water site descriptions and availability of data collected by the U.S. Geological Survey*--Continued

| Map number (plate 3) | Site identification in COALDATA data base | Local well number (see fig. 2) | Datum[1] (feet) | Depth of well below land surface (feet) | Owner | Availability of | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Water-level data | Water-quality data | Well-construction data |
| 381 | 402930107105101 | SB00608707DAA1 | 6,495.1 | 37.0 | Colorado Ute Coal Co. | X | X | X |
| 382 | 402930107105201 | SB00608707DAA2 | 6,495.3 | 38.0 | Colorado Ute Coal Co. | X | X | X |
| 383 | 402931106565501 | SB00608508CAB1 | -- | 12.0 | Pat Tellier | -- | -- | X |
| 384 | 402932107110101 | SB00608707ADC1 | 6,493.6 | 41.0 | Colorado Ute Coal Co. | X | X | X |
| 385 | 402932107112001 | SB00608707DBB1 | 6,499.6 | 49.0 | Colorado Ute Coal Co. | X | X | X |
| 386 | 402933107110201 | SB00608707ADC2 | 6,490.8 | 35.5 | Colorado Ute Coal Co. | X | X | X |
| 387 | 402933107110701 | SB00608707ADC3 | 6,490.4 | 36.0 | Farrington Carpenter | X | X | X |
| 388 | 402933107110702 | SB00608707ADC4 | 6,485.6 | 29.0 | Colorado Ute Coal Co. | X | X | X |
| 389 | 402933107111301 | SB00608707ACD1 | 6,497.8 | 42.0 | Colorado Ute Coal Co. | X | X | X |
| 390 | 402933107112201 | SB00608707ACC1 | 6,496.3 | 43.0 | Colorado Ute Coal Co. | X | X | X |
| 391 | 402934107111301 | SB00608707ACD2 | 6,496.7 | 43.0 | Farrington Carpenter | X | X | X |
| 392 | 402935107105301 | SB00608707ADD1 | 6,493.1 | 38.0 | Farrington Carpenter | X | X | X |
| 393 | 402937106503100 | Steamboat sulfur spring. | -- | -- | -- | -- | X | -- |
| 394 | 402937107111401 | SB00608707ACD3 | 6,487.1 | 35.0 | Farrington Carpenter | X | X | X |
| 395 | 402941106523101 | SB00608512BCA1 | 6,760 | 265 | Peter Stanko | X | -- | -- |
| 396 | 402949107135201 | SB00608811BAC1 | 6,400 | 20.0 | James Camilletti | X | -- | -- |
| 397 | 402954107103501 | SB00608708BBA1 | 6,440 | -- | Carpenter | X | -- | -- |
| 398 | 402955107123501 | SB00608812BAA1 | -- | -- | -- | X | -- | -- |
| 399 | 402957107103301 | SB00608708BAB1 | -- | 10.6 | -- | X | X | -- |
| 400 | 402959107131101 | SB00608802DDD1 | 6,400 | -- | -- | X | -- | -- |
| 401 | 402620107072960 | Pond 004 | 7,220 | -- | -- | -- | X | -- |
| 402 | 402437107051704 | SBU287 | 7,029.97 | 175 | -- | -- | X | -- |
| 403 | 402437107051703 | SBW287 | 7,031.97 | 164 | -- | -- | X | -- |
