

SELECTED HYDROLOGIC AND PHYSICAL PROPERTIES OF
MESOZOIC FORMATIONS IN THE UPPER COLORADO RIVER
BASIN IN ARIZONA, COLORADO, UTAH, AND WYOMING—
EXCLUDING THE SAN JUAN BASIN

by Jay F. Weigel

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 86-4170



A product of the Upper Colorado River Basin
Regional Aquifer-System Analysis Program

Salt Lake City, Utah
1987

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CONVERSION FACTORS

For readers who prefer to use metric units, conversion factors for terms used in this report are listed below:

<u>Multiply</u>	<u>by</u>	<u>To obtain</u>
acre	0.4047	hecture
barrel per day	0.159	cubic meter per day
foot	0.3048	meter
foot per day	0.3048	meter per day
gallon per day per foot	0.0124	cubic meter per day per meter
gallon per minute	0.06308	liter per second
mile	1.609	kilometer
pounds per square inch	6.895	kilopascal
foot squared per day	0.0929	meter squared per day
square mile	2.590	square kilometer

Water temperature in degrees Fahrenheit ($^{\circ}$ F) can be converted to degrees Celsius ($^{\circ}$ C) by the following equation:

$$^{\circ}\text{C} = \frac{^{\circ}\text{F} - 32}{1.8}$$

SYMBOLS AND DIMENSIONS USED IN THIS REPORT

<u>Symbol</u>	<u>Dimension</u>	<u>Description</u>
B	--	Formation volume factor
C	--	A constant for a well of a given radius [K was used by Theis (1963) and Brown (1963)]
K	feet per day	Hydraulic conductivity
K ₆₀	feet per day	Hydraulic conductivity at 60° F
K _h	millidarcies per centipoise	Estimate of hydraulic conductivity derived from drill-stem tests in metric units, assuming that density changes are negligible
K _w	millidarcies per centipoise	Hydraulic conductivity from laboratory analysis using freshwater as the test fluid
P _f	pounds per square inch	Final pressure of the pressure build-up period of a drill-stem test
P _i	pounds per square inch	Initial pressure of the pressure build-up period of a drill-stem test
Q	gallons per minute	Pumping rate of a well
S	--	Storage coefficient or specific yield
T	feet squared per day	Transmissivity (preferred units)
T'	gallons per day per foot	Term used with specific capacity to estimate transmissivity
T _a	gallon per day per foot	Transmissivity in units used with computations of specific capacity
h	feet	Length of the interval tested
k _a	millidarcies	Permeability to air
m	--	Slope of a line
q	barrels per day	Flow rate used with drill-stem tests, 1 barrel equals 42 U.S. gallons
r	feet	Radius of well
s	feet	Drawdown in a well
t	hours	Time
t _f	hours	Duration of flow period in a drill-stem test
t _s	hours	Duration of a shut-in period in a drill-stem test

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ABSTRACT

Data for hydrologic and physical properties of Mesozoic formations in the Upper Colorado River Basin, excluding the San Juan Basin, have been collected by government agencies, private industry, property owners, and other sources. These data were compiled and analyzed so that they would be available for use by hydrologists, earth scientists, planners, and others.

Five methods of data analysis are discussed. The results of these five methods are not directly comparable because of differences in the volume of an aquifer represented by each method. Aquifer tests represent the largest volume of an aquifer, specific capacity and drill-stem tests represent a smaller volume, slug-injection tests represent a still smaller volume, and laboratory tests represent the smallest volume. Laboratory data for permeability to air and hydraulic conductivity were determined to be related by a simple power function.

INTRODUCTION

The U.S. Geological Survey initiated a Regional Aquifers System Analysis (RASA) program in 1975 to provide a quantitative assessment of the groundwater resources of the Nation by regions. The study of the Upper Colorado River Basin is part of the RASA program.

Location of the Study Area

The study area for the Upper Colorado River Basin RASA (fig. 1) includes the Colorado River drainage basin upstream from Lee Ferry, Arizona, excluding the upper San Juan River drainage basin upstream from the Four Corners. The study area includes the Great Divide Basin in southern Wyoming. The size of the study area is about 98,900 square miles in northeastern Arizona, western Colorado, eastern Utah, and southwestern Wyoming.

The study area is characterized by mountains, high plateaus, and deep incised valleys. Altitudes range from 3,100 feet at Lee Ferry to more than 14,000 feet along the eastern boundary in Colorado.

Purpose and Scope

Data describing the hydrologic and physical properties of Mesozoic formations in the Upper Colorado River Basin are available in unpublished form from government agencies, private industry, and property owners and in publications from government agencies, private industry, and universities. The data were collected for studies concerned with the use or protection of water, with petroleum development, or research. The purpose of this report is

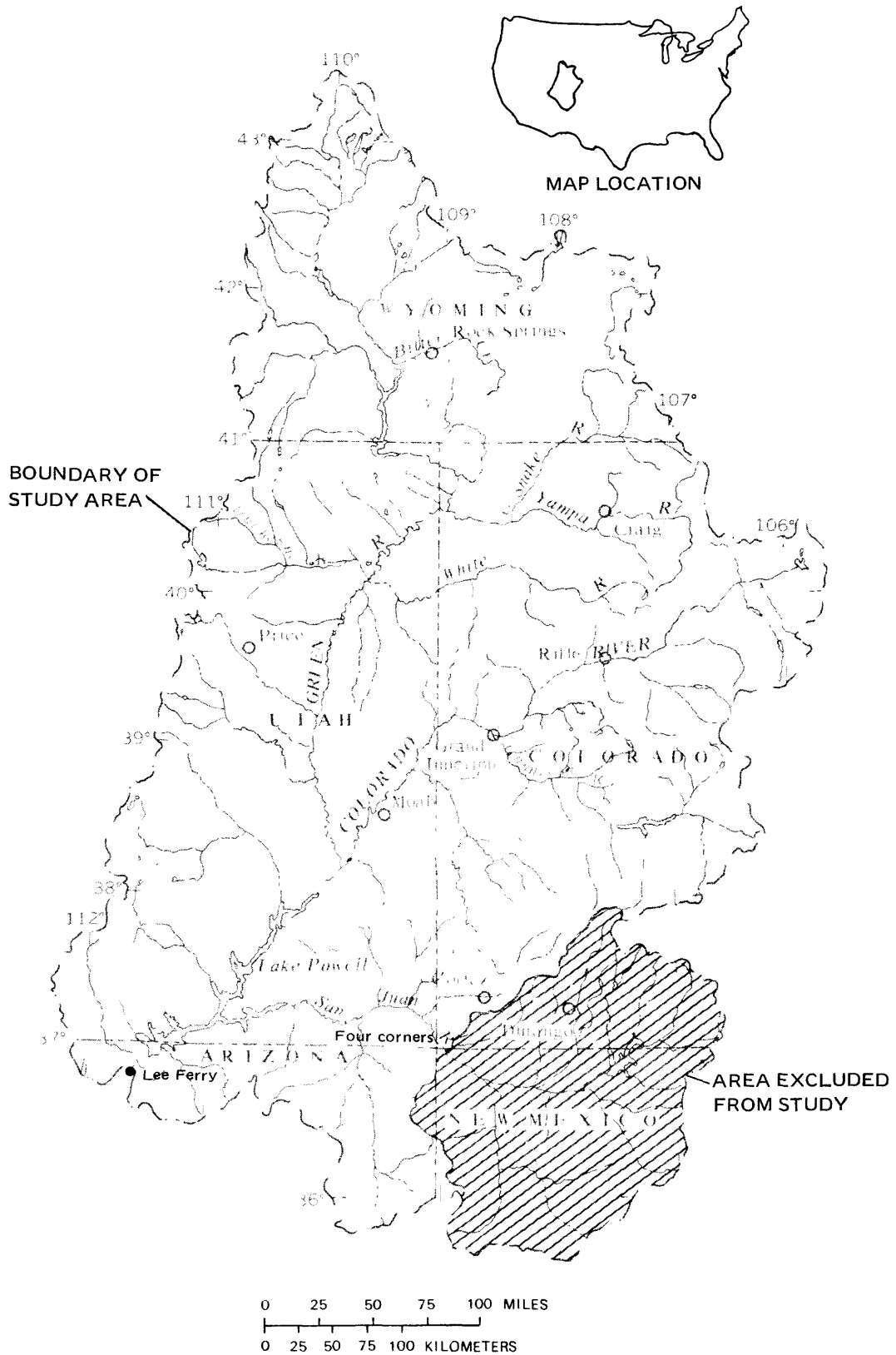


Figure 1.—Location of the study area.

to compile the data available from various sources and to make it available for hydrologists, earth scientists, planners, and other users. The Mesozoic formations for which data are presented in this report are listed in table 1, and tables 2 and 3 give the location and description of wells and sampling sites for which hydrologic or physical properties are reported.

Data in this report do not represent complete areal, or formation coverage of the study area. The data were collected in connection with water or petroleum production; therefore, the data apply primarily to formations that contain water or petroleum. In some areas, Mesozoic formations are too deep to be an economical source of water or petroleum at this time (1986); so in those areas, few if any data are available.

SITE NUMBERING SYSTEMS

In accordance with the methods used in Arizona, Colorado, Utah, Wyoming, and the Navajo Indian Reservation in Arizona, separate numbering systems are used in this report for sites in each area. The numbering systems for the four States are based on the system of the U.S. Bureau of Land Management for land subdivision. The system uses survey, quadrant, township, range, section, and position within the section to locate data sites.

Each survey is divided into four quadrants by the intersection of a principal meridian and base line—'A' denotes the northeast quadrant, 'B' the northwest quadrant, 'C' the southwest quadrant, and 'D' the southeast quadrant. Townships are numbered starting at the base line and increase northward and southward. Ranges are numbered starting at the principal meridian and increase eastward and westward. A township that is defined by the township and range numbers is subdivided into 36 sections and numbered as shown in figure 2. Each section is subdivided into quarter sections; quarter sections into quarter-quarter sections; and quarter-quarter sections into quarter-quarter-quarter sections, usually a 10-acre tract (fig. 2). For each level of the section, subdivision 'A' denotes the northeast quarter, 'B' the northwest quarter, 'C' the southwest quarter, and 'D' the southeast quarter.

Arizona

The numbering system used in Arizona, except on the Navajo Indian Reservation, is based on the U.S. Bureau of Land Management's system of land subdivision and the Gila and Salt River Meridian and base line (fig. 2). Within the parentheses, the capital letter denotes the quadrant, and it is followed by the township, and range numbers. The section number is next, followed by three lowercase letters that denote the quarter section, the quarter-quarter section, and the quarter-quarter-quarter section. If there is more than one data site in the 10-acre tract, consecutive numbers beginning with 1 are added as suffixes. A typical example of a number is (A-40- 4)14ada (see fig. 2).

Colorado

Three surveys in the study area in Colorado (fig. 2) use the U.S. Bureau of Land Management's system of land subdivision. The first letter in a site number denotes the survey--S denotes the sixth principal meridian and base line, N the New Mexico Principal Meridian and base line, and U the Ute

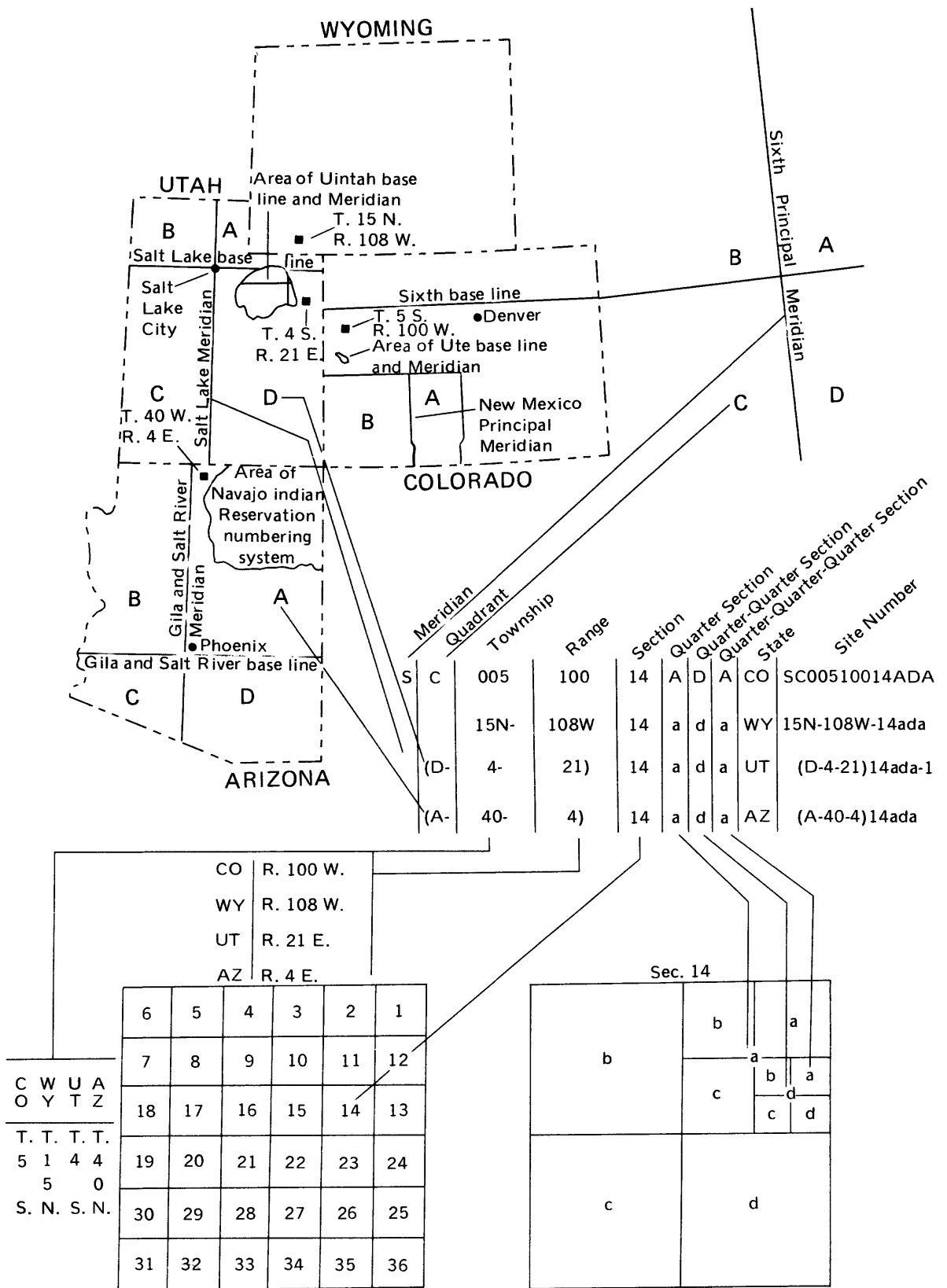


Figure 2.—Numbering systems for data sites in Arizona, Colorado, Utah, and Wyoming.

Principal Meridian and base line. The second letter denotes the quadrant. Next, there is an eight-digit number, the first three digits of which denote the township, the following three digits the range, and the last two digits the section. Next are three letters that denote the quarter section, the quarter-quarter section, and the quarter-quarter-quarter section. If there is more than one data site in the 10-acre tract, consecutive numbers beginning with 1 are added as suffixes. A typical example of a number is SC00510014ADA (see fig. 2).

Utah

In Utah, the U.S. Bureau of Land Management's system of land subdivision is used with two surveys. The Salt Lake Meridian and base line is used for all of Utah except for a small area in the northeast part of the State, where the Uinta Meridian and base line is used (see fig. 2). The Utah number has the same format as the Arizona number. If there is no letter before the parentheses, the Salt Lake Meridian and base line apply. The capital letter U before the parentheses denotes the Uinta Meridian and base line. A capital letter T before the parentheses denotes one-half of a township; a capital letter R before the parentheses denotes one-half of a range. A well site will always have a number added as a suffix if a quarter-quarter-quarter section is given. All other site numbers will not have a suffix. A typical example of a number is (D- 4-21)14ada- 1 (see fig. 2).

Wyoming

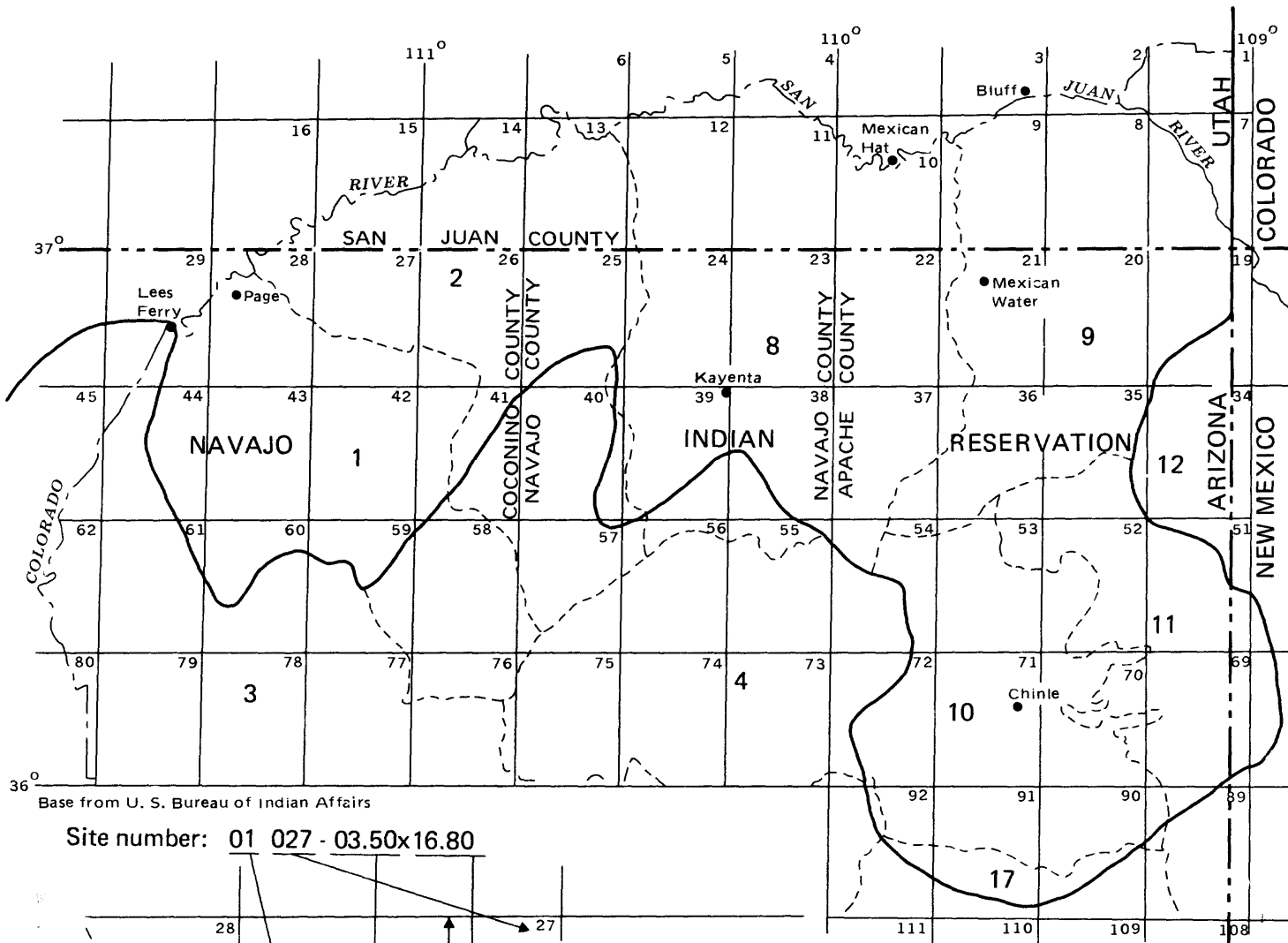
In the study area in Wyoming, the U.S. Bureau of Land Management's system of land subdivision is used with the sixth principal meridian and base line. The first number and the letter N denote the township, and the second number and the letter W denote the range. This is followed by a dash, the section number, and three lowercase letters that denote the quarter section, quarter-quarter section, and quarter-quarter-quarter section in that order. If there is more than one data site in the 10-acre tract, consecutive numbers beginning with 1 are added as suffixes. A typical example of a number is 15N-108W-14ada (see fig. 2).

Navajo Indian Reservation

The site numbering system used on the Navajo Indian Reservation is based on the U.S. Bureau of Indian Affairs' districts and 15-minute quadrangles (fig. 3). The number is in four parts. The first part is the number of the Bureau of Indian Affairs' district, the second part is the number of the quadrangle, the third is the distance, in miles, west from the northeast corner of the quadrangle, and the fourth is the distance, in miles, south from the northeast corner of the quadrangle. A typical example of a number is 01 027-03.50x16.80 (fig. 3). This numbering system is used in this report for sites on the Navajo Indian Reservation in Arizona. Sites in the Utah part of the reservation have a Utah number.

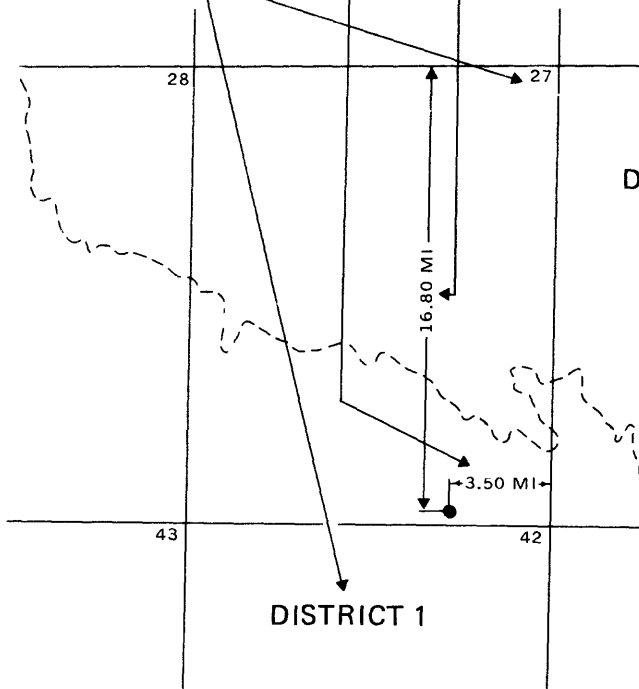
METHODS OF ANALYSIS

The data presented in this report are summarized from the files of the U.S. Geological Survey, the Colorado State Engineer, Petroleum Information Service, and from previously published reports. Values for hydrologic and



Base from U. S. Bureau of Indian Affairs

Site number: 01 027 - 03.50x16.80



DISTRICT 2

EXPLANATION

- — — — — RESERVATION BOUNDARY
- - - - - 3 BUREAU OF INDIAN AFFAIRS DISTRICT BOUNDARY AND NUMBER OF DISTRICT
- 10 | NUMBER OF 15-MINUTE QUADRANGLE
- STUDY AREA BOUNDARY

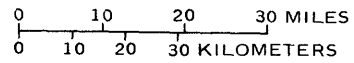


Figure 3.—Numbering system used for data sites on the Navajo Indian Reservation, Arizona.

physical properties were obtained by several methods of data analysis, some empirical and others analytical. The method used and its inherent accuracy depended on the type of data available, and different methods may have resulted in different values for the same property. Direct comparison of values for the same properties using different methods is not appropriate because they may have resulted from tests of a large or a small volume of an aquifer.

Field Methods

Different field methods of data collection and analysis were involved in the computation of hydraulic conductivity, transmissivity, and storage coefficient (table 4). Aquifer tests by pumping or injection traditionally are used for hydrologic studies; drill-stem tests are used predominantly in the petroleum industry, but they can be used to test deep aquifers or to test wells that are not suitable for pumping.

This section includes a discussion of data-collection and data-analysis methods and comparisons of the relative reliability of the methods. Also included are references for more detailed information about the methods.

The analytical methods discussed solve for transmissivity (T) or hydraulic conductivity (K). The relation between transmissivity and hydraulic conductivity is

$$T = Kh$$

where h is the aquifer thickness. Most well data available do not indicate whether the aquifer was fully or partially penetrated. In this report, therefore, h is the length of the test interval. Reported values for transmissivity and hydraulic conductivity represent the test interval, which is not necessarily the full thickness of the aquifer. This may lead to an underestimate of the value of transmissivity of the aquifer.

Aquifer Tests

Aquifer tests are studies of the changes in water levels in wells caused by pumping a well. They provide the most accurate field estimate of regional hydraulic conductivity and transmissivity because aquifer tests involve larger volumes of an aquifer than the other methods discussed in the report.

Water levels in an aquifer are measured prior to pumping, then a well is pumped at a measured rate for a measured period of time, and water-level measurements are made at recorded times during the pumping and post-pumping periods. Aquifer tests can be made in a single well, where the well is pumped and water-level measurements are made in the pumped well; or in a multi-well system, where a well is pumped and water-level measurements are made in the pumped well and in observation wells at different distances from the pumped well.

Many methods can be used to analyze aquifer tests, but all methods used for this report were derived from the Theis equation, which relates the change of the potentiometric surface to pumping rate and pumping time (Theis, 1935). An explanation of these methods is given by Stallman (1971) and Heath (1983) and in more detail by Bentall (1963), Lohman (1972), and Reed (1980).

The reliability of an aquifer test is dependent on many factors, such as the finish of the wells involved, the extent of penetration of the aquifer, and the length of pumping. Water-level measurements in an observation well are considered more reliable than measurements in a pumped well because there may be more drawdown inside the pumped well than in the aquifer around the well due to the way the well was drilled or finished.

Estimates from Specific Capacity

The specific capacity (Q/s) of a well is the pumping rate (Q) divided by the drawdown (s), and it can be used to estimate the transmissivity of an aquifer.

For unconfined aquifers, Theis (1963, p. 332-333) presented these equations

$$T' = T_a^{-264} (Q/s) \log_{10} (T_a(10^{-5})) \quad (1)$$

and

$$T' = (Q/s)(C - 264 \log_{10} 5S + 264 \log_{10} t) \quad (2)$$

$$C = -66 - 264 \log_{10} (3.74 r^2(10^{-6})) \quad (3)$$

where T_a is transmissivity, in gallons per day per foot; C (Theis used K) is a constant for a well of a given radius; and S is the specific yield of the aquifer.

Knowing the radius (r) and the specific capacity of the well, knowing or estimating pumping time (t), and estimating specific yield to be 0.08, T' was computed. If pumping time was known, that value was used; but if pumping time was not known, an estimated pumping time of 2 hours was used (the most common pumping time mentioned in the available data). Specific yield was estimated to be 0.08, based on the median assumed specific yields presented by Hood and Patterson (1984, p. 33).

Having computed T' , transmissivity can be estimated by solving equation 1. As transmissivity is in the equation at two levels, the equation cannot be solved directly. Theis (1963, p. 334) presented a graph that can be used to estimate transmissivity, knowing T' and specific capacity.

Values of transmissivity, in gallons per day per foot, were obtained from a computer simulation of Theis' graph. These values were converted to feet squared per day by using the following equation:

$$T = T_a \cdot 0.134 \quad (4)$$

For confined aquifers, Brown (1963, p. 337) presented equations for C (Brown used K) and T' that are similar to equations 2 and 3.

$$T' = (Q/s) (C - 264 \log_{10} (5S(10^3)) - 264 \log_{10} t) \quad (5)$$

and

$$C = -66 - 264 \log_{10} (3.74 r^2(10^{-9})) \quad (6)$$

where S is the storage coefficient of the aquifer.

Knowing the radius and specific capacity of the well, knowing or estimating the pumping time, and estimating the storage coefficient, T' was computed. If pumping time was known, that value was used; but if pumping time was not known, an estimate of 2 hours was used (the most common pumping time mentioned in the available data). The storage coefficient was estimated to be 0.0001, as it is the midpoint of the range in values expected (0.001 to 0.00001), and this estimate was used by Hood and Danielson (1981, p. 17) for several Mesozoic sandstones.

Transmissivity was estimated using equation 1 and the computer simulation of Theis' graph described previously. This method of estimating transmissivity is considered to be accurate within one order of magnitude (Brown, 1963, p. 336).

Estimates derived from the specific capacity of a well are not as reliable as those derived from an aquifer test because the latter represents a larger volume of the aquifer. Specific-capacity data, however, can be useful for areal comparisons and in reconnaissances (Theis and others, 1963, p. 331).

Drill-Stem Tests

Drill-stem tests used primarily by the petroleum industry for deep-well production tests. These test data, however, also can be useful in hydrologic studies to determine pressure heads and hydraulic conductivity.

Drill-stem tests use inflatable straddle packers which have valves to control fluid flow through the tool and recording pressure transducers. The tool is attached to the drill stem and lowered into a well. An interval of the well is isolated, usually by inflatable packers at the top and bottom of the interval. Then valves are opened in the tool to allow fluid, which is under pressure in the aquifer to flow up the drill stem. The valves are closed, and the pressure readings inside the tool are recorded. For a more detailed discussion of this method and its variations, refer to Earllougher (1977, p. 91-93) and Bredehoeft (1965, p. 31-36).

Data in this report that were obtained from drill-stem tests were analyzed by the Horner graphical method or the limited-data analysis (Earllougher, 1977, p. 94). An explanation of the Horner graphical method can be found in Teller and Chafin (in press), Bredehoeft (1965, p. 31-36), or Earllougher (1977, p. 94-96).

All the drill-stem data presented in this report that were analyzed by the Horner graphical method were obtained from Teller and Chafin (in press, tables 6, 7, and 8). The data include values of hydraulic conductivity, in millidarcies per centipoise (K_h). These units are a simplification of the true units, because, by definition, hydraulic conductivity has a density factor that is not represented in the units millidarcies per centipoise. The drill-stem data were analyzed only if the formation fluid was assumed to have a density about equal to that of freshwater. Therefore, the changes in density would be negligible and were not used in this report. Hydraulic conductivity, in millidarcies per centipoise, was converted to hydraulic conductivity, in feet per day, using the following equation:

$$K = K_h \cdot 0.002742 \quad (7)$$

The limited-data analysis (Earlougher, 1977, p. 94) is a quick analysis that is usually done in the field when complete data are not available. The limited-data analysis was used for this report where drill-stem data did not meet the requirements for the Horner graphical method.

The limited-data analysis uses the flow rate (q), the length of the test interval (h), the length of time that the well was flowing (t_f), the length of time that the tool was closed and the pressure was allowed to build up inside the tool (t_s), the initial pressure in the tool when the valve was closed (P_i), and the final pressure (P_f) when the test was completed. Using

$$m = (P_i - P_f) / \log_{10}((t_f + t_s) / t_s)$$

where m estimates the slope of a line on a semilog-scale graph of pressure versus time. This slope is then used to compute hydraulic conductivity, in millidarcies per centipoise, using

$$K_h = (162.6 q B) / (mh)$$

where B is a formation-volume factor for water that is estimated to be 1. The estimate is based on a graph presented by Earlougher (1977, p. 228) to estimate formation-volume factors. The hydraulic conductivity (K_h) and equation 7 can be used to compute hydraulic conductivity, in feet per day.

The volume of an aquifer represented by a drill-stem test is similar to the volume represented using the specific-capacity method for confined aquifers. The relative reliability of the two methods, therefore, is considered equal. The Horner graphic method of analysis is preferred because it uses more data than the limited-data analysis.

Slug-Injection Tests

A slug-injection test involves injecting a known volume of water as close to instantaneously as possible into a well and making a rapid series of water-level measurements. The analysis of the data, which is based on the Theis equation, is described in detail by Ferris and Knowles (1963) and Lohman (1972, p. 27).

Estimates of transmissivity using a slug-injection test under appropriate conditions are considered reliable in the immediate vicinity of the well (Ferris and Knowles, 1963, p. 299). The specific-capacity method of analysis is more reliable than the slug-injection test because it represents a larger volume of the aquifer.

Laboratory Methods

Values for permeability to air, hydraulic conductivity, and porosity were determined from laboratory analyses of rock samples (table 5). Laboratory analysis for permeability can be done with water or air as the test medium. Methods and analysis for permeability to air can be found in American Petroleum Institute (1960, p. 18, 33-36, 41-42) and Keelan (1977, p. 119-121). Basic methods and analysis for permeability to water can be found in Morris and Johnson (1967, p. 7-10). The results of the analysis for permeability to air are reported in millidarcies. Permeability to water was considered to be hydraulic conductivity, in millidarcies per centipoise, because the laboratory procedures and analysis do not correct viscosity for temperature differences. Equation 7 was used to convert hydraulic conductivity, in millidarcies per centipoise, to hydraulic conductivity, in feet per day. Permeability to air was converted to hydraulic conductivity at 60° F, using

$$K_{60} = k_a \ 0.002439$$

where 0.002439 is a conversion factor to convert millidarcies to hydraulic conductivity at 60° F.

Permeability to air is not equal to hydraulic conductivity, as was demonstrated by analysis of some rock samples for both values. Most of the samples came from the Navajo, Entrada, and Wingate Sandstones, and the Salt Wash Member of the Morrison Formation. The Kayenta Formation, Dakota Sandstone, Cedar Mountain Formation, and Nugget Sandstone also were sampled. A graph of the data using a log-log scale shows a straight-line relationship between permeability to air and hydraulic conductivity (fig. 4). The point scatter at the low end of the scale is due to reporting limits of the analysis and by gas-slippage effects. A Klinkenberg correction could be applied to the data for permeability to air to correct for the gas slippage, but it was not used in this report. The Klinkenberg correction, which would decrease the values of permeability to air, has the greatest effect on small values of permeability (Keelan, 1977, p. 120; and American Petroleum Institute, 1960, p. 18, 41). By a least-squares-regression analysis of the values for permeability to air and hydraulic conductivity, the equation

$$K_w = 0.2825 k_a^{1.033} \tag{8}$$

was computed, with an R² of 0.90 where K_w is the hydraulic conductivity and k_a is the permeability to air.

The relation between permeability to air and hydraulic conductivity needs to be used with caution. Permeability values can be different for freshwater or brine, depending on the quantity of clay in a sample. Equation 8 would be most useful for converting permeability to air to hydraulic conductivity for the formations represented by the regression data.

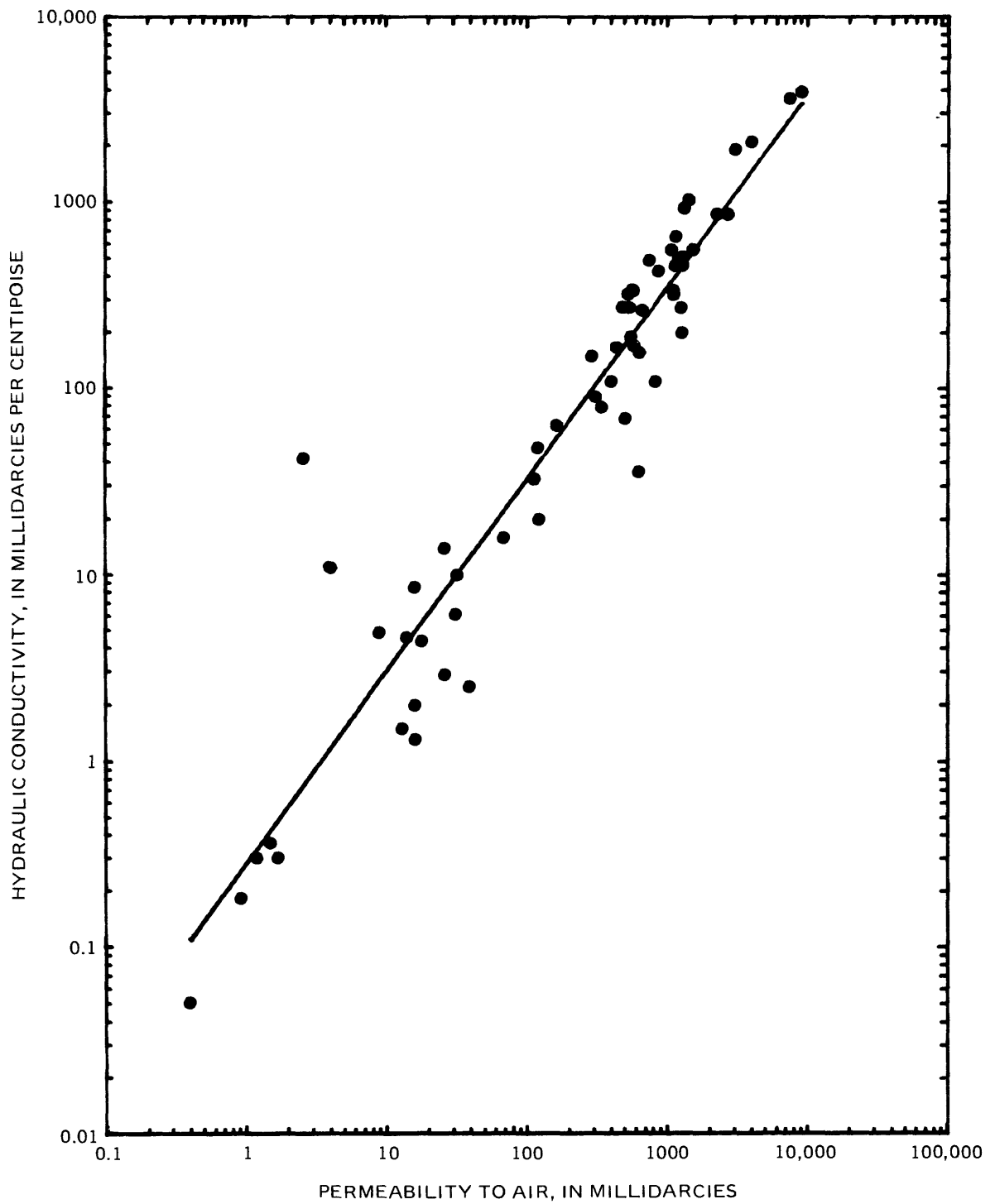


Figure 4.—Relation of hydraulic conductivity and permeability to air in Mesozoic aquifer units.

The porosity data in table 5 are effective porosities. Methods of analysis are described in American Petroleum Institute (1960, p. 17, 28-30, 40) and Keelan (1977, p. 118-119).

The grain-size data in table 6 were obtained mostly by sieve analysis. See Ingram (1971, p. 49-67) for an explanation of a sieve analysis. Uygur (1980, p. 31-33) measured grain size by examining thin sections of cores with an eyepiece micrometer. Grain-size data may be reported in many different classifications, but this report uses the classifications of Wentworth (1922) or the Tyler sieve series (W. S. Tyler Co., 1943).

Laboratory analysis provides data at a point, therefore, it may not provide a good representation for the entire aquifer. If more than one rock sample from an aquifer were analyzed, an arithmetic mean would provide a better representation for the entire aquifer. Field test data generally are preferred.

SUMMARY

Test methods and analyses were compared for their reliability in determining hydrologic characteristics of aquifers. Aquifer tests were considered to give the best estimates of hydrologic characteristics because such tests represented large volumes of an aquifer. Estimates from specific capacity and drill-stem tests were ranked second in reliability. They both represent about the same volume of an aquifer, but less than the volume represented by an aquifer test. A slug-injection test was ranked third, because that test represents only the aquifer in the immediate vicinity of the well. Laboratory tests were ranked fourth, because they represent only a point in the aquifer.

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Table 1.—Mesozoic formations referred to in this report

211ADVL	Adaville Formation
211ALMD	Almond Formation of Mesaverde Group
211ARDG	Allen Ridge Formation of Mesaverde Group
211BCKK	Blackhawk Formation of Mesaverde Group
211BLGT	Blue Gate Member of Mancos Shale
211BLIR	Blair Formation of Mesaverde Group
211EXTR	Baxter Shale
211CLFH	Cliff House Sandstone of Mesaverde Group
211CODY	Cody Shale
211CRCK	Currant Creek Formation
211CRCSU	Cretaceous System—Upper
211CSLG	Castlegate Sandstone of Mesaverde Group
211DKOT	Dakota Sandstone (also 217DKOT in Colorado, Utah, and Wyoming)
211ERCS	Ericson Sandstone of Mesaverde Group
211FRNR	Frontier Sandstone Member of Mancos Shale or Frontier Formation (in Wyoming, also 217FRNR)
211FRRN	Ferron Sandstone Member of Mancos Shale
211FXHL	Fox Hills Sandstone
211GLLP	Gallup Sandstone of Mesaverde Group (in Arizona)
211HLRD	Hilliard Shale
211ILES	Iles Formation of Mesaverde Group
211LNCE	Lance Formation
211LWIS	Lewis Shale
211MENF	Menefee Formation of Mesaverde Group
211MNCS	Mancos Shale (also 217MNCS)
211MRPS	Morapos Sandstone Member of Mancos Shale
211MVRD	Mesaverde Group
211NSLN	Neslen Formation of Mesaverde Group
211ORDG	Oyster Ridge Sandstone Member of Frontier Formation
211PCCF	Pictured Cliffs Sandstone
211PNLK	Point Lookout Sandstone of Mesaverde Group
211RKSP	Rock Springs Formation of Mesaverde Group
211SEGO	Sego Sandstone of Mesaverde Group
211SGCF	Straight Cliffs Sandstone
211SNNN	Shannon Sandstone Member of Cody Shale
211SRPN	Star Point Sandstone of Mesaverde Group
211STEL	Steele Shale
211TRPC	Tropic Shale
211WHWP	Wahweap Sandstone
211WMFK	Williams Fork Formation of Mesaverde Group
217ASPN	Aspen Shale
217BRCN	Burro Canyon Formation
217CDRM	Cedar Mountain Formation
217CLVL	Cloverly Formation
217CRCSL	Cretaceous System—Lower
217DKOT	Dakota Sandstone (also 211DKOT in Arizona and Utah)
217LKOT	Lakota Formation in Inyan Kara Group

Table 1.—Mesozoic formations referred to in this report—Continued

217MDDY	Muddy Sandstone Member of Thermopolis Shale
217MWRV	Mowry Member of Mancos Shale
220NGGT	Nugget Sandstone (also 231NGGT)
221BLFF	Bluff Sandstone Member of Morrison Formation
221BRSB	Brushy Basin Member of Morrison Formation
221MRSN	Morrison Formation
221SLWS	Salt Wash Member of Morrison Formation
221SNDC	Sundance Formation (also 224SNDC)
221STMP	Stump Formation (also 224STMP)
221WSRC	Westwater Canyon Member of Morrison Formation
224CRML	Carmel Formation of San Rafael Group
224CRTS	Curtis Formation of San Rafael Group
224CSPG	Cow Springs Sandstone
224ENRD	Entrada Sandstone of San Rafael Group
224JCCK	Junction Creek Sandstone of San Rafael Group
224MOAB	Moab Member of Entrada Sandstone
224SKRK	Slick Rock Member of Entrada Sandstone
224SMVL	Summerville Formation of San Rafael Group
224TCRK	Twin Creek Limestone
224WNSR	Winsor Member of Carmel Formation
227GLNC	Glen Canyon Sandstone (also 231GLNC)
227NVJO	Navajo Sandstone of Glen Canyon Group (also 231NVJO)
231ANKR	Ankareh Formation (also 237ANKR)
231CHNL	Chinle Formation
231CRMN	Crow Mountain Sandstone of Chugwater Group
231GRTR	Gartra Member of Chinle Formation
231KYNT	Kayenta Formation of Glen Canyon Group
231LKCK	Lukachukai Member of Wingate Sandstone
231MBCK	Moss Back Member of Chinle Formation
231MNRB	Monitor Butte Member of Chinle Formation
231MONV	Moenave Formation of Glen Canyon Group (also 237MNKP)
231ORCK	Owl Rock Member of Chinle Formation
231SNSL	Sonsela Sandstone Bed of Petrified Forest Member of Chinle Formation
231SRMP	Shinarump Member of Chinle Formation
231WNGT	Wingate Sandstone of Glen Canyon Group
234MNKP	Moenkopi Formation (also 237MNKP)
237DNDY	Dinwoody Formation
237SNBD	Sinbad Limestone Member of Moenkopi Formation
237TMPP	Timpoweap Member of Moenkopi Formation
237TYNS	Thaynes Formation
237WDSD	Woodside Formation

Table 2.—Location and description of wells for which hydrologic or physical properties are presented

Site number: See text for explanation of site-numbering systems.

Depth: Depth below land surface.

Type of well: O, observation well; P, petroleum-test well; T, test well; U, unused well; W, water well; X, unknown; Z, destroyed.

Log-data available: A, time; C, caliper; D, driller's; E, electric; F, fluid-conductivity; G, geologist's; I, induction; J, gamma-ray;

L, laterolog; M, microlaterolog; N, neutron; S, sonic; T, temperature; U, gamma-gamma; V, fluid velocity; Z, other.

Remarks: Source of data: USGS, U.S. Geological Survey; CSE, Colorado State Engineer; PI, Petroleum Information Service; T&C, Teller and Chafin (in press). Formation codes: See table 1.