| 404 | 402437107051701 | SBL287 | 7,031.96 | 98.5 | -- | -- | X | -- |
| 405 | 402359107054404 | SCU287 | 6,957.14 | 122 | -- | -- | X | -- |
| 406 | 402359107054402 | SCI287 | 6,957.08 | 70.0 | -- | -- | X | -- |
| 407 | 402359107054401 | SCL287 | 6,957.12 | 30.0 | -- | -- | X | -- |
| 408 | 402359107054403 | SCW287 | 6,957.05 | 90.0 | -- | -- | X | -- |
| 409 | 402358107054501 | SCSS87 | -- | -- | -- | -- | X | -- |
| 410 | 402401107054701 | SCS1487-62 | 6,975.51 | 51.5 | -- | -- | X | -- |
| 411 | 402401107054702 | SCS2487-63 | 6,979.68 | 37.5 | -- | -- | X | -- |
| 412 | 402401107054703 | SCS3487-64 | 6,982.73 | 37.2 | -- | -- | X | -- |
| 413 | 402401107054704 | SCS4487-65 | 6,997.08 | 25.0 | -- | -- | X | -- |
| 414 | 402454107071605 | SSU187 | 6,860.73 | 127 | -- | -- | X | -- |
| 415 | 402454107071604 | SSU487 | 6,860.73 | 105 | -- | -- | X | -- |
| 416 | 402454107071602 | SSI287 | 6,859.84 | 79.8 | -- | -- | X | -- |
| 417 | 402454107071603 | SSW287 | 6,859.91 | 98.5 | -- | -- | X | -- |
| 418 | 402454107071601 | SSL287 | 6,860.64 | 58.0 | -- | -- | X | -- |
| 419 | 402454107071606 | SSD487 | 6,859.74 | 195 | -- | -- | X | -- |
| 420 | 402454107071201 | SSSS87 | -- | -- | -- | -- | X | -- |
| 421 | 402456107071101 | SSS1487-59 | 6,898.61 | 33.0 | -- | -- | X | -- |
| 422 | 402456107071102 | SSS2487-60 | 6,892.55 | 22.8 | -- | -- | X | -- |
| 423 | 402456107071103 | SSS3487-61 | 6,891.86 | 26.0 | -- | -- | X | -- |
| 424 | 402455107073001 | SZL287 | 6,822.14 | 181 | -- | -- | X | -- |
| 425 | 402455107073002 | SZI287 | 6,818.60 | 222 | -- | -- | X | -- |
| 426 | 402455107073004 | SZU287 | 6,820.28 | 265 | -- | -- | X | -- |
| 427 | 402455107073003 | SZW487 | 6,817.03 | 237 | -- | -- | X | -- |
| 428 | 401114107493601 | SB00309333ACD1 | -- | -- | -- | -- | X | -- |
| 429 | 401142107514801 | SB00309330DCA | 7,520 | 394 | D. Smith -M. Crawford | -- | -- | X |
| 430 | 401207107505901 | SB00309329BDD | 7,400 | 275 | David Smith | X | -- | X |
| 431 | 401225107493301 | SB00309328ABA | -- | 560 | George Sturgeon | X | X | X |
| 432 | 401332107481501 | SB00309315DDB | 6,770 | 259 | Harry Durham, Jr. | X | X | X |
| 433 | 401351107362901 | SB00309116DAA | 7,090 | -- | Larry Osborn | X | -- | -- |
| 434 | 401402107524501 | SB00309413AAC1 | 7,300 | 100 | Texaco Oil Co. | -- | X | X |
| 435 | 401407107352301 | SB00309115AAC | -- | 8.0 | Leonard Forbes | -- | -- | -- |

Table 5.--*Ground-water site descriptions and availability of data collected by the U.S. Geological Survey*--Continued

| Map number (plate 3) | Site identification in COALDATA data base | Local well number (see fig. 2) | Datum[1] (feet) | Depth of well below land surface (feet) | Owner | Availability of | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Water-level data | Water-quality data | Well-construction data |
| 436 | 401415107522801 | SB00309307CCC1 | -- | 100 | -- | -- | X | -- |
| 437 | 401425107492201 | SB00309309DDB | 7,580 | 82.0 | -- | X | -- | X |
| 438 | 401444107482501 | SB00309310ACD | 7,420 | -- | -- | X | -- | -- |
| 439 | 401444107482901 | SB00309310ACC | 7,440 | -- | W.R. Grace Co. | X | -- | X |
| 440 | 401446107490901 | SB00309310BCB1 | 7,940 | 85.0 | Colowyo Coal Co. | X | X | -- |
| 441 | 401446107515801 | SB00309307ACB1 | 7,030 | 100 | Pat Sweeney | -- | X | -- |
| 442 | 401449107490601 | SB00309310BCB2 | 7,360 | 65.0 | -- | X | -- | X |
| 443 | 401453107500600 | SB00309309BBD | 7,280 | 85.0 | -- | X | X | -- |
| 444 | 401457107490500 | SB00309310BBB | -- | -- | U.S. Government | -- | X | -- |
| 445 | 401507107493001 | SB00309304DCD | 7,430 | 217 | -- | X | -- | -- |
| 446 | 401515107502201 | SB00309333DCB | 7,120 | 26.0 | USGS | -- | -- | X |
| 447 | 401531107500501 | SB00309304BCD | 7,100 | -- | W.R. Grace Co. | X | -- | X |
| 448 | 401547107511501 | SB00309305CCA | 7,120 | 20.0 | USGS | X | -- | X |
| 449 | 401602107504301 | SB00409332DCD | 6,740 | -- | -- | X | -- | X |
| 450 | 401619107502901 | SB00409332DAB | 6,630 | 140 | U.S. Government | X | X | X |
| 451 | 401621107493301 | SB00409333DBA | 6,770 | 25.0 | -- | X | -- | X |
| 452 | 402012108042601 | SB00409517ADC | -- | -- | -- | X | -- | -- |
| 453 | 402136108041601 | SB00509528BAB1 | 6,810 | -- | -- | X | -- | X |
| 454 | 402208108034301 | SB00509521DBA | 6,660 | 40.0 | Sterling Cook | X | X | -- |
| 455 | 402212108034301 | SB00509521ADC1 | -- | 300 | Sterling Cook | X | X | -- |
| 456 | 402223107533601 | SB00509424ABC1 | 6,220 | 1,600 | -- | X | -- | X |
| 457 | 402638107553601 | SB00609427ADB | -- | -- | Utah International | X | -- | -- |
| 458 | 402801107571000 | Juniper hot springs. | -- | -- | -- | -- | X | -- |
| 459 | 402802107571101 | SB00609416CDA1 | -- | -- | -- | -- | X | -- |
| 460 | 402803107571001 | SC00609417CAD1 | -- | -- | -- | -- | X | -- |
| 461 | 402822107564200 | SB069416CAC | -- | -- | -- | -- | X | -- |
| 462 | 402832107394701 | SB00609213ABD | -- | 255 | C.A. Roberts | -- | -- | X |
| 463 | 402834107394301 | SB00609213AAB | 6,380 | -- | Pearce | X | -- | X |
| 464 | 402849107272501 | SB00609014ACB1 | -- | 900 | L. Fedinec | -- | -- | X |
| 465 | 402857107323401 | SB00609018BBC | 6,270 | 23.0 | Wesley Robinson | X | -- | X |
| 466 | 402857107385101 | SB00609118BAD | 6,250 | 200 | Earl McCloskey | -- | X | X |
| 467 | 402907107322901 | SB00609007CCC | 6,225 | 369 | Marvin Carroll | -- | -- | X |
| 468 | 402911107332501 | SB00609112CDC | 6,370 | -- | Robert Herman | -- | -- | X |
| 469 | 402914107332901 | SB00609112CCA | -- | 264 | C. Davidson | X | -- | X |
| 470 | 402914107532801 | SB00609112CCD | 6,360 | 265 | High Country Equipment | X | -- | X |
| 471 | 402916107061601 | SB00608712DDA | -- | -- | -- | -- | X | -- |
| 472 | 402918107333201 | SB00609112CCA | -- | 600 | Marietha Glantz | X | X | X |
| 473 | 402929107381801 | SB00609107DAA | 6,300 | -- | Charles Carrol | X | -- | X |
| 474 | 402931107311401 | SB00609008BCD | -- | 18.0 | High Country Ave. | -- | X | -- |
| 475 | 402931107314001 | SB00609007DAB | 6,190 | 500 | Cleve Preece | -- | -- | X |
| 476 | 402933107445101 | SB00609208BAB | 6,320 | -- | G. Culverwell | -- | -- | X |
| 477 | 402942107373101 | SB00609108ACA | -- | 200 | E. Dale Scott | -- | -- | X |
| 478 | 402955107304201 | SB00609008ABA | 6,190 | 20.0 | Moffat County | -- | -- | X |
| 479 | 401618107563402 | SB00509432ACD1 | -- | -- | -- | -- | X | -- |
| 480 | 401629107573001 | SB00509433CAA | -- | -- | -- | -- | X | -- |