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Arizona								
Apache County								
08 022-03.10x06.68	36 54 15	109 48 22	5,300	367	W	D	4	USGS, 227NWJO
08 022-05.23x10.58	36 50 45	109 50 40	5,020	675	W	D	4	USGS, 227NWJO
08 022-05.28x10.68	36 50 40	109 50 45	5,030	707	W	D	4	USGS, 227NWJO
08 022-05.55x10.78	36 50 37	109 51 00	5,040	370	W	D	4	USGS, 227NWJO
08 022-05.65x15.80	36 46 13	109 51 08	5,245	202	W	D	4	USGS, 227NWJO
08 022-07.95x12.84	36 48 50	109 53 34	5,080	950	W	—	4	USGS, 227NWJO
08 037-00.61x05.19	36 40 28	109 45 40	5,430	300	W	D	4	USGS, 227NWJO
08 037-08.20x15.95	36 31 07	109 53 49	5,625	450	W	G	4	USGS, 227NWJO
08 037-08.51x15.87	36 31 12	109 54 12	5,630	1,160	W	D,J,U	4	USGS, 227NWJO
08 037-13.27x14.38	36 32 28	109 59 19	5,830	690	W	D	4	USGS, 227NWJO
08 054-09.63x01.28	36 28 54	109 55 22	5,822	461	W	D,G	4	USGS, 227NWJO
08 054-10.80x01.78	36 28 28	109 56 38	6,080	6,754	W	C,G,L	4	USGS, 227NWJO
08 054-10.96x00.63	36 29 36	109 56 41	5,863	851	O	I,D,J	4	USGS, 227NWJO
09 019-05.82x06.78	36 54 07	109 06 20	5,300	543	W	C,D,J	4	USGS, 221SLWS
09 019-05.91x06.15	36 54 40	109 06 24	5,290	556	W	D	4	USGS, 221SLWS
09 019-05.95x06.80	36 54 05	109 06 26	5,365	600	W	C,D,J	4	USGS, 221MRSN
09 019-06.13x04.58	36 56 00	109 06 39	5,080	285	W	D	4	USGS, 221LFFP, 221SLWS, 227NWJO
09 035-09.58x01.52	36 43 40	109 25 24	6,210	853	W	D,G	4	USGS, 231LCK
09 036-10.89x12.14	36 34 26	109 41 46	5,485	641	W	G	4	USGS, 231LCK
10 053-07.10x08.81	36 22 19	109 37 38	5,308	1,250	W	E	4	USGS, 231SRMP
10 053-07.30x09.19	36 22 00	109 37 52	5,308	1,150	W	G	4	USGS, 231SRMP
10 053-09.00x08.01	36 23 02	109 39 41	5,428	1,508	W	D	4	USGS, 231SRMP
10 053-12.67x05.84	36 24 55	109 43 38	5,687	703	W	D	4	USGS, 227NWJO
10 054-01.35x13.20	36 18 32	109 46 27	5,903	670	W	G,D	4	USGS, 231LCK
10 054-01.47x09.39	36 21 49	109 46 33	5,757	360	W	D	4	USGS, 227NWJO
10 054-06.04x06.22	36 24 34	109 51 29	6,240	1,340	Z	—	4	USGS, 227NWJO
10 054-06.09x06.12	36 24 38	109 51 34	6,238	1,360	W	E,J	4	USGS, 227NWJO, 231WNGT
10 054-06.30x06.52	36 24 18	109 51 46	6,295	1,425	W	E,D,G,J	4	USGS, 227NWJO
10 054-06.66x06.18	36 24 36	109 52 10	6,210	1,401	W	D	4	USGS, 227NWJO
10 054-06.80x06.35	36 24 28	109 52 19	6,230	1,515	W	D,J	4	USGS, 227NWJO, 231LCK
10 054-06.81x06.09	36 24 41	109 52 20	6,215	1,344	W	E,D	4	USGS, 227NWJO
10 054-06.95x06.06	36 24 43	109 52 28	6,245	1,215	U	D	4	USGS, 227NWJO
10 071-02.95x07.20	36 08 45	109 33 10	5,555	605	W	D	4	USGS, 231SRMP
10 071-09.09x00.62	36 14 28	109 39 43	5,849	1,700	W	D	4	USGS, 231SRMP
10 090-11.15x07.35	35 53 36	109 26 56	6,235	535	W	D	4	USGS, 231SRMP
10 090-12.40x05.88	35 54 52	109 28 15	6,240	897	W	D,G,J	4	USGS, 231SRMP
11 035-07.05x10.22	36 36 03	109 22 36	5,820	1,377	W	D,G	4	USGS, 231SRMP
11 051-10.47x14.68	36 17 14	109 11 14	7,090	640	W	D	4	USGS, 231SRMP
11 051-11.13x13.45	36 18 17	109 11 58	7,140	902	W	D	4	USGS, 231SRMP
11 051-11.67x14.32	36 17 31	109 12 32	7,080	920	T	D	4	USGS, 231SRMP
11 051-12.33x05.74	36 25 00	109 13 15	6,570	1,200	W	D	4	USGS, 231SRMP
11 051-12.78x05.38	36 25 17	109 13 44	6,480	783	W	D	4	USGS, 231SRMP
11 051-13.23x06.30	36 24 30	109 14 14	6,440	508	W	D	4	USGS, 231SRMP
11 052-02.22x02.28	36 28 00	109 17 24	6,085	430	W	D,G	4	USGS, 231SNSL
11 069-07.00x00.95	36 14 10	109 07 32	7,280	682	W	D,G	4	USGS, 231SRMP
12 034-03.90x02.80	36 42 34	109 04 13	5,800	407	W	D	4	USGS, 231ORCK
12 034-05.75x13.00	36 33 40	109 06 12	6,200	190	W	D	4	USGS, 231CHNL
17 091-07.00x17.20	35 45 16	109 37 27	6,380	1,610	W	D	4	USGS, 231SRMP
17 092-02.82x10.85	35 50 37	109 48 06	6,389	240	W	D	4	USGS, 221CSPG
17 092-05.50x17.10	35 45 12	109 50 52	6,540	664	W	D	4	USGS, 221CSPG
Coconino County								
(A-40- 7)13acc	36 52 04	111 35 38	3,160	80	W	D	4	USGS, 234MKNP
(A-41- 8)23dcd	36 55 57	111 29 49	4,020	—	T	—	5	USGS, 227NWJO
(A-42- 8)32cdd	36 59 30	111 33 24	4,100	935	W	D	4	USGS, 227NWJO
(A-42- 8)36ccc- 1	36 59 29	111 29 32	3,840	625	U	—	4	USGS, 227NWJO
(A-42- 8)36ccc- 2	36 59 30	111 29 25	3,760	703	W	D	4	USGS, 227NWJO
01 026-07.83x17.10	36 45 06	110 53 28	5,740	688	W	D	4	USGS, 227NWJO
01 029-00.45x09.86	36 51 25	111 30 23	4,430	1,406	W	D	4	USGS, 227NWJO
01 029-00.80x12.58	36 49 00	111 30 54	4,770	1,402	W	D	4	USGS, 227NWJO
01 042-03.88x10.40	36 35 57	111 04 12	5,820	1,240	W	D,G	4	USGS, 227NWJO
01 042-05.30x11.65	36 34 49	111 05 44	6,050	1,350	W	D	4	USGS, 227NWJO, 224CRML
01 042-06.11x05.92	36 39 50	111 06 37	5,610	1,091	W	D	4	USGS, 227NWJO
01 042-12.65x13.41	36 33 23	111 13 41	6,070	1,112	W	D	4	USGS, 227NWJO
01 044-01.53x07.84	36 38 10	111 31 42	6,115	1,500	X	D	4	USGS, 227NWJO
01 044-01.78x07.89	36 38 08	111 31 53	6,110	1,397	U	D	4	USGS, 227NWJO
Navajo County								
02 040-02.48x05.16	36 40 32	110 32 41	7,230	753	W	D	4	USGS, 227NWJO
02 040-11.20x13.60	36 33 09	110 42 05	6,264	300	W	D	4	USGS, 227NWJO
04 056-09.00x03.73	36 26 47	110 24 35	6,229	3,535	W	G,I,J	4	USGS, 227NWJO
04 073-12.26x10.09	36 06 14	110 13 08	6,397	2,248	W	D,E,I	4	USGS, 227NWJO
08 023-01.36x12.95	36 48 43	110 01 30	5,320	306	W	D	4	USGS, 227NWJO
08 023-04.31x14.82	36 47 05	110 04 40	5,360	343	W	D	4	USGS, 227NWJO
08 024-02.27x03.65	36 56 50	110 17 29	5,120	46	W	D	4	USGS, 231SRMP
08 024-02.65x01.68	36 58 33	110 17 53	5,200	112	U	D	4	USGS, 231SRMP
08 024-03.00x02.00	36 58 15	110 18 15	5,150	112	Z	D	4	USGS, 227NWJO
08 024-03.81x02.63	36 57 41	110 19 07	5,040	3,830	W	D	4	USGS, 231SRMP
08 038-01.23x12.99	36 33 42	110 01 19	5,660	400	W	D	4	USGS, 227NWJO
08 038-01.28x03.17	36 42 15	110 01 22	5,705	900	W	G	4	USGS, 227NWJO
08 038-03.15x05.78	36 39 57	110 03 24	5,709	594	W	D	4	USGS, 227NWJO
08 038-04.12x15.67	36 31 22	110 04 27	5,960	1,640	W	D,E,J,N	4	USGS, 227NWJO
08 038-04.43x15.39	36 31 37	110 04 47	5,950	1,200	U	—	4	USGS, 224ENRD, well was abandoned.

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Navajo County—Continued								
08 038-04.43x15.39	36 31 37	110 04 47	5,950	1,598	W	D,E	4	USGS, 227NWJO, this is second well at this location.
08 038-04.67x15.43	36 31 34	110 05 02	5,990	770	W	G	4	USGS, 221MRSN
08 038-07.04x10.39	36 35 58	110 07 37	5,960	1,280	W	G	4	USGS, 227NWJO
08 038-08.41x03.93	36 41 34	110 09 05	5,497	210	W	D	4	USGS, 227NWJO
08 038-09.40x07.08	36 38 50	110 10 08	5,650	1,338	O	D,I	4	USGS, 227NWJO
08 038-13.56x01.53	36 43 40	110 14 39	5,625	590	W	—	4	USGS, 227NWJO
08 038-13.86x01.43	36 43 47	110 14 59	5,625	807	W	G	4	USGS, 227GLNC
08 039-00.17x01.45	36 43 44	110 15 12	5,630	840	W	D	4	USGS, 231KYNT, 227NWJO
08 039-00.30x01.91	36 43 22	110 15 20	5,675	850	W	—	4	USGS, 227NWJO
08 039-00.61x01.34	36 43 50	110 15 40	5,663	760	W	D	4	USGS, 227NWJO
08 039-00.70x01.57	36 43 38	110 15 46	5,735	868	W	D	4	USGS, 227NWJO
08 039-07.23x01.59	36 43 37	110 22 49	6,040	250	W	D,G,J	4	USGS, 227NWJO
Colorado								
Delta County								
NB05100720ACC	38 40 11	108 40 19	6,960	225	W	—	4	CSE, 217DKOT
NB05100720DBB	38 40 09	108 40 53	6,980	150	W	—	4	CSE, 217DKOT
SC01209536CAA	38 57 53	107 57 42	7,270	203	W	—	4	CSE, 211MVRD
SC01309406BAC	38 57 20	107 56 38	7,000	120	W	D	4	USGS, 211MVRD
SC01309501ACA	38 56 59	107 57 31	6,760	141	W	—	4	CSE, 211MVRD
SC01309501BCB	38 57 14	107 58 01	6,780	125	W	—	4	CSE, 211MVRD
SC01309501CBB	38 56 52	107 57 39	6,920	130	W	—	4	CSE, 211MVRD
SC01309506BCD	38 56 27	107 59 03	6,560	121	U	D	4	USGS, 211MVRD
SC01309511ACC	38 56 18	107 58 45	6,480	145	U	D	4	USGS, 211MVRD
SC01309511CAD	38 56 12	107 58 58	6,460	118	W	D	4	USGS, 211MVRD
SC01309511CBA	38 56 17	107 59 05	6,540	140	W	D	4	USGS, 211MVRD
SC01309512CAA	38 56 15	107 57 35	6,300	55	W	D	4	USGS, 211MVRD
SC01309517AAD	38 55 37	108 01 45	6,760	378	O	E,G,U	4	USGS, 211MVRD
SC01409217DAA	38 50 04	107 41 22	5,730	95	W	—	4	CSE, 200MNC5
Garfield County								
SB00510220CB	39 36 32	108 52 28	7,997	7,586	P	—	4	PI, 221MRSN, 224ENRD
SB00709017DB	39 26 36	107 27 45	8,011	10,256	P	—	4	PI, 211NSLN, 221MNC5
SB00709225BB	39 25 26	107 37 20	6,369	5,710	P	—	4	PI, 211MVRD
SB00709525	39 24 30	107 56 43	8,171	8,516	P	—	4	PI, 211MVRD
SC00410328DA	39 40 49	108 57 14	6,759	7,016	P	—	5	PI, 217DKOT, 217CDRM
SC00510230AAB	39 36 08	108 53 44	7,800	7,500	P	—	5	PI, 217DKOT
SC00609336AB	39 29 15	107 43 15	5,850	8,650	P	—	5	PI, 211MVRD
SC00709408AD	39 27 12	107 54 13	6,612	7,560	P	—	5	PI, 211MVRD
SC00710419DA	39 26 00	109 01 33	5,691	5,120	P	—	5	PI, 217DKOT
Grand County								
SB00408109CDD	40 19 06	106 28 13	8,592	3,843	P	—	4	PI, 217MDDY
SB00408121	40 17 27	106 28 14	8,019	—	P	—	4	T&C, 217DKOT
Gunnison County								
NA05000119DBC	38 34 34	106 54 04	7,950	153	W	—	4	CSE, 217DKOT
NA05000119DCB	38 34 32	106 54 04	8,000	280	W	—	4	CSE, 217DKOT
NA05100133ABB	38 38 31	106 45 17	8,300	110	W	—	4	CSE, 221BR5B
NB04900103AB	38 32 33	106 57 22	7,830	120	W	—	4	CSE, 217DKOT
NB05000111CA	38 36 28	106 56 33	7,890	465	W	—	4	CSE, 217DKOT
NB05000111EB	38 35 49	106 56 34	7,890	443	W	—	4	CSE, 217DKOT
NB05000125CA	38 33 52	106 55 25	7,850	78	W	—	4	CSE, 217DKOT
NB05000125DB	38 33 52	106 55 18	7,840	112	W	—	4	CSE, 217DKOT
SC01508628DCD	38 42 47	107 00 16	8,200	200	W	—	4	CSE, 200MNC5
La Plata County								
NB03400723DB	37 10 29	107 34 29	6,686	8,072	P	—	4	PI, 211PCCF
NB03400629CC	37 12 52	107 32 51	6,895	8,154	P	—	4	PI, 217DKOT
NB03401117BBA	37 11 43	108 04 11	7,390	580	W	D	4	USGS, 211CLFH
NB03500808CCB	37 18 44	107 46 32	7,275	102	W	D	4	USGS, 211PNLK
NB03501034DCC	37 14 26	107 56 44	7,200	259	W	D	4	USGS, 211MENC, 211PNLK
NB03501114CAD	37 17 19	108 02 21	8,315	76	W	D	4	USGS, 211MENC
NB03601128CAC	37 20 47	108 04 26	8,690	112	W	D	4	USGS, 217BRCN
Mesa County								
SC00809116BA	39 21 59	107 33 36	8,595	4,709	P	—	5	PI, 211MVRD
SC00809120AB	39 21 04	107 34 26	7,541	6,060	P	—	5	PI, 211MVRD
SC00809123BCC	39 20 28	107 31 41	9,795	5,350	P	—	5	PI, 211MVRD
SC00809136ADB	39 18 46	107 30 13	9,829	—	P	—	4	T&C, 211MVRD
SC00809831AD	39 19 06	108 21 47	5,825	7,842	P	—	5	PI, 217DKOT, 224ENRD
SC00809934BA	39 19 12	108 25 14	7,264	4,207	P	—	4	PI, 211MVRD
SC00810431AA	39 19 50	109 02 07	5,203	—	P	—	5	PI, 217DKOT
SC00810433DB	39 19 10	108 59 39	4,832	—	P	—	4	T&C, 224ENRD
SC00909101AB	39 18 25	107 29 54	10,233	4,900	P	—	5	PI, 211MVRD
SC00909632CAA	39 14 11	108 07 19	6,260	4,323	P	—	5	PI, 211MVRD
SC00910212BC	39 17 14	108 43 59	4,905	—	P	—	4	T&C, 224ENRD
SC00910304AB	39 18 09	108 53 51	4,794	—	P	—	4	T&C, 224ENRD
SC01009620BDD	39 12 01	108 07 54	5,535	310	W	—	4	CSE, 211MVRD
SC01009701ACB	39 13 17	108 10 13	5,795	8,089	P	—	5	PI, 217DKOT
SC01010008AC	39 12 14	108 34 24	4,978	2,500	P	—	5	PI, 217DKOT
SC01110123DBB	39 05 02	108 38 57	4,688	922	W	D	4	USGS, 231WNGT
SC01210120BDB	38 59 37	108 42 22	7,000	560	W	—	4	CSE, 231WNGT
SC01210134CCB	38 57 47	108 40 25	7,230	400	W	—	4	CSE, 231WNGT
SC01210201AAB	39 02 37	108 44 52	6,785	610	W	—	4	CSE, 231WNGT
SC01210209BBC	39 01 51	108 48 13	6,580	380	W	—	4	CSE, 231WNGT
SC01210213DA	39 00 37	108 43 61	6,910	490	W	—	4	CSE, 231WNGT
SC01210219DDA	39 00 24	108 45 08	6,810	476	W	—	4	CSE, 231WNGT

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Mesa County—Continued								
SC01210225AB	38 59 19	108 44 18	6,935	340	W	—	4	CSE, 231WNGT
SC01210324ABB	39 00 19	108 51 00	6,500	204	W	—	4	CSE, 231WNGT
UB00100129DCD	39 07 16	108 36 46	—	1,639	W	D	4	USGS, 220NGGT
UB00100233BB	39 07 08	108 43 01	4,630	500	W	—	4	CSE, 221SLWS
UC00100117DBD	39 04 06	108 36 51	4,730	1,073	W	—	4	CSE, 224ENRD
UC00100121AAD	39 03 39	108 35 27	4,681	1,117	W	D	4	USGS, 224ENRD
UC00100121ADA	39 03 29	108 35 23	4,640	573	W	D	4	USGS, 221MRSN
UC00100122CBC	39 03 08	108 35 17	4,718	869	W	—	4	USGS, 224ENRD
UC00100122CBD	39 03 12	108 35 13	4,658	665	H	—	4	USGS, 221SLWS
UC00100126ABC	39 02 46	108 33 39	4,629	870	W	D	4	USGS, 224ENRD
UC00100129BCB	39 02 37	108 37 27	4,860	575	T	D	4	USGS, 224ENRD
UD00100118BBA	39 04 37	108 31 50	4,614	1,615	W	D	4	USGS, 224ENRD
UD00200123ADA	38 58 15	108 26 35	5,530	33	W	—	4	CSE, 200MNC
UD00200231AD	38 56 30	108 24 20	4,840	360	W	—	4	CSE, 221BRSB
UD00300114AAA	38 59 21	108 26 35	4,700	514	W	—	4	CSE, 200MNC
UD00300204BCA	38 55 39	108 52 57	4,980	506	W	—	4	CSE, 200MNC
Moffat County								
SB00309115DAB	40 13 17	107 35 28	7,460	3,705	P	—	4	T&C, PI, 217DKOT
SB00309304ADA	40 15 26	107 49 21	7,342	8,779	P	—	4	PI, 217DKOT
SB00309306BDD	40 15 39	107 52 13	7,320	100	W	—	4	CSE, 211WMEK
SB00309307BDD	40 14 43	107 52 06	7,360	100	W	—	4	CSE, 211WMEK
SB00409213BDC	40 18 44	107 40 05	6,505	—	P	—	4	T&C, 224ENRD
SB00409216DBB	40 19 05	107 42 36	6,499	4,908	P	—	4	T&C, PI, 224ENRD, 211FNRN
SB00409223AB	40 18 36	107 40 41	6,359	4,910	P	—	4	PI, 221MRSN, 214ENRD, 231SRMP
SB00409236AB	40 16 51	107 39 34	6,550	4,183	P	—	4	PI, 211FNRN
SB00409522CDC	40 17 37	108 02 27	7,298	5,700	P	—	4	PI, 217DKOT
SB00409715DD	40 18 41	108 15 22	6,087	8,100	P	—	5	PI, 211MRPS
SB00409720CC	40 17 31	108 18 32	6,005	—	P	—	4	T&C, 200MNC
SB00409808B	40 19 35	108 24 58	6,337	—	P	—	4	T&C, 224ENRD
SB00409831DDC	40 16 00	108 25 40	5,779	4,900	P	—	4	T&C, PI, 217DKOT, 221SLWS, 221MRSN
SB00509019BCC	40 22 18	107 32 02	6,605	5,255	P	—	4	PI, 217DKOT
SB00509024BCC	40 22 25	107 26 55	7,150	150	W	—	4	CSE, 211ILES
SB005090290B	40 21 20	107 37 38	6,489	6,853	P	—	4	PI, 231SRMP
SB00509036AD	40 20 40	107 26 02	6,472	6,094	P	—	4	T&C, PI, 217DKOT, 231SRMP
SB00509036ADA	40 20 02	107 26 49	7,153	—	P	—	4	T&C, 217DKOT
SB00509036DDB	40 20 11	107 25 59	7,141	4,367	P	—	4	PI, 217DKOT
SB00509118BD	40 23 22	107 39 03	6,786	7,658	P	—	4	PI, 221MRSN, 231SRMP
SB00509128BC	40 21 32	107 37 07	6,355	5,503	P	—	4	T&C, PI, 221MRSN
SB00509138DD	40 22 41	107 52 06	6,264	—	P	—	4	T&C, 217DKOT
SB00509415CBD	40 22 52	107 56 18	6,221	1,735	P	—	4	PI, 217DKOT, 221MRSN
SB00509530DD	40 20 59	108 12 40	7,747	6,720	P	—	4	PI, 221SNDC
SB00509613CB	40 22 55	108 07 51	6,457	5,340	P	—	4,5	PI, 217DKOT, 221MRSN, 221SNDC
SB00509613CD	40 22 55	108 07 51	6,471	5,285	P	—	4	PI, 224ENRD
SB00509614AA	40 23 22	108 08 09	6,359	5,190	P	—	4	PI, 224ENRD
SB00509829BD	40 21 24	108 25 43	6,625	5,031	P	—	5	PI, 217DKOT
SB00509832AB	40 20 46	108 25 27	6,363	6,064	P	—	4	PI, 217DKOT
SB00609025BB	40 26 59	107 26 45	7,360	—	P	—	4	T&C, 200MNC, 217DKOT
SB00609025BD	40 26 47	107 26 29	7,251	—	P	—	4	T&C, 200MNC
SB00609025DAA	40 26 42	107 25 48	7,355	10,500	P	—	4	PI, 217DKOT
SB00609028CCC	40 26 32	107 29 17	6,980	485	W	—	4	CSE, 211WMEK
SB00609104ADD	40 30 37	107 36 22	6,370	320	W	—	4	CSE, 211LWIS
SB00609108AA	40 29 49	107 37 21	6,332	3,388	P	—	4	PI, 211MVRD
SB00609108ADD	40 29 39	107 37 33	6,400	200	W	—	4	CSE, 211WMEK
SB00609111DD	40 29 18	107 34 26	6,330	255	W	—	4	CSE, 211WMEK
SB00609118CCC	40 29 13	107 33 37	6,420	300	W	—	4	CSE, 211WMEK
SB00609127BD	40 27 02	107 35 32	6,455	1,132	W	—	4	CSE, 211WMEK
SB00609210BBD	40 29 24	107 42 41	6,650	4,257	P	—	4	PI, 211MNC
SB00609210DA	40 29 07	107 42 11	6,505	—	P	—	4	T&C, 211MVRD
SB00609236CB	40 25 37	107 40 24	6,313	—	P	—	4	T&C, 217DKOT
SB00709004AB	40 35 59	107 29 35	6,525	3,350	P	—	4	PI, 211LNC
SB00709203CD	40 34 58	107 42 22	6,764	—	P	—	4	T&C, 211MVRD
SB00709206DD	40 34 54	107 45 34	6,985	—	P	—	4	T&C, 211LAMD
SB00709315DC	40 33 03	107 49 20	6,382	—	P	—	4	T&C, 211MVRD
SB00709316DD	40 33 08	107 49 52	6,335	3,950	P	—	4	T&C, PI, 211MVRD, 221MRSN, 224ENRD
SB00809010DD	40 39 34	107 28 08	6,389	3,150	P	—	4	PI, 211LWIS
SB00809014CBB	40 37 59	107 28 02	6,380	3,050	P	—	4	PI, 211FXHL
SB00809016BB	40 38 46	107 30 11	6,673	5,504	P	—	4	T&C, PI, 211LWIS, 211LNC, 211FXHL
SB00809031A	40 36 44	107 31 43	6,620	6,698	P	—	4	PI, 211LAMD
SB00809034AA	40 36 25	107 28 20	6,317	—	P	—	4	T&C, 211FXHL
SB00809116BB	40 39 21	107 37 00	7,058	6,700	P	—	4	T&C, PI, 211LWIS
SB00809326DB	40 37 48	107 48 10	6,934	—	P	—	4	T&C, 211MVRD
SB00809529AA	40 36 43	108 04 44	6,200	—	P	—	4	T&C, 211MVRD
SB00909123ADB	40 43 36	107 33 54	6,674	4,526	P	—	4	PI, 211LWIS
SB00909613DA	40 44 18	108 07 05	6,304	9,191	P	—	4	PI, 211FXHL
SB00909621CA	40 43 36	108 10 46	5,904	—	P	—	4	T&C, 211LWIS
SB01009112BB	40 50 24	107 33 31	6,758	—	P	—	4	T&C, 211LNC
SB01009318BB	40 49 51	107 53 04	6,890	—	P	—	4	T&C, 211LNC
SB01009415BCD	40 49 39	107 56 26	6,780	8,124	P	—	4	PI, 211FXHL
SB01009416AA	40 49 54	107 56 46	6,750	8,253	P	—	4	PI, 211LNC
SB01009422AA	40 48 57	107 55 51	6,733	—	P	—	4	T&C, 211FXHL
SB01009422AA	40 49 02	107 55 36	6,733	9,492	P	—	4	PI, 211LNC
SB01009902BA	40 51 40	108 29 14	8,017	11,241	P	—	4	T&C, PI, 211MVRD
SB01109031BB	40 52 21	107 32 27	6,877	7,520	P	—	4	T&C, PI, 211LWIS, 211MVRD, 211LNC
SB01109103DB	40 56 17	107 35 44	6,603	—	P	—	4	T&C, 211MVRD
SB01109110AD	40 55 07	107 35 03	6,554	—	P	—	4	T&C, 211LWIS
SB01109616AC	40 54 53	108 10 44	6,268	8,850	P	—	4	PI, 211LNC
SB01109915CA	40 54 42	108 30 27	6,678	9,181	P	—	4	PI, 211MVRD
SB01110002AC	40 56 40	108 35 54	6,445	6,495	P	—	4	PI, 211LNC
SB01110109ACD	40 55 14	108 45 13	7,043	—	P	—	4	T&C, 211MVRD
SB01110219ABB	40 54 19	108 54 15	8,480	13,810	P	—	4,5	PI, T&C, 217DKOT, 211FNRN, 220NGGT
SB01209118AB	40 59 57	107 38 56	6,369	3,925	P	—	4	T&C, PI, 211LNC
SB01209133ADD	40 57 07	107 36 11	6,538	4,297	P	—	4	PI, 211LNC
SB01209213	40 59 43	107 40 09	6,338	—	P	—	4	T&C, 211LNC
SB01209422CAA	40 59 07	107 56 09	6,060	8,405	P	—	4	PI, 211LNC
SB01209427BA	40 58 36	107 56 12	6,190	9,009	P	—	4	PI, 211MVRD

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Moffat County—Continued								
SB01209524AA	40 59 29	108 00 13	6,255	8,110	P	—	4	PI, 211FKHL
SB01209826DCC	40 57 54	108 22 14	6,927	7,009	P	—	4	PI, 211LNCB, 211LWIS
SB01210022CCB	40 58 53	108 37 39	6,985	14,928	P	—	4	PI, 220NGGT
Montezuma County								
NB03301707UDDA	37 12 08	108 43 38	5,885	65	O	G	4	USGS, 211MNCB
NB03301814BB	37 06 38	108 46 46	5,146	400	P	—	5	PI, 211GLLP
NB03301815AA	37 06 36	108 47 02	5,153	380	P	—	5	PI, 211GLLP
NB03301822DD	37 05 06	108 47 03	5,312	6,688	P	—	5	PI, 211GLLP
NB03501601CDD	37 18 51	108 33 54	6,170	610	W	—	4	CSE, 221BRB
NB03601401DDD	37 24 07	108 20 11	7,370	113	W	—	4	CSE, 217DKOT
NB03601411LAD	37 23 41	108 21 17	7,160	110	W	—	4	CSE, 217DKOT
NB03601413BCD	37 22 47	108 20 44	7,000	120	W	—	4	CSE, 217DKOT
NB03601501BC	37 24 33	108 27 31	6,922	260	W	—	4	CSE, 217DKOT
NB03601634DA	37 17 30	108 35 00	6,075	120	W	—	4	CSE, 217DKOT
NB03701405DAC	37 29 31	108 24 48	7,110	132	W	—	4	CSE, 221SLWS
NB03701516ABB	37 28 14	108 30 28	7,000	65	W	—	4	CSE, 221MRSN
NB03701531CCC	37 26 55	108 33 07	6,460	120	W	—	4	CSE, 217DKOT
NB03701713CA	37 27 44	108 40 37	6,610	875	W	—	4	CSE, 221SLWS
NB03801534DDB	37 30 27	108 24 22	7,520	250	W	—	4	CSE, 200MNCB
NB03801601CCA	37 34 37	108 34 18	6,650	360	T	D	4	USGS, 224JCKK, 224SMWL, 224ENRD
NB03801635BDB	37 30 40	108 35 13	6,920	152	T	D	4	USGS, 200MNCB, 217DKOT
NB03801732CCC	37 30 10	108 45 11	6,890	380	W	—	4	CSE, 217DKOT
NB03801806DAB	37 34 43	108 52 01	6,825	68	W	—	4	CSE, 217DKOT
NB03901731BCD	37 35 52	108 46 01	6,880	905	W	—	4	CSE, 224ENRD
NB03901831AA	37 36 04	108 52 01	6,750	86	W	—	4	CSE, 217DKOT
Montrose County								
NB04501404CBC	38 10 50	108 25 25	6,410	32	W	—	4	CSE, 217DKOT
NB04501404DCC	38 10 36	108 24 54	6,470	40	W	—	4	CSE, 217DKOT
NB04501410BAC	38 10 23	108 24 03	6,510	52	W	—	4	CSE, 217DKOT
NB04601430ADA	38 12 47	108 26 47	6,210	90	W	—	4	CSE, 217DKOT
NB04601506GADA	38 16 14	108 33 26	5,720	235	W	—	4	CSE, 217DKOT
NB04601511CCB	38 14 57	108 29 51	5,750	265	W	—	4	CSE, 221BRB
NB04601517AAA	38 14 45	108 32 35	5,790	335	W	—	4	CSE, 217DKOT
NB04701118BAD	38 19 58	108 07 27	9,140	100	W	D	4	USGS, 217DKOT
NB04701531DCC	38 16 43	108 33 41	5,810	195	W	—	4	CSE, 217DKOT
NB04701614CBB	38 19 31	108 34 04	5,700	260	W	—	4	CSE, 217DKOT
NB04701625ABB	38 18 12	108 34 56	5,880	202	W	—	4	CSE, 217DKOT
NB04701701ABD	38 21 31	108 41 39	5,115	200	W	E	4	USGS, 211LWIS
NB04701913DAA	38 19 34	108 54 31	5,030	205	W	—	4	CSE, 231CHNL
NB04800907BBD	38 26 06	107 54 24	6,030	245	W	—	4	CSE, 221BRB
NB04800921ACC	38 24 06	107 51 30	6,050	140	W	—	4	CSE, 200MNCB
NB04801001ADB	38 27 02	107 54 44	5,970	159	W	D	4	USGS, 217DKOT
NB04801001DAC	38 26 43	107 54 40	5,990	180	W	—	4	CSE, 217DKOT
NB04801011AAA	38 26 00	107 55 43	6,105	198	W	D	4	USGS, 217DKOT
NB04801734BBB	38 22 29	108 44 21	5,032	550	W	E	4	USGS, CSE, 227GLNC, 231WNSI
NB04801734DBB	38 22 01	108 43 40	5,000	525	W	—	4	CSE, 227GLNC
NB04901035BB	38 28 19	107 57 44	5,910	310	W	—	4	CSE, 221BRB
NB05001124DCC	38 34 43	108 02 49	5,470	265	W	—	4	CSE, 217BRCN
NB05101032BDB	38 38 44	108 01 00	5,275	933	W	D	4	USGS, 217DKOT
Ouray County								
NB04500911DCB	38 09 48	107 49 31	7,380	210	W	D	4	USGS, 211MNCB
NB04600913DAA	38 14 18	107 48 20	7,520	145	W	—	4	CSE, 217BRCN
NB04700818BBB	38 20 01	107 47 21	6,550	268	W	—	4	CSE, 217DKOT
NB04700819CDD	38 19 14	107 47 47	6,460	272	W	—	4	CSE, 217BRCN
NB04700901BAA	38 21 43	107 48 36	6,240	405	W	—	4	CSE, 217BRCN
NB04700923AAA	38 19 07	107 49 06	6,730	315	W	—	4	CSE, 221MRSN
NB04700924BBB	38 19 06	107 48 52	7,250	302	W	—	4	CSE, 221MRSN
NB04700935BAA	38 17 22	107 49 41	7,150	136	W	—	4	CSE, 217BRCN
Pitkin County								
SC00809023AB	39 20 59	107 24 24	9,525	6,390	P	—	4	PI, 211NSLN
SC00908508ACC	39 22 29	106 54 01	7,280	95	W	—	4	CSE, 200MNCB
SC00908520ADD	39 20 40	106 53 57	9,880	195	W	—	4	CSE, 200MNCB
SC00908520DAA	39 15 12	106 53 55	8,080	264	W	—	4	CSE, 200MNCB
SC00908521CBB	39 20 27	106 53 41	9,710	415	W	—	4	CSE, 200MNCB
SC00908528AAC	39 20 02	106 50 37	6,900	127	W	—	4	CSE, 200MNCB
SC00908528BBA	39 14 43	106 53 21	7,660	175	W	—	4	CSE, 200MNCB
SC00908528BDD	39 19 49	106 53 25	6,930	110	W	—	4	CSE, 200MNCB
SC00908531ACC	39 18 56	106 55 24	7,850	241	W	—	4	CSE, 200MNCB
SC00908628ACD	39 14 33	107 00 15	6,550	98	W	—	4	CSE, 200MNCB
SC01008503DC	39 12 21	106 51 55	8,135	370	W	—	4	CSE, 200MNCB
Rio Blanco County								
SB00109228BAC	40 01 53	107 43 15	6,715	100	W	D	4	USGS, 211MNCB
SB00109228BBA	40 01 49	107 43 18	6,700	80	O	D	4	USGS, 211MNCB
SB00109334CAB	40 00 42	107 48 49	6,435	80	W	D	4	USGS, 211FNR
SB00109912BDD	40 58 48	108 27 14	5,628	15,686	P	—	5	PI, 211MVRD, 200MNCB
SB00110006AAA	40 06 04	108 39 43	6,132	6,960	P	—	4	T&C, PI, 217DKOT
SB00110106ADA	40 05 16	108 45 50	5,395	6,647	P	—	4	PI, 217DKOT
SB00110211ACD	40 04 17	108 48 22	5,372	7,460	P	—	4	PI, 217DKOT
SB00110214	40 02 55	108 48 34	6,071	—	P	—	4	T&C, 221MRSN
SB00110315	40 02 53	108 56 23	5,292	—	P	—	4	T&C, 211CSLG
SB00209207	40 09 16	107 45 25	8,199	—	P	—	4	T&C, 217DKOT
SB00209404BD	40 10 24	107 56 43	6,911	10,675	P	—	4	PI, 217DKOT
SB00210131DB	40 05 52	108 46 11	5,227	6,505	P	—	4	PI, 217DKOT
SB00210232BA	40 06 19	108 52 06	5,238	3,485	P	—	4	PI, 217DKOT
SB00309427CB	40 11 56	107 55 52	8,348	7,230	P	—	4	PI, 217DKOT
SB00309433AB	40 11 26	107 56 29	8,109	7,020	P	—	4	PI, 221MRSN
SB00309730AAD	40 12 16	108 18 44	5,752	11,710	P	—	5	PI, 231CHNL

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Rio Blanco County—Continued								
SB00309730AB	40 12 19	108 19 03	5,703	3,830	P	—	4	PI, 211MNC
SB00310436ABC	40 11 28	109 00 58	5,763	8,282	P	—	4	PI, 221MRSN
SB00310436AC	40 10 34	109 01 03	5,782	—	P	—	4	T&C, 221MRSN
SB00310436AD	40 10 36	109 00 50	5,745	—	P	—	4	T&C, 221MRSN, 227NJVJ
SC00110019DC	39 56 37	108 39 86	7,480	8,500	P	—	4	PI, 217DKOT
SC00110210DB	39 58 25	108 49 35	5,832	1,378	P	—	4	PI, 211MNC
SC00110214DC	39 57 20	108 48 25	6,071	10,984	P	—	4	PI, 221MRSN
SC00209713AC	39 52 45	108 13 32	7,250	12,752	P	—	4	PI, 211MVRD
SC00210210BD	39 53 27	108 49 53	6,525	3,224	P	—	4	PI, 211CSLG
SC00210226DC	39 50 22	108 48 27	6,503	7,376	P	—	4	PI, 217DKOT
SC00210412AC	39 52 53	109 01 03	6,975	—	P	—	4	T&C, 224ENRD
SC00309926AB	39 45 43	108 28 06	7,058	8,956	P	—	4	PI, 211MVRD
SC00309928AB	39 45 42	108 30 21	8,192	7,324	P	—	4	PI, 211MVRD
SC00310016AAC	39 47 30	108 37 01	6,335	4,329	P	—	5	PI, 200MNC
SC00310103CA	39 48 52	108 43 10	6,556	5,828	P	—	5	PI, 224ENRD
SC00310207AAB	39 48 26	108 52 41	7,030	4,515	P	—	4	PI, 211MNC
SC00310221BBA	39 46 46	108 51 12	8,392	3,428	P	—	5	PI, 211MVRD
SC00310236CCD	39 43 16	108 47 50	6,436	2,833	P	—	5	PI, 211MRF
SC00410201BDC	39 43 51	108 47 43	6,477	1,260	P	—	5	PI, 211MRF
SC00410207DC	39 42 24	108 53 00	8,018	—	P	—	4	T&C, 224ENRD
SC00410211DD	39 42 39	108 48 16	6,694	1,482	P	—	5	PI, 211MRF
SC00410212BB	39 43 15	108 47 58	6,573	1,370	P	—	5	PI, 211MRF
SC00410327CDC	39 35 20	108 56 54	7,330	7,565	P	—	5	PI, 217DKOT
SC00410328DA	39 40 49	108 57 14	6,772	7,015	P	—	4	PI, 217DKOT
SC00410413ADC	39 42 42	109 00 51	6,135	6,651	P	—	4	PI, 217DKOT
Routt County								
SB00308635AC	40 10 59	107 00 42	8,355	—	P	—	4	T&C, 217DKOT
SB00408916CCC	40 18 54	107 24 07	6,787	4,200	P	—	4	PI, 224ENRD
SB00408917DA	40 18 37	107 24 26	6,715	—	P	—	4	T&C, 217DKOT
SB00408921AD	40 18 11	107 23 14	6,859	4,040	P	—	4	T&C, PI, 217DKOT
SB00508811CD	40 23 22	107 13 27	7,095	—	P	—	4	T&C, 200MNC
SB00608509DDD	40 28 10	106 55 10	—	95	W	D	4	USGS, 211MNC
SB00708525BDD	40 32 15	106 52 23	6,730	275	W	—	4	CSE, 200MNC
SB00708526DBB	40 32 06	106 52 54	6,860	148	W	—	4	CSE, 200MNC
SB00708713A	40 33 36	107 05 42	7,545	5,764	P	—	4	T&C, PI, 224ENRD
SB00808627	40 37 31	107 01 12	7,062	3,284	P	—	4	PI, 211FRNR, 231SRMP
SB00808731CD	40 35 46	107 11 22	7,145	—	P	—	4	T&C, 211MVRD
SB00908527BBC	40 42 59	106 54 23	7,271	60	W	D	4	USGS, 211MNC, 217BRCN
SB01008726DD	40 47 18	107 06 40	8,537	—	P	—	4	T&C, 200MNC
San Miguel County								
NB04301735BDB	37 56 52	108 42 50	5,830	250	W	—	4	CSE, 200MNC
NB04401830DBD	38 02 40	108 53 27	5,450	80	W	—	4	CSE, 221SLWS
NB04401925DAD	38 02 44	108 54 20	5,434	40	W	—	4	CSE, 221SLWS
NB04501231DDD	38 06 09	108 13 35	7,365	100	W	—	4	CSE, 217BRCN
Utah								
Carbon County								
(D-12- 7) 3bbb- 1	39 43 27	111 07 55	8,550	110	W	D	4	USGS, 211CSLG
(D-12- 7) 4dda- 1	39 48 05	111 08 06	7,640	167	W	D	4	USGS, 211CSLG
(D-12- 7) 10bcd- 1	39 47 30	111 08 10	7,750	137	W	—	4	USGS, 211BCKK
(D-14- 7) 17bb	39 36 48	111 10 15	10,147	15,703	P	—	4	PI, 234MNC
(D-14- 9) 28ad	39 34 52	111 54 43	6,406	2,997	P	—	4	PI, 211FRNR
Daggett County								
(A- 3-24) 19dda- 1	40 58 40	109 14 29	6,343	6,040	P	—	4	PI, 211DKOT
(A- 3-24) 23bb	40 59 18	109 10 49	6,756	6,300	P	—	4	PI, 221MRSN
(A- 3-24) 25cba- 1	40 58 00	109 09 37	6,801	6,396	P	—	4	PI, 211DKOT
(A- 3-24) 25dbc- 1	40 57 54	109 09 11	6,735	6,600	P	—	4	PI, 211DKOT
(A- 3-25) 29bc	40 58 12	109 07 23	7,190	7,395	P	—	4	PI, 211FRNR
Duchesne County								
U(C- 1- 7) 19dbd- 1	40 22 33	110 42 52	6,675	140	W	D	4	USGS, 211CRCK
U(C- 1- 8) 3ddc- 1	40 24 55	110 46 06	6,940	130	W	D	4	USGS, 224TCRK
U(C- 1- 8) 12cdb- 1	40 24 12	110 44 22	6,870	78.	Z	D	4	USGS, 211FRNR
U(C- 1- 8) 13dcc- 1	40 23 14	110 44 03	6,720	184.	Z	D	4	USGS, 211MVRD
Emery County								
(D-17- 6) 24dcd- 1	39 19 23	111 11 18	7,420	280	O	—	4	USGS, 211BCKK
(D-17- 6) 27bda- 1	39 19 05	111 13 46	9,130	2,500	T	C	5	USGS, 221BCKK, 211SRPN
(D-17- 7) 27bbc- 1	39 19 10	111 07 53	7,630	150	T	—	5	USGS, 211SRPN
(D-17-12) 1bba- 1	39 22 52	110 31 35	5,632	—	P	—	5	USGS, 234MNC, 237SNEB
(D-17-13) 30dda- 1	39 18 06	110 29 44	5,147	560	U	T, E, F, J	4	USGS, 227NJVJ
(D-17-14) 29acd- 1	39 18 57	110 22 03	4,751	—	P	—	4	USGS, 227NJVJ
(D-19-10) 15bac- 1	39 10 27	110 47 21	5,615	476	W	D	4	USGS, 224CRML
(D-19-12) 30bba- 1	39 08 49	110 37 08	6,182	—	T	—	6	USGS, 227NJVJ
(D-20- 9) 1adb- 1	39 06 48	110 51 16	5,300	—	T	—	4	USGS, 227NJVJ
(D-20- 9) 1adc- 1	39 06 42	110 51 16	5,305	—	T	—	4	USGS, 227NJVJ
(D-20- 9) 1ccc- 1	39 06 17	110 51 59	5,330	—	T	—	4	USGS, 227NJVJ
(D-20-10) 6bdd- 1	39 06 41	110 50 33	5,260	475	T	A, E, F, G, J, T	4	USGS, 227NJVJ
(D-20-10) 7abc- 1	39 06 04	110 50 21	5,490	—	T	—	4	USGS, 227NJVJ
(D-20-13) 15daa- 1	39 04 52	110 26 16	4,850	—	T	—	5,6	USGS, 227NJVJ
(D-21- 6) 16	38 59 18	111 15 06	6,530	—	P	—	4	T&C, 211DKOT
(D-22- 6) 17abc- 1	38 53 58	111 16 33	6,285	1,468	W	E, J, T	4	USGS, 211FRNR
(D-22- 6) 22cdd- 1	38 52 54	111 14 06	6,080	275	T	E, J	5,6	USGS, 211FRNR
(D-22- 6) 31dba- 1	38 51 27	111 17 02	6,030	406	W	—	4	USGS, 211FRNR
(D-22- 6) 33bdc- 1	38 51 35	111 15 17	5,920	320	W	D	4	USGS, 211FRNR
(D-22- 6) 34cac- 1	38 51 25	111 14 12	—	—	X	—	5,6	USGS, 211FRNR
(D-22-13) 35bcc- 2	38 51 28	110 28 08	4,560	—	T	—	5,6	USGS, 231BCKK
(D-22-14) 31ddb- 1	38 51 04	110 25 04	4,290	350	U	D	4	USGS, 224ENRD