[1]Number of significant figures varies because some of the wells are listed as surveyed; however, these results have not been confirmed.

Surface-water sites are listed in tables 2 and 3. The locations of these sites are shown on plate 1. Sites that have discharge and water-quality data collected by agencies other than the U.S. Geological Survey are listed in table 2. Sites that have discharge and water quality data collected by the U.S. Geological Survey are listed in table 3. The sites are first identified by site identification. The site identification is a unique number that identifies each site and is the number used to retrieve data for a site. The eight-digit site-identification number is a unique number assigned to a surface-water site that is operated by the U.S. Geological Survey. The 15-digit site-identification number is composed of a 6-digit latitude, a 7-digit longitude, and a 2-digit sequence number. The station name describes the location of the site using names of streams, towns, roads, and so forth. In table 2, the mine and the mine's site ID are used to correlate the COALDATA site identification (site identification, station name, township, range, section) with local non-standard identification (mine's site ID). The mines are identified using three-letter codes, which are defined in the table. The datum is the altitude above sea level (see explanation of sea level following the conversion factor table) of the reference point used at a site for measuring the height of the water surface. All the sites in table 3 are U.S. Geological Survey surface-water sites in the study area that have data in the U.S. Geological Survey data base. The site type column in tables 2 and 3 describes a site as having a continuous recording gage (GS) or chemical sampling site only (C). The last two columns in tables 2 and 3 indicate what kind of hydrologic data is available for a site.

Ground-water site descriptions are listed in tables 4 and 5. Ground-water sites used by agencies other than the U.S. Geological Survey that have data in the COALDATA data base are listed in table 4. Ground-water sites used by the U.S. Geological Survey that have data in the U.S. Geological Survey data base are listed in table 5. The general locations of these ground-water sites are shown on plates 2 and 3. The unique 15-digit site identification for a ground-water site listed in tables 4 and 5 is established the same way as with a surface-water site. The local well number in tables 4 and 5 is used to locate the ground-water site (well or spring) easily using the township, range, section, and subdivisions of the section (fig. 2). The mine and site ID of the mine in table 4 is the same as in table 2. The datum in tables 4 and 5 is the altitude of the land surface in feet above sea level. Ground-water levels are commonly measured in feet below land surface. In table 5, the owners of ground-water sites (wells or springs) sampled by the U.S. Geological Survey include private individuals, companies, and the U.S. Government. The types of data available are listed in the last three columns of tables 4 and 5. Locations of the ground-water sites are shown in the maps on plates 2 and 3.

## DATA AVAILABLE IN THE COALDATA DATA BASE

Surface-water data include discharge measurements. Surface-water station descriptions include the following: Latitude and longitude; township, range, and section; a narrative description of the location of the gage, measurement site, or sampling site; codes for county and state; station type (gaging station, flume); mine name; and mine's site identification. An example of a computer printout of surface-water data is listed in table 6 in the "Supplemental Data" section at the back of the report.

Ground-water data in the system consist of site descriptions and water levels. Water levels are reported in feet below land surface. Site descriptions, which are the major components of ground-water data in COALDATA, include: Latitude and longitude; township, range, and section; state, and county codes; station type; data reliability, type of ground-water site; primary use of site; and date of water level, if a measurement was taken. Other data that may be available in the ground-water site description include: Depths to geologic formations; well-construction information; and hydrologic information about the aquifer. An example of a computer printout of ground-water data is listed in table 7 in the "Supplemental Data" section at the back of the report.

Quality of water data in the system include chemical analyses of water samples of surface water and ground water. There is an extensive list of chemical, physical, and biological constituents that can be stored in the quality of water data base. The constituents stored in the COALDATA data base are listed in table 1. An example of a computer printout of quality of water data is listed in table 8 in the "Supplemental Data" section at the back of the report.

Several sites are listed in tables 2 and 4 that have only a site location. These sites were included in the tables because, even though there are no data for them in the COALDATA data base, the sites are part of the hydrologic data-collection network established by the indicated coal mine and there may be data available elsewhere.

SUPPLEMENTAL DATA

Table 6.--*Example printout of U.S. Geological Survey stream-discharge data*

1985 WY UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09243800 FOIDEL CREEK NEAR OAK CREEK, CO. PROCESS DATE: 27-MAR-87 08:17 BJC
LAT 402045 LONG 1070504 STATE 08 COUNTY 107 DATUM OF GAGE: 6880.00 FT NGVD DRAINAGE AREA: 8.61