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Emery County—Continued								
(D-23- 6) 3dccc-1	38 50 16	111 13 34	—	—	X	—	6	USGS, 211PRRN
(D-23-10) 12ddd-1	38 49 31	110 44 30	6,850	196	W	D	4	USGS, 234MNP
(D-23-14) 25bca-1	38 47 08	110 20 10	4,160	700	T	A, E, F, G, J, T	4	USGS, 227NWJO
(D-24- 6) 5abb-1	38 45 46	111 16 07	—	—	X	—	5,6	USGS, 211PRRN
(D-24-11) 35cad-1	38 40 37	110 48 16	5,364	380	P	—	5	PI, 231MCK
(D-24-13) 23cd-1	38 42 16	110 27 55	4,760	2,275	P	—	5	PI, 237SNBD
(D-25-13) 12bac-1	38 39 21	110 25 51	4,759	4,940	P	—	5	PI, 237SNBD
(D-25-15) 32cac-1	38 35 28	110 17 02	5,080	720	W	D	4	USGS, 227NWJO
(D-26- 8) 6aab-1	38 35 08	111 05 05	5,960	767	W	D	4	USGS, 227NWJO
Garfield County								
(C-36- 3) 36cod-1	37 37 28	112 04 12	6,230	80	W	D	4	USGS, 211TRPC
(C-37- 1) 4dad-1	37 36 44	111 53 45	6,650	253	U	D	4	USGS, 211WHWP
(D-31- 7) 36dad-1	38 03 54	111 04 46	5,361	2,305	W	—	4	USGS, 227NWJO
(D-31- 9) 22aca-1	38 05 54	110 54 04	6,424	6,249	P	—	4	PI, 234MNP
(D-31-12) 4acc-1	38 08 06	110 35 52	4,889	—	P	—	4	T&C, 231WNGT
(D-33- 4) 35cbb-1	37 53 33	111 26 27	6,380	306	W	D	4	USGS, 227NWJO
(D-33- 4) 36abb-1	37 54 01	111 24 45	6,525	325	W	D	4	USGS, 227NWJO
(D-34- 2) 27adb-1	37 49 29	111 40 12	6,202	5,600	P	—	4	PI, 237MNP
(D-35- 1) 34ccc-1	37 42 50	111 47 03	6,860	280	U	D	4	USGS, 211WHWP
(D-35- 3) 8aaa-1	37 47 04	111 35 16	5,740	—	T	—	5	USGS, 224ENRD
(D-35- 3) 8aba-1	37 47 05	111 35 31	5,810	112	W	D	4	USGS, 224ENRD
(D-35- 3) 29bbd-1	37 44 26	111 36 01	5,840	291	U	D	4	USGS, 224ENRD
(D-35-11) 2cba-1	37 47 35	110 40 10	5,080	1,620	W	D	4	USGS, 227NWJO
(D-35-11) 16ddd-1	37 45 27	110 42 12	4,480	500	W	—	4	USGS, 224ENRD
(D-36- 6) 18bbb-1	37 41 02	111 17 52	5,290	—	T	—	5	USGS, 227NWJO
(D-36- 6) 18bbb-2	37 41 02	111 17 46	5,274	3,011	P	—	4	PI, 237MNP
(D-36-12) 18bbd-1	37 39 42	110 38 02	4,385	757	W	D	4	USGS, 224CRML
Grand County								
(D-16-25) 2dbb-1	39 27 05	109 07 25	8,417	8,289	P	—	4	PI, 224ENRD
(D-17-23) 13aaa-1	39 19 41	109 18 47	5,690	—	P	—	4	T&C, 224ENRD
(D-17-24) 7bb-1	39 20 47	109 18 32	7,025	6,550	P	—	4	PI, 217LKOT
(D-17-24) 8cd-1	39 20 12	109 17 13	6,822	6,320	P	—	4	PI, 211DKOT, 224ENRD
(D-17-25) 18bbc-1	39 19 13	109 11 22	5,450	—	P	—	4	T&C, 211DKOT
(D-17-25) 22a-1	39 18 34	109 07 46	5,292	—	P	—	4	T&C, 211DKOT
(D-18-24) 5dbd-1	39 16 04	109 16 52	5,208	4,075	P	—	5	PI, 211DKOT
(D-18-24) 8abb-1	39 15 44	109 16 58	5,147	4,419	P	—	5	PI, 211DKOT
(D-18-25) 20bcd-1	39 13 12	109 10 32	5,006	—	P	—	4	T&C, 211DKOT
(D-19-21) 29dda-1	39 05 09	109 36 08	6,281	4,775	P	—	5	PI, 224SM/L, 224ENRD
(D-19-22) 4db-1	39 10 54	109 29 15	5,695	5,215	P	—	4	PI, 211DKOT
(D-19-23) 26cc-1	39 07 01	109 20 39	4,872	—	P	—	4	T&C, 221MRSN
(D-20-21) 9bad-1	39 05 07	109 36 09	5,972	4,115	P	—	4	PI, 211DKOT
(D-20-24) 9bc-1	39 10 10	109 16 12	4,583	1,632	P	—	4	PI, 217CDRM
(D-21-18) 12aca-1	39 00 11	109 52 47	5,199	5,118	P	—	4	T&C, PI, 227NWJO
(D-21-18) 12cac-1	38 59 51	109 53 15	5,140	7,614	P	—	4	PI, 231WNGT
(D-24-18) 25dba-1	38 41 36	109 45 53	5,300	604	W	D	4	USGS, 211MNS
(D-24-19) 9aba-1	38 44 41	109 49 14	4,800	285	W	D	4	USGS, 211DKOT, 217BR/LN
(D-26-22) 15dab-1	38 32 24	109 29 05	4,680	187	W	D	4	USGS, 227NWJO
(D-26-22) 15dca-1	38 32 13	109 31 32	4,600	185	W	D	4	USGS, 227NWJO
(D-26-22) 16ada-1	38 32 38	109 29 49	4,500	26	W	D	4	USGS, 227NWJO
(D-26-22) 17aaa-1	38 33 01	109 30 22	4,440	160	W	D	4	USGS, 231KYNT
(D-26-22) 17aad-1	38 32 40	109 30 24	4,360	80	W	D	4	USGS, 231WNGT
(D-26-22) 17aba-1	38 32 58	109 30 38	4,310	100	W	D	4	USGS, 231WNGT
(D-26-22) 20acd-1	38 31 47	109 30 42	4,590	153	W	D	4	USGS, 227NWJO
(D-26-22) 20ada-1	38 31 35	109 30 27	4,600	175	W	M	4	USGS, 231CHNL
(D-26-22) 20dac-1	38 31 24	109 30 16	4,680	420	X	D	4	USGS, 231CHNL
(D-26-22) 22aab-1	38 32 02	109 28 51	4,590	106	W	D	4	USGS, 227NWJO
(D-26-22) 22aad-1	38 31 55	109 28 48	4,590	238	W	D	4	USGS, 227NWJO
(D-26-22) 22ada-1	38 32 03	109 28 42	4,475	200	W	D	4	USGS, 227NWJO
Kane County								
(C-41- 3) 4bca-1	37 16 38	112 08 13	5,780	250	W	D	4	USGS, 227NWJO
(C-43- 1) 3bac-1	37 06 16	111 54 03	4,420	302	W	D	4	USGS, 227NWJO
(D-34- 5) 12bbc-1	37 51 44	111 18 07	5,640	—	T	—	5	USGS, 231WNGT
(D-38- 3) 8ad-1	37 31 10	111 13 56	6,710	8,290	P	—	4	PI, 234MNP
(D-38-11) 5dad-1	37 31 53	110 42 38	3,940	1,005	W	D	4	USGS, 227NWJO
(D-38-11) 5dca-1	37 31 43	110 42 56	3,850	713	W	D, G	4	USGS, 227NWJO
(D-39- 8) 23ac-1	37 24 20	110 59 40	4,420	—	T	—	5	USGS, 227NWJO
(D-40- 3) 1bdc-2	37 21 46	111 32 14	5,140	320	U	—	4	USGS, 211SGCF
(D-40- 3) 1cba-1	37 21 44	111 32 17	5,130	500	U	C, J, T, U	4	USGS, 211SGCF
(D-40- 3) 1dbc-1	37 21 35	111 32 00	5,080	900	U	—	4	USGS, 211SGCF
(D-40- 8) 7aca-1	37 21 05	111 04 30	4,400	—	T	—	5	USGS, 224ENRD
(D-40- 8) 7bdc-1	37 20 54	111 04 59	4,480	422	U	D	4	USGS, 227NWJO
(D-43- 3) 30dac-1	37 02 18	111 37 05	3,900	—	T	—	5	USGS, 224ENRD
(D-44- 3) 2bdc-1	37 00 50	111 33 20	3,820	652	U	D	4	USGS, 227NWJO
San Juan County								
(D-28-23) 31abc-1	38 19 38	109 25 47	5,880	827	W	—	4	USGS, 231WNGT
(D-28-24) 35dccc-1	38 19 08	109 14 40	7,120	168	W	D	4	USGS, 211DKOT
(D-29-24) 6aad-1	38 18 52	109 18 46	6,520	215	W	D	4	USGS, 217BR/LN
(D-29-24) 10caa-1	38 17 47	109 15 50	6,750	535	W	D	4	USGS, 211DKOT, 217BR/LN
(D-29-24) 17aa-1	38 17 07	109 17 55	6,600	2,190	Z	D	4	USGS, 227NWJO
(D-30-24) 22bdc-1	38 09 51	109 16 24	6,000	500	W	D	4	USGS, 231WNGT
(D-30-24) 22caa-1	38 09 46	109 16 21	5,990	500	W	G	4	USGS, 231WNGT
(D-31-23) 2cccc-1	38 06 32	109 22 13	6,070	275	W	D	4	USGS, 227NWJO
(D-31-25) 5dda-1	38 06 49	109 11 26	6,360	280	W	D	4	USGS, 227NWJO
(D-32-24) 22adb-1	37 59 03	109 15 58	6,910	1,595	T	U, C, E, G, I, J, N	4	USGS, 231WNGT, 227NWJO, 231KYNT
(D-32-25) 33ddd-1	37 56 42	109 10 50	6,750	147	W	D	4	USGS, 211DKOT
(D-33-23) 1caa-1	37 56 08	109 20 39	6,990	260	W	D	4	USGS, 217BR/LN
(D-33-23) 36dad-1	37 51 43	109 20 15	6,890	168	U	—	4	USGS, 211DKOT
(D-33-23) 36dad-2	37 51 46	109 20 14	6,890	235	U	D	4	USGS, 211DKOT

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
San Juan County—Continued								
(D-33-24) 6cbd-1	37 55 08	109 19 59	6,930	54	W	D	4	USGS, 211DKOT
(D-34-25) 7add-1	37 49 47	109 12 45	6,820	150	W	D	4	USGS, 217BRCN
(D-34-25) 10cdc-1	37 49 48	109 09 55	6,780	100	U	D	4	USGS, 211DKOT
(D-34-26) 30bcc-1	37 47 30	109 06 52	6,790	160	W	D	4	USGS, 211DKOT
(D-36-22) 26bda-1	37 37 53	109 28 04	6,120	145	W	D	4	USGS, 217BRCN
(D-36-22) 26bda-2	37 37 53	109 28 00	6,120	170	W	D	4	USGS, 217BRCN
(D-37-22) 22bbc-1	37 33 36	109 29 30	5,660	195	W	D	4	USGS, 217BRCN
(D-37-22) 28cad-1	37 32 10	109 30 14	5,625	1,850	U	D	4	USGS, 227NWJO
(D-37-22) 28dcb-1	37 32 10	109 30 05	5,640	1,870	W	D	4	USGS, 227NWJO
(D-37-25) 32cad-1	37 31 20	109 11 40	5,342	1,650	W	—	4	USGS, 227NWJO
(D-38-22) 23acb-1	37 28 17	109 27 57	5,300	1,385	W	E,F,G,J,T	4	USGS, 227NWJO
(D-39-22) 17bab-1	37 24 08	109 31 23	4,705	1,350	W	—	4	USGS, 227NWJO
(D-39-26) 21bdb-1	37 23 05	109 04 20	5,220	1,425	W	D	4	USGS, 227NWJO
(D-40-23) 21db-1	37 17 30	109 23 37	4,520	908	W	D	4	USGS, 227NWJO
(D-40-23) 21dbc-1	37 17 28	109 23 39	4,520	777	W	D	4	USGS, 227NWJO
(D-40-25) 6dac-1	37 20 07	109 12 17	5,120	1,040	W	D	4	USGS, 224ENRD
(D-40-25) 15bcc-1	37 18 35	109 09 57	5,260	1,052	W	D	4	USGS, 224ENRD
(D-40-26) 19aad-1	37 17 48	109 05 49	4,960	779	W	—	4	USGS, 221BLFF
(D-41-23) 16aaa-1	37 13 52	109 23 20	4,680	932	W	D	4	USGS, 227NWJO
(D-41-25) 17cdb-1	37 13 11	109 11 46	4,460	1,050	W	G	4	USGS, 227NWJO
(D-41-25) 26aa	37 11 54	109 08 09	4,711	5,686	P	—	4	PI, 221BLFF
(D-43-23) 15cab-1	37 02 54	109 22 35	5,194	508	W	G	4	USGS, 227NWJO
T(D-38-11) 29cda-1	37 27 03	110 43 08	3,910	1,054	W	D	4	USGS, 227NWJO
Sanpete County								
(D-20- 4) 20ab	39 03 31	111 29 38	10,032	8,952	P	—	4	PI, 211PRRN,
Sevier County								
(D-23- 4) 22bdd-1	38 47 43	111 27 04	8,150	892	T	—	4,5	USGS, 211BCKK
(D-25- 4) 8da	38 39 01	111 29 19	8,928	4,000	P	—	4	PI, 211DKOT
Uintah County								
(D- 2-23) 9bad-1	40 39 54	109 20 28	7,635	115	W	D	4	USGS, 234MKP
(D- 3-19) 13bab-1	40 33 41	109 44 27	7,025	200	W	D	4	USGS, 227NWJO
(D- 3-19) 19dba-1	40 32 28	109 49 52	7,000	240	W	D	4	USGS, 211DKOT
(D- 3-19) 19dcb-1	40 32 28	109 49 54	7,020	200	W	D	4	USGS, 211DKOT
(D- 3-19) 21aba-1	40 32 54	109 47 28	6,890	415	W	D	4	USGS, 227NWJO
(D- 3-19) 21dca-1	40 32 13	109 47 27	6,750	305	W	D	4	USGS, 221MRSN
(D- 3-19) 23bbb-1	40 32 54	109 45 58	6,820	226	W	D	4	USGS, 227NWJO
(D- 3-20) 23acc-1	40 32 35	109 38 34	6,205	225	W	D	4	USGS, 231GRTR
(D- 3-20) 23acc-2	40 32 32	109 38 38	6,245	150	W	D	4	USGS, 231CHNL
(D- 3-20) 23bda-1	40 32 40	109 38 42	6,235	140	W	D	4	USGS, 231GRTR, 231CHNL
(D- 3-20) 25abc-2	40 31 58	109 37 22	5,991	42	O	G	4	USGS, 227NWJO
(D- 3-20) 25abc-5	40 31 59	109 37 21	5,990	34	T	G	4	USGS, 227NWJO
(D- 3-21) 13bdb-1	40 33 37	109 30 46	—	150	U	D	4	USGS, 224CRIS
(D- 3-21) 20cdd-1	40 32 11	109 35 09	5,998	150	W	D	4	USGS, 227NWJO
(D- 3-21) 32cdb-1	40 30 32	109 35 23	5,730	200	W	D	4	USGS, 227NWJO
(D- 3-21) 34aad-1	40 31 08	109 32 31	5,540	248	W	D	4	USGS, 227NWJO
(D- 3-22) 10da-1	40 34 35	109 26 00	—	—	T	—	5,6	CO 224ENRD
(D- 4-20) 1dca-1	40 29 40	109 37 17	5,925	740	W	D	4	USGS, 227NWJO
(D- 4-21) 2bad-1	40 30 17	109 31 45	5,385	50	W	D	4	USGS, 200MCS
(D- 4-21) 3bbd-1	40 30 16	109 33 17	5,550	50	W	D	4	USGS, 221MRSN
(D- 4-21) 4cdd-1	40 29 36	109 34 07	5,575	40	W	D	4	USGS, 211DKOT
(D- 4-23) 26cab-2	40 26 32	109 18 10	4,950	168	U	D	4	USGS, 224ENRD
(D- 4-23) 26cab-3	40 26 34	109 18 02	5,025	965	W	D	4	USGS, 224ENRD
(D- 4-24) 32cdd-1	40 25 25	109 14 44	4,790	81	W	D	4	USGS, 221MRSN
(D- 5-22) 21acb-1	40 22 17	109 26 56	5,099	5,471	P	—	4	PI, 211DKOT
(D- 7-25) 3ab	40 13 59	109 06 01	5,550	—	P	—	4	T&C, 211DKOT
(D- 9-24) 24cb	40 01 34	109 10 09	5,469	7,215	P	—	4	PI, 211MVRD
(D-10-20) 18ca	39 56 42	109 42 31	5,074	8,510	P	—	5	PI, 211MVRD
(D-10-24) 32ca	39 54 12	109 14 22	5,607	7,028	P	—	4	PI, 211MVRD
(D-11-23) 16ac	39 51 49	109 20 44	5,839	5,958	P	—	4	PI, 211MVRD
(D-11-23) 30dc	39 49 35	109 22 55	5,892	7,388	P	—	4	PI, 211MVRD
(D-12-25) 18cb	39 46 21	109 10 03	6,294	4,715	P	—	4	T&C, PI, 211MVRD
(D-14-19) 15bb	39 36 16	109 46 57	7,060	7,370	P	—	4	PI, 211MVRD
(D-14-25) 8ca	39 36 46	109 08 37	6,660	7,901	P	—	4	T&C, PI, 211CSLG
(D-15-21) 22dc	39 29 34	109 33 00	7,405	5,700	P	—	4	PI, 211MVRD
(D-15-22) 36da	39 28 03	109 23 47	7,692	10,348	P	—	4	PI, 224ENRD
(D-15-23) 28	39 28 41	109 21 27	7,801	—	P	—	4	T&C, 211MVRD
Wasatch County								
U(C- 2-10) 6daa-1	40 20 07	111 02 58	7,735	152	W	D	4	USGS, 211MVRD
U(C- 2-10) 20aac-1	40 17 49	111 01 57	7,650	100	W	D	4	USGS, 211CRCK
Wayne County								
(D-27- 7) 7bcc-1	38 28 39	111 12 34	5,520	—	T	G,A	4	USGS, 214CRML
(D-27-11) 34ddb-1	38 24 47	110 41 46	4,425	—	T	D,E,G,J	4	USGS, 227NWJO
(D-27-14) 5acc-1	38 29 38	110 24 33	5,684	650	W	D	4	USGS, 224CRML
(D-27-15) 21aad-1	38 27 14	110 16 20	5,381	682	W	D	4	USGS, 227NWJO
(D-28- 7) 27cdd-1	38 20 29	111 09 02	5,161	2,353	T	A,G,Z	4,5,6	USGS, 227NWJO
(D-28- 8) 29cdd-1	38 20 24	111 04 30	4,940	764	W	D	4	USGS, 227NWJO
(D-28- 8) 29cdd-1	38 20 27	111 04 16	4,896	761	T	D,E,J	4	USGS, 227NWJO
(D-28- 8) 33bbb-1	38 20 20	111 03 46	4,883	1,250	T	G,S,E,T	4,5,6	USGS, 227NWJO
(D-28- 8) 33cdd-1	38 19 34	111 03 23	4,823	1,350	P	—	4	PI, 224CRML
(D-28- 9) 29bdb-1	38 20 56	110 57 59	4,555	54	W	D	4	USGS, 211BLGT
(D-28- 9) 30dad-1	38 20 37	110 58 22	4,560	63	W	D	4	USGS, 211BLGT
(D-28-11) 15bdc-1	38 22 29	110 42 22	4,340	290	W	D	4	USGS, 224ENRD
(D-28-11) 16cba-1	38 22 24	110 43 35	4,316	407	W	D	4	USGS, 224ENRD
(D-28-11) 16dad-1	38 22 20	110 42 46	4,305	350	W	D	4	USGS, 224ENRD
(D-28-11) 21abd-1	38 21 53	110 43 06	4,320	363	W	D	4	USGS, 224ENRD
(D-28-11) 28bdd-2	38 20 47	110 43 22	4,380	512	W	D	4	USGS, 224ENRD
(D-29- 4) 25dcb-1	38 15 19	111 25 19	7,070	150	W	D	4	USGS, 227NWJO

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Wayne County—Continued								
(D-29- 4)26dac- 1	38 15 26	111 26 12	7,190	275	W	D	4	USGS, 227WJO
(D-29- 5)19cba- 1	38 16 22	111 24 34	6,740	140	W	D	4	USGS, 237SND, 234MKNP
(D-29- 5)32bad- 1	38 14 58	111 23 13	6,880	100	W	D	4	USGS, 237SND
(D-29- 5)34adb- 1	38 14 23	111 20 30	7,020	71	W	D	4	USGS, 234MKNP
(D-29-11) 1bbc- 1	38 19 15	110 40 25	4,460	320	Z	D	4	USGS, 224ENRD
(D-29-11)17bd	38 18 13	110 41 14	4,700	3,706	P	—	4	PI, 237SND
(D-29-11)36daa- 1	38 14 31	110 39 25	4,795	500	U	D	4	USGS, 224ENRD
(D-29-13) 1aa	38 19 25	110 26 20	5,255	2,649	P	—	4	PI, 234MKNP
(D-30-11) 5adb- 1	38 13 57	110 44 03	5,010	40	W	D	4	USGS, 221ERS
Wyoming								
Carbon County								
12N- 90W-18bc	41 00 46	107 34 12	6,532	6,914	P	—	4	PI, 211MVRD
12N- 91W-17cb	41 00 18	107 39 42	6,447	6,550	P	—	4	PI, 211LWIS, 211
12N- 91W-18cc	41 00 18	107 41 10	6,272	4,650	P	—	4	PI, 211LWIS
12N- 92W-10cc	41 01 10	107 44 34	6,563	16,248	P	—	4	PI, 224ENRD
12N- 92W-16bb	41 01 10	107 44 57	6,215	6,500	P	—	4	PI, 211LWIS
12N- 93W- 3db	41 02 15	107 50 53	6,335	6,510	P	—	4	T&C, PI, 211LWIS
12N- 93W-13ad	41 00 44	107 48 17	6,151	6,760	P	—	4	PI, 211LWIS
13N- 88W-36ca	41 03 23	107 01 12	7,344	—	P	—	4	T&C, 217DKOT, 200MNC
13N- 89W-15cb	41 05 47	107 23 25	6,966	7,951	P	—	4	PI, 217DKOT
13N- 89W-19dda	41 04 46	107 26 29	6,940	200	W	D	4	USGS, 211MVRD
13N- 90W-19a	41 05 15	107 33 31	6,813	—	P	—	4	T&C, 211MVRD
13N- 91W-31dc	41 02 56	107 40 35	6,250	6,912	P	—	4	PI, 211LWIS
14N- 91W-11dd	41 11 27	107 35 33	7,141	—	P	—	4	T&C, 211LWIS
14N- 91W-11dd	41 11 36	107 35 39	7,127	10,040	P	—	4	PI, 211MVRD, 220NGGT
14N- 92W- 8cc	41 11 38	107 46 52	6,673	11,599	P	—	5	PI, 211MVRD
15N- 89W-31ac	41 13 36	107 27 13	7,309	—	P	—	4	T&C, 211MVRD
15N- 91W-14dc	41 16 11	107 35 55	6,776	2,725	P	—	4	T&C, PI, 211MVRD
16N- 90W- 9da	41 22 27	107 31 48	7,621	—	P	—	4	T&C, 211MVRD
16N- 90W-31ab	41 19 19	107 34 12	7,314	—	P	—	4	T&C, 231CRMN
16N- 90W-31abd	41 19 13	107 33 35	7,303	12,560	P	—	4	PI, 231SRMP
16N- 91W-17	41 21 19	107 39 32	6,695	—	P	—	4	T&C, 211MVRD
16N- 91W-17b	41 21 37	107 39 51	6,584	—	P	—	4	T&C, 211CRCS
16N- 91W-22bb	41 20 48	107 37 43	6,728	—	P	—	4	T&C, 211MVRD
16N- 92W-11ca	41 22 16	107 43 19	6,770	—	P	—	4	T&C, 211MVRD
16N- 92W-12cb	41 22 16	107 41 57	6,654	11,279	P	—	4	T&C, PI, 211MVRD, 220NGGT
16N- 92W-13ac	41 21 35	107 41 54	6,602	—	P	—	4	T&C, 200MNC
16N- 92W-17acd	41 21 34	107 46 14	6,568	10,415	P	—	4	PI, 211LWIS
16N- 93W-11aa	41 22 44	107 49 24	6,641	11,000	P	—	4	PI, 211ERCS, 211RKS
16N- 93W-13c	41 21 45	107 48 57	6,620	10,948	P	—	4	PI, 211MVRD, 211BKTR
16N- 93W-22ab	41 21 16	107 51 16	6,546	—	P	—	4	T&C, 211LWIS
17N- 90W-30dd	41 24 39	107 34 14	7,080	3,376	P	—	4	T&C, PI, 211MVRD, 211LWIS
17N- 92W-15c	41 26 39	107 45 10	6,669	8,250	P	—	5	PI, 211ALND, 211ERCS, 211ARDG
18N- 90W-11ba	41 33 17	107 30 03	7,536	10,330	P	—	5	PI, 211FRNR
18N- 90W-15adb	41 32 11	107 30 44	7,330	172	O	—	4	USGS, 211MVRD
18N- 90W-21ddd01	41 30 46	107 31 42	7,200	190	O	—	4	USGS, 211MVRD
18N- 90W-21ddd02	41 30 46	107 31 42	7,200	234	O	—	4	USGS, 211MVRD
18N- 91W-28cd	41 37 28	107 41 15	7,141	10,007	P	—	4	PI, 211LWIS, 211MVRD
18N- 92W- 9d	41 32 47	107 45 40	6,950	11,000	P	—	5	PI, 211MVRD
19N- 87W-29da	41 40 36	107 12 37	6,980	5,811	P	—	4	PI, 217MRY
19N- 89W-31cbb02	41 34 42	107 28 12	8,160	235	O	—	4	USGS, 211MVRD
19N- 90W-26cca	41 35 17	107 30 26	7,155	11,381	P	—	4	PI, T&C, 220NGGT, 211FRNR
19N- 90W-36bc	41 34 46	107 29 14	7,689	10,795	P	—	4	PI, 211FRNR
19N- 92W-20d	41 36 20	107 46 52	7,177	10,300	P	—	4	PI, 211MVRD
19N- 92W-26dba	41 36 26	107 48 02	7,143	12,006	P	—	4	PI, 211MVRD
19N- 92W-32dac	41 34 46	107 47 17	7,277	—	P	—	4	T&C, 211LWIS
20N- 87W-26db	41 40 35	106 07 32	7,129	6,015	P	—	4	PI, 217MDDY
20N- 87W-29aa	41 41 03	107 12 40	7,708	8,545	P	—	4	PI, 220NGGT
20N- 87W-30ddc	41 40 22	107 13 51	7,872	8,470	P	—	4,5	PI, 217CLVL, 220NGGT
20N- 89W-20db	41 40 50	107 26 46	7,056	—	P	—	4	T&C, 211MVRD
21N- 85W-29bc	41 45 49	107 01 12	6,500	4,596	P	—	4	PI, 217MDDY
22N- 86W-26ac	41 51 03	107 04 01	6,523	3,215	P	—	4	PI, 211FRNR
22N- 86W-26ad	41 51 03	107 03 45	6,542	3,841	P	—	4	PI, 217CLVL
23N- 85W-22aa	41 57 18	106 57 58	6,705	4,920	P	—	4	PI, 211MVRD
23N- 88W- 6cdb	41 59 19	107 22 53	6,513	2,384	P	—	4	PI, 217LKOT
23N- 88W-18ca	41 57 46	107 22 52	6,679	3,212	P	—	4	T&C, PI, 217DKOT
24N- 87W- 1acb	42 04 57	107 10 02	6,817	4,885	P	—	4	PI, 221SND
24N- 87W- 1bc	42 04 51	107 10 33	6,790	6,454	P	—	4	PI, 220NGGT
24N- 87W- 6ab	42 04 57	107 15 44	6,631	—	P	—	4	T&C, 211FRNR
24N- 87W- 7aa	42 03 57	107 15 37	6,225	—	P	—	4	T&C, 211FRNR
25N- 86W-34ad	42 05 46	107 05 49	7,038	5,740	P	—	4	PI, 217CLVL, 220NGGT
25N- 86W-35cbb	42 05 30	107 05 19	7,208	7,618	P	—	4	PI, 217CLVL
25N- 88W- 2dd	42 09 32	107 18 50	6,813	—	P	—	4	T&C, 217DKOT
25N- 89W-14dc	42 08 00	107 25 57	6,496	6,544	P	—	4	PI, 217MDDY
26N- 87W-29ccc	42 11 24	107 15 42	7,091	2,805	P	—	5	PI, 217DKOT, 221SND
Fremont County								
27N- 90W-28dc	42 16 41	107 36 06	7,456	—	P	—	4	T&C, 217DKOT, 220NGGT
27N- 91W-34cc	42 15 48	107 41 40	7,647	8,499	P	—	4	T&C, PI, 211LWIS
27N- 93W-33bd	42 16 11	107 56 35	6,967	11,008	P	—	4	PI, 211LWIS
27N- 93W-34bb	42 16 29	107 55 40	7,000	13,002	P	—	4	PI, 211LWIS
27N- 93W-35cab	42 16 06	107 54 16	7,096	6,190	P	—	4	PI, 211MVRD
27N- 94W-32dd	42 15 51	108 03 07	6,981	3,196	P	—	4	PI, 211LWIS
27N- 94W-35ac	42 16 04	108 01 10	6,900	10,003	T	—	4	USGS, 211SNRN
27N- 95W- 5cb	42 20 27	108 12 03	6,951	1,852	P	—	4	PI, 217MDDY
27N- 95W- 8dc	42 19 21	108 11 22	7,121	1,874	P	—	4	PI, 217MDDY
27N- 95W- 8ddd	42 19 51	108 11 18	7,143	1,535	P	—	4	PI, 217MDDY
27N- 95W-18bdd	42 18 53	108 12 47	7,141	4,787	P	—	4	PI, 221MRN, 220NGGT
27N- 95W-27ac	42 16 51	108 09 19	7,170	—	P	—	4	T&C, 211FRNR
28N- 91W-20aac	42 22 20	107 43 13	7,166	8,130	P	—	4	PI, 237DNDY
28N- 92W- 6ca	42 25 34	107 51 50	6,575	3,876	P	—	4	PI, 211FRNR
28N- 92W-19add	42 23 07	107 51 12	6,616	5,796	P	—	4	PI, 211FRNR
28N- 93W- 7acc	42 24 52	107 58 37	7,118	5,539	P	—	4	PI, 217MDDY
28N- 93W-21ab	42 23 25	107 56 15	8,135	7,034	P	—	4	PI, 217DKOT

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Fremont County—Continued								
28N-95W-7db	42 24 46	108 12 36	6,952	4,760	P	—	4	PI, 211FRNR
28N-96W-13cd	42 23 42	108 14 02	6,745	1,146	P	—	4	PI, 211FRNR
29N-95W-16aa	42 24 20	108 09 27	6,758	3,351	P	—	4	PI, 237DNDY
30N-94W-17ac	42 34 33	108 05 48	6,508	4,950	P	—	4	PI, 237DNDY
30N-94W-34dc	42 31 30	108 03 29	6,528	3,215	P	—	4	PI, 237DNDY
Lincoln County								
19N-112W-5dca	41 39 22	110 04 54	6,407	11,497	P	—	4	PI, 211HLRD
19N-112W-7dbb	41 38 32	110 06 14	6,488	11,580	P	—	5	PI, 211FRNR
19N-112W-22cc	41 36 30	110 03 44	6,368	18,208	P	—	4	PI, 220NGGT
19N-113W-25ab	41 36 19	110 07 19	6,363	12,500	P	—	4	T&C, PI, 211ERCS
20N-114W-16abb	41 43 21	110 17 44	6,762	13,713	P	—	5	PI, 211FRNR
20N-116W-23ab	41 42 31	110 29 22	7,054	5,990	P	—	4	T&C, PI, 237WDSD
20N-116W-27dc	41 40 58	110 30 29	6,982	7,811	P	—	4	PI, 237DNDY
21N-113W-26abd	41 46 11	110 12 23	6,543	11,593	P	—	5	PI, 211FRNR
21N-114W-13ba	41 48 09	110 17 47	6,651	—	P	—	5	PI, 211FRNR
22N-112W-34bb	41 50 52	110 06 40	6,779	12,366	P	—	4,5	PI, 211FRNR
22N-114W-19cb	41 52 26	110 23 30	7,371	10,681	P	—	4	PI, 237DNDY
23N-119W-26bd	41 56 47	110 53 55	6,485	16,210	P	—	4	PI, 237TYS
24N-113W-11aac	42 04 33	110 12 22	6,891	11,425	P	—	5	PI, 211FRNR, 217DKOT
25N-112W-8ac	42 09 53	110 10 37	6,520	8,578	P	—	5	PI, 211FRNR
25N-113W-13ca	42 08 51	110 13 04	6,605	8,995	P	—	5	PI, 211FRNR
26N-112W-4dd	42 15 34	110 09 06	7,312	—	P	—	4	T&C, 211HLRD
26N-112W-23cb	42 13 07	110 07 42	6,680	3,732	P	—	4	PI, 211MVRD
26N-112W-28dc	42 12 03	110 09 22	6,532	7,948	P	—	5	PI, 211FRNR
26N-113W-9cb	42 14 57	110 17 51	6,984	8,105	P	—	4	PI, 211MVRD
26N-113W-24cbd	42 07 55	110 13 16	6,697	8,119	P	—	5	PI, 211FRNR
Sublette County								
27N-110W-30ac	42 17 15	109 54 43	7,211	—	P	—	4	T&C, 211MVRD
27N-111W-7ac	42 20 13	110 04 43	6,910	4,700	P	—	4	T&C, PI, 211MVRD, 220NGGT
27N-111W-20ca	42 18 17	110 03 57	7,247	5,056	P	—	4	T&C, PI, 211MVRD
27N-113W-1ad	42 21 25	110 12 42	7,012	3,648	P	—	4	PI, 217LKOT
27N-113W-31db	42 16 38	110 19 05	7,765	—	P	—	4	T&C, 217DKOT
27N-114W-4bd	42 21 20	110 23 15	9,010	—	P	—	4	T&C, 211FRNR
27N-114W-4da	42 21 24	110 23 24	8,546	—	P	—	4	T&C, 211FRNR
27N-114W-5	42 21 15	110 24 58	9,405	8,875	P	—	4	T&C, PI, 211FRNR
27N-114W-11d	42 20 17	110 20 57	7,747	7,607	P	—	4	T&C, PI, 211FRNR
27N-114W-12da	42 20 36	110 19 46	8,225	—	P	—	4	T&C, 211FRNR
28N-111W-27aa	42 23 03	110 01 00	6,960	6,020	P	—	4	PI, 211MVRD
28N-112W-17da	42 24 24	110 10 17	6,937	4,040	P	—	4	PI, 211MVRD
28N-113W-3aa	42 26 53	110 14 54	7,145	3,237	P	—	4	T&C, PI, 211MVRD
28N-113W-5ccc	42 26 05	110 18 44	7,533	—	P	—	4	T&C, 211MVRD
28N-113W-19bb	42 24 09	110 19 29	7,551	—	P	—	4	T&C, 220NGGT
28N-113W-20da	42 23 52	110 17 14	7,320	1,465	P	—	4	PI, 211MVRD
28N-113W-25cd	42 22 46	110 13 04	7,605	3,460	P	—	4	PI, 211MVRD
28N-113W-28ba	42 23 28	110 16 41	7,309	1,418	P	—	4	T&C, PI, 211MVRD
28N-113W-32da	42 22 04	110 17 15	7,314	1,900	P	—	4	PI, 211MVRD
28N-114W-1ab	42 26 51	110 20 06	7,792	6,572	P	—	4	PI, 211BKTR
28N-114W-11aab	42 26 04	110 21 00	8,270	10,019	P	—	5	PI, 220NGGT
28N-114W-12cbd	42 25 32	110 20 33	8,200	10,108	P	—	5	PI, 220NGGT
28N-114W-33db	42 22 00	110 23 28	8,356	7,510	P	—	4	T&C, PI, 211FRNR
28N-115W-14dc	42 24 40	110 27 11	9,732	11,654	P	—	4	PI, 211FRNR
29N-113W-14dc	42 29 31	110 16 16	7,304	3,326	P	—	4	PI, 211MVRD
29N-113W-25cb	42 28 08	110 15 00	7,574	—	P	—	4	T&C, 211MVRD
29N-113W-26dda	42 28 12	110 15 25	7,552	—	P	—	4	T&C, 211MVRD
29N-113W-32cad	42 27 12	110 19 48	7,748	8,236	P	—	4	T&C, PI, 211FRNR
29N-113W-34aa	42 27 30	110 16 46	7,349	—	P	—	4	T&C, 211MVRD
29N-114W-16cdd	42 29 37	110 25 37	8,510	11,461	P	—	4	PI, 220NGGT
30N-108W-5bd	42 36 01	109 44 46	7,062	19,000	P	—	4	PI, 211LNCE
30N-114W-19	42 34 09	110 27 55	7,800	—	P	—	4	T&C, 211MVRD
31N-112W-19cd	42 39 11	110 12 49	7,275	7,298	P	—	4	T&C, PI, 211MVRD
31N-113W-30bc	42 38 42	110 21 05	7,837	5,555	P	—	4	PI, 211MVRD
32N-114W-18da	42 45 30	110 27 39	8,280	4,755	P	—	4	PI, 211MVRD
32N-114W-29bb	42 44 15	110 22 11	8,436	5,328	P	—	4	PI, 211MVRD
33N-114W-9abc	42 51 02	110 27 40	8,317	7,070	P	—	4	PI, 211MVRD
35N-115W-24cd	42 59 06	110 31 35	9,754	14,999	P	—	4	PI, 211MVRD
36N-112W-28cab	43 03 37	110 13 40	7,788	4,363	P	—	5	PI, 211LNCE
Sweetwater County								
12N-94W-11ac	41 01 38	107 56 37	6,542	7,600	P	—	4	PI, 211LNCE
12N-96W-24bb	41 00 08	108 09 50	6,624	7,513	P	—	4	PI, 211LNCE
12N-97W-8	41 00 49	108 20 44	6,914	—	P	—	4	T&C, 211LNCE
12N-103W-10aa	41 01 02	108 59 29	9,308	—	P	—	4	T&C, 211MVRD
12N-103W-10ca	41 01 04	109 00 05	9,404	—	P	—	4	T&C, 211MVRD
12N-103W-10dad	41 01 54	108 59 18	9,404	6,663	P	—	4	PI, 211MVRD
12N-103W-11aa	41 00 48	108 58 18	8,923	—	P	—	4	T&C, 211MVRD
12N-103W-11aab	41 02 24	108 58 15	8,923	7,128	P	—	4	PI, 211ERCS
12N-103W-11bc	41 00 38	108 58 48	8,323	—	P	—	4	T&C, 211MVRD
12N-103W-21bc	41 00 27	109 01 21	8,244	6,500	P	—	4	T&C, PI, 211ALMD
12N-110W-22db	41 02 16	109 48 01	6,787	—	P	—	4	T&C, 217DKOT
13N-99W-18add	41 06 03	108 35 14	7,277	11,196	P	—	4	T&C, PI, 211LWIS, 211MVRD
13N-99W-18bcd	41 06 04	108 36 01	7,303	7,172	P	—	4	T&C, PI, 211ALMD, 211LNCE, 211MVRD, 211ERCS, 211RKSP
13N-99W-18bdc	41 06 05	108 36 01	7,280	14,339	P	—	4	PI, 217DKOT
13N-99W-19	41 04 53	108 35 54	7,225	—	P	—	4	T&C, 224ENRD
13N-100W-1ac	41 07 26	108 37 05	7,044	—	P	—	4	T&C, 211LNCE
13N-100W-21bd	41 04 46	108 40 21	7,200	—	P	—	4	T&C, 211LNCE
13N-104W-15cc	41 06 03	109 07 06	7,172	6,522	P	—	4	T&C, PI, 211ALMD, 211MVRD, 211RKSP
13N-106W-27ad	41 04 28	109 19 54	7,800	—	P	—	4	T&C, 211MVRD
14N-100W-9bb	41 12 01	108 40 38	7,406	8,357	P	—	4	T&C, PI, 211ALMD, 211LWIS
14N-100W-35cb	41 08 31	108 38 27	7,114	—	P	—	4	T&C, 211ERCS
14N-101W-1ba	41 12 28	108 43 49	7,374	3,698	P	—	4	PI, 211FXHL
14N-101W-11dc	41 11 46	108 37 48	7,511	3,550	P	—	4	T&C, PI, 211LNCE, 211FXHL