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .89 | 1.3 | .88 | .86 | .79 | 1.7 | 3.8 | 17 | 7.5 | 1.8 | 1.3 | .57 |
| 2 | .92 | 1.2 | .70 | .89 | .78 | 1.9 | 4.1 | 19 | 7.2 | 1.7 | 1.6 | .78 |
| 3 | .90 | 1.2 | .84 | .86 | .80 | 2.1 | 5.5 | 22 | 6.7 | 1.7 | 1.6 | 1.1 |
| 4 | .86 | 1.2 | .86 | .84 | .82 | 2.6 | 7.2 | 23 | 6.2 | 1.6 | 1.5 | 1.3 |
| 5 | .92 | 1.1 | .88 | .84 | .82 | 3.0 | 4.9 | 22 | 5.8 | 1.6 | 1.5 | 1.6 |
| 6 | .86 | 1.0 | .88 | .84 | .82 | 2.5 | 6.2 | 21 | 5.3 | 1.6 | 1.8 | 1.0 |
| 7 | .79 | .96 | .88 | .85 | .82 | 1.8 | 9.1 | 20 | 4.9 | 1.6 | 2.7 | .74 |
| 8 | .74 | 1.0 | .88 | .89 | .80 | 1.9 | 11 | 18 | 4.5 | 1.5 | 2.4 | .68 |
| 9 | .70 | 1.1 | .88 | .90 | .78 | 3.1 | 21 | 16 | 4.1 | 1.5 | 2.4 | .57 |
| 10 | .72 | 1.2 | .88 | .90 | .80 | 4.4 | 24 | 15 | 3.8 | 1.5 | 2.3 | .45 |
| 11 | .76 | 1.2 | .88 | .90 | .78 | 3.4 | 21 | 15 | 3.4 | 1.5 | 2.1 | .45 |
| 12 | .76 | 1.2 | .88 | .88 | .76 | 3.3 | 23 | 15 | 3.1 | 1.4 | 2.3 | .48 |
| 13 | .78 | 1.3 | .88 | .82 | .73 | 3.3 | 19 | 14 | 2.8 | 1.5 | 2.0 | .30 |
| 14 | .86 | 1.5 | .88 | .80 | .78 | 3.2 | 17 | 13 | 2.5 | 1.6 | 1.7 | .23 |
| 15 | .94 | 1.7 | .88 | .82 | .88 | 3.9 | 15 | 12 | 2.4 | 1.4 | 1.6 | .23 |
| 16 | .96 | 1.6 | .88 | .84 | .94 | 4.6 | 13 | 11 | 2.4 | 1.4 | 1.7 | .26 |
| 17 | 1.0 | 1.6 | .88 | .85 | .96 | 5.9 | 13 | 11 | 2.3 | 1.4 | 1.5 | .17 |
| 18 | 1.1 | 1.6 | .90 | .85 | 1.0 | 5.7 | 12 | 11 | 2.3 | 2.2 | 1.5 | .12 |
| 19 | 1.1 | 1.2 | .90 | .86 | 1.3 | 5.5 | 14 | 11 | 2.2 | 3.6 | 1.4 | .17 |
| 20 | 1.2 | .90 | .89 | .86 | 1.9 | 5.8 | 15 | 9.6 | 2.2 | 3.2 | 1.2 | .18 |
| 21 | 1.2 | .89 | .88 | .89 | 2.9 | 6.8 | 16 | 9.0 | 2.1 | 2.8 | .97 | .26 |
| 22 | 1.2 | .94 | .84 | .92 | 2.7 | 6.9 | 17 | 8.7 | 2.1 | 2.4 | .90 | .54 |
| 23 | 1.2 | .96 | .84 | .94 | 2.2 | 4.7 | 19 | 8.3 | 2.0 | 2.1 | .75 | .41 |
| 24 | 1.2 | .96 | .83 | .94 | 1.6 | 4.8 | 18 | 8.1 | 2.0 | 2.2 | .68 | .45 |
| 25 | 1.1 | .95 | .83 | .89 | 1.4 | 5.5 | 19 | 8.0 | 2.0 | 2.3 | .71 | .54 |
| 26 | 1.2 | .96 | .84 | .90 | 1.4 | 6.6 | 19 | 8.1 | 2.0 | 2.1 | .97 | .60 |
| 27 | 1.2 | 1.0 | .86 | .92 | 1.3 | 5.2 | 19 | 7.9 | 1.9 | 2.0 | .80 | .70 |
| 28 | 1.2 | .98 | .94 | .88 | 1.4 | 4.7 | 19 | 7.7 | 1.8 | 1.8 | .73 | .72 |
| 29 | 1.2 | .90 | .97 | .86 | --- | 4.3 | 19 | 7.6 | 1.8 | 1.6 | .66 | .74 |
| 30 | 1.2 | .85 | .93 | .85 | --- | 4.0 | 19 | 7.5 | 1.8 | 1.6 | .55 | .76 |
| 31 | 1.3 | --- | .90 | .86 | --- | 3.9 | --- | 7.4 | --- | 1.6 | .47 | --- |
| TOTAL | 30.96 | 34.45 | 27.07 | 27.00 | 32.96 | 127.0 | 442.8 | 403.9 | 101.1 | 57.8 | 44.29 | 17.10 |
| MEAN | 1.00 | 1.15 | .87 | .87 | 1.18 | 4.10 | 14.8 | 13.0 | 3.37 | 1.86 | 1.43 | .57 |
| MAX | 1.3 | 1.7 | .97 | .94 | 2.9 | 6.9 | 24 | 23 | 7.5 | 3.6 | 2.7 | 1.6 |
| MIN | .70 | .85 | .70 | .80 | .73 | 1.7 | 3.8 | 7.4 | 1.8 | 1.4 | .47 | .12 |
| AC-FT | 61 | 68 | 54 | 54 | 65 | 252 | 878 | 801 | 201 | 115 | 88 | 34 |

WTR YR 1985 TOTAL 1346.43 MEAN 3.69 MAX 24 MIN .12 AC-FT 2670

Table 7.--*Example printout of ground-water levels*

DATE: 03/30/87

SITE ID 402620107072950
WELL DEPTH 261

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
CALENDAR YEAR JANUARY 1979 TO DECEMBER 1979

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | 36.85 | 36.25 | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 38.10 | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | 37.20 | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | 36.50 | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | 36.25 | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | 36.20 | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | 38.04 | --- | 36.89 | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 36.34 | --- | --- |
| MAX | --- | --- | --- | --- | 38.04 | 36.85 | 36.89 | 37.20 | --- | 36.34 | 38.10 | --- |
| MIN | --- | --- | --- | --- | 38.04 | 36.20 | 36.25 | 37.20 | --- | 36.34 | 38.10 | --- |

CALENDAR YEAR 1979 HIGHEST 36.20 JUN 22, 1979 LOWEST 38.10 NOV 09, 1979

Table 8.--*Example printout of U.S. Geological Survey water-quality data*

DISTRICT CODE 08 — UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 3-27-87

09243700 - MIDDLE CREEK NEAR OAK CREEK, CO.

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1981 TO DECEMBER 1981

| DATE | TEMPERATURE (DEG C) (00010) | AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028) | SPECIFIC CONDUCTANCE (US/CM) (00095) | OXYGEN, DISSOLVED (MG/L) (00300) | PH (STANDARD UNITS) (00400) | PH LAB (STANDARD UNITS) (00403) | NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608) | NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613) | NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618) | NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631) | PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN 20... | 0.0 | 80020 | 890 | 11.9 | 7.60 | 8.00 | 0.00 | -- | -- | 0.28 | 0.0 |
| FEB 25... | 0.0 | 80020 | 660 | 11.7 | 8.00 | 7.90 | -- | -- | -- | 0.48 | 0.18 |
| MAR 31... | 2.0 | 80020 | 655 | 12.8 | 8.40 | 8.20 | -- | -- | -- | 0.10 | 0.0 |
| APR 29... | 13.0 | 80020 | 690 | 10.0 | 8.30 | 8.30 | -- | -- | -- | 0.02 | 0.25 |
| MAY 27... | 16.0 | 80020 | 680 | 8.7 | 8.20 | 8.30 | -- | 0.00 | 0.04 | 0.04 | 0.09 |
| JUL 01... | 20.0 | 80020 | 666 | 7.6 | 8.30 | 8.30 | -- | -- | -- | 0.01 | 0.46 |
| 29... | 21.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 21.0 | 80020 | 735 | 7.9 | 8.10 | 8.20 | -- | -- | -- | 0.00 | 0.0 |

| DATE | HARDNESS (MG/L AS CACO3) (00900) | HARDNESS NONCARB WH WAT TOT FLD MG/L AS CACO3 (00902) | CALCIUM DISSOLVED (MG/L AS CA) (00915) | MAGNESIUM, DISSOLVED (MG/L AS MG) (00925) | SODIUM, DISSOLVED (MG/L AS NA) (00930) | SODIUM ADSORPTION RATIO (00931) | POTASSIUM, DISSOLVED (MG/L AS K) (00935) | CHLORIDE, DISSOLVED (MG/L AS CL) (00940) | SULFATE DISSOLVED (MG/L AS SO4) (00945) | ARSENIC TOTAL (UG/L AS AS) (01002) | BORON, DISSOLVED (UG/L AS B) (01020) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN 20... | 370 | 67 | 86 | 37 | 51 | 1 | 2.1 | 5.8 | 180 | -- | 40 |
| FEB 25... | 290 | 82 | 69 | 29 | 37 | 1 | 5.7 | 6.0 | 160 | -- | 10 |
| MAR 31... | 280 | 56 | 66 | 27 | 33 | 0.9 | 2.7 | 4.9 | 140 | -- | 30 |
| APR 29... | 330 | 48 | 77 | 33 | 34 | 0.8 | 3.0 | 4.7 | 120 | 1 | 30 |
| MAY 27... | 300 | 81 | 71 | 30 | 33 | 0.9 | 2.8 | 4.1 | 130 | -- | 20 |
| JUL 01... | 310 | 47 | 72 | 31 | 32 | 0.8 | 3.1 | 3.8 | 120 | -- | 40 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 320 | 51 | 71 | 35 | 41 | 1 | 3.4 | 4.6 | 130 | -- | 50 |

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