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Sweetwater County—Continued								
14N-102W-28ba	41 10 08	108 54 12	7,701	4,902	P	—	4	T&C, PI, 211ALMD, 211MWRD, 211ERCS
14N-103W-12ba	41 12 24	108 57 25	7,731	—	P	—	4	T&C, 217DKOT
14N-104W-31dcc	41 08 31	109 10 36	7,478	—	P	—	4	T&C, 211LRKSP
14N-105W-7ab	41 12 32	109 17 12	7,412	—	P	—	4	T&C, 211LRKSP
14N-105W-7abd	41 12 46	109 16 45	7,424	6,750	P	—	4	PI, 211ERCS
14N-105W-8bb	41 12 37	109 16 23	7,452	—	P	—	4	T&C, 211LRKSP
15N-103W-7	41 17 32	109 03 26	7,155	—	P	—	4	T&C, 211FRNR
15N-103W-7da	41 17 34	109 02 44	7,096	4,725	P	—	4	PI, 220NGGT
15N-103W-8ac	41 17 47	109 01 54	7,106	4,440	P	—	4	PI, 217LKOT
15N-103W-8cb	41 17 33	109 02 29	7,190	4,100	P	—	4	PI, 217LKOT
15N-103W-25bb	41 15 20	108 58 02	6,948	—	P	—	4	T&C, 217DKOT
15N-104W-7ad	41 17 38	109 09 51	7,554	—	P	—	4	T&C, 211FRNR, 217DKOT
15N-104W-7dc	41 17 26	109 10 23	7,552	—	P	—	4	T&C, 217DKOT
15N-104W-11ba	41 18 00	109 05 33	7,587	5,035	P	—	5,6	PI, 211FRNR, 217DKOT, 217LKOT, 220NGGT
15N-104W-15cc	41 16 30	109 07 04	7,746	5,216	P	—	4	PI, 217DKOT
15N-104W-15dab	41 16 56	109 07 15	7,042	—	P	—	4	T&C, 217DKOT
15N-104W-16bb	41 17 09	109 08 12	7,691	5,220	P	—	4	T&C, PI, 217DKOT
15N-104W-26bc	41 14 48	109 05 46	7,421	—	P	—	4	T&C, 217DKOT
15N-104W-27ac	41 15 12	109 06 28	7,501	5,002	P	—	4	PI, 217DKOT
15N-104W-36dbc	41 13 06	109 04 42	7,233	6,145	P	—	5,6	PI, 211FRNR, 217DKOT, 217LKOT, 220NGGT
15N-105W-11dac	41 17 32	109 12 03	7,520	1,199	P	—	4	PI, 217DKOT
15N-111W-20bcd	41 15 44	109 57 22	6,662	16,325	P	—	5	PI, 217DKOT
16N-98W-1cbd	42 23 20	108 23 12	6,939	14,615	P	—	4	PI, 211LNCE
16N-101W-2aa	41 23 53	108 44 27	7,170	14,571	P	—	4	PI, 220NGGT
16N-101W-2ba	41 23 53	108 44 59	7,094	8,163	P	—	4	PI, 211ERCS
16N-101W-11dca	41 23 14	108 44 54	7,141	11,459	P	—	5	PI, 211FRNR, 217DKOT
16N-101W-15aa	41 22 21	108 45 35	7,076	14,482	P	—	5	PI, 217DKOT
16N-103W-16bb	41 22 21	109 01 21	7,268	4,822	P	—	4	PI, 211FRNR
16N-104W-16ddb	41 21 46	109 07 18	7,286	7,130	P	—	4	PI, 224ENED, 220NGGT
16N-104W-24	41 20 56	109 04 33	7,295	—	P	—	4	T&C, 217DKOT
16N-106W-12dc	41 22 34	109 18 01	7,162	11,175	P	—	4	T&C, PI, 211ALMD, 211MWRD, 211LRKSP
16N-112W-28dd	41 20 06	110 02 56	7,075	18,759	P	—	4	PI, 217DKOT
17N-93W-33	41 24 20	107 52 52	6,560	—	P	—	5	PI, 211MWRD
17N-94W-5cac	41 28 33	108 01 09	6,698	11,420	P	—	5	PI, 211MWRD
17N-94W-21cac	41 25 57	108 00 01	6,806	11,556	P	—	5	PI, 211ALMD, 211ERCS, 211ARDG
17N-98W-7	41 28 12	108 29 27	8,608	—	P	—	5	PI, 211MWRD
17N-98W-11bbd	41 28 08	108 25 22	7,032	9,250	P	—	5	PI, 211ALMD
17N-99W-1ba	41 28 48	108 31 01	6,830	—	P	—	4	T&C, 211ALMD
17N-100W-19db	41 26 07	108 43 59	7,000	—	P	—	4	T&C, 211ALMD
17N-101W-16bd	41 27 09	108 48 12	6,999	4,601	P	E	4	PI, 211BLIR
17N-101W-35bb	41 24 42	108 46 07	7,063	6,800	P	—	4	PI, 211ALMD
17N-102W-1dca	41 28 31	108 51 18	6,860	7,121	P	—	4	PI, 211FRNR
17N-103W-1dc	41 28 29	108 58 34	6,872	—	P	—	5	PI, 211FRNR
17N-103W-13bdb	41 27 14	108 58 39	6,893	4,780	P	—	4	PI, 217MWRD
17N-103W-33ab	41 24 24	109 02 16	7,699	—	P	—	4	T&C, 221MRSN
17N-112W-27aad	41 25 50	110 02 22	6,805	12,900	P	—	4	PI, 217DKOT
18N-97W-29b	41 30 41	108 21 51	7,543	9,382	P	—	4	PI, 211ALMD
18N-98W-8ad	41 32 48	108 28 30	7,150	—	P	—	4	T&C, 211ALMD
18N-98W-21db	41 31 14	108 27 11	6,970	19,171	P	—	5	PI, 220NGGT
18N-99W-13bb	41 32 16	108 31 40	6,773	5,801	P	—	4	T&C, PI, 211ALMD
18N-99W-22dd	41 31 01	108 32 39	6,825	5,050	P	—	4	PI, 211LWIS
18N-99W-26cb	41 30 23	108 32 21	6,750	5,900	P	—	5	PI, 211LWIS, 211ALMD
18N-99W-26db	41 30 24	108 31 47	6,742	6,005	P	—	5	PI, 211LWIS, 211ALMD
18N-99W-28cc	41 30 03	108 35 06	6,739	5,060	P	—	4	T&C, PI, 211LNCE
18N-99W-31cd	41 29 18	108 36 41	6,771	4,342	P	—	4	T&C, PI, 211ALMD
18N-101W-28cc	41 30 03	108 48 57	7,233	7,910	P	—	4	T&C, PI, 211FRNR, 217DKOT
18N-102W-10dd	41 32 45	108 53 19	7,334	6,420	P	—	4	T&C, 217DKOT
18N-102W-12cd	41 32 30	108 51 41	7,005	—	P	—	4	T&C, 220NGGT
18N-103W-2ca	41 33 54	108 59 44	6,645	3,978	P	—	4	PI, 217DKOT
18N-103W-8dbd	41 32 59	109 02 50	6,558	3,133	P	—	4	PI, 217DKOT
18N-104W-15bab	41 32 41	109 07 51	6,789	4,606	P	—	4	PI, 211BKTR
18N-104W-28cc	41 30 13	109 09 22	6,761	245	W	D	4	USGS, 211BLIR
18N 105W-14acc	41 32 23	109 13 11	6,398	1,420	W	G	4	USGS, 211LRKSP
18N-110W-26ca	41 30 35	109 48 02	6,336	12,000	P	—	4	T&C, PI, 211MWRD
18N-110W-27ca	41 30 37	109 48 56	6,284	—	P	—	4	T&C, 211MWRD
18N-112W-2bbd	41 34 30	110 02 03	6,309	12,235	P	—	5	PI, 217DKOT
18N-112W-13bbd	41 32 26	110 00 29	6,347	12,675	P	—	5	PI, 217DKOT
18N-112W-14b	41 32 42	110 02 00	6,354	11,826	P	—	5	PI, 211FRNR
19N-97W-8ab	41 39 37	108 21 33	6,917	7,334	P	—	4	PI, 211FKHL
19N-97W-9ab	41 38 33	108 22 08	6,900	—	P	—	4	T&C, 211ERCS
19N-98W-5bdb	41 39 19	108 28 43	6,825	5,360	P	—	5	PI, 211ALMD
19N-98W-2bb	41 54 16	108 25 28	6,830	6,320	P	—	4	PI, 211ALMD
19N-98W-5cb	41 33 50	108 28 55	6,825	5,360	P	—	4	PI, 211ALMD
19N-98W-8aa	41 35 37	108 28 05	6,833	5,829	P	—	4	PI, 211ALMD
19N-98W-9acc	41 37 21	108 27 17	6,803	6,202	P	—	4	PI, 211ERCS
19N-98W-10bd	41 38 25	108 26 20	6,770	6,180	P	—	4	PI, 211ALMD
19N-98W-21ab	41 31 41	108 27 11	6,735	6,050	P	—	4	PI, 211LNCE
19N-98W-23ad	41 31 27	108 24 36	6,814	6,725	P	—	4	PI, 211ALMD
19N-98W-26ad	41 30 34	108 24 34	6,727	6,778	P	—	4	PI, 211ALMD
19N-98W-28bb	41 30 48	108 27 45	6,735	6,157	P	—	4	T&C, PI, 211ALMD, 2211ERCS
19N-98W-30ab	41 30 49	108 29 29	6,746	5,285	P	—	4	PI, 211ALMD
19N-99W-12c	41 38 06	108 31 04	6,830	3,539	W	G	4	USGS, 211FKHL
19N-99W-22a	41 36 41	108 33 14	6,871	4,322	P	—	4	PI, 211LNCE
19N-100W-2aa	41 39 27	108 38 27	7,025	3,061	P	—	4,5	PI, 211ALMD
19N-100W-2adb	41 39 21	108 37 29	7,018	2,923	P	—	4	PI, 211ALMD
19N-100W-14ad	41 37 29	108 38 25	6,834	2,566	P	—	4	PI, 211ERCS
19N-100W-16da	41 37 14	108 40 56	6,762	1,671	P	—	4	PI, 211ALMD
19N-100W-22	41 36 21	108 40 29	6,947	—	P	—	4	T&C, 211ALMD
19N-100W-28da	41 35 35	108 40 59	6,663	5,700	P	—	4	PI, 211LRKSP
19N-101W-12cc	41 38 00	108 45 03	6,586	3,551	P	—	4	T&C, PI, 211BLIR
19N-102W-19a	41 36 16	108 57 30	6,477	4,857	P	—	4	T&C, PI, 217MWRD, 217DKOT
19N-102W-28ddb	41 35 27	108 54 37	6,591	5,320	P	—	4	PI, 217LKOT
19N-102W-29cc	41 35 06	108 57 01	6,530	—	P	—	4	T&C, 217DKOT, 221MRSN
19N-102W-29od	41 35 26	108 56 17	6,519	4,798	P	—	4	PI, 217LKOT, 217DKOT
19N-102W-30cc	41 35 26	108 57 42	6,488	4,216	P	—	4	T&C, PI, 217DKOT

Table 2.—Location and description of wells for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Sweetwater County—Continued								
19N-103W-2acd	41 39 17	108 59 22	6,373	4,700	P	—	4	PI, 221MRSN
19N-103W-2dc	41 38 54	108 59 27	6,364	4,375	P	—	4	PI, 217DKOT
19N-103W-25cd	41 35 25	108 58 36	6,602	4,235	P	—	4	PI, 217DKOT
19N-103W-25dda	41 35 27	108 57 59	6,488	4,216	P	—	4	PI, 217DKOT
19N-103W-30cca	41 35 26	109 04 24	6,643	—	P	—	4	T&C, 224ENRD, 220NGGT
19N-104W-13cbd	41 32 07	109 05 42	6,330	4,077	P	—	4	PI, 211FNRN
19N-104W-14dda	41 37 14	109 05 58	6,307	3,730	P	—	4	PI, 221MRSN
19N-104W-23ad	41 36 44	109 06 03	6,307	340	W	D	4	USGS, 211EXTR
19N-105W-10ab	41 38 46	109 14 25	6,363	1,350	W	D	4	USGS, 211MWRD
19N-105W-10ac	41 38 32	109 14 25	6,370	1,699	W	G	4	USGS, 211MWRD
20N-97W-22dd	41 41 27	108 18 47	6,869	10,135	P	—	4	PI, 211ERCS
20N-98W-4dac	41 44 06	108 28 01	6,714	—	P	—	4	T&C, 211ALMD
20N-98W-28a	41 41 07	108 27 04	6,804	6,040	P	—	4	PI, 211FXHL
20N-98W-32dbc	41 34 52	108 28 25	6,912	5,861	P	—	4	PI, 211ALMD
20N-99W-9cc	41 43 12	108 34 43	6,965	4,335	P	—	4	PI, 211ALMD
20N-99W-11bb	41 43 51	108 32 22	6,872	4,976	P	—	4	T&C, PI, 211ALMD
20N-99W-11cca	41 43 15	108 32 18	6,857	3,760	P	—	4	PI, 211LWIS
20N-99W-11dd	41 43 28	108 32 35	6,916	—	P	—	4	T&C, 211ALMD
20N-99W-18ba	41 42 58	108 36 42	6,959	3,581	P	—	4	PI, 211ALMD
20N-99W-21dd	41 41 27	108 33 51	7,002	3,997	P	—	5	PI, 211ALMD
20N-99W-27cb	41 40 49	108 33 30	7,063	4,130	P	—	4	PI, 211ALMD
20N-99W-27cc	41 40 33	108 33 29	7,083	4,300	P	—	5	PI, 211ALMD
20N-99W-29ca	41 40 49	108 35 33	7,108	3,600	P	—	5	PI, 211ALMD
20N-99W-29da	41 40 49	108 34 59	7,058	3,650	P	—	5	PI, 211ALMD
20N-99W-29db	41 40 49	108 35 17	7,092	3,600	P	—	5	PI, 211ALMD
20N-99W-35dd	41 39 49	108 31 29	7,013	4,615	P	—	4	PI, 211ALMD
20N-100W-22bb	41 42 07	108 40 29	6,750	6,052	P	—	4	T&C, PI, 211BLIR
20N-101W-22cca	41 41 32	108 47 17	6,948	7,800	P	—	5	PI, 211FNRN
20N-101W-24ca	41 41 36	108 44 55	6,714	—	P	—	4	T&C, 211BLIR
20N-103W-36aad	41 40 19	108 57 54	6,515	5,807	P	—	4	PI, 217DKOT
20N-104W-12bc	41 43 06	109 05 59	6,465	—	P	—	4	T&C, 217DKOT
20N-104W-21d	41 41 39	109 08 26	6,560	—	P	—	5	PI, 211FNRN
20N-104W-23ddb	41 41 35	109 07 01	6,415	—	P	—	4	T&C, 211FNRN, 224ENRD
20N-104W-24bb	41 41 43	109 06 06	6,459	—	P	—	4	T&C, 217DKOT, 211FNRN
20N-104W-24cab	41 41 47	109 05 30	6,418	3,684	P	—	4	PI, 211FNRN
20N-104W-26cdb	41 40 39	109 07 09	6,467	—	P	—	4	T&C, 217DKOT
20N-105W-18d	41 42 31	109 17 42	6,738	18,757	P	—	5	PI, 211FNRN
20N-112W-2ca	41 44 32	110 01 46	6,426	12,316	P	—	5	PI, 211FNRN
21N-90W-19c	41 46 24	107 36 59	6,794	12,612	P	—	5	PI, 211MWRD
21N-92W-1c	41 49 07	107 45 03	6,984	12,640	P	—	5	PI, 211ALMD
21N-93W-22c	41 46 27	107 54 22	6,891	11,400	P	—	4	PI, 211LWIS
21N-94W-3cac	41 49 05	108 01 18	6,766	12,580	P	—	5	PI, 211MWRD
21N-95W-19c	41 46 27	108 11 49	6,617	9,596	P	—	5	PI, 211MWRD
21N-95W-36dbd	41 44 47	108 05 23	6,697	8,420	P	—	5	PI, 211LWIS
21N-98W-26d	41 45 30	108 27 56	6,810	—	P	—	4	T&C, 211ERCS
21N-98W-35dac	41 44 51	108 27 47	6,771	—	P	—	4	T&C, 211MWRD
21N-98W-36c	41 44 45	108 27 06	6,789	—	P	—	4	T&C, 211MWRD
21N-99W-22d	41 46 30	108 35 34	7,195	4,743	P	—	4	PI, 211ERCS
21N-100W-14cc	41 47 17	108 42 06	7,202	3,505	P	—	4	PI, 211ALMD
21N-101W-4a	41 49 14	108 51 12	6,999	—	P	—	4	T&C, 211ERCS
21N-103W-15c	41 47 25	109 04 00	7,020	6,121	P	—	5	PI, 211FNRN
21N-110W-22bd	41 47 11	109 52 27	6,634	8,007	P	—	4	PI, 211ERCS
21N-112W-13ca	41 47 50	110 04 04	6,614	—	P	—	5	PI, 211FNRN
22N-90W-15cac	41 52 28	107 33 24	6,600	14,953	P	—	5	PI, 211MWRD
22N-92W-32cc	41 49 51	107 50 10	6,846	12,500	P	—	4	T&C, PI, 211FXHL, 211ALMD, 211ERCS
22N-93W-35c	41 50 00	107 53 27	6,750	12,191	P	—	5	PI, 211LWIS
22N-98W-3bb	41 54 54	108 29 21	6,661	8,362	P	—	4	PI, 211ERCS
22N-101W-35aa	41 50 17	108 48 37	7,068	—	P	—	4	T&C, 211ALMD
22N-103W-16a	41 52 28	109 04 54	7,110	—	P	—	4	T&C, 211BLIR
22N-103W-16bbd	41 53 06	109 05 11	7,315	8,253	P	—	4	PI, 211FNRN
22N-103W-20bd	41 52 04	109 06 08	6,866	7,585	P	—	4	PI, 211FNRN
22N-103W-23b	41 52 10	109 02 45	7,070	7,940	P	—	5	PI, 211FNRN
22N-105W-11bcc	41 53 45	109 16 35	7,675	18,150	P	—	4	PI, 220NGGT
23N-99W-22a	41 57 23	108 35 34	6,710	7,435	P	—	4	PI, 211LWIS
23N-101W-30cc	41 55 38	108 54 07	6,911	—	P	—	4	T&C, 211ERCS
23N-103W-6dd	41 59 26	109 06 41	7,028	9,112	P	—	5	PI, 211FNRN
24N-101W-31bd	42 00 04	108 53 08	7,473	—	P	—	4	T&C, 211LWIS
24N-104W-24dc	42 01 43	109 08 35	7,043	—	P	—	4	T&C, 211LWIS
24N-109W-20cb	42 02 24	109 48 42	6,414	8,787	P	—	4	PI, 211ERCS
25N-96W-21c	42 07 17	108 17 41	6,696	14,576	P	—	4	PI, 211LWIS
25N-98W-14ac	42 08 31	108 25 09	6,775	13,005	P	—	5	PI, 211ERCS
25N-98W-17bdd	42 08 27	108 32 54	6,798	14,410	P	—	4	PI, 211ALMD
25N-110W-26ac	42 06 51	109 53 26	6,802	11,625	P	—	5	PI, 217DKOT
25N-111W-3bb	42 10 55	110 01 53	7,041	5,026	P	—	4	PI, 211MWRD
26N-90W-11ac	42 14 09	107 33 14	6,837	—	P	—	4	T&C, 217MDDY
26N-90W-14cbb	42 13 41	107 34 43	6,881	—	P	—	4	T&C, 217MDDY
26N-94W-17bb	42 13 32	108 04 34	6,817	—	P	—	4	T&C, 211STEL
26N-95W-8bbc	42 09 31	108 12 05	6,968	8,589	P	—	4	PI, 220NGGT
Uinta County								
13N-113W-5cab	41 08 03	110 10 34	7,305	13,555	P	—	5	PI, 217DKOT
14N-112W-16cc	41 11 21	110 03 20	7,045	13,891	P	—	4	PI, 211FNRN
14N-113W-21ca	41 10 35	110 09 20	7,302	13,680	P	—	4	PI, 217DKOT
14N-118W-7cd	41 12 08	110 46 05	7,540	665	W	G	4	USGS, 211FNRN
14N-119W-27add	41 09 29	110 48 53	7,484	1,615	P	—	5	PI, 211FNRN
15N-112W-29ac	41 15 15	110 03 54	6,719	18,839	P	—	4	PI, 217DKOT, 220NGGT
15N-113W-14bd	41 16 55	110 07 01	6,869	13,400	P	—	4	PI, 211FNRN
15N-117W-15cb	41 16 40	110 36 01	6,861	4,326	P	—	4	T&C, PI, 237DNDY
15N-117W-34da	41 14 04	110 35 09	7,493	9,800	P	—	4	PI, 211ADVL
15N-119W-6bdb	41 18 37	110 53 02	7,074	11,083	P	—	5	PI, 220NGGT
15N-119W-6dcb	41 18 16	110 52 29	7,461	12,480	P	—	4	PI, 220NGGT
16N-113W-21bbc	41 21 28	110 09 39	6,579	13,049	P	—	4,5	PI, 217DKOT, 211MWRD
16N-117W-3ddd	41 23 29	110 36 04	6,685	13,505	P	—	4	PI, 231ANR
17N-112W-4bbd	41 29 17	110 05 25	6,610	12,833	P	—	4	PI, 217DKOT
17N-112W-27cc	41 25 20	110 03 06	6,785	12,895	P	—	4,5	PI, 211FNRN, 217DKOT, 217ASPEN
17N-119W-18bdb	41 27 39	110 55 07	7,260	13,906	P	—	5	PI, 237FYNS

Table 2.--Location and description of wells for which hydrologic or physical properties are presented--Continued

Site number	Latitude	Longitude	Altitude (feet)	Depth (feet)	Type of well	Log-data available	Number of table that includes additional data	Remarks
Uinta County--Continued								
17N-119W-18daa	41 27 20	110 54 21	7,322	16,500	P	---	4	PI, 237INDY
18N-113W-11ca	41 33 28	110 08 31	6,353	---	P	---	4	USGS, 211ERCS
18N-113W-29ddd	41 30 24	110 08 05	6,489	13,174	P	---	4,5	PI, 211FRAR, 217DKCT
18N-117W-36dca	41 29 43	110 35 00	7,262	19,808	P	---	4	T&C, PI, 237TYNS
18N-118W- 5dd	41 33 59	110 46 21	7,484	---	P	---	5	PI, 220NGGT
18N-120W-24dbb	41 31 40	110 05 55	6,606	8,550	P	---	4	PI, 220NGGT

Table 3.—Location and description of sampling sites for which hydrologic or physical properties are presented

Site number: See text for explanation of site-numbering systems.

Depth: Depth below land surface.

Type of site: O, outcrop; E, excavation.

Remarks: Source of data: USGS, U.S. Geological Survey; JO, Jobin (1962); UY, Uyur (1980). Formation codes: See table 1.

Site number	Latitude	Longitude	Altitude (feet)	Type of site	Number of table that includes additional data	Remarks
Arizona						
Apache County						
04 054-09.15x07.85	36 23 12	109 54 39	—	O	5,6	JO, 211MWRD
09 035-00.42x06.33	36 39 32	109 15 18	—	O	5	JO, 231LKCK
09 035-00.75x06.35	36 39 30	109 15 45	—	O	5	JO, 224ENRD
09 035-00.85x06.48	36 39 27	109 15 57	—	O	5	JO, 221CSPG
09 035-01.00x06.50	36 39 24	109 16 03	—	O	5	JO, 221MRSN
09 052-06.65x10.85	36 20 38	109 22 00	—	O	5	USGS, 231MNRB
10 054-01.18x06.22	36 24 38	109 46 15	—	O	5	JO, 224ENRD
Coconino County						
08 024-01.47x14.20	36 47 48	110 16 34	—	O	5	JO, 231LKCK
08 024-08.00x02.65	36 57 44	110 23 39	—	O	5	JO, 231SRMP
08 024-08.18x02.80	36 57 36	110 23 48	—	O	5	JO, 234MKNP
08 039-07.30x04.28	36 41 20	110 22 40	—	O	5	JO, 221SLWS
08 039-10.24x07.49	36 38 30	110 26 00	—	O	5	JO, 221CSPG
08 039-10.53x07.17	36 38 40	110 25 20	—	O	5	JO, 227N/JO
08 039-10.72x07.04	36 38 58	110 26 30	—	O	5	JO, 231KYNT
Colorado						
Dolores County						
NB04101823ACB	37 48 12	108 49 18	5,200	O	6	USGS, 231WNGT
Garfield County						
SC00409234BDD	39 39 35	107 42 21	6,600	E	6	USGS, 227GLNC
SC00409234CAA	39 39 28	107 42 21	6,600	O	6	USGS, 224ENRD
SC00509115DDD	39 36 30	107 35 21	7,150	O	6	USGS, 227GLNC, 224ENRD
Mesa County						
SC01110119CAA	39 05 04	108 43 28	—	O	5	JO, 224ENRD
SC01110130DDDB	39 02 23	108 37 41	—	E	5	JO, 221SLWS
SC01110233ACA	39 03 33	108 47 31	—	E	5	JO, 217CRCSL
SC01110236ADA	39 03 24	108 44 07	—	O	5	JO, 221SLWS
SC01210030CBC	38 59 00	108 37 03	6,400	E	6	USGS, 224MOAB
SC01210109ADA	39 01 43	108 40 39	—	O	5	JO, 231KYNT
SC01210125AAD	38 59 15	108 37 10	6,850	O	6	USGS, 231KYNT, 224SKRK
SC01210125ACA01	38 59 10	108 37 21	6,850	O	6	USGS, 231WNGT
SC01210125ACA02	38 59 10	108 37 21	6,850	O	6	USGS, 231WNGT
SC01210125CAA	38 58 55	108 37 09	6,900	O	6	USGS, 231WNGT
UB00100232BCC	39 06 53	108 44 13	—	O	5	JO, 231KYNT
UB00100232CBD	39 06 40	108 44 03	—	O	5	JO, 231WNGT
UB00100233CDA	39 06 50	108 42 08	4,655	O	5,6	USGS, 221SLWS
UC00100120ABA	39 03 42	108 36 49	4,750	O	5,6	USGS, 217DKROT
UC00100130DCC	39 02 06	108 37 45	—	O	5	JO, 224ENRD
UC00100131ADA	39 01 49	108 37 52	—	O	5	JO, 231WNGT
Moffat County						
SB00410030ABC	40 17 30	108 39 39	8,400	O	6	USGS, 227GLNC
SB00410031BCD	40 16 20	108 40 06	8,500	O	6	USGS, 224ENRD, 224CRTS
Montezuma County						
NB03500904DCA02	37 18 42	107 51 30	7,900	E	6	USGS, 224JOCK
NB03500909AAB	37 19 15	107 51 06	8,000	E	6	USGS, 224ENRD
NB03501026DCC	37 15 15	107 55 42	—	E	5	USGS, 211PNLK
NB03501419	37 16 28	108 25 47	—	O	5	JO, 211MWRD
NB03501606CCD	37 18 48	108 39 35	—	E	5	JO, 221WSRC
NB03501607BAA	37 18 42	108 39 16	—	E	5	JO, 217DKROT
NB03601713DDB	37 23 30	108 41 16	—	E	5	JO, 221SLWS
NB03601723CBC	37 21 39	108 41 54	—	E	5	JO, 221BRSB
NB03601731DDA	37 19 46	108 45 19	—	E	5	JO, 224ENRD, 224CRML
NB03601734BAA	37 20 26	108 42 35	—	E	5	JO, 224JOCK
NB03601827DCC	37 20 30	108 48 37	—	E	5	JO, 227N/JO
NB03801331CCC	37 30 16	108 20 03	—	O	5	JO, 231CHNL
Montrose County						
NB04201835CAD	37 51 21	108 49 14	—	O	5	JO, 231CHNL
NB04601703DAC	38 15 48	108 43 51	—	O	5	JO, 231CHNL
NB04601708DDC	38 14 52	108 45 46	—	O	5	JO, 227N/JO
NB04701616CDD	38 19 15	108 38 34	—	O	5	JO, 224ENRD
NB04701709DAC	38 20 15	108 44 41	—	O	5	JO, 221MRSN
NB04701710DDD	38 19 58	108 43 21	—	O	5	JO, 217CRCSL
NB04701917ADC	38 19 40	108 58 55	6,850	E	6	USGS, 227N/JO
NB04702013AAB	38 05 10	109 01 06	6,800	E	6	USGS, 227N/JO
NB04801719CAB	38 23 55	108 47 23	—	E	5	JO, 217CRCS
NB04801728BED	38 23 20	108 45 20	—	E	5	JO, 224ENRD
NB04801729CAB	38 23 04	108 46 16	—	E	5	JO, 231KYNT
NB04801730ACD	38 23 07	108 47 00	—	E	5	JO, 231WNGT
NB04801730BBB	38 23 27	108 47 36	—	E	5	JO, 221BRSB
NB04801805AAB	38 27 20	108 52 18	—	E	5	JO, 231WNGT
NB04801824CBA	38 24 01	108 48 39	—	E	5	JO, 224CRML
NB04801824DDC	38 23 36	108 48 01	—	E	5	JO, 221SLWS
NB04901834CDC	38 27 35	108 51 49	—	E	5	JO, 231KYNT

Table 3.—Location and description of sampling sites for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Type of site	Number of table that includes additional data	Remarks
Rio Blanco County						
SC00109314BCD	39 58 11	107 48 04	6,700	E	6	USGS, 224ENRD
SC00109314BDC	39 58 11	107 48 03	6,700	E	6	USGS, 227GLNC
SC00109314CAA	39 58 04	107 47 56	6,700	E	6	USGS, 227GLNC
San Miguel County						
NB04301128DAC	37 57 21	108 04 43	—	O	5	JO, 224ENRD
NB04301901DBC	38 00 58	108 52 41	6,560	O	5	USGS, 221SLWS, 227NWJO
Utah						
Carbon County						
(D-13-12) 7d	39 42 00	110 36 30	—	O	5	JO, 211MWRD
Daggett County						
(A- 2-20) 5cbd	40 56 09	109 42 12	5,100	O	6	USGS, 221STMP
(A- 2-20) 6aaa	40 56 34	109 42 36	5,320	O	6	USGS, 211FRNR
(A- 2-20) 6cdd	40 55 50	109 43 12	5,120	O	6	USGS, 227GLNC
Duchesne County						
U(C- 1- 8) 4dac	40 25 10	110 47 09	6,920	O	5,6	USGS, 227NWJO
U(C- 1- 8) 13cbd	40 23 27	110 44 30	6,740	O	5	USGS, 211CRCK
Emery County						
(D-18- 9) 35bcd	39 12 34	110 52 40	5,580	O	5,6	USGS, 211DKOT
(D-18-12) 25aac	39 13 59	110 30 52	5,560	O	5,6	USGS, 227NWJO
(D-19- 9) 1cda	39 11 57	110 51 15	5,680	O	5,6	USGS, 217CDRM
(D-19-10) 13dbd	39 09 59	110 44 36	5,560	E	5,6	USGS, 227NWJO
(D-19-11) 17bba	39 10 33	110 42 55	5,695	E	5,6	USGS, 227NWJO
(D-19-11) 17bba	39 10 33	110 42 55	5,700	O	5	USGS, 224CRML
(D-19-11) 19aa	39 09 42	110 43 15	—	O	5,6	UY, 227NWJO
(D-19-11) 20bca	39 09 29	110 43 00	5,810	E	5	USGS, 227NWJO
(D-19-11) 33bbd	39 07 53	110 41 53	5,380	E	5,6	USGS, 231WNGT
(D-19-13) 16abb	39 10 36	110 28 16	5,280	O	5,6	USGS, 224ENRD
(D-19-14) 5adb	39 12 03	110 22 29	4,890	O	5,6	USGS, 217CDRM
(D-19-14) 6bdc	39 11 35	110 23 34	5,130	O	5,6	USGS, 221SLWS
(D-20-12) 3cab	39 06 33	110 33 34	6,230	E	5,6	USGS, 227NWJO
(D-20-13) 15cad	39 04 46	110 26 53	4,900	O	5,6	USGS, 227NWJO
(D-21- 7) 34oba	38 57 16	111 07 09	6,160	O	5,6	USGS, 211FRNR
(D-21- 7) 36ccd	38 56 30	111 04 57	5,980	O	5,6	USGS, 211DKOT
(D-21- 9) 15add	38 59 23	110 53 18	5,760	O	6	USGS, 227NWJO
(D-21- 9) 15dda	38 59 06	110 53 21	5,780	O	6	USGS, 227NWJO
(D-21-15) 4cbb	38 55 31	110 16 51	—	O	5	JO, 217CRCS
(D-21-16) 32abb	38 56 48	110 11 15	4,220	O	5,6	USGS, 211DKOT
(D-22- 8) 8cab	38 55 19	111 02 56	5,980	O	5,6	USGS, 221SLWS
(D-22-10) 33bca	38 51 46	110 48 45	7,300	E	5,6	USGS, 231KYNT
(D-22-13) 1cdd	38 55 21	110 26 28	4,600	E	5	USGS, 231WNGT
(D-22-13) 12aab	38 55 12	110 26 11	4,490	E	5,6	USGS, 227NWJO
(D-22-13) 12aba	38 55 18	110 26 16	4,530	E	5,6	USGS, 227NWJO
(D-22-13) 12abb	38 55 18	110 26 22	4,560	O	5,6	USGS, 227NWJO
(D-22-13) 35bcc	38 51 27	110 28 00	4,520	O	5,6	USGS, 231WNGT
(D-22-13) 35bcd	38 51 25	110 27 50	4,490	E	5	USGS, 227NWJO
(D-22-15) 36cdd	38 50 53	110 12 50	4,200	O	5,6	USGS, 221SLWS
(D-23- 9) 3bda	38 50 38	110 53 54	7,040	E	5,6	USGS, 227NWJO
(D-23- 9) 3bdb	38 50 40	110 54 01	7,120	E	6	USGS, 227NWJO
(D-23-10) 9bbd	38 50 03	110 48 43	7,120	O	5,6	USGS, 231WNGT
(D-23-13) 24add	38 47 56	110 25 03	4,440	O	5,6	USGS, 224ENRD
(D-23-13) 27bcc	38 47 09	110 29 13	4,420	E	5,6	USGS, 227NWJO
(D-23-13) 28add	38 47 09	110 29 15	4,440	O	5,6	USGS, 227NWJO
(D-24-12) 35bcd	38 40 45	110 34 38	5,080	E	5,6	USGS, 227NWJO
(D-24-12) 35cbd	38 40 40	110 34 40	4,950	E	5,6	USGS, 227NWJO
(D-24-14) 1baa	38 45 38	110 19 52	—	O	5	JO, 221MRSN
(D-24-14) 32aac	38 41 05	110 24 01	4,420	O	6	USGS, 227NWJO
(D-24-16) 12bcb	38 44 28	110 06 48	4,120	O	5,6	USGS, 227NWJO
(D-24-16) 15dbb	38 43 29	110 08 28	4,280	E	5,6	USGS, 227NWJO
(D-26- 9) 9cbd	38 33 52	110 56 55	5,130	O	5	JO, 231CHNL
(D-26- 9) 16cbd	38 32 48	110 56 57	5,000	O	5	JO, 231WNGT
(D-26- 9) 16dbd	38 32 50	110 56 23	4,960	O	5	JO, 231KYNT
(D-26- 9) 21aab	38 32 26	110 56 12	4,820	O	5	JO, 227NWJO
(D-26- 9) 22bcb	38 32 17	110 55 46	4,600	O	5	JO, 224CRML
(D-26- 9) 22cba	38 32 00	110 55 47	4,560	O	5	JO, 224ENRD
(D-26- 9) 22dbc	38 31 55	110 55 28	4,555	O	5	JO, 224CRIS
(D-26- 9) 23dcd	38 31 43	110 54 02	4,560	O	5	JO, 217CRCSL
Garfield County						
(D-30- 6) 35cdd	38 09 09	111 14 35	—	O	5	JO, 231WNGT
(D-31- 7) 28ddb	38 04 36	111 08 03	5,745	E	5,6	USGS, 227NWJO
(D-31- 9) 26cab	37 44 05	110 53 04	—	O	5	JO, 227NWJO
(D-32- 8) 18aca	38 01 37	111 03 50	5,460	O	5,6	USGS, 221SLWS
(D-32- 8) 18bda	38 00 45	111 04 50	5,530	O	5,6	USGS, 211DKOT
(D-32-12) 14dab	38 01 17	110 33 07	4,250	O	6	USGS, 227NWJO
(D-32-13) 19dbc	38 00 27	110 31 27	4,440	O	6	USGS, 227NWJO
(D-32-13) 33bbc	37 59 06	110 29 30	3,880	O	6	USGS, 231WNGT
(D-33- 9) 32aab	37 53 58	110 56 54	—	O	5	JO, 224ENRD
(D-34- 3) 32acc	37 48 00	111 35 35	6,200	O	5,6	UY, USGS, 227NWJO
(D-34- 5) 30ccc	37 49 06	111 24 11	6,220	O	6	UY, 227NWJO
(D-34- 8) 15bcc	37 45 00	111 14 53	—	O	5,6	UY, 227NWJO
(D-34- 8) 16add	37 45 00	111 15 01	—	O	5,6	UY, 227NWJO
(D-34- 8) 16dad	37 50 57	111 01 25	—	E	5,6	USGS, 227NWJO
(D-34- 8) 16dca	37 50 51	111 01 37	—	E	5,6	USGS, 231WNGT
(D-34-12) 3dda	37 52 35	110 34 00	4,800	O	6	USGS, 224ENRD, 227NWJO

Table 3.—Location and description of sampling sites for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Type of site	Number of table that includes additional data	Remarks
Garfield County—Continued						
(D-34-12) 22bcd	37 50 15	110 34 50	4,800	O	6	USGS, 227NWJO
(D-35- 2) 1caa	37 47 25	111 37 54	—	O	5	JO, 224ENRD
(D-35- 3) 18baa	37 46 00	111 36 42	—	O	5	JO, 221MRSN
(D-35- 3) 20ccc	37 44 44	111 36 02	—	O	5	JO, 227NWJO
(D-35- 4) 1da	37 47 20	111 25 10	5,700	O	5,6	USGS, UY, 227NWJO
(D-35- 9) 29ccb	37 43 52	110 56 51	—	O	5	JO, 231KYNT
(D-35-10) 35cab	37 43 07	110 39 59	4,800	O	6	USGS, 224ENRD
(D-36- 2) 12ccc	37 41 17	111 38 12	—	O	5	JO, 211MWRD
(D-36- 3) 27dcd	37 38 34	111 33 29	—	O	5	JO, 224MNSR
(D-36- 7) 7aba	37 41 55	111 10 35	5,300	O	5	USGS, 231WNGT
(D-37- 3) 3cda	37 36 56	111 33 44	—	O	5	JO, 217CRCS
Grand County						
(D-20-20) 33d	39 01 10	109 42 35	—	O	5	JO, 211MWRD
(D-20-26) 15bcc	38 32 34	109 42 24	5,600	O	6	USGS, 231WNGT
(D-21-24) 29dda	38 57 08	109 16 30	4,310	O	5,6	USGS, 211DKOT
(D-23-20) 3ccd	38 50 04	109 41 46	—	O	5	JO, 221MRSN
(D-23-23) 27cc	38 46 10	109 22 06	—	O	5,6	UY, 227NWJO
(D-23-24) 5ddb	38 50 00	109 17 20	4,190	O	5,6	USGS, 221SLWS
(D-23-24) 8cbb	38 49 10	109 17 37	—	O	5	USGS, 224SKRK
(D-23-24) 18bbd	38 48 33	109 18 21	—	O	5	USGS, 231KYNT
(D-23-24) 18bcc	38 48 20	109 17 36	5,100	O	6	USGS, 227NWJO
(D-23-24) 29bbc	38 47 40	109 18 39	—	E	5	USGS, 231WNGT
(D-24-18) 31aca	38 40 59	109 58 21	—	E	5	USGS, 227NWJO
(D-24-20) 8cda	38 44 18	109 43 50	4,490	O	5,6	USGS, 211DKOT
(D-24-20) 27bdd	38 41 25	109 41 38	4,540	O	5,6	USGS, 221SLWS
(D-25-16) 8ca	38 36 49	110 03 41	4,040	O	6	USGS, 231KYNT
(D-25-20) 21add	38 37 53	109 42 32	—	O	5	JO, 217CRCSL
(D-26-19) 34add	38 30 00	109 48 00	—	O	5	JO, 224CRML
(D-26-21) 7caa	38 33 21	109 38 21	—	O	5	JO, 224ENRD
R(D-25-17) 14abc	38 38 06	110 00 45	—	E	5	USGS, 227NWJO
T(D-26-17) 36dba	38 29 41	109 59 28	—	O	5	JO, 231CHNL
Kane County						
(C-39- 2) 5dc	37 26 40	112 01 35	6,000	O	5,6	UY, USGS, 227NWJO
(C-41- 5) 13bcc	37 14 52	112 22 25	6,040	O	6	USGS, 227NWJO
(C-41- 5) 24dba	37 13 48	112 21 50	5,780	O	6	UY, 227NWJO
(C-41- 8) 25dda	37 12 37	112 41 02	5,200	O	6	USGS, 227NWJO
(C-41- 9) 19bdd	37 13 55	112 53 32	6,520	O	6	UY, 227NWJO
(C-42- 5) 2cdd	37 10 55	112 23 11	5,550	O	6	USGS, 227NWJO
(C-42- 5) 23bbb	37 09 06	112 23 30	5,480	O	6	USGS, 227NWJO
(C-42- 5) 26ccc	37 07 26	112 23 27	5,480	O	6	USGS, 227NWJO
(C-42- 6) 19cbb	37 08 23	112 34 06	5,575	O	6	UY, 227NWJO
(C-42- 6) 30abb	37 08 12	112 33 54	5,520	O	6	USGS, 227NWJO
(C-42- 6) 31dac	37 06 44	112 33 32	5,240	O	6	USGS, 227NWJO
(C-42- 7) 3cba	37 11 09	112 37 31	6,120	O	6	UY, 227NWJO
(C-42- 7) 4dda	37 10 58	112 37 46	6,190	O	6	UY, 227NWJO
(C-42- 7) 10bdd	37 10 24	112 37 10	6,120	O	6	USGS, 227NWJO
(C-43- 1) 23bab	37 03 50	111 52 54	4,760	O	6	UY, 227NWJO
(C-43- 5) 13dcc	37 03 58	112 21 50	5,960	O	6	UY, 227NWJO
(C-43- 5) 24abd	37 03 43	112 21 43	5,240	O	6	USGS, 231MOW
(C-43- 6) 15bcd	37 04 26	112 30 59	5,640	O	6	USGS, 231MOW
(C-44- 5) 2aca	37 01 02	112 22 52	5,130	O	6	USGS, 231SRMP
San Juan County						
(D-27-19) 3baa	38 29 25	109 49 07	—	O	5	JO, 227NWJO
(D-27-19) 11ddb	38 27 49	109 54 10	—	O	5	JO, 231KYNT
(D-27-20) 12ccc	38 27 39	109 40 37	—	O	5	JO, 231WNGT, 231CHNL
(D-28-21) 12cac	38 22 35	109 33 39	—	O	5	JO, 221MRSN
(D-29-33) 6bdc	38 18 33	109 26 05	5,900	O	5,6	UY, USGS, 227NWJO
(D-31-20) 23aaa	38 04 30	109 40 43	—	O	5	JO, 231CHNL
(D-31-25) 19dca	38 04 20	109 12 54	—	O	5	JO, 231CHNL
(D-32-22) 8bbc	38 00 50	109 32 09	7,400	E	6	USGS, 231WNGT
(D-32-22) 23bba	37 59 16	109 29 43	—	E	5	USGS, 227NWJO
(D-37-20) 13adb	37 34 24	109 39 35	5,800	O	5	JO, 227NWJO
(D-37-20) 13daa	37 34 11	109 34 27	5,500	O	5	JO, 231WNGT
(D-37-20) 13dab	37 34 15	109 39 34	5,700	O	5	JO, 231KYNT
(D-37-21) 7ca	37 35 03	109 39 03	5,860	O	5	JO, 224CRML
(D-37-21) 7dda	37 34 48	109 38 20	5,840	O	5	JO, 224ENRD
(D-37-21) 13aca	37 34 20	109 33 15	5,680	O	5	JO, 217CRCS
(D-37-21) 17aaa	37 34 34	109 37 15	5,600	O	5	JO, 221MRSN
(D-38-13) 36dda	37 26 06	110 25 14	5,280	O	6	USGS, 227NWJO
(D-38-14) 21bbd	37 28 28	110 22 50	5,250	O	6	USGS, 227NWJO
(D-39-13) 1adc	37 25 35	110 25 21	5,160	O	6	USGS, 231KYNT
(D-39-14) 9acd	37 24 43	110 22 13	5,100	O	6	USGS, 231WNGS
(D-40-12) 10dca	37 19 08	110 34 16	4,960	O	6	USGS, 227NWJO
(D-40-20) 36cbc	37 15 52	109 40 27	—	E	5	JO, 231CHNL
(D-40-20) 36cbd	37 15 51	109 40 15	—	E	5	JO, 231KYNT
(D-40-20) 36ccb	37 15 41	109 40 25	—	O	5	JO, 231WNGT
(D-40-21) 31bcc	37 16 06	109 39 23	—	E	5	JO, 227NWJO
(D-40-21) 32bcc	37 16 02	109 38 15	—	O	5	JO, 224ENRD
(D-40-22) 19aad	37 17 57	109 31 56	—	O	5	JO, 221BLFF
(D-40-22) 19abd	37 18 00	109 32 12	4,600	E	6	USGS, 221BLFF
(D-42-11) 33dca	37 05 15	110 41 19	4,600	O	6	USGS, 231WNGT
(D-43-11) 4bba	37 05 06	110 41 58	5,220	O	6	USGS, 227NWJO, 231WNGT
T(D-29-23) 35ccd	38 13 00	109 22 14	—	E	5	USGS, 224SKRK
Sevier County						
(D-24- 5) 36aac	38 41 02	111 18 09	—	O	5	JO, 211MWRD

Table 3.—Location and description of sampling sites for which hydrologic or physical properties are presented—Continued

Site number	Latitude	Longitude	Altitude (feet)	Type of site	Number of table that includes additional data	Remarks
Summit County						
(D- 1- 4)28cca	40 42 00	111 30 20	6,510	O	6	USGS, 220NGGT
(D- 1- 4)33bda	40 41 37	111 30 08	6,650	O	6	USGS, 220NGGT
(D- 4- 2) 5aab	40 40 58	111 30 50	6,960	O	6	USGS, 220NGGT
Uintah County						
(D- 3-20)25ddd	40 32 10	109 37 12	6,100	O	6	USGS, 227GLNC
(D- 3-21)35adb	40 30 59	109 31 23	5,560	E	5,6	USGS, 211DKOT
(D- 3-22) 5dcb	40 35 01	109 28 12	5,805	E	5,6	USGS, 227GLNC
(D- 4-24)35dcc	40 25 23	109 11 22	5,800	O	6	USGS, 231GRTR
(D- 5-24) 2cca	40 24 30	109 11 18	6,206	O	6	USGS, 227GLNC
(D- 5-24) 3bac	40 25 03	109 12 12	6,300	O	6	USGS, 227GLNC
(D- 5-24) 3daa	40 24 48	109 77 36	6,350	O	6	USGS, 227GLNC
(D- 5-24) 4cdc	40 24 30	109 12 22	6,500	O	6	USGS, 224ENRD
(D- 6-24) 5cdb	40 19 29	109 14 38	5,020	O	5	USGS, 227GLNC
(D- 6-25)25aab	40 16 30	109 03 48	5,600	E	6	USGS, 211SEGO
(D- 6-25)25aab	40 16 30	109 03 48	6,400	E	6	USGS, 211CSLG
Washington County						
(C-39-13)28ccc	37 21 47	113 19 28	5,360	O	6	UY, 227NWJO
(C-41-15)33cod	37 04 58	113 32 44	3,400	O	6	UY, 227NWJO
(C-41-16) 9bdc	37 14 05	113 39 16	3,560	O	6	UY, 227NWJO
(C-41-16)34bdd	37 10 49	113 38 21	3,160	O	6	UY, 227NWJO
(C-41-17) 5aaa	37 14 59	113 46 20	3,630	O	6	UY, 227NWJO
(C-41-17) 5abb	37 15 12	113 46 18	3,480	O	6	UY, 227NWJO
(C-41-17) 8acc	37 14 06	113 46 35	3,690	O	6	UY, 227NWJO
(C-42-14)14abb	37 08 25	113 23 33	3,000	O	6	UY, 227NWJO
(C-42-15)18bdc	37 08 03	113 34 48	3,120	O	6	UY, 227NWJO
(C-42-16) 2ddc	37 09 18	113 36 31	3,240	O	6	UY, 227NWJO
Wayne County						
(D-27- 4)36dca	38 25 11	111 25 20	8,480	E	5,6	USGS, 227NWJO
(D-27- 9)27abb	38 26 20	110 55 26	---	O	5	JO, 211MVRD
(D-28-11)18aac	38 22 20	110 45 30	4,600	O	5,6	USGS, 221SLWS
(D-29- 6)22abb	38 11 45	111 15 05	---	O	5	JO, 217CRCSL
(D-29- 7)23caa	38 16 19	111 07 51	---	O	5	JO, 221MRSN
(D-29- 7)36ddb	38 15 19	111 06 40	5,280	O	5,6	USGS, 221SLWS
(D-30- 6) 9aaa	38 13 25	111 16 08	---	O	5	JO, 231SRMP
(D-30-11) 5ctb	38 13 39	110 44 48	---	O	5	JO, 221MRSN
Wyoming						
Carbon County						
12N- 89W- 5abd	41 02 15	107 26 00	6,020	O	6	USGS, 211MVRD
Lincoln County						
21N-118W- 6cda	41 49 40	110 51 45	6,920	O	5,6	USGS, 220NGGT
21N-118W- 6dca	41 49 40	110 51 10	6,960	O	5,6	USGS, 220NGGT
21N-118W-10bba	41 49 22	110 48 10	6,610	O	6	USGS, 220NGGT
22N-116W-24dab	41 52 15	110 31 23	7,160	O	6	USGS, 211ORDG
26N-115W-27abd	42 13 00	110 28 09	8,200	O	6	USGS, 220NGGT
Sweetwater County						
19N-105W-27aca	41 35 42	109 14 24	6,400	O	6	USGS, 211ALMD
Uinta County						
15N-118W-17bab	41 17 20	110 45 00	7,060	O	6	USGS, 211ADVL

Table 4.—Hydrologic properties from field tests at well sites

Site number: See text for explanation of site numbering systems.

Method: AQ, aquifer test; SC, specific capacity; SL, slug-injection test; DST, drill-stem test.

Remarks: CF, confined aquifer; HGM, Horner's graphical analysis; LDM, limited-data analysis; RP, reported; S, storage coefficient or specific yield, both are dimensionless; SLS, a straight-line solution (Lohman, 1972, p. 19-21); TCS, a type-curve solution (Reed, 1980); WT, water-table aquifer.

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared per day)	Test interval (feet below land surface)	Remarks
Adaville Formation (211ADVL)					
15N-117W-34da	DST	0.049	8.9	9,083 - 9,265	LDM
Almond Formation of Mesaverde Group (211ALMD)					
12N-103W-21bc	DST	0.062	1.4	5,104 - 5,126	LDM
	DST	.033	.72	5,104 - 5,126	HGM
13N-99W-18bc	DST	.018	1.9	5,098 - 5,205	HGM
13N-104W-15cc	DST	.084	1.3	3,259 - 3,274	LDM
14N-100W-9bb	DST	.022	.62	5,816 - 5,844	LDM
14N-102W-28ba	DST	.016	.89	2,352 - 2,406	HGM
16N-106W-12dc	DST	.048	5.1	3,024 - 3,131	LDM
	DST	.017	1.8	3,024 - 3,131	HGM
17N-99W-1ba	DST	.00088	.031	6,566 - 6,601	HGM
17N-100W-19db	DST	.011	.84	3,070 - 3,147	HGM
17N-101W-35bb	DST	.063	2.9	2,291 - 2,336	LDM
18N-97W-29b	DST	.0053	.079	9,144 - 9,159	LDM
	DST	.020	1.0	9,235 - 9,285	LDM
18N-98W-8ad	DST	.00036	.0089	6,670 - 6,695	HGM
18N-99W-13bb	DST	.0019	.10	5,440 - 5,493	LDM
	DST	.00099	.052	5,440 - 5,493	HGM
18N-99W-31cd	DST	.24	3.9	4,266 - 4,282	LDM
	DST	.081	1.3	4,266 - 4,282	HGM
19N-98W-2bb	DST	.0035	.11	6,180 - 6,211	LDM
19N-98W-5cb	DST	.0043	.19	5,175 - 5,220	LDM
19N-98W-8aa	DST	.013	.22	5,463 - 5,480	LDM
19N-98W-10bd	DST	.0050	.080	5,882 - 5,898	LDM
19N-98W-23ad	DST	.030	.84	6,605 - 6,633	LDM
19N-98W-26ad	DST	.023	2.1	6,685 - 6,775	LDM
19N-98W-28bb	DST	.0031	.062	5,748 - 5,768	LDM
19N-98W-30ab	DST	.0052	.16	5,186 - 5,216	LDM
19N-100W-2aa	DST	.0074	.074	2,696 - 2,706	LDM
19N-100W-2adb	DST	.056	1.7	2,655 - 2,685	LDM
	DST	.16	1.8	2,851 - 2,862	LDM
19N-100W-16da	DST	.040	2.2	1,400 - 1,454	LDM
19N-100W-22	DST	.11	2.2	1,470 - 1,490	HGM
20N-98W-4dac	DST	.0038	.48	5,752 - 5,878	HGM
20N-98W-32abc	DST	.19	3.8	5,366 - 5,386	LDM
20N-99W-9cc	DST	.0018	.049	4,185 - 4,212	LDM
20N-99W-11bb	DST	.0089	.31	4,575 - 4,610	LDM
	DST	.013	.44	4,575 - 4,610	HGM
20N-99W-11dd	DST	.020	.36	4,622 - 4,640	HGM
20N-99W-18ba	DST	.039	.55	3,154 - 3,168	LDM
20N-99W-27cb	DST	.0047	.23	4,006 - 4,055	LDM
20N-99W-35dd	DST	.10	.72	4,511 - 4,518	LDM
21N-100W-14cc	DST	.0016	.14	3,315 - 3,400	LDM
22N-92W-32cc	DST	.00026	.043	11,785 - 11,950	LDM
22N-101W-35aa	DST	.20	4.0	2,100 - 2,120	HGM
25N-98W-17bdd	DST	.00060	.18	10,730 - 11,030	LDM
SB0709206DD	DST	.10	1.6	3,221 - 3,236	HGM
SB00809031A	DST	.047	2.7	5,348 - 5,406	LDM
Ankareh Formation (231ANKR)					
16N-117W-3ddd	DST	0.00011	0.012	2,541 - 2,644	LDM
Aspen Shale (217ASPN)					
17N-112W-27cac	DST	0.00014	0.0017	12,461 - 12,582	LDM
Baxter Shale (211BKTR)					
16N-93W-13c	DST	0.00043	0.041	10,853 - 10,948	LDM
18N-104W-15bab	DST	.0084	.46	3,850 - 3,905	LDM
19N-104W-23ad	SC	.30	21	265 - 340	RP
	SC	.10	17	180 - 340	WT
28N-114W-1ab	DST	.00087	.071	3,042 - 3,124	LDM
Blackhawk Formation of Mesaverde Group (211BCKK)					
(D-12- 7)10bcd- 1	SC	480	7,700	95 - 111	CF
(D-17- 6)24dcd- 1	SC	.10	15	100 - 250	CF
Blair Formation of Mesaverde Group (211BLIR)					
17N-101W-16bd	DST	0.00095	0.21	3,695 - 3,913	LDM
18N-104W-28cc	SC	250	10,000	55 - 60	CF
				210 - 245	
19N-101W-12	DST	.032	.96	2,655 - 2,685	HGM
19N-101W-12cc	DST	.029	.87	2,790 - 2,820	LDM
20N-100W-22bb	DST	.010	.53	5,186 - 5,237	LDM
	DST	.0071	.36	5,186 - 5,237	HGM
20N-101W-24ca	DST	.017	1.1	3,574 - 3,639	HGM
22N-103W-16a	DST	.040	.60	4,023 - 4,038	HGM
Blue Gate Member of Mancos Shale (211BLGT)					
(D-28- 9)29bdb- 1	SC	350	6,000	37 - 54	CF
(D-28- 9)30dad- 1	SC	260	5,700	36 - 58	CF

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared per day)	Test interval (feet below land surface)	Remarks
Bluff Sandstone Member of Morrison Formation (221BLPF)					
(D-40-26)19adc- 1	SC	30	120	710 - 714	CF
(D-41-25)26aa	DST	.0024	.11	5,503 - 5,549	LDM
09 019-06.13x04.58	SC	.17	23	150 - 285	CF
Brushy Basin Member of Morrison Formation (221BRSE)					
(D-30-11) 5adb- 1	SC	34	340	25 - 35	CF
NA05100133ABB	SC	480	6,800	96 - 110	CF
NB03501601CDD	SC	.12	17	460 - 610	CF
NB04601511CCB	SC	11	360	234 - 265	CF
NB04800907BED	SC	51	910	227 - 245	CF
NB04901035BB	SC	.29	20	241 - 310	CF
UD00200231AD	SC	1.3	20	345 - 360	CF
Burro Canyon Formation (217BRCN)					
(D-24-19) 9aba- 1	SC	1.1	120	150 - 265	WT
(D-29-24) 6aad- 1	SC	1.8	54	180 - 210	CF
(D-33-23) 1caa- 1	SC	.56	30	206 - 260	CF
(D-34-25) 7add- 1	SC	.11	7.6	80 - 150	WT
(D-36-22) 26bda- 1	SC	.23	18	66 - 145	WT
(D-36-22) 26bda- 2	SC	.25	27	62 - 170	WT
(D-37-22) 22bbc- 1	SC	.034	5.0	50 - 195	WT
NB03601128CAC	SC	940	6,600	98 - 105	CF
NB04501231DDD	SC	.13	8.2	35 - 100	WT
NB04600913DAA	SC	.65	22	111 - 145	CF
NB04700818CDD	SC	1.4	150	165 - 272	CF
NB04700901BAA	SC	6.2	130	384 - 405	CF
NB04700935BAA	SC	1.5	41	108 - 136	WT
NB05001124DCC	SC	1.4	58	223 - 265	CF
Carmel Formation of San Rafael Group (224CRML)					
(D-19-10)15bac- 1	SC	0.30	47	320 - 476	CF
(D-27- 7) 7bcc- 1	SC	30	200	73 - 80	RP
	SC	.10	69	105 - 680	WT
(D-27-14) 5acc- 1	SC	.20	11	580 - 650	RP
	SC	.87	61	580 - 650	WT
(D-28- 8) 33cdd- 1	DST	.040	.40	611 - 621	LDM
(D-36-12)18bbd- 1	SC	.68	110	600 - 757	CF
Castlegate Sandstone of Mesaverde Group (211CSLG)					
(D-12- 7) 3bbb- 1	SC	—	10,000	—	CF
(D-12- 7) 4dda- 1	SC	—	17,000	—	CF
(D-14-25) 8ca	DST	0.014	.39	3,194 - 3,222	HGM
	DST	.024	.67	3,194 - 3,222	LDM
SB00110315	DST	.0077	1.5	3,165 - 3,355	HGM
SC00210210BD	DST	.091	3.6	1,536 - 1,576	LDM
Cedar Mountain Formation (217CDRM)					
(D-20-24) 9bc	DST	0.0068	0.076	1,420 - 1,431	LDM
Chinle Formation (231CHNL)					
(D- 3-20)23acc- 2	SC	12	36	147 - 150	CF
(D-26-22) 20daa- 1	SC	330	6,600	155 - 175	CF
(D-26-22) 20dac- 1	SC	.088	32	60 - 420	CF
12 034-05.75x13.00	SC	.027	4.5	25 - 190	WT
NB04701913DAA	SC	4.7	71	190 - 205	CF
Cliff House Sandstone (211CLFH)					
NB03401117BBA	SC	0.28	37	450 - 580	CF
Cloverly Formation (217CLVL)					
22N- 86W-26ad	DST	0.0016	0.082	3,320 - 3,373	LDM
25N- 86W-34ad	DST	.096	8.6	5,198 - 5,287	LDM
25N- 86W-35cba	DST	.0042	.40	5,637 - 5,733	LDM
Cody Shale (211CODY)					
27N- 94W-32dd	DST	0.099	7.0	2,304 - 2,375	LDM
Cow Springs Sandstone (224CSPG)					
17 092-02.82x10.85	SC	0.64	38	180 - 240	CF
17 092-05.50x17.10	SC	.23	19	254 - 275	CF
				360 - 381	
				425 - 445	
				565 - 586	
Cretaceous System—Upper (211CRCSU)					
16N- 91W-17b	DST	0.018	0.46	3,002 - 3,027	HGM
Crow Mountain Sandstone of Chugwater Group (231CRMN)					
16N- 90W-31ab	DST	0.19	22	9,063 - 9,180	HGM
Curreant Creek Formation (211CRCK)					
U(C- 1- 7)19dbd- 1	SC	2.0	60	36 - 65	RP
U(C- 2-10)20aac- 1	SC	200	12,000	40 - 100	RP
	SC	270	16,000	40 - 100	CF

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared per day)	Test interval (feet below land surface)	Remarks
Curtis Formation of San Rafael Group (224CRTS)					
(D- 3-21)13bdb- 1	SC	5.0	100	130 - 150	RP
Dakota Sandstone (211DKOT or 217DKOT)					
(A- 3-24)19dda- 1	DST	0.032	1.9	5,944 - 6,005	LDM
(A- 3-24)25cba- 1	DST	.033	1.3	6,254 - 6,293	LDM
	DST	.0011	.083	6,321 - 6,396	LDM
(A- 3-24)25dbc- 1	DST	.00057	.076	6,466 - 6,600	LDM
(D- 3-19)19dba- 1	SC	.080	10	110 - 240	RP
	SC	.80	100	112 - 240	RP, tested after cleaning
(D- 3-19)19dbb- 1	SC	1.0	130	69 - 195	RP
(D- 4-21) 4cdd- 1	SC	80	2,000	15 - 40	RP
(D- 5-22)21actb- 1	DST	.014	.22	2,163 - 2,178	LDM
(D- 7-25) 3ab	DST	.82	9.9	7,568 - 7,580	HGM
(D-17-24) 8cd	DST	.00019	.0097	5,776 - 5,826	LDM
(D-17-25)18cbc- 1	DST	.00049	.031	3,868 - 3,930	HGM
(D-17-25)22a	DST	.0018	.51	2,958 - 3,251	HGM
(D-18-25)20bcd- 1	DST	.081	1.6	1,428 - 1,448	HGM
(D-19-22) 4db	DST	.0016	.019	5,068 - 5,080	LDM
(D-20-21) 9bad- 1	DST	.013	1.3	3,360 - 3,460	LDM
(D-21- 6)16	DST	.028	.97	4,386 - 4,421	HGM
(D-24-19) 9aba- 1	SC	1.1	120	150 - 265	WT
(D-25- 4) 8da	DST	.012	1.0	3,880 - 3,960	LDM
(D-28-24)35dcc- 1	SC	30	1,200	40 - 80	CF
(D-29-24)10caa- 1	SC	.75	210	250 - 535	CF
(D-32-25)33cdd- 1	SC	1.2	36	115 - 145	CF
(D-33-23)36dad- 1	AQ	.77	—	—	RP, S = 0.000010
(D-33-23)36dad- 2	AQ	.35	—	—	RP, S = 0.000010
(D-33-24) 6cbd- 1	SC	130	1,500	21 - 32	CF
(D-34-25)10cdc- 1	SC	.11	2.2	0 - 20	WT
(D-34-26)30bcc- 1	SC	210	3,600	125 - 142	CF
12N-110W-22db	DST	.033	5.8	18,316 - 18,489	HGM
13N- 88W-36ca	DST	.13	5.2	5,990 - 6,031	HGM
13N- 89W-15db	DST	.13	1.7	6,053 - 6,066	LDM
13N- 99W-18dbc	DST	.000000011	.000014	12,912 - 14,170	LDM
14N-103W-12ba	DST	.00093	.011	7,128 - 7,140	HGM
14N-113W-21ca	DST	.0092	1.4	13,326 - 13,481	LDM
15N-103W-25bb	DST	.0060	.36	5,860 - 5,920	HGM
15N-104W- 7dc	DST	.11	2.0	3,967 - 3,985	HGM
15N-104W-15cc	DST	.14	5.3	4,533 - 4,572	LDM
15N-104W-15dbb	DST	.025	.97	4,533 - 4,572	HGM
15N-104W-16bb	DST	.34	7.2	4,119 - 4,140	LDM
	DST	.16	4.7	4,110 - 4,140	HGM
15N-104W-26bc	DST	.0019	.12	4,915 - 4,980	HGM
15N-104W-27ac	DST	.0039	.12	4,972 - 5,002	LDM
15N-105W-11dac	DST	.0068	.31	8,351 - 8,397	LDM
15N-112W-29ac	DST	.00044	.0083	12,864 - 12,883	LDM
	DST	.17	8.0	12,932 - 12,978	LDM
16N-104W- 24	DST	.069	6.6	3,683 - 3,779	HGM
16N-112W-28dd	DST	.000036	.0028	12,902 - 12,981	LDM
17N-112W- 4bbd	DST	.00001	.006	12,542 - 12,589	LDM
17N-112W-27aad	DST	.045	.90	12,547 - 12,567	LDM
18N-101W-28bc	DST	.040	5.1	7,386 - 7,512	LDM
	DST	1.4	98	7,308 - 7,378	HGM
18N-102W-10dd	DST	.068	11	5,854 - 6,010	HGM
18N-103W- 2ca	DST	.027	.98	3,354 - 3,390	LDM
18N-103W- 8dbd	DST	.0028	.13	2,490 - 2,535	LDM
18N-113W-29cdd	DST	.056	4.0	12,954 - 13,026	LDM
19N-102W-19a	DST	.88	43	4,281 - 4,330	HGM
	DST	.079	5.1	4,355 - 4,420	LDM
19N-102W-29cc	DST	.43	19	4,145 - 4,190	HGM
19N-102W-29cd	DST	.26	12	4,145 - 4,190	LDM
19N-102W-30cc	DST	.077	2.9	3,812 - 3,850	HGM
	DST	.079	3.0	3,812 - 3,850	LDM
19N-103W- 2dc	DST	.016	.56	4,825 - 4,860	LDM
19N-103W-25cd	DST	1.1	30	3,604 - 3,630	LDM
	DST	.54	12	3,722 - 3,745	LDM
19N-103W-25dda	DST	.079	3.0	3,812 - 3,850	LDM
20N-103W-36aad	DST	.057	6.0	4,615 - 4,720	LDM
20N-104W-12bc	DST	.22	6.1	3,923 - 3,951	HGM
20N-104W-24bb	DST	.0047	.22	3,647 - 3,695	HGM
20N-104W-26cdb	DST	.0071	.34	3,462 - 3,568	HGM
23N- 88W-18ca	DST	.010	.59	2,592 - 2,648	LDM
	DST	.00025	.014	2,592 - 2,648	HGM
25N- 88W- 2dd	DST	.0032	.066	3,056 - 3,077	HGM
27N- 90W-28dc	DST	.42	11	8,640 - 8,667	HGM
27N-113W-31db	DST	.00047	.019	8,345 - 8,386	HGM
28N- 93W-21ab	DST	.034	.40	6,900 - 6,912	LDM
NA05000119DBC	SC	33	560	136 - 153	CF
NA05000119DCC	SC	2.6	79	250 - 280	WT
NB03400629CC	DST	.00036	.058	7,995 - 8,154	LDM
NB03601401DD	SC	1.9	35	95 - 113	CF
NB03601411AD	SC	170	680	66 - 70	CF
NB03601413BCD	SC	.84	34	80 - 120	CF, well was pumped for 2 hours.
	SC	.87	35	80 - 120	CF, well was pumped for 3 hours.
NB03601501BC	SC	.30	22	185 - 260	WT
NB03601634DA	SC	1.3	77	60 - 120	CF
NB03701531CCC	SC	6.6	100	105 - 120	WT
NB03801635BDB	SC	.0050	—	—	Median of 35 tests, from 15 test holes, range of hydraulic conductivity is 0.0 - 1.3 feet per day.
NB03801732CCC	SC	.016	2.3	233 - 380	CF
NB03801806DAB	SC	40	680	51 - 68	WT
NB03901831AA	SC	1.3	34	60 - 86	CF
NB04501404CBC	SC	5.9	36	22 - 28	CF
NB04501404DCC	SC	3.4	65	19 - 38	CF
NB04501410BAC	SC	.87	19	30 - 52	CF

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared) per day)	Test interval (feet below land surface)	Remarks
Dakota Sandstone (211DKOT or 217DKOT)—Continued					
NB046 01430ADA	SC	0.34	7.2	64 - 85	CF
NB046 01506ADA	SC	.21	9.4	191 - 235	CF
NB046 01517AAA	SC	1.4	42	305 - 335	CF
NB04700818BBB	SC	4.0	590	118 - 268	CF
NB047 01118BAD	SC	98	3,900	60 - 100	CF
NB047 01531DCC	SC	.99	79	115 - 195	CF
NB047 01614CBB	SC	.85	51	200 - 260	CF
NB047 01625ABB	SC	13	310	175 - 198	CF
NB04801001ADB	SC	2.0	97	131 - 180	CF
NB04801001DAC	SC	1.9	95	131 - 180	CF
NB04801011AAA	SC	.53	14	172 - 198	CF
NB04900103AB	SC	.90	45	70 - 120	CF
NB05000111CA	SC	.72	11	450 - 465	CF
NB05000114BD	SC	.22	13	383 - 443	CF
NB05000125CA	SC	26	390	63 - 78	CF
NB05000125DB	SC	.52	27	60 - 112	WT
NB05100720ACC	SC	15	650	180 - 225	CF
NB05100720DBB	SC	3.7	180	103 - 150	WT
NB05101032BDB	SC	.014	1.3	0 - 933	WT
SB00110006AAA	DST	.025	.67	6,636 - 6,663	HGM
SB00110106ADA	DST	.011	.30	6,636 - 6,663	LDM
SB00110211ACD	DST	.19	5.3	3,970 - 3,998	LDM
SB00209207	DST	.038	1.1	4,138 - 4,166	LDM
SB00209404BD	DST	.0014	.037	7,000 - 7,027	HGM
SB00209404BD	DST	.022	1.4	7,648 - 7,714	LDM
SB00210131DB	DST	.064	1.7	3,660 - 3,687	LDM
SB00210232BA	DST	.22	1.1	3,042 - 3,047	LDM
SB00308635AC	DST	.23	5.9	3,647 - 3,672	HGM
SB00309115DAB	DST	.14	1.7	3,541 - 3,553	HGM
SB00309115DAB	DST	.19	2.2	3,541 - 3,553	LDM
SB00309304DA	DST	.0023	.053	8,155 - 8,178	LDM
SB00309427CB	DST	3.0	340	6,520 - 6,632	LDM
SB00408121DA	DST	.10	1.8	3,158 - 3,175	HGM
SB00408921	DST	.73	31	2,988 - 3,031	HGM
SB00408921AD	DST	.64	13	2,793 - 2,813	HGM
SB00408921AD	DST	.60	8.4	2,798 - 2,812	LDM
SB00409522CDC	DST	.83	26	5,668 - 5,700	LDM
SB00409831DD	DST	.18	20	4,158 - 4,271	HGM
SB00509019BCD	DST	.18	4.7	5,124 - 5,150	LDM
SB00509036AD	DST	.11	1.7	5,120 - 5,136	LDM
SB00509036AD	DST	.55	24	3,853 - 3,897	HGM
SB00509036DA	DST	.22	8.4	4,281 - 4,319	HGM
SB00509036DDB	DST	.32	12	4,265 - 4,303	LDM
SB00509318DD	DST	.054	1.1	3,114 - 3,134	HGM
SB00509415CBD	DST	.19	10	1,175 - 1,228	LDM
SB00509613CB	DST	.015	.14	4,587 - 4,596	LDM
SB00509832AB	DST	.033	.66	5,802 - 5,822	LDM
SB00609025BB	DST	.12	7.0	8,245 - 8,303	HGM
SB00609025DAA	DST	.0070	.14	8,275 - 8,295	HGM
SB00609025DAA	DST	.00010	.0092	8,323 - 8,415	LDM
SB00609236CB	DST	.25	100	7,538 - 7,638	HGM
SB01110219ABB	DST	.051	5.4	10,838 - 10,943	HGM
SC00110019DC	DST	.0087	.52	8,287 - 8,347	LDM
SC00210226DC	DST	.31	9.6	5,001 - 5,032	LDM
SC00410328DA	DST	.10	4.1	6,215 - 6,255	LDM
SC00410413ADC	DST	.00053	.12	6,422 - 6,651	LDM
Dinwoody Formation (237DNDY)					
15N-117W-15cb	DST	0.22	5.2	3,629 - 3,653	LDM
17N-119W-18daa	DST	.070	1.7	3,629 - 3,653	HGM
20N-116W-27dc	DST	.00073	.042	11,185 - 11,243	LDM
22N-114W-19bc	DST	.032	2.0	5,534 - 5,596	LDM
28N- 91W-20aac	DST	.0000041	.00014	8,002 - 8,037	LDM
29N- 95W-16aa	DST	.095	11	7,665 - 7,780	LDM
30N- 94W-17ac	DST	.00084	.050	2,510 - 2,570	LDM
30N- 94W-17ac	DST	.0025	.055	4,568 - 4,590	LDM
30N- 94W-34dc	DST	.024	.68	2,722 - 2,750	LDM
Entrada Sandstone of San Rafael Group (224ENRD)					
(D- 4-23)26cab- 2	SC	50	200	162 - 166	RP
(D- 4-23)26cab- 3	SC	.030	10	625 - 952	RP
(D- 4-23)26cab- 3	SC	.039	18	300 - 450	CF
(D-15-22)36da	DST	.0051	.26	652 - 952	LDM
(D-16-25) 2dbb- 1	DST	.11	8.8	9,179 - 9,230	LDM
(D-17-23)13aaa- 1	DST	.025	.66	8,110 - 8,191	LDM
(D-17-24) 8cd	DST	.00068	.012	5,141 - 5,167	HGM
(D-22-14)31ddb- 1	SC	.070	15	6,236 - 6,254	LDM
(D-28-11)15bdc- 1	SC	16	400	70 - 280	CF
(D-28-11)15bdc- 1	SC	17	420	265 - 290	RP
(D-28-11)16cba- 1	SC	6.0	30	265 - 290	CF
(D-28-11)16cba- 1	SC	3.8	19	402 - 407	RP
(D-28-11)16dad- 1	SC	3.0	50	402 - 407	CF
(D-28-11)16dad- 1	SC	2.8	54	327 - 346	RP
(D-28-11)21abd- 1	SC	4.0	40	327 - 346	CF
(D-28-11)28bdd- 2	SC	2.0	120	353 - 363	RP
(D-29-11) 1bbc- 1	SC	4.0	530	435 - 512	RP
(D-29-11)36caa- 1	SC	2.0	470	20 - 320	RP
(D-29-11)36caa- 1	SC	1.9	350	312 - 500	RP
(D-35- 3) 8aba- 1	SC	.026	1.3	312 - 500	CF
(D-35- 3)29bbd- 1	SC	.0017	.32	60 - 112	WT
(D-35-11)16cdd- 1	SC	1.3	410	100 - 291	CF
(D-40-25) 6dac- 1	SC	19	390	135 - 460	CF
(D-40-25)15bcc- 1	SC	3.8	76	1,000 - 1,020	CF
(D-40-25)15bcc- 1	SC			1,010 - 1,030	CF

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared per day)	Test interval (feet below land surface)	Remarks
Entrada Sandstone of San Rafael Group (224ENRD)—Continued					
08 038-04.43x15.39	AQ	0.11	47	1,050 - 1,200	RP
12N- 92W-10cc	DST	.015	2.0	14,140 - 14,273	LDM
13N- 99W-19	DST	.0018	.068	14,624 - 14,662	HGM
16N-104W-16ddb	DST	.24	1.4	3,340 - 3,346	LDM
19N-103W-30cca	DST	.49	39	4,107 - 4,188	HGM
20N-104W-23ddb	DST	.0063	.11	4,268 - 4,286	HGM
NB03801601CCA	SC	.014	--	--	Median of 22 tests, from 7 test holes, range of hydraulic conductivity is 0.0 - 0.57 feet per day.
NB03901731BCD	SC	.19	19	800 - 900	CF
SB00408916C6C	DST	.82	9.0	3,549 - 3,560	LDM
	DST	.016	.14	3,548 - 3,557	LDM
SB00409213BDC	DST	.071	.71	4,205 - 4,215	HGM
SB00409216DBB	DST	.011	.17	4,110 - 4,125	HGM
	DST	.034	.52	4,110 - 4,125	LDM
SB00409223AB	DST	.42	25	3,541 - 3,600	LDM
SB00409808B	DST	1.3	42	6,340 - 6,373	HGM
SB00509613CD	DST	.16	4.3	5,258 - 5,285	LDM
SB00509614AA	DST	.0043	.077	6,740 - 6,758	LDM
SB00510220CB	DST	.0014	.041	7,460 - 7,490	LDM
SB00708713A	DST	1.6	120	4,690 - 4,766	HGM
	DST	.18	13	4,690 - 4,766	LDM
SB00709316DD	DST	.0088	.16	9,662 - 9,680	HGM
SC00210412AC	DST	.057	3.4	7,853 - 7,913	HGM
SC00410207DC	DST	.0036	.14	7,950 - 7,990	HGM
SC00810433DB	DST	.094	1.3	3,019 - 3,033	HGM
SC00910212BC	DST	.0070	.14	3,081 - 3,101	HGM
SC00910304AB	DST	.043	.47	2,883 - 2,894	HGM
UB00100129DCD	AQ	.049	4.0	1,555 - 1,637	SLS, drawdown data, S = 0.00007
UC00100117BBD	SC	.20	20	970 - 1,073	CF
UC00100121AAD	AQ	.80	32	825 - 865	SLS, drawdown data, S = 0.000005
	AQ	.77	31	825 - 865	SLS, recovery data
UC00100122CBC	AQ	.19	20	680 - 869	SLS, drawdown or recovery data, S = 0.00005
UC00100126ABC	AQ	.24	16	803 - 870	SLS, drawdown data, S = 0.00008
	AQ	.25	17	803 - 870	SLS, recovery data
UC00100129BCB	AQ	.78	66	490 - 575	SLS, drawdown data, S = 0.00006
	AQ	.51	43	490 - 575	SLS, recovery data
UD00100118BBA	AQ	.22	16	1,540 - 1,613	SLS, drawdown data
	AQ	.21	15	1,540 - 1,613	SLS, recovery data
Ericson Sandstone of Mesaverde Group (211ERCS)					
12N-103W-11aab	DST	0.091	3.3	7,029 - 7,065	LDM
13N- 99W-18bc	DST	.057	4.1	5,508 - 5,581	HGM
13N- 99W-18bcd	DST	.055	4.7	5,619 - 5,704	LDM
14N-100W-35cb	DST	.019	3.6	5,996 - 6,186	HGM
14N-102W-28ba	DST	.14	6.2	3,198 - 3,243	LDM
14N-105W- 7abd	DST	.084	2.4	4,892 - 4,920	LDM
16N- 93W-11aa	DST	.0086	.88	8,865 - 8,967	LDM
16N-101W- 2ba	DST	.013	.87	3,435 - 3,503	LDM
18N-113W-11ca	DST	.0090	.75	7,707 - 7,790	HGM
19N- 97W- 9ab	DST	.0038	.14	7,369 - 7,405	HGM
19N- 98W- 9acc	DST	.013	.22	5,991 - 6,008	LDM
19N- 98W-28bb	DST	.0034	.051	6,129 - 6,144	LDM
	DST	.00011	.0016	6,129 - 6,144	HGM
19N-100W-14ad	DST	1.1	14	2,436 - 2,448	LDM
19N-113W-25ab	DST	.046	3.1	7,483 - 7,551	LDM
	DST	.087	5.9	7,483 - 7,551	HGM
20N- 97W-22dd	DST	.024	.95	8,618 - 8,658	LDM
	DST	.016	1.6	8,698 - 8,794	LDM
21N- 98W-26d	DST	.0080	.46	6,201 - 6,259	HGM
21N- 99W-22d	DST	.35	4.6	4,675 - 4,688	LDM
21N-101W- 4a	DST	.54	9.7	1,984 - 2,002	HGM
22N- 92W-32cc	DST	.42	71	12,160 - 12,330	HGM
22N- 98W- 3bb	DST	.0044	.067	7,926 - 7,941	LDM
23N-101W-30cc	DST	.062	1.1	2,852 - 2,869	HGM
24N-109W-20cb	DST	.039	2.2	6,996 - 7,052	LDM
Ferron Sandstone Member of Mancos Shale (211FRRN)					
(D-14- 9)28ad	DST	0.030	5.0	2,671 - 2,836	LDM
	DST	.070	1.5	2,835 - 2,856	LDM
(D-20- 4)20ab	DST	.000077	.0072	8,670 - 8,764	LDM
	DST	.00056	.033	8,830 - 8,890	LDM
(D-22- 6)17abc- 1	SC	2.1	370	1,368 - 1,543	CF
(D-22- 6)31dba- 1	SC	89	3,700	360 - 402	CF
(D-22- 6)33bdc- 1	SC	5.0	700	180 - 330	RP
	SC	20	990	180 - 200	CF
				290 - 320	
Fox Hills Sandstone (211FXHL)					
14N-101W- 1ba	DST	0.073	5.0	3,500 - 3,568	LDM
14N-101W-11dc	DST	.31	18	3,180 - 3,240	HGM
	DST	.15	8.7	3,180 - 3,240	LDM
19N- 97W- 8ab	DST	.021	2.6	5,049 - 5,169	LDM
19N- 99W-12c	SC	.10	22	3,201 - 3,539	RP
	SC	.58	29	2,276 - 2,288	CF
				2,304 - 2,330	
				2,390 - 2,402	
20N- 98W-28a	DST	.19	18	4,027 - 4,120	LDM
22N- 92W-32cc	DST	.0012	.071	10,675 - 10,734	LDM
SB00809014CBB	DST	.061	3.0	2,120 - 2,170	LDM
SB00809016BB	DST	.48	29	2,887 - 2,948	HGM
	DST	1.0	63	2,887 - 2,948	LDM
SB00809034AA	DST	.015	.31	2,298 - 2,318	HGM

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared per day)	Test interval (feet below land surface)	Remarks
Fox Hills Sandstone (211FXHL)—Continued					
SB00909613DA	DST	0.019	0.84	8,907 - 8,952	LDM
SB01009415BCD	DST	.0059	.33	7,215 - 7,271	LDM
SB01009422AA	DST	.0014	.059	7,008 - 7,050	HGM
SB01209524AA	DST	.0033	.40	6,760 - 6,883	LDM
Frontier Sandstone Member of Mancos Shale (211FRNR)					
(A- 3-25)29bc	DST	0.00013	0.011	6,826 - 6,916	LDM
	DST	.00018	.012	6,931 - 6,998	LDM
14N-112W-16cc	DST	.000011	.00052	13,170 - 13,217	LDM
14N-118W- 7cd	SC	.050	7.5	473 - 623	CF
15N-103W- 7	DST	.0023	.25	3,401 - 3,510	HGM
15N-104W- 7ad	DST	.26	6.0	3,250 - 3,273	HGM
15N-113W-14bd	DST	.0025	.094	12,647 - 12,685	LDM
16N-103W-16bb	DST	.00087	.034	3,810 - 3,849	LDM
17N-102W- 1dca	DST	.036	1.4	6,420 - 6,460	LDM
18N-101W-28bc	DST	.040	.97	6,843 - 6,867	LDM
19N- 90W-26cca	DST	.00026	.018	7,620 - 7,689	LDM
19N- 90W-36bc	DST	.0016	.090	7,840 - 7,896	LDM
19N-104W-13cbd	DST	.014	.33	2,456 - 2,480	LDM
20N-104W-23ddb	DST	.053	1.5	2,909 - 2,937	HGM
20N-104W-24bc	DST	.0093	.78	3,007 - 3,091	HGM
20N-104W-24cab	DST	.018	1.0	2,890 - 2,948	LDM
22N- 86W-26ac	DST	.0045	.38	2,220 - 2,290	LDM
22N-103W-16bbd	DST	.010	.73	7,210 - 7,282	LDM
22N-103W-20bd	DST	.0053	.27	6,482 - 6,532	LDM
22N-112W-34bb	DST	.00078	.096	11,067 - 11,190	LDM
24N- 87W- 6ab	DST	.077	2.3	2,512 - 2,542	HGM
24N- 87W- 7aa	DST	.067	3.3	1,844 - 1,894	HGM
27N- 95W-27ac	DST	.0085	.95	4,398 - 4,510	HGM
27N-114W- 4bd	DST	.000027	.0023	7,311 - 7,395	HGM
27N-114W- 4da	DST	.031	1.2	7,016 - 7,054	HGM
27N-114W- 5	DST	.058	6.4	7,974 - 8,084	LDM
	DST	.046	5.2	7,976 - 8,090	HGM
27N-114W-11d	DST	.0091	.77	6,065 - 6,150	LDM
	DST	.010	.86	6,065 - 6,150	HGM
27N-114W-12da	DST	.22	41	5,360 - 5,550	HGM
28N- 92W- 6ca	DST	.053	1.4	3,317 - 3,344	LDM
28N- 92W-19add	DST	.00063	.091	4,310 - 4,455	LDM
28N- 95W- 7db	DST	.0030	.092	3,680 - 3,711	LDM
28N- 96W-13cd	DST	.24	1.9	688 - 696	LDM
28N-114W-33db	DST	.0017	.22	6,483 - 6,612	LDM
	DST	.00099	.13	6,483 - 6,612	HGM
28N-115W-14dc	DST	.0012	.11	7,180 - 7,276	LDM
29N-113W-32cad	DST	.00049	.026	7,620 - 7,672	HGM
	DST	.00072	.037	7,620 - 7,672	LDM
SB00109334CAB	SC	3.9	200	30 - 80	CF
SB00409216DEB	DST	.11	4.4	3,070 - 3,110	HGM
	DST	.029	.17	3,052 - 3,058	LDM
SB00409236AB	DST	.13	2.1	3,076 - 3,092	LDM
	DST	.0039	.098	3,106 - 3,131	LDM
SB00808627	DST	.050	5.6	1,599 - 1,729	LDM
U(C- 1- 8)12cdb- 1	SC	50	800	61 - 78	RP
Gartra Member of Chinle Formation (231GRTR)					
(D- 3-20)23acc- 1	SC	6.7	33	220 - 225	CF
(D- 3-20)23bda- 1	SC	6.4	320	90 - 140	CF
Glen Canyon Sandstone (227GLNC)					
(D- 3-19)13bab- 1	SC	0.050	10	16 - 200	RP, maxium values
(D- 3-19)21aba- 1	SC	5.0	2,000	40 - 415	RP, formation possibly fractured
(D- 3-19)23bbb- 1	SC	1.0	270	24 - 226	RP
(D- 3-20)25abc- 2	SC	15	420	4 - 33	WT
(D- 3-20)25abc- 5	SC	2.1	57	5 - 31	WT
(D- 3-21)20cdd- 1	SC	72	210	147 - 150	CF
(D- 3-21)32cbbL 1	SC	.90	100	24 - 135	RP
(D- 3-21)34aad- 1	SC	.20	30	80 - 250	RP
(D- 3-21)34aad- 1	SC	.80	32	80 - 100	CF
				228 - 248	
(D- 4-20) 1dca- 1	SC	2.3	1,500	100 - 740	RP
Hilliard Shale (211HLRD)					
19N-112W- 5dca	DST	0.00013	0.025	11,215 - 11,410	LDM
26N-112W- 4dd	DST	.076	4.1	3,747 - 3,801	HGM
Iles Formation of Mesaverde Group (211ILES)					
SB00509024BCC	SC	18	910	100 - 150	CF
Junction Creek Sandstone of San Rafael Group (224JCCK)					
NB03801601CCA	SL	0.72	—	—	Median of 227 tests, from 20 test holes, range of hydraulic conductivity is 0.0 - 7.8 feet per day.
Kayenta Formation of Glen Canyon Group (231KYNT)					
(D-26-22)17aaa- 1	SC	34	4700	20 - 160	CF

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared per day)	Test interval (feet below land surface)	Remarks
Lakota Formation of Inyan Kara Group (217LKOT)					
(D-17-24) 7bb	DST	0.017	1.5	4,826 - 4,917	LDM
15N-103W- 8ac	DST	.024	.92	4,382 - 4,420	LDM
15N-103W- 8cb	DST	.0039	.17	4,056 - 4,100	LDM
19N-102W-28ddb	DST	1.3	25	4,820 - 4,840	LDM
19N-102W-29cd	DST	.11	5.0	4,285 - 4,330	LDM
	DST	.0024	.093	4,361 - 4,400	LDM
23N- 88W- 6cdb	DST	.028	.51	1,920 - 1,938	LDM
27N-113W- 1ad	DST	.0013	.043	2,981 - 3,015	LDM
Lance Formation (211LNCE)					
12N- 91W-18cc	DST	0.031	0.86	3,188 - 3,216	LDM
12N- 92W-16bb	DST	.075	2.6	3,554 - 3,589	LDM
12N- 93W- 3cb	DST	.059	1.8	4,725 - 4,756	LDM
	DST	.019	.60	4,725 - 4,756	HGM
12N- 93W-13ad	DST	.012	.57	3,801 - 3,850	LDM
12N- 94W-11ac	DST	.0013	.038	6,515 - 6,545	LDM
12N- 96W-24bb	DST	.032	.42	7,364 - 7,377	LDM
12N- 97W- 8	DST	.0038	.087	8,794 - 8,817	HGM
13N- 99W-18bcd	DST	.090	12	3,730 - 3,862	HGM
	DST	.081	11	3,730 - 3,862	LDM
13N-100W- 1ac	DST	.052	7.4	3,753 - 3,897	HGM
13N-100W-21bd	DST	.17	29	4,280 - 4,450	HGM
14N-101W-11dc	DST	.0031	.12	2,930 - 2,969	LDM
16N- 92W-17acd	DST	.0074	.33	4,199 - 4,244	LDM
16N- 93W-22ab	DST	.0014	.012	6,183 - 6,191	HGM
16N- 98W- 1cbd	DST	.020	.64	9,886 - 9,918	LDM
18N- 99W-28bc	DST	.016	.18	3,194 - 3,205	LDM
	DST	.00080	.012	3,198 - 3,213	HGM
19N- 92W-32dac	DST	.010	.51	6,184 - 6,233	HGM
19N- 98W-21ab	DST	.057	1.5	3,931 - 3,957	LDM
19N- 99W-22a	DST	.024	1.7	2,422 - 2,492	LDM
24N-101W-31bd	DST	.0064	.24	3,643 - 3,680	HGM
27N- 91W-34cc	DST	.026	.69	5,030 - 5,057	LDM
	DST	.019	.53	5,030 - 5,057	HGM
27N- 93W-34bb	DST	.018	.92	4,038 - 4,088	LDM
30N-108W- 5bd	DST	.00012	.011	10,978 - 11,070	LDM
SB00709004AB	DST	.19	18	2,790 - 2,885	LDM
SB00809016BB	DST	.24	9.4	1,945 - 1,985	HGM
SB01009112BB	DST	.032	.80	3,825 - 3,850	HGM
SB01009318BB	DST	.016	1.3	7,085 - 7,166	HGM
SB01009416AA	DST	.012	.44	7,232 - 7,267	LDM
SB01009422AA	DST	.0083	.35	7,015 - 7,057	LDM
SB01109031BB	DST	.56	48	3,680 - 3,765	HGM
SB01109110AD	DST	.085	2.8	3,642 - 3,675	HGM
SB01109616AC	DST	.0023	0.18	8,404 - 8,484	LDM
SB01110002AC	DST	.21	8.7	5,240 - 5,282	LDM
SB01209118AB	DST	.026	3.6	3,129 - 3,265	LDM
	DST	.11	15	3,129 - 3,265	HGM
	DST	.29	32	3,555 - 3,664	HGM
SB01209133ADD	DST	.0057	.20	3,261 - 3,297	LDM
SB01209213	DST	.051	1.8	3,553 - 3,589	HGM
SB01209422CAA	DST	.0074	.36	5,692 - 5,740	LDM
SB01209826DCC	DST	.78	7.8	3,514 - 3,524	LDM
Lewis Shale (211LWIS)					
12N- 91W-17cb	DST	0.0012	0.055	3,626 - 3,670	LDM
13N- 91W-31dc	DST	.0063	.13	5,089 - 5,109	LDM
13N- 99W-18add	DST	.00060	.051	4,390 - 4,475	LDM
14N-100W- 9bb	DST	.0031	.53	4,616 - 4,787	LDM
	DST	.013	.35	5,816 - 5,844	HGM
18N- 91W-28cd	DST	.00056	.078	5,010 - 5,148	LDM
18N- 99W-22dd	DST	.00014	.0069	4,789 - 4,839	LDM
20N- 99W-11cca	DST	.0096	1.1	3,645 - 3,760	LDM
21N- 93W-22c	DST	.0083	.44	9,632 - 9,685	LDM
23N- 99W-22a	DST	.000085	.0017	6,637 - 6,657	LDM
24N-104W-24dc	DST	.14	4.4	1,192 - 1,224	HGM
25N- 96W-21c	DST	.00053	.017	11,360 - 11,392	LDM
NE04701701ABD	SC	5.4	510	106 - 200	WT
SB00609104ADD	SC	.068	4.1	200 - 220	CF
				280 - 320	
SB00809010DDO	DST	.0099	.46	2,483 - 2,530	LDM
SB00809016BB	DST	.0054	.22	8,908 - 8,948	LDM
SB00809116BB	DST	.036	.85	4,472 - 4,496	LDM
	DST	.0038	.092	4,472 - 4,496	HGM
	DST	.0050	.30	4,699 - 4,759	LDM
	DST	.017	1.0	4,699 - 4,759	HGM
SB00909123ADB	DST	.0030	.14	3,973 - 4,020	LDM
SB00909621CA	DST	.035	1.4	8,908 - 8,948	HGM
SB01109031BB	DST	.13	11	3,680 - 3,765	LDM
	DST	.56	47	3,680 - 3,765	HGM
SB01209826DCC	DST	.096	1.3	3,690 - 3,704	LDM
Lukachukai Member of Wingate Sandstone (231LKCK)					
09 035-09.58x01.52	SC	0.045	6.4	508 - 853	WT
09 036-10.89x12.14	SC	.027	3.8	500 - 641	CF
10 054-01.35x13.20	SC	.16	32	465 - 670	CF

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared) per day)	Test interval (feet below land surface)	Remarks
Mancos Shale (211MNS)					
(D- 4-21) 2bad- 1	SC	22	470	21 - 42	WT
(D-24-18) 25dba- 1	SC	.69	34	555 - 604	WT
13N- 88W-36ca	DST	.41	19	1,392 - 1,439	HGM
	DST	.0044	.18	2,043 - 2,083	HGM
16N- 92W-13ac	DST	.012	.53	3,939 - 3,984	HGM
NB03301707UDD	SC	71	920	32 - 45	CF
NB03801534DDB	SC	.41	20	200 - 250	WT
NB03801635BDB	SL	.96	—	—	Median of 5/ tests, from 15 test holes, range of hydraulic conductivity is 0.0 - 220 feet per day.
NB04301735BDB	SC	.15	34	20 - 250	CF
NB04500911DCB	SC	.083	8.7	105 - 210	CF
NB04800921ACC	SC	36	430	128 - 140	CF
SB00109228BAC	SC	15	300	80 - 100	CF
SB00109228BCA	SC	.35	7.0	60 - 80	CF
SB00309730AB	DST	.31	4.3	3,686 - 3,700	LDM
SB00409720CC	DST	.055	3.2	4,702 - 4,760	HGM
SB00508811CD	DST	.00077	.015	1,550 - 1,569	HGM
SB00608509DD	SC	1.3	52	55 - 95	CF
SB00609025BB	DST	.013	.21	3,247 - 3,264	HGM
SB00609025BD	DST	.00063	.021	3,978 - 4,012	HGM
SB00609210BBD	DST	.0029	.26	3,487 - 3,576	LDM
SB00708525BDD	SC	.030	5.3	100 - 275	WT
SB00708526DBB	SC	2.1	41	120 - 148	WT
SB00709017DB	DST	.00024	.029	10,136 - 10,256	LDM
SB00908527BBC	SC	350	12,000	26 - 60	CF
SB01008726DD	DST	.012	.67	3,568 - 3,626	HGM
SC00110210DB	DST	.0068	.50	1,245 - 1,318	LDM
SC00310207AAB	DST	.012	1.5	2,820 - 2,941	LDM
SC00908508ACC	SC	.63	25	55 - 95	CF
SC00908520ADD	SC	.81	34	153 - 195	CF
SC00908520DA	SC	1.2	41	230 - 264	WT
SC00908521CBB	SC	.0044	1.7	20 - 415	WT
SC00908528AAC	SC	23	620	100 - 127	CF
SC00908528BA	SC	3.1	79	150 - 175	CF
SC00908528BD	SC	3.7	110	80 - 110	WT
SC00908531ACC	SC	1.2	58	192 - 241	CF
SC00908628ACD	SC	29	590	78 - 98	CF
SC01008503DC	SC	1.6	66	330 - 370	CF
SC01409217DAA	SC	1.2	30	70 - 95	CF
SC01508628DCD	SC	.099	5.8	81 - 100	WT
				160 - 200	
UD00200123ADA	SC	36	250	26 - 33	CF
UD00300114AAA	SC	4.1	70	497 - 514	CF
UD00300204BCA	SC	230	6,800	476 - 506	CF
Menefee Formation of Mesaverde Group (211MENF)					
NB03501034DCC	SC	0.061	6.6	150 - 259	CF
NB03501114CAD	SC	79	2,500	45.6 - 77	WT
Mesaverde Group (211MWRD)					
(D- 9-24) 24bb	DST	0.0062	0.13	6,018 - 6,039	LDM
(D-10-24) 32ca	DST	.0019	.14	5,230 - 5,303	LDM
(D-11-23) 16ac	DST	.0026	.054	5,494 - 5,515	LDM
(D-11-23) 30ic	DST	.012	.26	4,969 - 4,991	LDM
	DST	.013	.21	5,115 - 5,131	LDM
(D-12-25) 18cb	DST	.072	1.9	2,951 - 2,977	HGM
	DST	.054	1.5	2,949 - 2,977	LDM
	DST	.00027	.0083	3,746 - 3,777	LDM
(D-14-19) 15bb	DST	.015	.77	5,344 - 5,394	LDM
(D-15-21) 22dc	DST	.043	.99	5,518 - 5,541	LDM
(D-15-23) 28	DST	.0019	.097	3,541 - 3,591	HGM
12N- 90W-18bc	DST	.080	6.2	5,980 - 6,057	LDM
12N- 91W-17cb	DST	.062	2.0	6,370 - 6,403	LDM
12N-103W-10aa	DST	.13	2.0	6,578 - 6,594	HGM
12N-103W-10ca	DST	.69	38	6,670 - 6,725	HGM
12N-103W-10dad	DST	.035	2.6	6,440 - 6,514	LDM
12N-103W-11aa	DST	.057	2.0	7,029 - 7,065	HGM
12N-103W-11bc	DST	.034	1.7	6,586 - 6,636	HGM
	DST	.053	1.6	6,635 - 6,665	HGM
13N- 89W-19dda	SC	1.7	230	60 - 200	RP
	SC	3.6	310	65 - 150	WT
13N- 90W-19a	DST	.17	4.8	5,616 - 5,645	HGM
13N- 99W-18add	DST	.0042	.60	7,343 - 7,486	LDM
	DST	.032	4.5	7,343 - 7,486	HGM
	DST	.021	3.1	7,343 - 7,486	HGM
13N- 99W-18bcd	DST	.066	3.5	5,023 - 5,075	LDM
	DST	.024	2.5	5,098 - 5,205	LDM
13N-104W-15cc	DST	.084	1.3	3,259 - 3,274	HGM
13N-106W-27ad	DST	.23	1.6	7,818 - 7,825	HGM
14N- 91W-11dd	DST	.016	.81	3,902 - 3,952	LDM
14N-102W-28ba	DST	.00018	.038	2,006 - 2,218	LDM
	DST	.030	1.6	2,352 - 2,406	LDM
15N- 89W-31ac	DST	.66	180	1,592 - 1,858	HGM
15N- 91W-14db	DST	.010	.28	1,804 - 1,831	HGM
	DST	.093	2.5	1,804 - 1,831	LDM
16N- 90W- 9da	DST	.12	1.7	2,326 - 2,340	HGM
	DST	.047	2.8	2,328 - 2,386	HGM
	DST	.21	2.6	2,498 - 2,510	HGM
16N- 91W-17	DST	2.5	32	3,354 - 3,367	HGM
16N- 91W-22bb	DST	.30	13	2,893 - 2,935	HGM
16N- 92W-11ca	DST	.47	15	2,390 - 2,423	HGM
16N- 92W-12db	DST	.052	.68	2,025 - 2,038	LDM
	DST	.059	.76	2,026 - 2,039	HGM

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared) per day)	Test interval (feet below land surface)	Remarks
Mesaverde Group (211MRD)—Continued					
16N- 93W-13c	DST	0.00081	0.049	9,456 - 9,516	LDM
	DST	.0034	.26	10,407 - 10,484	LDM
16N-106W-12dc	DST	.0052	.31	4,295 - 4,355	LDM
	DST	.0052	.37	5,229 - 5,300	LDM
16N-113W-21bbc	DST	.0031	.40	7,984 - 8,112	LDM
17N- 90W-3odd	DST	.049	2.8	2,732 - 2,788	LDM
	DST	.19	.11	2,732 - 2,788	HGM
18N- 90W-15adb	SL	23	230	152 - 162	RP, S = 0.007
18N- 90W-21ddd01	SL	.098	1.0	169 - 190	RP, S = 0.000007
18N- 90W-21ddd02	SL	.099	1.0	219 - 234	RP, S = 0.000002
	SL	1.3	19	219 - 234	RP, S = 0.0003
18N- 91W-28cd	DST	.0035	.052	7,366 - 7,381	LDM
18N-110W-26ca	DST	.0066	.30	9,080 - 9,126	LDM
	DST	.0096	.44	9,080 - 9,126	HGM
	DST	.0018	.10	10,385 - 10,442	LDM
18N-110W-27ca	DST	.011	.86	8,982 - 9,060	HGM
19N- 89W-31cbb02	SL	.0070	1.0	225 - 235	RP, S = 0.000002
19N- 92W-20d	DST	.025	.70	9,580 - 9,608	LDM
	DST	.069	8.2	9,605 - 9,725	LDM
	DST	.040	.52	9,754 - 9,767	LDM
	DST	.000093	.011	9,921 - 1,0036	LDM
19N- 92W-26dba	DST	.0018	.17	8,535 - 8,627	LDM
19N-105W-10ab	SC	23	460	1,290 - 1,310	RP
	SC	27	530	1,290 - 1,310	CF
19N-105W-10ac	SC	11	170	1,615 - 1,699	RP
	SC	2.6	240	1,609 - 1,699	CF
20N- 89W-20db	DST	.011	.30	4,344 - 4,372	HGM
21N- 98W-35dac	DST	.021	.31	6,100 - 6,115	HGM
21N- 98W-36c	DST	.0018	.11	5,959 - 6,018	HGM
23N- 85W-22aa	DST	2.6	46	4,736 - 4,754	LDM
25N-111W- 3bb	DST	.036	1.7	4,483 - 4,530	LDM
26N-112W-23cb	DST	.016	.41	3,226 - 3,252	LDM
26N-113W- 9cb	DST	.056	1.8	2,385 - 2,417	LDM
27N- 93W-35cab	DST	.040	2.9	4,257 - 4,330	LDM
	DST	.0012	.056	5,036 - 5,085	LDM
27N-110W-30ac	DST	.0050	.31	6,202 - 6,264	HGM
27N-111W- 7ac	DST	.00095	.054	4,512 - 4,569	LDM
	DST	.0010	.059	4,512 - 4,569	HGM
27N-111W-20ca	DST	.0051	.091	4,712 - 4,730	LDM
	DST	.00066	.012	4,712 - 4,730	HGM
28N-111W-27aa	DST	.0015	.11	5,883 - 5,953	LDM
28N-112W-17da	DST	.0023	.21	3,602 - 3,697	LDM
28N-113W- 3aa	DST	.0033	.066	3,029 - 3,049	HGM
	DST	.0062	.12	3,029 - 3,049	LDM
28N-113W- 5ccc	DST	.0025	.099	2,931 - 2,971	HGM
28N-113W-20da	DST	.021	.67	1,253 - 1,285	LDM
28N-113W-25cd	DST	.0092	.29	3,210 - 3,242	LDM
28N-113W-28ba	DST	.000683	.0032	1,330 - 1,368	LDM
	DST	.0012	.047	1,330 - 1,368	HGM
28N-113W-32da	DST	.0054	.34	1,265 - 1,329	LDM
29N-113W-14dc	DST	.0045	.48	3,093 - 3,200	LDM
29N-113W-25cb	DST	.0041	.16	3,502 - 3,542	HGM
29N-113W-26dda	DST	.0085	.42	3,510 - 3,560	HGM
29N-113W-34aa	DST	.0027	.30	3,099 - 3,210	HGM
30N-114W-19	DST	.0069	.14	3,208 - 3,228	HGM
31N-112W-19cd	DST	.0067	.15	6,624 - 6,647	LDM
	DST	.0033	.076	6,624 - 6,647	HGM
31N-113W-30bc	DST	.00036	.037	4,963 - 5,066	LDM
32N-114W-18da	DST	.0085	.49	4,137 - 4,195	LDM
32N-114W-29bb	DST	.0065	.68	3,695 - 3,800	LDM
33N-114W- 9abc	DST	.00040	.070	6,275 - 6,450	LDM
35N-115W-24cd	DST	.00083	.071	10,322 - 10,407	LDM
SB00609108AA	DST	.020	2.9	2,230 - 2,378	LDM
SB00609210DA	DST	.050	2.4	1,351 - 1,400	HGM
SB00709203CD	DST	.021	1.1	3,144 - 3,194	HGM
SB00709225BB	DST	.0012	.12	2,798 - 2,900	LDM
	DST	.00041	.031	3,675 - 3,750	LDM
SB00709315DC	DST	.28	2.8	1,208 - 1,218	HGM
SB00709316DD	DST	.0041	.16	840 - 880	HGM
	DST	.16	1.1	1,883 - 1,890	HGM
	DST	.0051	.30	1,890 - 1,949	LDM
	DST	.015	.76	3,144 - 3,194	LDM
SB00709525	DST	.00019	.0015	7,328 - 7,336	LDM
	DST	.00068	.0041	7,614 - 7,620	LDM
SB00808731CD	DST	.015	0.90	3,500 - 3,560	HGM
SB00809326DB	DST	.50	6.1	3,812 - 3,824	HGM
SB00809529AA	DST	.0014	.064	6,057 - 6,104	HGM
SB01009902BA	DST	.0052	.27	10,830 - 10,880	LDM
	DST	.0081	.72	11,152 - 11,241	LDM
	DST	.00071	.063	11,152 - 11,241	HGM
SB01109031BB	DST	.0036	.069	6,518 - 6,537	LDM
	DST	.00055	.010	6,518 - 6,537	HGM
SB01109103DB	DST	.015	.68	8,182 - 8,229	HGM
SB01109915CA	DST	.00082	.089	8,833 - 8,941	LDM
SB01110109ACD	DST	.053	1.9	5,955 - 5,990	HGM
SB01209427BA	DST	.00059	.018	8,376 - 8,406	LDM
SC00209713AC	DST	.015	.51	9,426 - 9,460	LDM
SC00309926AB	DST	.0014	.15	4,825 - 4,936	LDM
SC00309928AB	DST	.013	.58	5,069 - 5,115	LDM
	DST	.0040	.14	6,342 - 6,377	LDM
SC00809136ADB	DST	.054	.75	3,292 - 3,306	HGM
SC00809934BA	DST	.00022	.0037	3,746 - 3,763	LDM
SC01009620BDD	SC	3.6	92	285 - 310	CF
SC01209536CAA	SC	1.3	52	163 - 203	CF
SC01309406BAC	SC	1.5	27	98 - 116	CF

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared per day)	Test interval (feet below land surface)	Remarks
Mesaverde Group (211MVRD)—Continued					
SC01309501ACA	SC	0.64	40	58 - 116 136 - 141	CF
SC01309501BCC	SC	3.9	140	90 - 125	CF
SC01309501CBB	SC	1.3	44	96 - 130	CF
SC01309506BCD	SC	14	250	106 - 121	CF
SC01309511ACC	SC	12	290	121 - 145	CF
SC01309511CAD	SC	18	350	98 - 118	CF
SC01309511CBA	SC	2.6	68	111 - 137	CF
SC01309512CAA	SC	30	450	40 - 55	CF
SC01309517AAD	SC	.070	11	220 - 378	CF
U(C- 1- 8)13acc- 1	SC	50	200	176 - 184	RP
U(C- 2-10) 6daa- 1	SC	9.5	38	138 - 142	CF
Moenkopi Formation (234MKNP)					
(A-40- 7)13acc	SC	110	3,400	50 - 80	CF
(D- 2-23) 9bad- 1	SC	.30	10	80 - 115	RP, maxium values
(D-14- 7)17bb	DST	.0010	.28	13,335 - 13,612	LDM
	DST	.053	1.3	13,904 - 13,928	LDM
(D-23-10)12ddd- 1	SC	4.0	84	193 - 214	CF
(D-29- 5) 34ddb- 1	SC	1.2	30	25 - 50	CF
(D-29-13) 1aa	DST	.000010	.0027	1,720 - 1,975	LDM
	DST	.000017	.0043	1,720 - 1,975	LDM
(D-31- 9)22aca- 1	DST	.0022	.098	6,075 - 6,120	LDM
(D-38- 3) 8ad	DST	.0032	.055	7,135 - 7,152	LDM
Morrison Formation (221MRSN)					
(A- 3-24)23bb	DST	0.025	0.45	6,264 - 6,282	LDM
(D- 3-19)21dca- 1	SC	.20	50	80 - 305	RP
(D- 4-21) 3bbd- 1	SC	2.0	50	22 - 50	RP
	SC	2.7	75	22 - 50	CF
(D- 4-24)32ccd- 1	SC	4.0	80	74 - 80	RP
	SC	10	200	61 - 81	CF
(D-19-23)26cc	DST	.038	2.3	2,535 - 2,595	HGM
08 038-04.67x15.43	SC	.22	26	125 - 135	CF
				636 - 745	
09 019-05.95x06.80	SC	.055	8.7	423 - 546	WT
				565 - 600	
17N-103W-33ab	DST	.083	5.9	4,226 - 4,297	HGM
19N-102W-29cc	DST	.0028	.092	4,367 - 4,400	HGM
19N-103W- 2acd	DST	.00038	.012	4,021 - 4,051	LDM
19N-104W-14dda	DST	.059	1.2	3,193 - 3,213	LDM
27N- 95W-18ddd	DST	.087	4.8	1,435 - 1,490	LDM
NE03701516ABB	SC	.81	37	20 - 65	WT
NE04700923AAA	SC	.024	2.4	215 - 315	WT
NE04700924BBB	SC	1.9	39	269 - 290	CF
SB00110214	DST	.010	.28	5,992 - 6,020	HGM
SB00309433AB	DST	.51	7.6	6,800 - 6,815	LDM
SB00310436ABC	DST	.36	10	5,230 - 5,258	LDM
SB00310436AC	DST	.079	5.1	5,006 - 5,011	HGM
SB00310436AD	DST	.11	8.0	5,150 - 5,220	HGM
SB00409223AB	DST	.98	40	3,243 - 3,284	LDM
SB00409831DDC	DST	.0038	.58	4,619 - 4,769	LDM
SB00509118BD	DST	.00077	.042	6,540 - 6,595	LDM
SB00509128BC	DST	.11	2.4	5,252 - 5,274	LDM
	DST	.15	3.2	5,252 - 5,274	HGM
SB00509415CBD	DST	.21	13	1,585 - 1,645	LDM
SB00510220CB	DST	.00051	.038	6,955 - 7,030	LDM
SB00709316DD	DST	.010	.21	9,220 - 9,240	HGM
SC00110214DC	DST	.028	.78	5,992 - 6,020	LDM
UC00100121ADA	SC	.016	1.6	471 - 573	CF
	AQ	.012	1.2	471 - 573	SLS, drawdown data, S = 0.00003
	AQ	.062	6.3	471 - 573	SLS, recovery data
Mowry Member of Mancos Shale (217MWRV)					
17N-103W-13bdb	DST	0.044	0.53	4,156 - 4,168	LDM
19N- 87W-29da	DST	.010	1.0	3,100 - 3,200	LDM
19N-102W-19a	DST	.0062	.13	4,225 - 4,246	LDM
Muddy Sandstone Member of Thermopolis Shale (217MDDY)					
20N- 78W-26db	DST	0.0040	0.17	5,792 - 5,834	LDM
21N- 85W-29bc	DST	.00038	.010	1,858 - 1,885	LDM
25N- 89W-14dc	DST	.033	2.4	2,826 - 2,900	LDM
26N- 90W-11ac	DST	.0069	.29	3,620 - 3,663	HGM
26N- 90W-14cbb	DST	.020	.34	4,879 - 4,896	HGM
27N- 95W- 5cb	DST	.013	.60	1,005 - 1,050	LDM
27N- 95W- 8dc	DST	.0075	.35	1,582 - 1,629	LDM
27N- 95W- 8dcd	DST	.023	1.3	1,235 - 1,292	LDM
28N- 93W- 7acc	DST	.0011	.14	5,307 - 5,432	LDM
SB00408109CDD	DST	.23	10	3,607 - 3,650	LDM

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared per day)	Test interval (feet below land surface)	Remarks
Navajo Sandstone of Glen Canyon Group (227NWJO)					
(A-42- 8) 32cdd	SC	3.0	980	607 - 935	CF
(A-42- 8) 36ccc- 1	SC	31	3,900	500 - 625	CF
(A-42- 8) 36ccc- 2	SC	16	3,200	503 - 703	CF
(C-41- 3) 4bca- 1	SC	.38	38	150 - 250	CF
(C-43- 1) 3bac- 1	SC	36	890	275 - 300	CF
(D-17-13) 30ddd- 1	AQ	.70	150	100 - 740	Late recovery data
	SC	.30	67	100 - 740	RP
	AQ	.30	61	100 - 740	Early recovery data
	AQ	2.1	450	100 - 740	Mid recovery data
(D-17-14) 29acd- 1	SC	.43	—	2,735.0 - 2,737.5	Hydraulic conductivity is at 60° F computed from a test reading of 175 millidarcies.
	SC	.024	—	2,743.0 - 2,745.5	Hydraulic conductivity is at 60° F computed from a test reading of 10 millidarcies.
(D-20- 9) 1adb- 1	AQ	—	220	—	Observation well, TCS, drawdown data, S = 0.00039
	AQ	—	92	—	Observation well, TCS, recovery data, S = 0.00049
(D-20- 9) 1adc- 1	SC	.37	130	—	RP
	AQ	—	100	—	Pumped well, recovery data
(D-20- 9) 1ccc- 1	SC	.29	100	—	RP
	AQ	—	75	—	Pumped well, SLS, recovery data
(D-20- 9) 1ccc- 2	AQ	—	140	—	Early drawdown data, S = 0.00041
	AQ	—	58	—	Late drawdown data, S = 0.00042
	AQ	—	68	—	TCS, recovery data, S = 0.00039
(D-20-10) 6bdd- 1	AQ	2.0	640	141 - 475	Early recovery data
	AQ	.79	260	141 - 475	Late recovery data
(D-20-10) /abc- 1	SC	—	130	—	RP
	AQ	—	104	—	Pumped well, recovery data
(D-21-18) 12aca- 1	DST	.0098	.50	5,067 - 5,118	HGM
	DST	.017	.89	5,067 - 5,118	LDM
(D-23-14) 25bca- 1	AQ	.15	37	460 - 700	Early recovery data
	AQ	.11	27	460 - 700	Late recovery data
(D-25-15) 32cac- 1	SC	4.0	160	680 - 720	CF
(D-26- 8) 6aab- 1	SC	.30	27	686 - 767	RP, hydraulic conductivity using saturated sandstone
	SC	.50	27	715 - 767	RP, hydraulic conductivity using perforated openings
	SC	1.4	72	715 - 767	CF
(D-26-22) 15dab- 1	SC	—	8,000	—	CF
(D-26-22) 15dca- 1	SC	—	24,000	—	CF
(D-26-22) 16ada- 1	SC	—	12,000	—	CF
(D-26-22) 20acd- 1	SC	3.0	80	123 - 150	CF
(D-26-22) 22aab- 1	SC	—	5,400	—	WT
(D-26-22) 22aad- 1	SC	—	490	—	CF
(D-26-22) 22daa- 1	SC	—	3,400	—	CF
(D-27-11) 343db- 1	AQ	2.8	1,700	605 - 750	SLS, recovery data
(D-27-15) 21aad- 1	SC	.30	270	582 - 682	RP
(D-28- 7) 27cbb- 1	AQ	7.2	2,600	1,990 - 2,353	TCS, drawdown or recovery data, S = 0.0013
(D-28- 8) 29cdc- 1	AQ	89	3,900	720 - 764	TCS, early drawdown data, S = 0.00081
	AQ	71	3,100	720 - 764	TCS, early recovery data, S = 0.0012
	AQ	35	1,500	720 - 764	TCS, complete drawdown data, S = 0.0015
	AQ	36	1,600	720 - 764	SLS, complete data, S = 0.0013
(D-28- 8) 29dcb- 1	AQ	21	1,700	679 - 761	SLS, 10 minute recovery data after pumping for 68 days
	AQ	51	4,200	679 - 761	TCS, early drawdown data, S = 0.00085
	AQ	52	4,200	679 - 761	TCS, early recovery data, S = 0.00093
	AQ	20	1,600	679 - 761	SLS, complete data, S = 0.0014
	AQ	17	1,400	679 - 761	TCS, complete drawdown data, S = 0.0019
	SC	50	4,100	679 - 761	CF
(D-28- 8) 29dcd- 1	SC	32	2,700	679 - 761	RP
(D-28- 8) 33bbb- 1	SC	2.5	1,300	704 - 1,250	RP, 1 day of pumping
	SC	2.5	1,300	704 - 1,250	RP, 12 days of pumping
	AQ	2.4	1,300	704 - 1,250	Early recovery data
	AQ	3.2	1,700	704 - 1,250	Late recovery data
	SC	3.7	2,000	704 - 1,250	RP, 1 day of pumping
	SC	2.5	1,300	704 - 1,250	RP, 35 days of pumping
	SC	3.4	1,900	704 - 1,250	SLS, late recovery data, after 35 days of pumping
	SC	3.7	2,000	704 - 1,250	CF
(D-28- 8) 33cdd- 1	DST	1.7	17	756 - 766	RP
	DST	.74	7.4	901 - 911	RP
	DST	1.8	18	1,057 - 1,061	RP
	DST	.63	6.3	1,286 - 1,296	RP
	AQ	4.9	2,600	756 - 1,296	TCS, early drawdown data, S = 0.00055
	AQ	4.6	2,500	756 - 1,296	TCS, early recovery data, S = 0.00064
	AQ	2.6	1,400	756 - 1,296	TCS, complete data, S = 0.00063
	AQ	2.9	1,600	756 - 1,296	SLS, complete data, S = 0.00049
(D-29- 4) 25dcb- 1	SC	11	1,300	35 - 150	RP
(D-29- 4) 26dac- 1	SC	60	10,000	95 - 275	RP
(D-29-24) 17aa	SC	1.9	3,100	612 - 2,190	CF
(D-31- 7) 36dad- 1	SC	.70	400	580 - 1,140	RP
(D-31-23) 2ccc- 1	SC	1.3	57	230 - 275	WT
(D-31-25) 5dda- 1	SC	.17	44	20 - 280	CF
(D-33- 4) 35cbb- 1	SC	—	7,700	—	WT
(D-33- 4) 36abb- 1	SC	2.7	240	236 - 325	WT
(D-35-11) 2cba- 1	SC	1.8	44	1,596 - 1,620	CF
(D-37-22) 28cad- 1	SC	.36	210	1,250 - 1,850	CF
(D-37-22) 28dcb- 1	SC	.27	170	1,080 - 1,700	CF
	AQ	.34	210	1,080 - 1,700	RP, S = 0.00026
(D-37-25) 32cad- 1	SC	1.3	66	687 - 737	CF
(D-38-11) 5dad- 1	SC	.70	400	550 - 1,005	RP, pumping rate 150 gpm
	SC	.87	380	550 - 984	CF, pumping rate 150 gpm
	SC	.70	300	550 - 1,005	RP, pumping rate 300 gpm
	SC	.79	340	550 - 984	CF, pumping rate 300 gpm
(D-38-11) 5dca- 1	SC	.50	200	613 - 713	RP
	SC	2.7	270	613 - 713	CF
	AQ	.40	160	613 - 713	SLS, recovery data
(D-38-22) 23acb- 1	SC	4.7	200	1,006 - 1,048	CF
(D-39-22) 17bab- 1	AQ	.15	144	936 - 1,350	RP

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared) per day)	Test interval (feet below land surface)	Remarks
Navajo Sandstone of Glen Canyon Group (227NWJO)—Continued					
(D-39-26)21bdb-	1 AQ	0.02	16	710 - 1,425	TCS, recovery data
	AQ	.03	20	710 - 1,425	TCS, recovery data
(D-40- 8) 7bdc-	1 SC	2.1	84	380 - 420	CF
(D-40-23)21db	SC	1.4	290	547 - 567	CF
(D-40-23)21dbc-	1 SC	.70	280	377 - 777	CF
(D-41-23)16aaa-	1 SC	1.0	410	532 - 932	CF
(D-41-25)17cdb-	1 SC	1.8	180	500 - 600	CF
(D-43-23)15cab-	1 SC	.83	74	418 - 508	CF
(D-44- 3) 2bdc-	1 SC	6.3	990	495 - 652	CF
01 026-07.83x17.10	SC	.15	21	545 - 688	WT
01 029-00.45x09.86	SC	.012	2.9	1,170 - 1,406	WT
01 029-00.80x12.58	SC	.13	9.3	1,330 - 1,402	WT
01 042-03.88x10.40	AQ	.75	510	560 - 1,240	RP
01 042-05.30x11.65	AQ	1.5	760	70 - 1,350	RP
	SC	8.7	520	850 - 870	WT
				1,200 - 1,220	
				1,330 - 1,350	
01 042-06.11x05.92	SC	.12	26	880 - 1,091	WT
01 042-12.65x13.41	SC	.21	34	950 - 1,112	WT
01 044-01.53x07.84	SC	6.4	1,300	1,200 - 1,400	WT
01 044-01.78x07.89	SC	.11	24	1,176 - 1,397	CF
02 040-02.48x05.16	SC	.40	50	—	RP
	SC	.098	21	535 - 753	WT
02 040-11.20x13.60	AQ	20	810	260 - 300	CF
04 056-09.00x03.73	AQ	.40	280	2,279 - 2,979	RP
	SC	.29	420	2,029 - 3,458	CF
04 073-12.26x10.09	SC	2.1	750	1,895 - 2,243	CF
08 022-03.10x06.68	AQ	2.2	150	298 - 367	CF
08 022-05.23x10.58	AQ	.16	40	475 - 675	RP
	SC	.18	35	475 - 675	CF
08 022-05.28x10.68	AQ	.086	40	170 - 210	RP
				280 - 707	
08 022-05.55x10.78	SC	2.2	32	47 - 62	CF
08 022-05.65x15.80	SC	.45	62	65 - 202	WT
08 022-07.95x12.84	AQ	.22	200	—	RP
08 023-01.36x12.95	SC	.45	77	135 - 306	CF
08 023-04.31x14.82	SC	.23	20	270 - 343	CF
08 024-03.00x02.00	SC	.027	2.2	30 - 112	WT
08 037-00.61x05.19	SC	1.7	97	242 - 300	CF
08 037-08.20x15.95	AQ	.29	33	300 - 450	RP
	SC	.79	99	325 - 450	CF
08 037-08.51x15.87	SC	.0079	2.7	813 - 1,160	CF
08 037-13.27x14.38	SC	.37	54	547 - 690	CF
08 038-01.23x12.99	SC	.41	22	347 - 400	CF
08 038-01.28x03.17	SC	.62	190	593 - 900	CF
08 038-03.15x05.78	SC	.39	18	547 - 594	CF
08 038-04.12x15.67	AQ	.050	20	1,170 - 1,640	RP
	SC	.093	38	1,218 - 1,631	CF
08 038-04.43x15.39	AQ	.11	47	1,112 - 1,562	RP
	SC	.078	34	1,142 - 1,572	CF
08 038-07.04x10.39	SC	.59	88	1,130 - 1,280	CF
08 038-08.41x03.93	SC	1.4	64	165 - 210	CF
08 038-09.40x07.08	AQ	.23	123	452 - 995	RP
	SC	.20	170	470 - 1,338	CF
08 038-13.56x01.53	AQ	.41	250	0 - 590	RP
08 038-13.86x01.43	SC	.27	150	53 - 670	RP
	SC	.82	210	475 - 480	CF
				555 - 562	
				563 - 807	
08 039-00.17x01.45	SC	2.4	260	268 - 280	CF
				691 - 788	
08 039-00.30x01.91	SC	.16	82	330 - 850	CF
08 039-00.61x01.34	AQ	.14	20	13 - 755	RP
	SC	2.2	1,300	150 - 750	CF
08 039-00.70x01.57	SC	.30	46	712 - 868	CF
08 039-07.23x01.59	SC	1.0	100	148 - 250	CF
08 039-08.31x05.09	AQ	1.3	660	438 - 933	RP
	SC	1.6	1,200	180 - 933	
08 054-09.63x01.28	SC	.041	5.8	330 - 461	WT
08 054-10.80x01.78	AQ	.050	16	800 - 6,753	RP
08 054-10.96x00.63	AQ	.050	16	0 - 851	RP
	SC	.29	32	300 - 360	CF
				730 - 780	
09 020-13.24x11.34	SC	.31	100	41 - 369	CF
10 053-12.67x05.84	SC	.12	24	496 - 703	CF
10 054-01.47x09.39	SC	1.1	100	267 - 360	CF
10 054-06.04x06.22	AQ	.27	50	300 - 750	RP
10 054-06.09x06.12	AQ	.27	50	1,086 - 1,121	RP
	SC	.24	61	1,110 - 1,360	CF
10 054-06.66x06.18	SC	.99	150	1,250 - 1,385	CF
				1,387 - 1,401	
10 054-06.80x06.35	SC	.39	140	1,150 - 1,515	CF
10 054-06.81x06.09	SC	.23	54	1,106 - 1,344	CF
10 054-06.95x06.06	AQ	.21	55	1,138 - 1,215	RP
	SC	.21	21	1,117 - 1,215	CF
NE04801734DBB	SC	12	4,700	138 - 520	CF
SB00310436AD	DST	.036	.18	6,077 - 6,132	HGM
T(D-38-11)29cda-	1 SC	1.2	550	600 - 1,054	CF
Neslen Formation of Mesaverde Group (211NSLN)					
SB00709017DB	DST	0.0023	0.10	9,738 - 9,781	LDM
SC00809023AB	DST	.019	.29	5,961 - 5,976	LDM

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared per day)	Test interval (feet below land surface)	Remarks
Nugget Sandstone (220NGGT)					
14N- 91W-11dd	DST	0.40	9.6	8,776 - 8,800	LDM
15N-103W- 7da	DST	.18	4.5	4,700 - 4,725	LDM
15N-112W-29ac	DST	.0012	.057	14,597 - 14,643	LDM
15N-119W- 6dbb	DST	.040	2.1	12,326 - 12,380	LDM
16N- 92W-12db	DST	.0026	.026	9,665 - 9,675	LDM
	DST	.0080	.080	9,593 - 9,603	HGM
	DST	.19	3.7	9,835 - 9,854	HGM
16N-101W- 2aac	DST	.052	2.7	11,876 - 11,929	LDM
16N-104W-16ddb	DST	1.5	31	3,550 - 3,571	LDM
18N-102W-12cd	DST	3.7	49	6,701 - 6,714	HGM
18N-120W-24dbb	DST	.029	2.5	7,394 - 7,480	LDM
	DST	.0032	.19	7,640 - 7,699	LDM
19N- 90W-26cca	DST	1.2	78	8,928 - 8,995	HGM
19N-103W-30cca	DST	.47	8.9	4,377 - 4,396	HGM
19N-112W-22cc	DST	.0014	.066	13,845 - 13,892	LDM
20N- 87W-29aa	DST	.066	2.0	6,889 - 6,920	LDM
	DST	.23	2.5	6,891 - 6,902	LDM
20N- 87W-30ddc	DST	.0032	.11	6,781 - 6,814	LDM
22N-105W-11bcc	DST	.016	2.3	14,595 - 14,741	LDM
24N- 87W- 1bc	DST	.012	.47	4,776 - 4,816	LDM
25N- 86W-34ad	DST	.0018	.18	5,641 - 5,740	LDM
26N- 95W- 8bbc	DST	.030	.90	6,929 - 6,959	LDM
27N- 90W-28dc	DST	.86	35	9,109 - 9,150	HGM
27N- 95W-18bdb	DST	.10	2.2	1,678 - 1,700	LDM
27N-111W- 7ac	DST	.016	1.7	11,371 - 11,472	LDM
28N-113W-19bb	DST	.025	.55	10,079 - 10,101	HGM
29N-114W-16cdd	DST	.061	8.5	11,321 - 11,460	LDM
SB01210022CCB	DST	.000030	.0075	14,478 - 14,726	LDM
Owl Rock Member of Chinle Formation (231ORCK)					
12 034-03.90x02.80	SC	0.34	110	80 - 407	CF
Pictured Cliffs Sandstone (211PCCF)					
NB03400723DB	DST	0.0044	0.15	2,695 - 2,730	LDM
Point Lookout Sandstone of Mesaverde Group (211PNLK)					
NB03500808CCB	SC	0.0056	0.42	27 - 102	WT
Rock Springs Formation of Mesaverde Group (211RKSP)					
13N- 99W-18bcd	DST	0.11	12	8,946 - 9,052	HGM
	DST	.31	18	6,842 - 6,901	LDM
	DST	.049	5.0	6,950 - 7,052	LDM
13N-104W-15cc	DST	.084	.84	4,601 - 4,611	LDM
14N-104W-31dcc	DST	2.6	110	4,041 - 4,081	HGM
14N-105W- 7ab	DST	.19	5.4	4,892 - 4,920	HGM
	DST	.96	250	4,895 - 5,152	HGM
14N-105W- 8bb	DST	.56	5.0	4,854 - 4,863	HGM
	DST	.026	1.0	5,116 - 5,154	HGM
16N- 93W-11aa	DST	.011	2.4	10,352 - 10,576	LDM
18N-105W-14acc	SC	.050	48	465 - 1,420	RP
	SC	.51	49	466 - 512	CF
				1,354 - 1,404	
19N-100W-28da	DST	.010	.29	3,937 - 3,965	LDM
21N-110W-22bd	DST	.0053	.14	7,884 - 7,910	LDM
Salt Wash Member of Morrison Formation (221SLWS)					
09 019-05.82x06.78	SC	0.20	33	375 - 543	CF
09 019-05.91x06.15	SC	2.2	58	330 - 360	CF
NB03701405DAC	SC	26	1,500	65 - 122	CF
NB03701713CA	SC	.10	16	720 - 875	CF
NB04401830DBD	SC	8.7	520	20 - 80	CF
NB04401925DAD	SC	77	1,500	20 - 40	CF
SB00409831DDC	DST	.0032	.49	4,619 - 4,769	HGM
UB00100233BB	SC	.13	40	200 - 500	CF
UC00100122CBD	AQ	.040	4.8	545 - 665	SLS, drawdown data, S = 0.0004
	AQ	.39	4.7	545 - 665	SLS, recovery data
	SC	.083	10	545 - 665	CF, estimating S = 0.0001
	SC	.075	9.0	545 - 665	CF, using S = 0.0004 from aquifer test
Shannon Sandstone Member of Cody Shale (211SNNN)					
27N- 94W-35ac	DST	0.041	2.4	5,565 - 5,623	LDM
Shinarump Member of Chinle Formation (231SRMP)					
08 024-02.27x03.65	SC	320	1,900	32 - 38	CF
08 024-02.65x01.68	SC	.025	2.1	0 - 112	WT
08 024-03.81x02.63	SC	.83	160	17 - 81	CF
				248 - 383	
10 053-07.10x08.81	SC	.91	290	932 - 1,250	CF
10 053-07.30x09.19	SC	.32	81	900 - 1,150	CF
10 053-09.00x08.01	SC	2.4	150	1,213 - 1,275	CF
10 071-02.95x07.20	SC	.22	77	234 - 585	CF
10 071-09.09x00.62	SC	.50	54	1,593 - 1700	CF
10 090-11.15x07.35	SC	3.5	830	71 - 309	CF
10 090-12.40x05.88	SC	.17	110	270 - 897	CF
11 035-07.05x10.22	SC	.25	40	1,216 - 1,377.5	CF
11 051-10.47x14.68	SC	.58	210	271 - 640	CF
11 051-11.13x13.45	SC	.59	230	502 - 902	CF
11 051-11.67x14.32	SC	.15	100	260 - 920	CF
11 051-12.33x05.74	SC	.11	73	550 - 1,200	CF
11 051-12.78x05.38	SC	.26	64	540 - 783	CF

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared) per day)	Test interval (feet below land surface)	Remarks
Shinarump Member of Chinle Formation (231SRMP)—Continued					
11 051-13.23x06.30	SC	0.41	80	315 - 508	WT
11 069-07.00x00.95	SC	.040	6.3	524 - 682	CF
17 091-07.00x17.20	SC	.18	58	1,291 - 1,610	CF
16N- 90W-31abd	DST	.0018	.21	9,063 - 9,180	LDM
SB00409223AB	DST	.19	6.2	4,082 - 4,114	LDM
SB00509029DB	DST	1.5	41	5,983 - 6,010	LDM
SB00509036AD	DST	.0054	.049	5,008 - 5,017	LDM
	DST	.0095	.13	5,119 - 5,133	LDM
SB00509118BD	DST	.00010	.0083	7,425 - 7,505	LDM
SB00808627	DST	.0044	.44	2,480 - 2,579	LDM
Sinbad Limestone Member of Moenkopi Formation (237SNBD)					
(D-29- 5)19cba- 1	SC	0.0093	1.0	30 - 140	WT
(D-29- 5)32bad- 1	SC	10	270	75 - 100	RP, cavernous zones in limestone
	SC	11	270	75 - 100	CF
(D-29-11)17bd	DST	.077	3.9	3,576 - 3,626	LDM
Sonsela Sandstone Bed of Petrified Forest Member of Chinle Formation (231SNSL)					
11 052-02.22x02.28	SC	0.55	58	324 - 430	CF
Steele Shale (211STEL)					
14N- 91W-11dd	DST	0.0093	0.47	3,902 - 3,952	HGM
17N- 90W-30dd	DST	.42	5.8	2,640 - 2,654	LDM
26N- 94W-17bb	DST	.18	35	5,593 - 5,792	HGM
27N- 93W-33bd	DST	.0012	.044	5,924 - 5,960	LDM
Straight Cliffs Sandstone (211SGCF)					
(D-40- 3) 1bdc- 2	SC	2.3	390	151 - 320	CF
(D-40- 3) 1cba- 1	SC	.27	37	365 - 500	CF
(D-40- 3) 1dbc- 1	SC	.13	83	420 - 900	CF
Summerville Formation of San Rafael Group (224SMVL)					
NB03801601CCA	SL	0.16	--	--	Median of 136 tests, from 27 test holes, range of hydraulic conductivity is 0.0 - 6.08 feet per day.
Sundance Formation (221SND)					
24N- 87W- 1acb	DST	0.15	5.9	4,825 - 4,865	LDM
SB00509530DD	DST	.031	.37	6,656 - 6,668	LDM
Thaynes Formation (237TYNS)					
18N-117W-36dca	DST	0.036	0.53	6,118 - 6,133	HGM
	DST	.13	1.9	6,118 - 6,133	LDM
23N-119W-26bd	DST	.045	4.1	9,018 - 9,108	LDM
Timpoweap Member of Moenkopi Formation (237TMPP)					
(D-34- 2)27adb- 1	DST	0.017	0.91	5,098 - 5,150	LDM
(D-36- 6)18bbb- 2	DST	.015	.80	2,155 - 2,207	LDM
Tropic Shale (211TRPC)					
(C-36- 3)36ccd- 1	SC	2.9	130	30 - 77	CF
Twin Creek Limestone (224TCRK)					
U(C- 1- 8) 3ddc- 1	SC	9.0	180	110 - 130	RP
	SC	18	360	110 - 130	CF
Wahweap Sandstone (211WHWP)					
(C-37- 1) 4dad- 1	SC	2.2	480	40 - 253	CF
(D-35- 1)34ccc- 1	SC	5.7	540	185 - 280	CF
Williams Fork Formation of Mesaverde Group (211WMFK)					
SB00309306BDD	SC	14	550	60 - 100	WT
SB00309307BDD	SC	510	20,000	60 - 100	CF
SB00609028CCC	SC	.14	5.5	445 - 485	CF
SB00609108ADD	SC	18	1,800	100 - 200	CF
SB00609111DDD	SC	.82	20	231 - 255	CF
SB00609118CCC	SC	.12	7.4	240 - 300	CF
SB00609127BD	SC	.42	51	1,012 - 1,132	CF

Table 4.—Hydrologic properties from field tests at well sites—Continued

Site number	Method	Hydraulic Conductivity (feet per day)	Transmissivity (feet squared) per day)	Test interval (feet below land surface)	Remarks
Wingate Sandstone of Glen Canyon Group (231WNGT)					
(D-21-18)12cac- 1	DST	0.00030	0.017	5,934 - 5,989	LDM
(D-26-22)17aad- 1	SC	3.0	150	30 - 80	WT
(D-26-22)17aba- 3	SC	—	11,000	—	CF
(D-28-23)31abc- 1	SC	.038	5.7	680 - 830	CF
(D-30-24)22bcd- 1	SC	.080	24	200 - 500	CF
(D-30-24)22caa- 1	SC	.19	54	221 - 500	CF
(D-31-12) 4acc- 1	DST	.033	1.5	1,490 - 1,536	HGM
	DST	.022	.63	1,802 - 1,830	HGM
(D-32-24)22adb- 1	SC	.078	39	1,097 - 1,595	CF
10 054-06.30x06.52	SC	.17	42	1,175 - 1,425	CF
NB04801734BBB	SC	.22	96	120 - 550	WT
SC01110123DEB	AQ	.055	15	585 - 922	SLS, drawdown or recovery data, s = 0.008
SC01210120DEB	SC	8.3	270	503 - 535	WT
SC01210134CCB	SC	56	1,100	370 - 390	WT
SC01210201AAB	SC	55	1,300	587 - 610	WT
SC01210209BBC	SC	1.4	110	270 - 350	WT
SC01210213DA	SC	.25	15	430 - 490	WT
SC01210219DDA	SC	180	180	468 - 469	CF
SC01210225AB	SC	.097	16	178 - 340	WT
SC01210324ABB	SC	1.3	190	48 - 200	CF
Woodside Formation (237WDS)					
20N-116W-23ab	DST	0.010	1.3	4,678 - 4,808	LDM
	DST	.078	11	4,678 - 4,808	HGM

Table 5.—Hydrologic properties from laboratory analysis of rock samples

Site number: See text for explanation of site-numbering systems.

Porosity method: B.L., Boyle's Law; FLD, Fluid.

Remarks: Test interval (top-bottom) and sample depth in feet below land surface; data values are for one observation unless noted otherwise.

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity, in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Allen Ridge Formation of Mesaverde Group (211ARDG)								
17N- 92W-15c	0.13 (0.00033)	-- (--)	-- (--)	-- (--)	6.3	FLD	--	7,977-8,251, data values are means of 145 observations.
17N- 94W-21cac	.035 (.000085)	-- (--)	-- (--)	-- (--)	7.0	FLD	--	11,245-11,436, data values are means of 94 observations.
Almond Formation of Mesaverde Group (211ALMD)								
17N- 92W-15c	1.6 (0.0039)	-- (--)	-- (--)	-- (--)	7.6	FLD	--	7,386-7,744, data values are means of 109 observations.
17N- 94W-21cac	.065 (.00016)	-- (--)	-- (--)	-- (--)	6.4	FLD	--	10,626-11,071, data values are means of 126 observations.
17N- 98W-11bbd	.31 (.00076)	-- (--)	-- (--)	-- (--)	3.9	FLD	--	8,590-8,638, data values are means of 17 observations.
18N- 99W-26cb	1.0 (.0026)	-- (--)	-- (--)	-- (--)	--	--	--	5,532-5,577, data values are means of 15 observations.
18N- 99W-26db	2.5 (.0061)	-- (--)	-- (--)	-- (--)	--	--	--	5,762-5,765, data values are means of 3 observations.
19N- 98W- 5bdb	22 (.054)	-- (--)	-- (--)	-- (--)	15.2	--	--	5,208-5,222, data values are means of 14 observations.
19N-100W- 2aa	88 (.21)	49 (.12)	-- (--)	-- (--)	19.6	--	--	2,641-2,676, data values are means of 13 observations.
20N- 99W-21dd	25 (.062)	-- (--)	-- (--)	-- (--)	--	--	--	3,876-3,902, data values are means of 14 observations.
20N- 99W-27cc	32 (.077)	-- (--)	-- (--)	-- (--)	--	--	--	4,078-4,110, data values are means of 24 observations.
	.40 (.00096)	-- (--)	-- (--)	-- (--)	--	--	--	4,137-4,146, data values are means of 4 observations.
20N- 99W-29ca	18 (.043)	-- (--)	-- (--)	-- (--)	--	--	--	3,352-3,394, data values are means of 33 observations.
20N- 99W-29da	6.5 (.016)	-- (--)	-- (--)	-- (--)	16.9	--	--	3,520-3,549, data values are means of 9 observations.
20N- 99W-29db	4.8 (.012)	-- (--)	-- (--)	-- (--)	--	--	--	3,443-3,502, data values are means of 17 observations.
21N- 92W- 1c	.16 (.00039)	-- (--)	-- (--)	-- (--)	5.2	FLD	--	12,080-12,118, data values are means of 38 observations.
Blackhawk Formation of Mesaverde Group (211BCKK)								
(D-17- 6)27bda- 1	18 (0.044)	8.2 (0.020)	6.2 (0.017)	1.5 (0.0041)	13.8	B.L.	--	Sample depth 1,521
	.01 (.00002)	.01 (.00002)	.000038 (.00000010)	.000049 (.00000013)	3.2	B.L.	--	Sample depth 1,545, actual permeabilities are less than the values given.
	.01 (.00002)	.01 (.00002)	--	--	1.8	B.L.	--	Sample depth 1,786, actual permeabilities are less than the values given.
	14 (.034)	6.0 (.015)	4.6 (.013)	1.6 (.0044)	11.3	B.L.	--	Sample depth 1,792
	.01 (.00002)	--	.0000044 (.000000012)	--	4.0	B.L.	--	Sample depth 2,170, actual permeabilities are less than the values given.
	.01 (.00002)	.037 (.000090)	.000082 (.00000020)	.000092 (.00000025)	2.2	B.L.	--	Sample depth 2,256, actual horizontal permeabilities are less than the values given.
(D-23- 4)22bdd- 1	62 (.15)	19 (.046)	18 (.049)	1.7 (.0047)	15.1	B.L.	--	
	740 (1.8)	700 (1.7)	190 (.53)	280 (.77)	24.7	B.L.	--	
	2,100 (5.0)	2,000 (4.8)	880 (2.4)	1,000 (2.9)	24.2	B.L.	--	
	.002 (.000005)	.001 (.000002)	.000027 (.00000074)	.000046 (.00000013)	2.5	B.L.	--	
	.30 (.00073)	.02 (.00005)	.013 (.000036)	.0001 (.00000027)	16.0	B.L.	--	
	170 (.41)	180 (.44)	62 (.17)	69 (.19)	20.3	B.L.	--	

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity, in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Bluff Sandstone Member of Morrison Formation (221BLFF)								
(D-40-22)19aad	-- (--)	-- (--)	1,100 (3.0)	-- (--)	--		1.2	0.0-0.4, data values are means of 11 observations.
Brushy Basin Member of Morrison Formation (221BRBS)								
NB03601723CBC	-- (--)	-- (--)	10 (0.027)	-- (--)	--		0.011	0.0-0.4, data values are means of 2 observations.
NB04801730BBB	-- (--)	-- (--)	850 (2.3)	-- (--)	--		.93	0.0-0.4, data values are means of 6 observations.
Carmel Formation of San Rafael Group (224CRML)								
(D-19-11)17bba	-- (--)	-- (--)	-- (--)	0.020 (0.000055)	2.3		--	0.0-0.4
(D-26- 9)22bcb	-- (--)	-- (--)	1.0 (0.0027)	-- (--)	--		0.0011	0.0-0.4, data values are means of 2 observations.
(D-26-19)34add	-- (--)	-- (--)	54 (.15)	-- (--)	--		.059	0.0-0.4, data values are means of 4 observations.
(D-37-21) 7ca	-- (--)	-- (--)	21 (.59)	-- (--)	--		.24	0.0-0.4, data values are means of 2 observations.
NB03601731DDA	-- (--)	-- (--)	1.0 (.0027)	-- (--)	--		.0011	0.0-0.4, data values are means of 2 observations.
NB04801824CBA	-- (--)	-- (--)	1.0 (.0027)	-- (--)	--		.0011	0.0-0.4
Cedar Mountain Formation (217CDRM)								
(D-19- 9) 1cda	0.01 (0.00002)	-- (--)	0.01 (0.00003)	-- (--)	2.9	B.L.	--	
(D-19-14) 5adb	.01 (.00002)	-- (--)	.01 (.00003)	-- (--)	1.5	B.L.	--	
SC0041032BDA	8.3 (.020)	5.5 (0.013)	-- (--)	-- (--)	--		--	6,189-6,209, data values are means of 8 observations.
Chinle Formation (231CHNL)								
(D-26- 9) 9bcd	-- (--)	-- (--)	21 (0.057)	-- (--)	--		0.023	0.0-0.4, data values are means of 3 observations.
(D-27-20)12ccc	-- (--)	-- (--)	1.0 (.0027)	-- (--)	--		.0011	0.0-0.4, data values are means of 2 observations.
(D-31-20)23aaa	-- (--)	-- (--)	41 (.11)	-- (--)	--		.045	0.0-0.4, data values are means of 6 observations.
(D-31-25)19dca	-- (--)	-- (--)	5.5 (.015)	-- (--)	--		.0060	0.0-0.4
(D-40-20)36cbc	-- (--)	-- (--)	1.1 (.0030)	-- (--)	--		.0012	0.0-0.4, data values are means of 3 observations.
NB03801331CCC	-- (--)	-- (--)	1.0 (.0027)	-- (--)	--		.0011	0.0-0.4, data values are means of 5 observations.
NB04201835CAD	-- (--)	-- (--)	2.2 (.0060)	-- (--)	--		.0024	0.0-0.4, data values are means of 8 observations.
NB04601703DAC	-- (--)	-- (--)	1.1 (.0029)	-- (--)	--		.0012	0.0-0.4, data values are means of 5 observations.
SB00309730AAD	0.0083 (0.000020)	-- (--)	-- (--)	-- (--)	0.67		--	10,720-10,738, data values are means of 18 observations.
T(D-26-17)36dba	-- (--)	-- (--)	6.3 (.017)	-- (--)	--		.0069	0.0-0.4, data values are means of 11 observations.
	-- (--)	-- (--)	140 (.39)	-- (--)	--		.16	0.0-0.4, data values are means of 3 observations.
Cloverly Formation (217CLVL)								
20N- 87W-30d3c	4.8 (.012)	-- (--)	-- (--)	-- (--)	--		--	6,333-6,366, data values are means of 33 observations.
Cow Springs Sandstone (224CSPG)								
08 039-10.24x07.49	-- (--)	-- (--)	600 (1.6)	-- (--)	--		0.66	0.0-0.4, data values are means of 8 observations.
09 035-00.85x06.48	-- (--)	-- (--)	560 (1.5)	-- (--)	--		.62	0.0-0.4, data values are means of 5 observations.
Cretaceous System—Lower (217CRCSL)								
(D-21-15) 4cbb	-- (--)	-- (--)	320 (0.87)	-- (--)	--		0.35	0.0-0.4, data values are means of 9 observations.
(D-25-20)21add	-- (--)	-- (--)	320 (.89)	-- (--)	--		.35	0.0-0.4, data values are means of 11 observations.

Table 5.--Hydrologic properties from laboratory analysis of rock samples--Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity, in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Cretaceous System-Lower (217CRCSL)--Continued								
(D-26- 9)23ddc	-- (--)	-- (--)	39 (0.11)	-- (--)	--		0.043	0.0-0.4, data values are means of 2 observations.
(D-29- 6)22abb	-- (--)	-- (--)	630 (1.7)	-- (--)	--		.69	0.0-0.4, data values are means of 3 observations.
(D-37- 3) 3cda	-- (--)	-- (--)	200 (.54)	-- (--)	--		.21	0.0-0.4, data values are means of 6 observations.
(D-37-21)13aca	-- (--)	-- (--)	810 (2.2)	-- (--)	--		.089	0.0-0.4, data values are means of 4 observations.
NB04701710DDD	-- (--)	-- (--)	560 (1.5)	-- (--)	--		.62	0.0-0.4, data values are means of 12 observations.
NB04801719CAB	-- (--)	-- (--)	2,100 (5.7)	-- (--)	--		2.3	0.0-0.4, data values are means of 11 observations.
SC01110233ACA	-- (--)	-- (--)	220 (.61)	-- (--)	--		.25	0.0-0.4, data values are means of 12 observations.
Carrant Creek Formation (211CRCK)								
U(C- 1- 8)13cbd	-- (--)	-- (--)	590 (1.6)	500 (1.4)	23.6		0.64	0.0-0.4
Curtis Formation of San Rafael Group (224CRFS)								
(D-26- 9)22abc	-- (--)	-- (--)	220 (0.59)	-- (--)	--		0.24	0.0-0.4, data values are means of 2 observations.
Dakota Sandstone (211DKOT or 217DKOT)								
(D- 3-21)35adb	-- (--)	-- (--)	0.075 (0.00021)	-- (--)	8.2		0.000084	0.0-0.4
(D-18- 9)35bcd	18 (0.044)	-- (--)	4.4 (.012)	-- (--)	11.8	B.L.	--	
(D-18-24) 5dbd- 1	.082 (.00020)	0.078 (0.00019)	-- (--)	-- (--)	8.0	FLD	--	3,898-3,910, data values are means of 12 observations.
(D-18-24) 8abb- 1	3.1 (.0077)	5.5 (.013)	-- (--)	-- (--)	13.3	FLD	--	3,735-3,748, data values are means of 13 observations.
(D-21- 7)36ccd	32 (.078)	-- (--)	10 (.027)	-- (--)	14.1	B.L.	--	
(D-21-16)32dbb	1.5 (.0037)	-- (--)	.36 (.00099)	-- (--)	9.5	B.L.	--	
(D-21-24)29cda	.93 (.0023)	-- (--)	.18 (.00049)	-- (--)	11.3	B.L.	--	
(D-24-20) 8cda	740 (1.8)	-- (--)	490 (1.4)	-- (--)	22.4	B.L.	--	
(D-32- 8)18bda	.04 (.0001)	-- (--)	.01 (.00003)	-- (--)	3.7	B.L.	--	
13N-113W- 5cab	24 (.057)	-- (--)	-- (--)	-- (--)	--		--	13,255-13,285, data values are means of 28 observations.
	.96 (.0023)	-- (--)	-- (--)	-- (--)	--		--	13,362-13,380, data values are means of 18 observations.
15N-104W-11ba	41 (.099)	-- (--)	-- (--)	-- (--)	15.7		--	4,034-4,120, data values are means of 80 observations.
15N-104W-36dbc	13 (.031)	-- (--)	-- (--)	-- (--)	--		--	5,129-5,154, data values are means of 24 observations.
15N-111W-20bdc	3.6 (.0087)	-- (--)	-- (--)	-- (--)	8.3	FLD	--	14,253-14,293, data values are means of 38 observations.
16N-101W-11dca	.019 (.000046)	-- (--)	-- (--)	-- (--)	--		--	11,279-11,292, data values are means of 9 observations.
16N-101W-15aa	3.9 (.0095)	-- (--)	-- (--)	-- (--)	9.1		--	11,026-11,070, data values for permeability to air are means of 37 observations. The data value for porosity is a mean of 39 observations.
16N-113W-21bbc	7.6 (.019)	-- (--)	-- (--)	-- (--)	9.6		--	12,750-12,865, data values are means of 56 observations.
	.01 (.00002)	-- (--)	-- (--)	-- (--)	5.4		--	12,901-12,923, data values are means of 18 observations.
17N-112W-27cac	.31 (.00074)	-- (--)	-- (--)	-- (--)	2.9	FLD	--	12,531-12,551, data values for permeability to air are means of 30 observations. The data value for porosity is a mean of 20 observations.

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity, in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Dakota Sandstone (211DKOT or 217DKOT)—Continued								
18N-112W- 2bbd	0.43 (0.0010)	— (—)	— (—)	— (—)	5.0	FLD	—	12,060-12,082, data values are means of 14 observations.
18N-112W-13bbd	.89 (.0022)	— (—)	— (—)	— (—)	6.9	B.L.	—	12,303-12,364, data values are means of 57 observations.
24N-113W-11aac	.75 (.0018)	— (—)	— (—)	— (—)	5.7	B.L.	—	11,023-11,048, data values for permeability to air are means of 20 observations. The data value for porosity is a mean of 22 observations.
25N-110W-26ac	.10 (.00025)	— (—)	— (—)	— (—)	6.7	—	—	11,382-11,397, data values are means of 15 observations.
26N- 87W-29ccc	14 (.035)	— (—)	— (—)	— (—)	11.3	—	—	2,228-2,239, data values are means of 11 observations.
NB03501607BAA	— (—)	— (—)	190 (0.51)	— (—)	—	—	0.20	0.0-0.4, data values are means of 4 observations.
SB00509613CB	19 (.047)	— (—)	— (—)	— (—)	16.4	—	—	4,571-4,596, data values are means of 9 observations.
SB00509829BD	5.3 (.013)	— (—)	— (—)	— (—)	15.2	—	—	4,889-4,940, data values are means of 9 observations.
SC00410327CDC	.10 (.00024)	— (—)	— (—)	— (—)	7.9	FLD	—	6,612-6,649, data values are means of 22 observations.
SC00410328DA	79 (.19)	4.3 (0.011)	— (—)	— (—)	—	—	—	6,105-6,277, data values are means of 14 observations.
SC00510230AAB	1.0 (.0024)	— (—)	— (—)	— (—)	5.8	FLD	—	6,565-6,593, data values are means of 10 observations.
SC00710419DA	.75 (.0018)	— (—)	— (—)	— (—)	—	—	—	4,352-4,386, data values are means of 34 observations.
	230 (.57)	— (—)	— (—)	— (—)	—	—	—	4,396-4,440, data values are means of 21 observations.
SC00809831AD	.043 (.00010)	— (—)	— (—)	— (—)	—	—	—	7,089-7,162, data values are means of 15 observations.
	110 (.26)	— (—)	— (—)	— (—)	—	—	—	7,193-7,216, data values are means of 23 observations.
SC00810431AA	.05 (.00012)	— (—)	— (—)	— (—)	—	—	—	3,005-3,027, data values are means of 6 observations.
SC01009701ACB	.43 (.0010)	.17 (.00041)	— (—)	— (—)	8.5	FLD	—	7,434-7,539, data values for horizontal permeability to air are means of 34 observations. Data values for vertical permeability to air are means of 35 observations. The data value for porosity is a mean of 36 observations.
SC01010008AC	5.7 (.014)	— (—)	— (—)	— (—)	—	—	—	2,229-2,494, data values are means of 87 observations.
UC00100120ABA	110 (.28)	— (—)	33 (.090)	— (—)	21.0	B.L.	—	
Entrada Sandstone of San Rafael Group (224ENRD)								
(D- 3-22)10bda- 1	680 (1.7)	— (—)	— (—)	— (—)	24.3	—	—	4.5-4.9
(D-19-13)16abb	78 (.19)	— (—)	0.01 (0.00003)	— (—)	9.7	B.L.	—	
(D-19-21)29dda- 1	14 (.034)	8.9 (0.022)	— (—)	— (—)	—	—	—	4,599-4,624, data values are means of 25 observations.
(D-23-13)24add	— (—)	— (—)	— (—)	— (—)	26.4	—	—	0.0-0.4
(D-26- 9)22cba	— (—)	— (—)	40 (.11)	— (—)	—	—	0.044	0.0-0.4, data values are means of 3 observations.
(D-26-21) 7caa	— (—)	— (—)	59 (.16)	— (—)	—	—	.065	0.0-0.4, data values are means of 3 observations.
(D-33- 9)32aab	— (—)	— (—)	310 (.85)	— (—)	—	—	.34	0.0-0.4, data values are means of 8 observations.
(D-35- 2) 1caa	— (—)	— (—)	200 (.55)	— (—)	—	—	.22	0.0-0.4, data values are means of 4 observations.
(D-35- 3) 8aaa- 1	1,200 (3.0)	400 (.98)	270 (.75)	110 (0.30)	22.0	—	3.8	0.0-5.0

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity, in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Entrada Sandstone of San Rafael Group (224ENRD)--Continued								
(D-37-21) 7dda	-- (--)	-- (--)	140 (0.38)	-- (--)	--		0.15	0.0-0.4, data values are means of 10 observations.
(D-40- 8) 7aca- 1	1,100 (2.7)	1,100 (2.7)	460 (1.3)	320 (.88)	26.0		4.1	0.0-3.22
(D-40-21) 32bcc	-- (--)	-- (--)	26 (.072)	-- (--)	--		.029	0.0-0.4, data values are means of 5 observations.
(D-43- 3) 30dac- 1	39 (.050)	620 (1.5)	2.5 (.0069)	36 (.099)	21.8		.042	0.0-6.15
09 035-00.75x06.35	-- (--)	-- (--)	200 (.55)	-- (--)	--		.22	0.0-0.4, data values are means of 10 observations.
10 054-01.18x06.22	-- (--)	-- (--)	85 (.23)	-- (--)	--		.093	0.0-0.4, data values are means of 4 observations.
NB03601731DDA	-- (--)	-- (--)	1400 (4.0)	-- (--)	--		1.6	0.0-0.4, data values are means of 9 observations.
NB04301128DAC	-- (--)	-- (--)	83 (.23)	-- (--)	--		.091	0.0-0.4, data values are means of 10 observations.
NB04701616CDD	-- (--)	-- (--)	510 (1.4)	-- (--)	--		.56	0.0-0.4, data values are means of 12 observations.
NB04801728BED	-- (--)	-- (--)	180 (.50)	-- (--)	--		.20	0.0-0.4, data values are means of 12 observations.
SC00310103CA	1.1 (.0028)	-- (--)	-- (--)	-- (--)	--		--	5,720-5,764, data values are means of 14 observations.
SC00809831AD	.12 (.00030)	-- (--)	-- (--)	-- (--)	--		--	7,783-7,842, data values are means of 59 observations.
SC00810431AA	110 (.26)	-- (--)	-- (--)	-- (--)	--		--	3,642-3,662, data values are means of 20 observations.
SC01110119CAA	-- (--)	-- (--)	100 (.27)	-- (--)	--		.11	0.0-0.4, data values are means of 12 observations.
UC00100130DCC	-- (--)	-- (--)	290 (.79)	-- (--)	--		.32	0.0-0.4, data values are means of 12 observations.
Ericson Sandstone of Mesaverde Group (211ERCS)								
17N- 92W-15c	0.59 (0.0014)	-- (--)	-- (--)	-- (--)	8.1	FLD	--	7,744-7,955, data values are means of 122 observations.
17N- 94W-21cac	.018 (.000044)	-- (--)	-- (--)	-- (--)	5.8	FLD	--	11,072-11,191, data values are means of 83 observations.
25N- 98W-14ac	.022 (.000052)	0.010 (0.000025)	-- (--)	-- (--)	2.3		--	12,050-12,110, data values are means of 60 observations.
Ferron Sandstone Member of Mancos Shale (211FRRN)								
(D-21- 7) 34bba	8.9 (0.022)	-- (--)	4.9 (0.013)	-- (--)	15.9	B.L.	--	
(D-22- 6) 22cad- 1	-- (--)	-- (--)	33 (.090)	45 (0.12)	19.0		0.0090	182.0-182.1
	-- (--)	-- (--)	40 (.11)	39 (.11)	18.0		.011	202.0-202.1
(D-22- 6) 34cac- 1	-- (--)	-- (--)	100 (.28)	86 (.24)	17.0		.028	84.0-84.1
	-- (--)	-- (--)	2.0 (.0056)	2.0 (.0056)	18.0		.00056	125.0-125.1
	-- (--)	-- (--)	.82 (.0022)	.82 (.0022)	10.0		.00022	169.0-169.1
	-- (--)	-- (--)	23 (.063)	17 (.046)	13.0		.025	181.0-181.4
(D-23- 6) 3dcc	-- (--)	-- (--)	320 (.87)	130 (.36)	20.0		.087	9.0-9.1
	-- (--)	-- (--)	4.5 (.012)	1.2 (.0034)	18.0		.0012	34.0-34.1
	-- (--)	-- (--)	.41 (.0011)	-- (--)	14.0		.00011	54.0-54.1
	-- (--)	-- (--)	11 (.030)	2.9 (.0079)	17.0		.0030	164.0-164.1
	-- (--)	-- (--)	-- (--)	1.2 (.0034)	12.0		--	224.0-224.1
	-- (--)	-- (--)	130 (.36)	110 (.29)	20.0		.036	283.0-283.1

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity, in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Ferron Sandstone Member of Mancos Shale (211FRRN)—Continued								
(D-24- 6) 5abb- 1	-- (--)	-- (--)	36 (0.099)	66 (0.18)	20.0		0.0099	42.0-42.1
	-- (--)	-- (--)	.01 (.00003)	.001 (.000003)	11.0		.000003	92.0-92.1
	-- (--)	-- (--)	.41 (.0011)	.01 (.00004)	16.0		.00011	151.0-151.1
	-- (--)	-- (--)	4.1 (.011)	2.0 (.0056)	15.0		.0011	342.0-342.1
Frontier Sandstone Member of Mancos Shale (211FRNR)								
14N-119W-27add	13 (0.031)	-- (--)	-- (--)	-- (--)	14.9		--	1,033-1,076, data values are means of 41 observations.
15N-104W-11ba	7.6 (.019)	-- (--)	-- (--)	-- (--)	15.8		--	3,597-3,668, data values are means of 18 observations.
15N-104W-36dbc	7.3 (.018)	-- (--)	-- (--)	-- (--)	--		--	4,744-4,773, data values are means of 39 observations.
16N-101W-11dca	.40 (.00098)	-- (--)	-- (--)	-- (--)	--		--	10,744-10,796, data values are means of 52 observations.
17N-103W- 1dc	16 (.038)	-- (--)	-- (--)	-- (--)	15.0	FLD	--	6,403-6,448, data values are means of 45 observations.
17N-112W-27cac	2.1 (.0052)	-- (--)	-- (--)	-- (--)	9.1	FLD	--	12,003-12,060, data values for permeability to air are means of 85 observations. The data value for porosity is a mean of 53 observations.
18N- 90W-11ba	.061 (.00015)	-- (--)	-- (--)	-- (--)	--		--	7,537-7,548, data values are means of 11 observations.
18N-112W-14b	.16 (.00039)	-- (--)	-- (--)	-- (--)	9.8	FLD	--	11,619-11,651, data values are means of 25 observations.
18N-113W-29ddd	.45 (.0011)	-- (--)	-- (--)	-- (--)	5.3	FLD	--	12,126-12,174, data values for permeability to air are means of 36 observations. The data value for porosity is a mean of 20 observations.
19N-112W- 7dbb	.91 (.0022)	-- (--)	-- (--)	-- (--)	9.7	B.L.	--	11,355-11,390, data values for permeability to air are means of 46 observations. The data value for porosity is a mean of 28 observations.
20N-101W-22cca	.80 (.0020)	-- (--)	-- (--)	-- (--)	11.7	FLD	--	7,595-7,660, data values are means of 42 observations.
20N-104W-21d	16 (.040)	-- (--)	-- (--)	-- (--)	15.2	FLD	--	4,168-4,190, data values are means of 22 observations.
20N-105W-18d	.039 (.00010)	-- (--)	-- (--)	-- (--)	4.8	FLD	--	13,106-13,116, data values for permeability to air are means of 14 observations. The data value for porosity is a mean of 9 observations.
20N-112W- 2ca	.64 (.0016)	-- (--)	-- (--)	-- (--)	8.6	FLD	--	11,323-11,406, data values are means of 32 observations.
20N-114W-16abb	.18 (.00045)	-- (--)	-- (--)	-- (--)	--		--	12,154-12,186, data values are means of 47 observations.
21N-103W-15c	.75 (.0018)	-- (--)	-- (--)	-- (--)	13.8	FLD	--	5,270-5,324, data values are means of 38 observations.
21N-112W-13ca	.35 (.00086)	-- (--)	-- (--)	-- (--)	11.3	B.L.	--	11,027-11,085, data values for permeability to air are means of 100 observations. The data value for porosity is a mean of 58 observations.
21N-113W-26abd	.12 (.00030)	-- (--)	-- (--)	-- (--)	5.5	FLD	--	11,400-11,514, data values are means of 73 observations.
21N-114W-13ba	.50 (.0012)	-- (--)	-- (--)	-- (--)	6.0	FLD	--	11,965-12,043, data values are means of 70 observations.
22N-103W-23b	.048 (.00012)	-- (--)	-- (--)	-- (--)	9.0		--	7,002-7,020, data values for permeability to air are means of 12 observations. The data value for porosity is a mean of 13 observations.

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Frontier Sandstone Member of Mancos Shale (211FNR)--Continued								
23N-103W- 6dd	0.087 (0.00021)	0.051 (0.00012)	-- (--)	-- (--)	9.0		--	8,162-8,188, data values for horizontal permeability to air are means of 16 observations. Data values for vertical permeability to air and porosity are means of 18 observations.
	.18 (.00043)	.076 (.00018)	-- (--)	-- (--)	15.0		--	8,287-8,323, data values are means of 37 observations.
24N-113W-11aac	.50 (.0012)	-- (--)	-- (--)	-- (--)	--		--	9,842-9,895, data values are means of 51 observations.
25N-112W- 8ac	.36 (.00089)	-- (--)	-- (--)	-- (--)	13.2	FLD	--	8,252-8,329, data values are means of 45 observations.
25N-113W-13ca	.22 (.00053)	-- (--)	-- (--)	-- (--)	--		--	8,875-8,923, data values are means of 48 observations.
26N-112W-28dc	.18 (.00045)	-- (--)	-- (--)	-- (--)	--		--	7,571-7,640, data values are means of 69 observations.
26N-113W-24cbd	.36 (.00087)	.42 (.0010)	-- (--)	-- (--)	12.0	B.L.	--	7,697-7,707, data values for horizontal permeability to air and porosity are means of 10 observations. Data values for vertical permeability to air are means of 6 observations.
	.13 (.00031)	-- (--)	-- (--)	-- (--)	11.5	B.L.	--	7,964-7,979, data values are means of 15 observations.
SB01110219ABB	1.9 (.0046)	-- (--)	-- (--)	-- (--)	9.0	FLD	--	10,550-10,563, data values are means of 13 observations.
Equivalent of Gallup Sandstone of Mesaverde Group (211GLP)								
NB03301814BB	66 (0.16)	-- (--)	-- (--)	-- (--)	--		--	365-376, data values are means of 11 observations.
NB03301815AA	5.3 (.013)	-- (--)	-- (--)	-- (--)	--		--	362-377, data values are means of 14 observations.
NB03301822DD	480 (1.2)	-- (--)	-- (--)	-- (--)	--		--	381-413, data values are means of 27 observations.
Junction Creek Sandstone of San Rafael Group (224JCK)								
NB03601734BAA	-- (--)	-- (--)	3200 (8.9)	-- (--)	--		3.6	0.0-0.4, data values are means of 4 observations.
Kayenta Formation of Glen Canyon Group (231KYNT)								
(D-22-10) 33bca	-- (--)	-- (--)	-- (--)	-- (--)	25.3		--	10.0-10.4
	1,200 (2.9)	580 (1.4)	500 (1.4)	170 (0.47)	23.4		0.55	10.0-10.4
	-- (--)	-- (--)	-- (--)	-- (--)	16.9		--	4.0-4.4
	1.7 (.0042)	1.2 (.0029)	.30 (.00082)	.30 (.00082)	14.1		.00033	4.0-4.4
(D-23-24) 18bbd	3.4 (.0083)	-- (--)	-- (--)	-- (--)	14.1		--	0.0-0.4
(D-26- 9) 16dbd	-- (--)	-- (--)	98 (.27)	-- (--)	--		.11	0.0-0.4, data values are means of 9 observations.
(?-19) 11ddb	-- (--)	-- (--)	65 (.18)	-- (--)	--		.071	0.0-0.4, data values are means of 8 observations.
(D-35- 9) 29ccb	-- (--)	-- (--)	130 (.34)	-- (--)	--		.14	0.0-0.4, data values are means of 3 observations.
(D-37-20) 13dab	-- (--)	-- (--)	140 (.38)	-- (--)	--		.15	0.0-0.4, data values are means of 9 observations.
(D-40-20) 36cbd	-- (--)	-- (--)	280 (.77)	-- (--)	--		.31	0.0-0.4, data values are means of 6 observations.
08 039-10.72x07.04	-- (--)	-- (--)	300 (.81)	-- (--)	--		.32	0.0-0.4, data values are means of 9 observations.
NB04801729CAB	-- (--)	-- (--)	6.0 (.016)	-- (--)	--		.0066	0.0-0.4, data values are means of 10 observations.
NB04901834CDC	-- (--)	-- (--)	62 (.17)	-- (--)	--		.068	0.0-0.4, data values are means of 10 observations.
SC01210109ADA	-- (--)	-- (--)	280 (.77)	-- (--)	--		.31	0.0-0.4, data values are means of 15 observations.
UB00100232BCC	-- (--)	-- (--)	220 (.60)	-- (--)	--		.24	0.0-0.4, data values are means of 15 observations.

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Lakota Formation in Inyan Kara Group (217LKOT)								
15N-104W-11ba	28 (0.068)	-- (--)	-- (--)	-- (--)	11.2		--	4,216-4,325, data values are means of 16 observations.
15N-104W-36dbc	70 (.17)	-- (--)	-- (--)	-- (--)	--		--	5,262-5,276, data values are means of 7 observations.
Lance Formation (211LNC)								
36N-112W-28cab	0.04 (0.00009)	-- (--)	-- (--)	-- (--)	--		--	10,440-11,821, data values are means of 301 observations.
	.03 (.00007)	-- (--)	-- (--)	-- (--)	--		--	11,969-12,006, data values are means of 35 observations.
	.04 (.00010)	-- (--)	-- (--)	-- (--)	--		--	12,057-12,161, data values are means of 57 observations.
	.08 (.0002)	-- (--)	-- (--)	-- (--)	--		--	12,194-12,364, data values are means of 126 observations.
	.04 (.0001)	-- (--)	-- (--)	-- (--)	--		--	12,428-13,396, data values are means of 339 observations.
Lewis Shale (211LWIS)								
18N- 99W-26cb	46 (0.11)	-- (--)	-- (--)	-- (--)	--		--	4,904-4,945, data values are means of 13 observations.
	7.5 (.018)	-- (--)	-- (--)	-- (--)	--		--	4,984-5,034, data values are means of 49 observations.
21N- 95W-36dbd	.13 (.00033)	-- (--)	-- (--)	-- (--)	8.1	FLD	--	8,295-8,327, data values are means of 32 observations.
22N- 93W-35c	.03 (.00008)	-- (--)	-- (--)	-- (--)	7.1	B.L.	--	10,380-10,388, data values are means of 8 observations.
Lukachukai Member of Wingate Sandstone (231LKCK)								
08 024-01.47x14.20	-- (--)	-- (--)	290 (0.79)	-- (--)	--		0.32	0.0-0.4, data values are means of 5 observations.
09 035-00.42x06.33	-- (--)	-- (--)	340 (.93)	-- (--)	--		.37	0.0-0.4, data values are means of 10 observations.
Mancos Shale (211MNC)								
SB00109912BDD	2.5 (0.0062)	-- (--)	-- (--)	-- (--)	5.4	B.L.	--	11,670-11,789, data values for permeability to air are means of 175 observations. The data value for porosity is a mean of 91 observations.
SC00310016AAC	2.0 (.0050)	-- (--)	-- (--)	-- (--)	--		--	3,840-4,296, data values are means of 105 observations.
Mesaverde Group (211MVRD)								
(D-10-20)18ca	0.79 (0.0019)	-- (--)	-- (--)	-- (--)	7.2	FLD	--	5,402-5,416, data values are means of 13 observations.
	.75 (.0018)	-- (--)	-- (--)	-- (--)	10.4	FLD	--	6,324-6,347, data values for permeability to air are means of 22 observations. The data value for porosity is a mean of 23 observations.
	.38 (.00092)	-- (--)	-- (--)	-- (--)	6.9	FLD	--	8,143-8,158, data values are means of 15 observations.
(D-13-12) 7d	-- (--)	-- (--)	110 (0.31)	-- (--)	--		0.031	0.0-0.1, data values are means of 15 observations.
(D-20-20)33d	-- (--)	-- (--)	440 (1.2)	-- (--)	--		.12	0.0-0.1, data values are means of 17 observations.
(D-24- 5)36aac	-- (--)	-- (--)	660 (1.8)	-- (--)	--		.72	0.0-0.4, data values are means of 12 observations.
(D-27- 9)27abb	-- (--)	-- (--)	240 (.66)	-- (--)	--		.26	0.0-4.0, data values are means of 17 observations.
(D-36- 2)12ccc	-- (--)	-- (--)	1,400 (4.0)	-- (--)	--		1.6	0.0-4.0, data values are means of 15 observations.
04 054-09.15x07.85	-- (--)	-- (--)	5,600 (15)	-- (--)	--		6.2	0.0-0.4, data values are means of 12 observations.
14N- 92W- 8cc	.37 (.00091)	-- (--)	-- (--)	-- (--)	--		--	9,059-9,095, data values are means of 41 observations.
	.30 (.00072)	-- (--)	-- (--)	-- (--)	--		--	9,285-9,297, data values are means of 6 observations.

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Mesaverde Group (211MVRD)—Continued								
17N- 93W-33	0.78 (0.0019)	-- (--)	-- (--)	-- (--)	4.7	B.L.	--	9,015-9,071, data values for permeability to air are means of 56 observations. The data value for porosity is a mean of 56 observations.
17N- 94W- 5cac	.04 (.00010)	-- (--)	-- (--)	-- (--)	8.4	B.L.	--	11,078-11,232, data values are means of 106 observations.
17N- 98W- 7	.07 (.00017)	-- (--)	-- (--)	-- (--)	7.2	B.L.	--	9,445-9,933, data values are means of 204 observations.
18N- 92W- 9d	.29 (.00071)	0.04 (0.00011)	-- (--)	-- (--)	9.6	FLD	--	8,801-8,900, data values for horizontal permeability to air are means of 73 observations. Data values for vertical permeability to air and porosity are means of 41 observations.
	.20 (.00048)	.07 (.00016)	-- (--)	-- (--)	9.6	FLD	--	10,185-10,195, data values for horizontal permeability to air are means of 16 observations. Data values for vertical permeability to air are means of 6 observations. The data value for porosity is a mean of 10 observations.
21N- 90W-19c	.13 (.00032)	-- (--)	-- (--)	-- (--)	3.4	FLD	--	12,042-12,086, data values are means of 32 observations.
21N- 94W- 3cac	.02 (.00004)	-- (--)	-- (--)	-- (--)	3.6	FLD	--	11,413-11,855, data values are means of 242 observations.
21N- 95W-19c	.20 (.00049)	-- (--)	-- (--)	-- (--)	10.7	FLD	--	8,971-9,061, data values are means of 90 observations.
22N- 90W-15cac	.15 (.00037)	-- (--)	-- (--)	-- (--)	5.2	FLD	--	12,080-12,118, data values are means of 38 observations.
NB03501419	-- (--)	-- (--)	160 (0.44)	-- (--)	--		0.044	0.0-0.1, data values are means of 26 observations.
SB00109912BDD	1.5 (.0036)	-- (--)	-- (--)	-- (--)	8.7	B.L.	--	6,259-6,524, data values for permeability to air are means of 201 observations. The data value for porosity is a mean of 120 observations.
SC00310221BBA	28 (.068)	-- (--)	-- (--)	-- (--)	--		--	3,236-3,261, data values are means of 46 observations.
SC00609336AB	.10 (.00023)	-- (--)	-- (--)	-- (--)	--		--	3,637-3,724, data values are means of 62 observations.
	.07 (.00017)	-- (--)	-- (--)	-- (--)	--		--	6,200-6,206, data values are means of 6 observations.
	.02 (.00006)	-- (--)	-- (--)	-- (--)	--		--	6,541-6,544, data values are means of 2 observations.
	.04 (.00010)	-- (--)	-- (--)	-- (--)	--		--	8,203-8,219, data values are means of 16 observations.
	.04 (.00009)	-- (--)	-- (--)	-- (--)	--		--	8,351-8,392, data values are means of 30 observations.
SC00709408AD	.36 (.00088)	-- (--)	-- (--)	-- (--)	--		--	6,205-6,233, data values are means of 28 observations.
SC00809116BA	.14 (.00033)	-- (--)	-- (--)	-- (--)	--		--	4,345-4,350, data values are means of 5 observations.
	.07 (.0002)	-- (--)	-- (--)	-- (--)	--		--	4,360-4,412, data values are means of 50 observations.
SC00809120AB	.02 (.00005)	-- (--)	-- (--)	-- (--)	--		--	5,808-5,885, data values are means of 74 observations.
SC00809123BCC	.05 (.0001)	.01 (.00003)	-- (--)	-- (--)	--		--	4,998-5,236, data values are means of 88 observations.
SC00909101AB	.049 (.00012)	-- (--)	-- (--)	-- (--)	--		--	4,820-4,832, data values are means of 17 observations.
	.07 (.0002)	-- (--)	-- (--)	-- (--)	--		--	4,847-4,852, data values are means of 5 observations.
SC00909632CAA	.08 (.0002)	.09 (.0002)	-- (--)	-- (--)	9.2	B.L.	--	3,883-3,887, data values are means of 4 observations.
	1.3 (.0032)	1.2 (.0028)	-- (--)	-- (--)	9.2	B.L.	--	4,075-4,095, data values are means of 10 observations.

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Moenkopi Formation (234MKNP)								
(D-17-12) 1bba- 1	-- (--)	-- (--)	2.0 (0.0056)	-- (--)	7.7		--	3,126-3,127
08 024-08.18x02.80	-- (--)	-- (--)	1.0 (.0027)	-- (--)	--		0.0011	0.0-0.4
Monitor Butte Member of Chinle Formation (231MNPB)								
09 052-06.65x10.85	-- (--)	-- (--)	-- (0.0027)	-- (--)	--		0.21	0.0-0.4, minimum values
Morapos Sandstone Member of Mancos Shale (211MRPS)								
SB00409715DD	0.28 (0.00069)	-- (--)	-- (--)	-- (--)	--		--	7,977-7,997, data values are means of 20 observations.
SC00310236CCD	24 (.059)	-- (--)	-- (--)	-- (--)	18.4		--	1,239-1,262, data values are means of 21 observations.
SC00410201BDC	14 (.033)	-- (--)	-- (--)	-- (--)	16.7		--	1,190-1,220, data values are means of 27 observations.
SC00410211DD	51 (.12)	-- (--)	-- (--)	-- (--)	16.7		--	1,442-1,445, data values are means of 3 observations.
	8.5 (.021)	-- (--)	-- (--)	-- (--)	18.5		--	1,473-1,482, data values are means of 9 observations.
SC00410212BB	16 (.040)	-- (--)	-- (--)	-- (--)	16.9		--	1,303-1,364, data values are means of 58 observations.
Morrison Formation (221MRSN)								
(D-19-14) 6bdc	570 (1.4)	-- (--)	340 (0.93)	-- (--)	19.1	B.L.	--	
(D-23-20) 3ccd	-- (--)	-- (--)	490 (1.3)	-- (--)	--		0.54	0.0-0.4, data values are means of 2 observations.
(D-24-14) 1baa	-- (--)	-- (--)	3,000 (8.1)	-- (--)	--		3.2	0.0-0.4, data values are means of 21 observations.
(D-28-21) 12cac	-- (--)	-- (--)	290 (.79)	-- (--)	--		.32	0.0-0.4, data values are means of 18 observations.
(D-29- 7) 23caa	-- (--)	-- (--)	4,500 (12)	-- (--)	--		4.9	0.0-0.4, data values are means of 5 observations.
(D-30-11) 5cbb	-- (--)	-- (--)	510 (1.4)	-- (--)	--		.56	0.0-0.4
(D-35- 3) 18baa	-- (--)	-- (--)	720 (2.0)	-- (--)	--		.80	0.0-0.4, data values are means of 13 observations.
(D-37-21) 17aaa	-- (--)	-- (--)	810 (2.2)	-- (--)	--		.89	0.0-0.4, data values are means of 10 observations.
09 035-01.00x06.50	-- (--)	-- (--)	350 (.95)	-- (--)	--		.38	0.0-0.4, data values are means of 16 observations.
NB04701709DAC	-- (--)	-- (--)	150 (.42)	-- (--)	--		.17	0.0-0.4, data values are means of 20 observations.
SB00509613CB	4.0 (.0097)	-- (--)	-- (--)	-- (--)	13.7		--	5,072-5,113, data values are means of 28 observations.
Moss Back Member of Chinle Formation (231MBCK)								
(D-22-13) 35bcc- 1	-- (--)	-- (--)	-- (--)	-- (--)	14.3		--	0.0-0.4
(D-24-11) 35cad- 1	0.042 (0.00010)	-- (--)	-- (--)	-- (--)	8.8	B.L.	--	113-119, data values are means of 6 observations.
	68 (.41)	-- (--)	-- (--)	-- (--)	13.0	B.L.	--	225-306, data values are means of 71 observations.
(D-36-17) 21cad	-- (--)	-- (--)	890 (2.4)	-- (--)	--		0.98	0.0-0.4, data values are means of 7 observations.
Navajo Sandstone of Glen Canyon Group (227NWJO)								
(A-41- 8) 23dcd	8,900 (1.8)	7,300 (7.9)	3,900 (11)	3,600 (9.9)	30.8		48	0.0-4.44
(C-39- 2) 5dc	-- (--)	-- (--)	-- (1.2)	-- (.18)	12.8		--	
	660 (1.6)	430 (1.1)	260 (.72)	170 (.46)	23.2		--	
(D-18-12) 25aac	-- (--)	-- (--)	-- (--)	-- (--)	13.7		--	0.0-0.4

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Navajo Sandstone of Glen Canyon Group (227NWJO)—Continued								
(D-19-10) 13dbd	-- (--)	-- (--)	-- (--)	-- (--)	15.5	--		0.0-0.4
(D-19-11) 17bba	-- (--)	-- (--)	-- (--)	-- (--)	13.3	--		0.0-0.3
	-- (--)	-- (--)	-- (--)	3.9 (0.011)	13.0	--		0.3-0.5
(D-19-11) 19aa	-- (--)	-- (--)	-- (--)	-- (1.3)	15.1	--		0.0-0.4
(D-19-11) 20bca	-- (--)	-- (--)	-- (--)	-- (--)	12.5	--		2.0-4.0
	26 (0.063)	16 (0.039)	14 (0.038)	8.6 (.024)	11.6	0.076		2.0-4.0
(D-20-12) 3cab	-- (--)	1,100 (2.7)	-- (--)	340 (.93)	18.0	--		0.0-0.2
	-- (--)	-- (--)	-- (--)	-- (--)	28.6	--		0.20-0.45
	1,400 (3.5)	1,900 (4.7)	1,000 (2.8)	-- (--)	20.7	2.3		0.9-1.7
	-- (--)	-- (--)	-- (--)	-- (--)	18.1	--		2.05-2.45
	1,900 (4.7)	980 (2.4)	-- (--)	-- (--)	18.5	--		2.45-2.85
	-- (--)	-- (--)	-- (--)	-- (--)	23.1	--		3.5-3.8
	1,400 (3.9)	-- (--)	-- (--)	-- (--)	20.0	--		3.8-4.1
	3,200 (8.7)	-- (--)	-- (--)	-- (--)	20.7	--		3.8-4.1
	3,900 (9.6)	3,400 (8.4)	2,100 (5.8)	-- (--)	20.0	1.7		4.4-4.7
(D-20-13) 15cad	500 (1.2)	-- (--)	69 (.19)	-- (--)	20.6	.076		0.0-0.4
(D-20-13) 15daa- 1	-- (--)	340 (.83)	-- (--)	79 (.22)	19.2	--		0.0-0.2
	-- (--)	-- (--)	-- (--)	-- (--)	21.0	--		0.2-0.5
	1,300 (3.1)	330 (.79)	200 (.55)	-- (--)	22.1	.22		0.5-0.9
(D-22-13) 12aab	-- (--)	-- (--)	-- (--)	-- (--)	15.6	--		0.0-0.4
	-- (--)	1,300 (3.1)	-- (--)	460 (1.3)	19.1	--		0.0-0.4
(D-22-13) 12aba	-- (--)	-- (--)	-- (--)	-- (--)	3.8	--		0.0-0.4
	14 (.034)	13 (.032)	4.6 (.013)	1.5 (.0041)	14.1	.0050		0.0-0.4
(D-22-13) 12abb	-- (--)	-- (--)	-- (--)	-- (--)	10.5	--		0.0-0.4
	.03 (.00007)	.01 (.00002)	.01 (.00003)	.01 (.00003)	3.6	.00001		0.0-0.4
	-- (--)	-- (--)	-- (--)	-- (--)	19.8	--		0.0-0.4
(D-22-13) 35bdc	-- (--)	-- (--)	-- (--)	-- (--)	21.2	--		0.0-0.4
	-- (--)	-- (--)	330 (.91)	-- (--)	20.7	--		
(D-23- 9) 3bda	-- (--)	-- (--)	-- (--)	-- (--)	27.4	--		10.0-10.4
	1,100 (2.8)	860 (2.1)	660 (1.8)	430 (1.2)	26.8	.72		10.0-10.4

Table 5.—Hydrologic properties from laboratory analysis of rock samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Navajo Sandstone of Glen Canyon Group (227WJO)—Continued								
(D-23-13) 27bcc	— (—)	2.6 (0.0063)	— (—)	42 (0.11)	15.8	—	0.0-0.2	
	— (—)	— (—)	— (—)	— (—)	17.6	—	0.20-0.45	
	180 (0.43)	120 (.29)	— (—)	— (—)	17.5	—	0.45-0.90	
	— (—)	— (—)	— (—)	— (—)	22.0	—	2.7-3.0	
	1,500 (3.7)	280 (.70)	560 (1.5)	6 (—)	21.2	0.62	3.0-3.4	
(D-23-13) 28add	— (—)	— (—)	— (—)	— (—)	19.9	—	0.0-0.4	
(D-23-23) 27cc	— (—)	— (—)	— (—)	— (.83)	14.3	—	0.0-0.4	
(D-24-12) 35bcd	— (—)	— (—)	— (—)	620 (1.7)	24.3	—	0.0-1.0	
	— (—)	310 (.76)	— (—)	— (—)	16.5	—	1.0-1.4	
	— (—)	980 (2.4)	— (—)	— (—)	16.4	—	2.7-3.2	
	— (—)	690 (1.7)	— (—)	— (—)	15.9	—	3.2-3.5	
	— (—)	1,000 (2.4)	— (—)	— (—)	12.7	—	0.0-1.0	
	— (—)	950 (2.3)	— (—)	— (—)	14.1	—	1.0-2.0	
	— (—)	380 (.94)	— (—)	— (—)	14.6	—	2.0-3.0	
	— (—)	— (—)	2,130 (.58)	20 (.055)	20.9	.53	3.0-3.9	
(D-24-12) 35cbd	— (—)	— (—)	— (—)	570 (1.6)	26.8	—	0.0-1.0	
	— (—)	— (—)	250 (.70)	32 (.089)	—	.42	3.0-3.6	
	— (—)	— (—)	— (—)	530 (1.5)	25.2	—	0.0-0.1	
	— (—)	— (—)	120 (.34)	98 (.27)	21.3	.30	0.1-1.0	
	260 (.64)	220 (.54)	— (—)	— (—)	24.3	—	1.0-2.0	
(D-24-16) 12bcb	— (—)	— (—)	— (—)	— (—)	13.4	—	0.0-0.4	
	— (—)	7.09 (.017)	— (—)	— (—)	14.3	—		
(D-24-16) 15dbb	— (—)	480 (1.2)	— (—)	280 (.75)	21.3	—	0.0-0.4	
	— (—)	— (—)	— (—)	— (—)	23.0	—	0.4-0.9	
	550 (1.3)	500 (1.2)	190 (.52)	— (—)	21.4	.21	1.5-1.9	
(D-24-18) 31aca	470 (1.2)	— (—)	— (—)	— (—)	18.0	—	0.0-0.4	
(D-26- 9) 21aab	— (—)	— (—)	810 (2.2)	— (—)	—	.89	0.0-0.4, data values are means of 10 observations.	
(D-27- 4) 36dca	— (—)	— (—)	— (—)	— (—)	34.9	—	0.0-0.4	
(D-27-19) 3baa	— (—)	— (—)	230 (.64)	— (—)	—	.26	0.0-0.4, data values are means of 5 observations.	
(D-28- 7) 27cdb- 1	— (—)	— (—)	260 (.70)	— (—)	23.0	.14	2,346.3-2,346.5	
	— (—)	— (—)	320 (.89)	— (—)	22.8	.27	2,348.2-2,348.5	
	— (—)	— (—)	210 (.56)	— (—)	21.9	.11	2,350.0-2,350.2	

Table 5.—Hydrologic properties from laboratory analysis of rock Samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Navajo Sandstone of Glen Canyon Group (227NWJO)—Continued								
(D-28- 7)27cdb- 1	-- (--)	-- (--)	280 (0.78)	190 (0.52)	20.5		0.23	2,350.2-2,350.5
	-- (--)	-- (--)	150 (.41)	190 (.52)	20.7		--	2,350.2-2,350.5
(D-28- 8)33bbb- 1	-- (--)	-- (--)	900 (2.5)	-- (--)	25.9		.74	831.5-831.8
	-- (--)	-- (--)	120 (.33)	62 (.17)	20.4		.16	834.7-835.2
	-- (--)	-- (--)	170 (.47)	44 (.12)	20.4		.24	834.7-835.2
	-- (--)	-- (--)	380 (1.0)	-- (--)	24.3		.21	852.1-852.3
	-- (--)	-- (--)	510 (1.4)	-- (--)	25.0		.42	858.2-858.5
	-- (--)	-- (--)	510 (1.4)	-- (--)	25.9		.42	1,137.5-1,137.8
	-- (--)	-- (--)	62 (.17)	24 (.067)	22.3		.10	1,139.7-1,140.3
	-- (--)	-- (--)	170 (.45)	160 (.43)	22.3		.27	1,139.7-1,140.3
	-- (--)	-- (--)	290 (.78)	-- (--)	22.0		.24	1,145.6-1,145.9
	-- (--)	-- (--)	240 (.66)	-- (--)	23.1		.20	1,150.7-1,151.0
	-- (--)	-- (--)	150 (.40)	-- (--)	24.1		.16	1,465.4-1,465.8
	-- (--)	-- (--)	5.3 (.015)	13 (.035)	22.5		.0073	1,476.3-1,476.8
	-- (--)	-- (--)	140 (.38)	90 (.25)	22.5		.19	1,476.3-1,476.8
	-- (--)	-- (--)	200 (.55)	-- (--)	24.7		.11	1,478.7-1,478.9
	-- (--)	-- (--)	160 (.43)	-- (--)	25.2		.085	1,483.6-1,483.8
(D-29-33) 6bdc	-- (--)	-- (--)	-- (--)	-- (.24)	13.8		--	0.0-0.4
(D-31- 7)28ddb	-- (--)	-- (--)	-- (--)	400 (1.1)	26.1		--	0.0-1.0
	-- (--)	-- (--)	2.9 (.0079)	7.8 (.021)	--		.0071	3.0-3.9
(D-31- 9)26cab	-- (--)	-- (--)	600 (1.6)	-- (--)	--		.66	0.0-0.4, data values are means of 14 observations.
(D-32-22)23bba	270 (0.65)	-- (--)	-- (--)	-- (--)	27.1		--	0.0-0.4
(D-34- 3)32ac	-- (--)	-- (--)	-- (--)	-- (1.7)	13.9		--	
	-- (--)	1,100 (2.6)	-- (--)	560 (1.5)	20.9		--	
(D-34- 8)15bcc	-- (--)	-- (--)	-- (2.7)	-- (.91)	17.4		1.1	0.0-0.4
(D-34- 8)16add	-- (--)	-- (--)	-- (--)	-- (.91)	14.0		--	0.0-0.4
(D-34- 8)16dad	-- (--)	-- (--)	.82 (.0022)	.41 (.0011)	16.1		.00090	0.0-0.4
(D-35- 3)20ccc	-- (--)	-- (--)	120 (3.1)	-- (--)	--		1.2	0.0-0.4, data values are means of 10 observations.
(D-35- 4) 1da	-- (--)	-- (--)	-- (.88)	-- (.46)	14.2		--	
	630 (1.5)	310 (.75)	160 (.43)	90 (.25)	25.6		--	
(D-36- 6)18bbb- 1	3,000 (7.4)	-- (--)	1,900 (5.2)	-- (--)	26.5		27	0.0-5.2
(D-37-20)13adb	-- (--)	-- (--)	520 (1.4)	-- (--)	--		.58	0.0-0.4, data values are means of 5 observations.

Table 5.— Hydrologic properties from laboratory analysis of rock Samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Navajo Sandstone of Glen Canyon Group (227NWJO)—Continued								
(D-39- 8) 23ac	2,200 (5.5)	2,700 (6.5)	870 (2.4)	860 (2.4)	28.3		17	0.0-7.1
(D-40-21) 31bcc	-- (--)	-- (--)	400 (1.1)	-- (--)	--		.44	0.0-0.4, data values are means of 13 observations.
08 039-10.53x07.17	-- (--)	-- (--)	340 (.93)	-- (--)	--		.372	0.0-0.4, data values are means of 6 observations.
NB03601827DCC	-- (--)	-- (--)	180 (.49)	-- (--)	--		.195	0.0-0.4, data values are means of 8 observations.
NB04601708DDC	-- (--)	-- (--)	360 (1.0)	-- (--)	--		.40	0.0-0.4, data values are means of 7 observations.
R(D-25-17)14abc	1,500 (3.7)	-- (--)	-- (--)	-- (--)	25.0		--	0.0-0.4
U(C- 1- 8) 4dac	-- (--)	-- (--)	.82 (.0022)	-- (--)	22.1		.00090	0.0-0.4
Nugget Sandstone (220NGGT)								
(D- 3-22) 5dcb	-- (--)	-- (--)	24 (0.066)	1.9 (0.0052)	21.4		0.026	0.0-0.4
(D- 6-24) 5cdb	-- (--)	-- (--)	-- (1.4)	-- (--)	--		.56	0.0-0.4
15N-104W-11ba	64 (0.16)	-- (--)	-- (--)	-- (--)	10.7		--	5,020-5,032, data values are means of 5 observations.
15N-104W-36dbc	100 (.25)	-- (--)	-- (--)	-- (--)	--		--	6,101-6,119, data values are means of 10 observations.
15N-119W- 6bdb	53 (.13)	-- (--)	-- (--)	-- (--)	16.0	FLD	--	9,734-9,884, data values are means of 150 observations.
18N- 98W-21db	.094 (.00023)	.054 (.00013)	-- (--)	-- (--)	2.8	FLD	--	15,834-15,897, data values for horizontal permeability to air and porosity are means of 34 observations. Data values for vertical permeability to air are means of 27 observations.
18N-118W- 5dd	88 (.21)	-- (--)	-- (--)	-- (--)	11.9	FLD	--	9,564-9,606, data values for permeability to air are means of 61 observations. The data value for porosity is a mean of 42 observations.
21N-118W- 6cda	.09 (.0002)	-- (--)	.01 (.00003)	-- (--)	--		--	
21N-118N- 6dca	.40 (.00098)	.090 (.00022)	.050 (.00014)	.010 (.000027)	10.0	B.L.	--	
28N-114W-11aab	7.4 (.018)	-- (--)	-- (--)	-- (--)	--		--	9,987-10,013, data values are means of 14 observations.
28N-114W-12cbd	4.3 (.010)	-- (--)	-- (--)	-- (--)	--		--	9,879-9,891, data values are means of 12 observations.
NB04301901DBC	.090 (.00022)	-- (--)	.010 (.000027)	-- (--)	9.8	B.L.	--	
SB01110219ABB	.012 (.000029)	-- (--)	-- (--)	-- (--)	1.8	FLD	--	12,535-12,563, data values are means of 20 observations.
Point Lookout Sandstone Member of Mesaverde Group (211PNLR)								
NB03501026DCC	2.3 (0.0056)	-- (--)	-- (--)	-- (--)	13.9		--	0.0-0.4
Salt Wash Member of Morrison Formation (221SLWS)								
(D-22- 8) 8cab	4.0 (0.0098)	-- (--)	11 (0.030)	-- (--)	6.8	B.L.	--	
(D-22-15) 36cdd	540 (1.3)	-- (--)	270 (.75)	-- (--)	16.5	B.L.	--	
(D-23-24) 5ddb	16 (.039)	-- (--)	2.0 (.0055)	-- (--)	11.8	B.L.	--	
(D-24-20) 27bdd	1,300 (3.2)	-- (--)	930 (2.5)	-- (--)	24.6	B.L.	--	
(D-28-11) 18aac	160 (.40)	-- (--)	63 (.17)	-- (--)	13.4	B.L.	--	
(D-29- 7) 36ddb	120 (.30)	-- (--)	20 (.055)	-- (--)	6.4	B.L.	--	
(D-32- 8) 18aca	16 (.039)	-- (--)	1.3 (.0036)	-- (--)	3.7	B.L.	--	

Table 5.—Hydrologic properties from laboratory analysis of rock Samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipose (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Salt Wash Member of Morrison Formation (221SLWS)—Continued								
08 039-07.30x04.28	— (—)	— (—)	540 (1.5)	— (—)	—		0.59	0.0-0.4, data values are means of 4 observations.
NB03601713DBB	— (—)	— (—)	260 (.72)	— (—)	—		.29	0.0-0.4, data values are means of 10 observations.
NB04301901DBC	31 (0.076)	26 (0.063)	6.1 (0.017)	2.9 (0.0080)	14.1	B.L.	—	
NB04801824DDC	— (—)	— (—)	270 (.74)	— (—)	—		.30	0.0-0.4, data values are means of 26 observations.
SC01110130DDB	— (—)	— (—)	850 (2.3)	— (—)	—		.93	0.0-0.4, data values are means of 15 observations.
SC01110236ADA	— (—)	— (—)	600 (1.6)	— (—)	—		.66	0.0-0.4, data values are means of 15 observations.
UB00100233CDA	.61 (.0015)	— (—)	.010 (.000027)	— (—)	16.8	B.L.	—	
Shinarump Member of Chinle Formation (231SRMP)								
(D-24-13)23cd	4.9 (0.012)	— (—)	— (—)	— (—)	7.7	B.L.	—	2,083-2,119, data values are means of 29 observations.
(D-25-13)12bac- 1	.82 (.0020)	— (—)	— (—)	— (—)	6.1	B.L.	—	1,876-1,935, data values are means of 34 observations.
(D-30- 6) 9aaa	— (—)	— (—)	280 (0.77)	— (—)	—		0.31	0.0-0.4, data values are means of 10 observations.
(D-36-17)21cad	— (—)	— (—)	280 (.77)	— (—)	—		.31	0.0-0.4, data values are means of 10 observations.
08 024-08.00x02.65	— (—)	— (—)	960 (2.6)	— (—)	—		1.0	0.0-0.4, data values are means of 10 observations.
Sinbad Limestone Member of Moenkopi Formation (237SNBD)								
(D-17-12) 1bba- 1	— (—)	— (—)	— (—)	— (—)	8.3		—	3,128-3,129
	— (—)	— (—)	— (—)	— (—)	7.1		—	3,130-3,131
	— (—)	— (—)	— (—)	— (—)	5.5		—	3,134-3,135
	— (—)	— (—)	— (—)	— (—)	4.0		—	3,135-3,136
Slick Rock Member of Entrada Sandstone (224SKRK)								
(D-23-24) 8cbb	2,200 (5.4)	— (—)	— (—)	— (—)	25.1		—	0.0-0.4
T(D-29-23)35ccd	460 (1.1)	— (—)	— (—)	— (—)	22.2		—	0.0-0.4
Star Point Sandstone of Mesaverde Group (211SRPN)								
(D-17- 6)27bda- 1	190 (0.45)	100 (0.24)	130 (0.35)	46 (0.13)	17.0	B.L.	—	Sample depth 2,466
	110 (.28)	51 (.12)	63 (.17)	27 (.074)	14.2	B.L.	—	Sample depth 2,493
(D-17- 7)27bbc- 1	8.1 (.020)	37 (.090)	2.6 (.0071)	17 (.047)	15.6	B.L.	—	Sample taken 0 feet below the Hiawatha coal bed.
	170 (.42)	14 (.034)	95 (.0027)	3.0 (.0082)	20.4	B.L.	—	Sample taken 0 feet below the Hiawatha coal bed.
	35 (.085)	24 (.059)	14 (.038)	12 (.033)	17.8	B.L.	—	Sample taken 25 feet below the Hiawatha coal bed.
	.74 (.0018)	.42 (.0010)	.15 (.00041)	.10 (.00027)	12.6	B.L.	—	Sample taken 50 feet below the Hiawatha coal bed.
	.01 (.00002)	.015 (.000037)	.00030 (.0000080)	.011 (.000030)	6.6	B.L.	—	Sample taken 100 feet below the Hiawatha coal bed.
	.03 (.00007)	.01 (.00002)	.01 (.00003)	.00019 (.0000050)	6.7	B.L.	—	Sample taken 150 feet below the Hiawatha coal bed.
Summerville Formation of San Rafael Group (224SMVL)								
(D-19-21)29dda- 1	0.10 (0.00024)	0.10 (0.00024)	— (—)	— (—)	—		—	4,566-4,567

Table 5.—Hydrologic properties from laboratory analysis of rock Samples—Continued

Site number	Permeability to air, in millidarcies (feet per day at 60°F)		Hydraulic conductivity in millidarcies per centipoise (feet per day)		Effective porosity (percent)	Porosity method	Transmis- sivity (feet squared per day)	Remarks
	Horizontal	Vertical	Horizontal	Vertical				
Sundance Formation (221SND)								
SB00509613CB	170 (0.41)	-- (--)	-- (--)	-- (--)	17.6		--	5,255-5,266, data values are means of 11 observations.
26N- 87W-29ccc	2.6 (.0064)	-- (--)	-- (--)	-- (--)	6.8		--	2,653-2,762, data values are means of 97 observations.
Thaynes Formation (237TYNS)								
17N-119W-18bdb	0.15 (0.00038)	-- (--)	-- (--)	-- (--)	0.79	B.L.	--	9,038-9,085, data values are means of 40 observations.
	.005 (.000013)	-- (--)	-- (--)	-- (--)	1.2	B.L.	--	9,450-9,477, data values are means of 27 observations.
	.01 (.000024)	-- (--)	-- (--)	-- (--)	.57	B.L.	--	9,480-9,510, data values are means of 29 observations.
Westwater Canyon Member of Morrison Formation (221WSRC)								
NB03501606CCD	-- (--)	-- (--)	590 (1.6)	-- (--)	--		0.66	0.0-0.4, data values are means of 7 observations.
Wingate Sandstone of Glen Canyon Group (231WNGT)								
(D-19-11)33bbd	-- (--)	-- (--)	-- (--)	-- (--)	19.4		--	0.0-0.4
(D-22-13) 1cdd	-- (--)	-- (--)	-- (--)	-- (--)	20.0		--	0.0-0.4
	560 (1.4)	290 (0.71)	340 (0.93)	150 (0.41)	24.8		0.37	0.0-0.4
(D-22-13)35bcc	-- (--)	-- (--)	-- (--)	-- (--)	15.0		--	0.0-0.4
(D-23-10) 9bbd	-- (--)	-- (--)	-- (--)	-- (--)	29.7		--	0.0-0.4
(D-23-24)29bbc	4.2 (.010)	-- (--)	-- (--)	-- (--)	11.1		--	0.0-0.4
(D-26- 9)16cbd	-- (--)	-- (--)	68 (.18)	-- (--)	--		.074	0.0-0.4, data values are means of 3 observations.
(D-27-20)12ccc	-- (--)	-- (--)	220 (.60)	-- (--)	--		.24	0.0-0.4, data values are means of 7 observations.
(D-30- 6)35cdd	-- (--)	-- (--)	130 (.34)	-- (--)	--		.14	0.0-0.4, data values are means of 3 observations.
(D-34- 5)12abc- 1	28 (3.1)	820 (2.0)	510 (1.4)	110 (.30)	31.4		7.0	0.0-5.0
(D-34- 8)16dca	-- (--)	-- (--)	18 (.048)	4.1 (.011)	24.1		.019	0.0-0.4
(D-36- 7) 7aba	120 (.29)	68 (.17)	48 (.13)	16 (.044)	20.4		.013	0.0-0.1
(D-37-20)13daa	-- (--)	-- (--)	120 (.32)	-- (--)	--		.13	0.0-0.4, data values are means of 6 observations.
(D-40-20)36ccb	-- (--)	-- (--)	63 (.17)	-- (--)	--		.069	0.0-0.4, data values are means of 5 observations.
NB04801730ACD	-- (--)	-- (--)	81 (.22)	-- (--)	--		.089	0.0-0.4, data values are means of 12 observations.
NB04801805AAB	-- (--)	-- (--)	96 (.26)	-- (--)	--		.10	0.0-0.4, data values are means of 12 observations.
UB00100232CBD	-- (--)	-- (--)	150 (.42)	-- (--)	--		.17	0.0-0.4, data values are means of 12 observations.
UC00100131ADA	-- (--)	-- (--)	460 (1.2)	-- (--)	--		.50	0.0-0.4, data values are means of 12 observations.
Winsor Member of Carmel Formation (224WNSR)								
(D-36- 3)27dcd	-- (--)	-- (--)	430 (1.2)	-- (--)	--		0.47	0.0-0.4, data values are means of 7 observations.

Table 6.—Grain-size distribution and percent carbonate in rock samples

Site number: See text for explanation of site-numbering systems.
 Sorting coefficient = $\{[(d84 - d16) / 4] + [(d95 - d5) / 6.6]\}$, where d is the grain diameter, in millimeters, inclusive graphic standard deviation (Folk, 1974, p. 46). The sorting improves as the sorting coefficient increases and approaches 1.
 Percent carbonate: Inorganic carbonate (calcium carbonate) expressed as percent of sample by weight.

Site number	Depth (feet below land surface)	Wentworth grain-size classification (Wentworth, 1922)						Median grain-size (millimeters)	Sorting coefficient	Percent carbonate	
		Grain-size analysis									
		0.0625	0.125	0.250	0.50	1.0	2.0				4.0
Adaville Formation (211ADVL)											
15N-118W-17bab	--	--	6.2	16.2	92.2	95.0	97.6	100	0.34	0.616	--
Almond Formation of Mesaverde Group (211ALMD)											
19N-105W-27aca	--	11.5	35.0	77.9	86.7	94.1	100		0.16	0.407	--
Bluff Sandstone Member of Morrison Formation (221BLFF)											
(D-40-22)19abd	--	9.6	29.9	86.7	98.8	99.8	100		0.16	0.554	--
Castlegate Sandstone of Mesaverde Group (211CSLG)											
(D- 6-25)25aab	--	19.8	42.9	63.0	73.0	88.6	100		0.16	0.299	24.4
Curtis Formation of San Rafael Group (224CRTS)											
SB00410031BCD	--	3.9	7.9	85.8	96.8	98.9	100		0.18	0.657	--
Dakota Sandstone (211DKOT)											
(D- 3-21)35adb	0.20	2.7	8.7	36.8	97.2	99.8	100		0.29	0.586	--
Entrada Sandstone of San Rafael Group (224ENRD)											
(D- 3-22)10bda- 1	--	8.9	47.0	84.2	96.4	98.6	100		0.13	0.534	1.9
(D- 5-24) 4cdc	--	1.4	57.2	98.3	99.1	99.9	100		.11	.647	1.9
(D-23-13)24add	0.20	6.1	11.8	52.6	96.8	100			.24	.538	--
(D-34-12) 3dda	--	8.0	64.5	95.2	98.9	99.8	100		.10	.623	8.2
(D-35-10)35cab	--	10.2	68.5	94.2	96.8	98.4	100		.10	.599	7.4
NB03500909AAB	--	10.8	50.0	79.7	89.1	94.2	99.0	100	.12	.426	--
SB00410031BCD	--	7.4	68.2	89.2	92.7	96.8	100		.10	.518	--
SC00109314BCD	--	16.2	73.2	91.9	93.7	96.8	100		.094	.520	.50
SC00409234CAA	--	7.7	53.9	85.7	92.1	97.6	100		.12	.505	--
SC00509115DDD	--	4.0	23.1	91.9	97.7	99.1	100		.16	.620	--
Frontier Sandstone Member of Mancos Shale (211FRNR)											
(A- 2-20) 6aaa	--	19.3	66.5	79.7	85.2	92.9	100		0.10	0.377	--
Gartra Member of Chinle Formation (231GRTR)											
(D- 4-24)35dcc	--	3.3	8.7	21.8	51.7	93.5	100		0.48	0.451	--
Glen Canyon Sandstone (227GLNC)											
(A- 2-20) 6cdd	--	2.7	21.5	95.8	98.7	99.6	100		0.16	0.676	0.08
	--	7.7	56.3	89.2	94.1	97.3	100		.11	.527	.08
(D- 3-20)25ddd	--	11.6	57.7	89.8	94.2	97.9	100		.11	.522	--
(D- 5-24) 2cca	--	8.8	56.3	73.6	81.4	90.8	100		.11	.362	--
(D- 5-24) 3bac	--	1.8	29.6	93.5	96.5	98.8	100		.16	.617	--
(D- 5-24) 3daa	--	.72	20.0	88.7	92.0	96.0	100		.48	.567	.08
SB00410030ABC	--	4.9	30.6	79.9	84.4	92.0	100		.16	.411	.08
SC00109314BDC	--	7.4	65.3	88.5	91.6	96.0	100		.10	.502	.42
SC00109314CAA	--	14.5	41.5	73.6	86.4	93.4	100		.15	.383	2.5
SC00409234BDD	--	11.8	36.7	87.8	92.6	97.2	100		.15	.495	2.7
SC00509115DDD	--	4.1	33.7	71.2	96.0	99.3	100		.17	.509	2.5
Junction Creek Sandstone of San Rafael Group (224JOCK)											
NB03500904DCA02	--	3.3	15.6	67.8	80.6	90.7	100		0.20	0.579	--
Kayenta Formation of Glen Canyon Group (231KYNT)											
(D-22-10)33bca	10.2	6.5	23.06	94.8	100				0.16	0.626	2.3
	4.2	43.0	95.9	100					.068	.175	1.4
(D-25-16) 8ca	--	10.8	25.2	76.1	84.3	96.5	100		.17	.407	--
(D-39-13) 1adc	5.4	3.4	13.2	95.2	98.1	99.0	100		.17	.714	.17
SC01210125AAD	--	8.0	34.3	90.4	93.3	96.2	100		.15	.515	2.0
Mesaverde Group (211MVRD)											
12N- 89W- 5dbd	--	31.3	34.2	89.9	98.0	99.5	100		0.15	0.089	0.07
Moab Member of Entrada Sandstone (224MOAB)											
SC01210030CBC	--	6.9	44.9	90.3	93.9	97.6	100		0.13	0.531	5.8
Moenave Formation of Glen Canyon Group (231MONV)											
(C-43- 5)24abd	0.20	1.0	15.0	99.0	100				0.17	0.730	--
(C-43- 6)15bcd	.20	13.0	77.0	99.0	100				.093	.654	--
Moss Back Member of Chinle Formation (231MBCK)											
(D-22-13)35bcc	0.20	1.7	12.9	76.3	99.9	100			0.19	0.616	0.08

Table 6.—Grain-size distribution and percent carbonate in rock samples—Continued

Site number	Depth (feet below land surface)	Wentworth grain-size classification (Wentworth, 1922)							Median grain-size (millimeters)	Sorting coefficient	Percent carbonate
		Grain-size analysis									
		percent finer than (millimeters)									
0.0625	0.125	0.250	0.50	1.0	2.0	4.0					
Navajo Sandstone of Glen Canyon Group (227NWJO)											
(C-39- 2) 5dc	—	1.0	48.3	88.6	99.6	100		0.13	0.649	—	
(C-39-13)28ccc	—	—	11.5	51.0	99.0	100		.25	.630	—	
(C-41- 5) 13bcc	0.20	2.1	28.0	91.0	100			.16	.619	—	
(C-41- 5) 24dba	—	.50	32.0	93.5	100			.15	.689	—	
(C-41- 8) 25dda	.20	1.0	6.0	38.0	99.0	100		.29	.622	—	
(C-41- 9) 19bdd	—	1.5	38.0	89.5	100			.14	.651	—	
—	—	2.5	38.0	90.5	100			.14	.642	—	
(C-41-15) 33ccd	—	—	11.0	95.0	100			.18	.783	—	
(C-41-16) 9bdc	—	1.5	45.5	98.0	100			.13	.707	—	
(C-41-16) 34bbd	—	1.5	54.5	96.0	100			.12	.716	—	
(C-41-17) 5aaa	—	—	27.5	77.0	100			.17	.624	—	
(C-41-17) 5abb	—	—	28.5	90.5	100			.16	.708	—	
(C-41-17) 8acc	—	.50	18.5	83.5	100			.18	.685	—	
(C-42- 5) 2cdc	.20	—	1.0	7.0	98.0	100		.35	.766	—	
(C-42- 5) 23bbb	.20	2.0	33.0	87.0	100			.15	.593	—	
(C-42- 5) 26ccc	.20	2.0	55.0	98.0	100			.12	.643	—	
(C-42- 6) 19cdb	—	—	20.5	81.5	100			.18	.669	—	
(C-42- 6) 30abb	.20	1.0	15.0	100				.17	.732	—	
(C-42- 6) 31dac	.20	13.0	44.0	65.0	98.0	100		.15	.467	—	
(C-42- 7) 3cba	—	.50	43.5	92.0	100			.14	.677	—	
(C-42- 7) 4dda	—	.50	42.0	100				.13	.749	—	
(C-42- 7) 10bdd	.20	2.0	35.0	96.0	100			.15	.645	—	
(C-42-14) 14abb	—	—	14.5	86.5	100			.18	.709	—	
(C-42-15) 18bdc	—	17.5	88.0	98.5	100			.085	.686	—	
(C-42-16) 2ddc	—	—	12.0	95.0	100			.18	.778	—	
(C-43- 1) 23bab	—	3.5	59.0	99.5	100			.12	.749	—	
(C-43- 5) 13dcc	—	16.5	99.0	100				.081	.799	—	
(D- 3-22) 5dcb	.20	13.4	48.5	98.4	100			.13	.599	—	
(D-34- 5) 30ccc	—	1.0	33.5	96.0	100			.14	.704	—	
(D-18-12) 25aac	.20	2.2	18.5	66.4	98.0	100		.20	.558	2.4	
(D-19-10) 13dbd	.20	2.2	29.6	99.0	100			.15	.660	.0	
(D-19-11) 17bba	.25	5.2	39.4	91.9	99.7	100		.14	.593	.67	
(D-19-11) 19aa	—	—	12.0	86.0	100			.18	.734	—	
(D-19-11) 33bbd	.20	3.3	31.9	79.8	100			.16	.555	.0	
(D-19-12) 30bba	50	2.8	3.4	27.5	99.8	100		.31	.661	—	
60	6.4	35.5	72.5	98.8	100			.16	.512	—	
100	19.4	46.2	64.4	99.7	100			.14	.201	—	
140	26.5	59.8	79.7	97.6	100			.10	.204	—	
180	6.9	48.3	90.2	99.7	100			.13	.576	—	
210	31.9	69.7	95.7	99.9	100			.087	.205	—	
220	8.8	49.6	91.0	99.5	100			.13	.573	—	
260	29.8	63.3	92.8	99.7	100			.095	.203	—	
300	33.4	79.1	96.8	99.9	100			.080	.225	—	
340	29.6	90.1	99.4	99.7	100			.079	.290	—	
380	31.3	70.6	99.0	100				.087	.264	—	
420	28.6	82.1	99.1	100				.082	.345	—	
450	39.4	81.5	98.9	100				.074	.192	—	
500	48.9	83.2	97.1	99.8	100			.064	.188	—	
(D-20-12) 3cab	.10	1.9	17.8	45.4	94.9	100		.27	.651	.08	
—	.10	.70	5.5	23.3	97.7	100		.32	.651	.08	
—	2.25	1.3	19.0	47.0	98.6	100		.26	.542	.0	
—	3.65	1.5	8.2	45.8	99.0	100		.26	.598	.0	
(D-20-13) 15cad	.20	7.9	52.6	90.2	100			.12	.562	.25	
(D-20-13) 15daa- 1	.35	2.5	20.8	94.3	100			.16	.668	.0	
—	1.0	2.6	13.0	90.9	99.9	100		.17	.680	.0	
(D-21- 9) 15add	.20	6.2	51.0	90.0	99.0	100		.12	.575	2.3	
(D-21- 9) 15dda	.20	3.5	48.0	99.0	100			.13	.641	.17	
(D-22-13) 12aab	.20	6.4	24.9	66.6	99.8	100		.19	.323	1.5	
(D-22-13) 12aba	.20	9.7	39.9	99.6	99.9	100		.14	.537	.17	
(D-22-13) 12abb	.20	44.3	93.6	99.8	100			.068	.355	.40	
—	.20	12.7	38.7	82.1	100			.15	.355	.40	
(D-22-18) 35bdc	.20	2.4	—	88.4	100			.13	.615	.08	
(D-23- 9) 3bda	10.2	6.9	58.7	98.9	100			.11	.622	1.8	
(D-23- 9) 3bdb	—	1.1	20.4	58.4	99.9	100		.21	.206	—	
(D-23-13) 27bcc	.32	17.7	76.8	96.6	99.9	100		.091	.373	.0	
—	2.85	4.4	34.7	93.9	100			.15	.620	.33	
(D-23-13) 28add	.20	7.0	39.1	81.8	99.4	99.9	100	.15	.532	2.7	
(D-23-23) 27cc	—	2.0	45.5	96.0	100			.11	.675	—	
(D-23-24) 18bcc	—	13.2	39.4	77.9	85.9	93.8	100	.15	.393	—	
(D-24-12) 35bcd	.50	4.5	84.5	85.0	100			.093	.653	.0	
—	3.5	3.8	21.8	64.8	99.8	100		.20	.538	.0	
(D-24-12) 35cbd	.50	5.3	43.7	97.5	99.9	100		.14	.631	.0	
—	1.5	7.2	76.0	100				.10	.670	.0	
(D-24-14) 32aac	—	3.4	13.6	55.4	97.9	100		.23	.228	—	
(D-24-16) 12bcb	.20	4.2	35.3	96.2	100			.15	.636	.92	
(D-24-16) 15dbb	.65	4.6	47.4	93.5	99.8	100		.13	.607	.50	
—	3.05	10.1	51.5	91.3	99.7	100		.12	.256	.0	
(D-27- 4) 36dca	.20	3.6	69.6	99.6	100			.10	.660	.0	
(D-28- 7) 27cdb- 1	350.35	7.2	48.0	94.1	99.8	100		.13	.241	.0	
(D-28- 8) 33bbb- 1	139.50	6.5	64.1	99.3	100			.10	.642	—	
—	476.50	12.6	66.1	99.5	100			.10	.627	—	
—	834.95	4.9	36.6	76.4	99.7	99.9	100	.17	.509	—	
(D-29-33) 6bdc	—	.50	40.5	92.0	100			.15	.686	—	
(D-31- 7) 28bdb	.20	1.4	6.9	69.9	99.9	100		.20	.632	.0	
—	.50	4.0	13.6	39.6	85.6	100		.29	.498	.0	
(D-32-12) 14dab	—	2.4	20.5	98.8	99.4	99.9	100	.16	.688	.17	
(D-32-13) 19bdc	—	5.2	67.2	98.9	99.2	99.8	100	.10	.649	.08	
(D-34- 3) 32ac	—	—	25.0	93.5	100			.15	.719	—	
(D-34- 8) 15bcc	—	.50	18.0	85.5	100			.17	.692	—	
(D-34- 8) 16add	—	1.0	50.5	100				.12	.756	—	
(D-34- 8) 16dad	.20	30.6	84.9	95.6	99.7	100		.080	.285	17.8	
(D-34- 8) 16dca	.20	27.4	77.2	99.2	99.8	100		.086	.274	4.8	
(D-34-12) 22bcd	—	6.9	47.3	92.6	96.9	98.7	100	.13	.578	1.7	
(D-35- 4) 1da	—	.50	68.5	99.5	100			.11	.776	—	
(D-38-13) 36dda	—	5.5	65.9	97.4	97.9	98.9	100	.10	.640	.17	

Table 6.—Grain-size distribution and percent carbonate in rock samples—Continued

Site number	Depth (feet below land surface)	Wentworth grain-size classification (Wentworth, 1922)							Median grain-size (millimeters)	Sorting coefficient	Percent carbonate
		Grain-size analysis									
		percent finer than (millimeters)									
		0.0625	0.125	0.250	0.50	1.0	2.0	4.0			
Navajo Sandstone of Glen Canyon Group (227NJVO)—Continued											
(D-38-14)21bbd	—	2.1	28.6	89.9	99.5	99.7	100	0.16	0.610	0.08	
(D-40-12)10dca	—	4.6	56.7	96.8	97.7	98.9	100	.11	.633	.25	
(D-43-11) 4bba	—	5.5	44.1	97.1	98.4	99.3	100	.13	.629	.08	
NB04701917ADC	—	5.7	42.8	97.7	98.4	99.4	100	.14	.630	—	
NB04702013AAB	—	8.2	74.6	96.7	97.8	99.0	100	.10	.648	—	
U(C- 1- 8) 4dac	0.20	5.0	30.4	90.0	99.9	100		.16	.596	—	
Nugget Sandstone (220NGGT)											
(D- 1- 4)28cca	—	7.6	27.2	71.2	80.0	89.3	99.7	100	0.18	0.363	
(D- 1- 4)33bda	—	9.0	21.0	51.0	84.8	93.1	100		.24	.407	
(D- 4- 2) 5aab	—	13.1	35.6	70.4	80.5	91.1	100		.17	.347	
21N-118W- 6cda	0.20	12.3	35.3	60.1	72.0	85.9	99.9	100	.19	.312	
21N-118W- 6dca	.20	5.2	13.8	39.1	98.5	99.6	100		.28	.548	
21N-118W-10bba	—	6.0	29.0	82.3	96.1	98.7	100		.16	.547	
	—	23.7	72.8	85.6	90.3	96.3	100		.091	.454	
26N-115W-27abd	—	10.5	26.3	56.5	76.3	88.7	100		.16	.339	
Oyster Ridge Sandstone Member of Frontier Formation (211ORDG)											
22N-116W-24dab	—	5.2	18.6	81.7	89.2	94.8	100	0.18	0.504	—	
Sego Sandstone of Mesaverde Group (211SEGO)											
(D- 6-25)25aab	—	27.9	76.3	81.8	86.6	95.0	100	0.086	0.390	0.08	
Shinarump Member of Chinle Formation (231SRMP)											
(C-44- 5) 2aca	0.20	7.0	77.0	100				0.10	0.674	—	
Slick Rock Member of Entrada Sandstone (224SKRK)											
SC01210125AAD	—	15.5	70.1	87.8	90.3	95.3	100	0.10	0.476	—	
Stump Formation (221STMP)											
(A- 2-20) 5cbcd	—	9.0	62.3	90.5	98.2	99.7	100	0.11	0.569	—	
Wingate Sandstone of Glen Canyon Group (231WNGT)											
(D-20-26)15bcc	—	7.4	54.6	94.7	96.4	99.1	100	0.10	0.605	—	
(D-22-13) 1ccd	0.20	16.1	81.1	99.9	100			.090	.328	1.6	
(D-22-13)35bcc- 2	.20	40.5	87.5	99.9	100			.072	.338	9.6	
(D-23-10) 9bbcd	.20	15.8	85.2	99.0	100			.088	.399	3.6	
(D-32-13)33bbc	—	11.6	69.7	95.6	97.3	98.6	100		.10	.622	
(D-32-22) 8bbc	—	10.9	83.6	91.4	93.3	96.7	100		.091	.579	
(D-39-14) 9acd	—	14.8	81.8	92.5	93.7	97.0	100		.090	.561	
(D-42-11)33dca	—	9.8	65.4	91.4	91.9	95.6	100		.13	.504	
(D-43-11) 4bba	—	9.0	77.4	93.6	95.0	97.8	100		.095	.578	
NB04101823ACB	—	15.3	50.4	71.9	80.2	90.4	99.9	100	.12	.338	
SC01210125ACA01	—	7.5	37.3	85.4	89.8	95.3	100		.15	.489	
SC01210125ACA02	—	3.9	37.1	95.6	97.9	99.4	100		.15	.635	
SC01210125CAA	—	4.9	31.8	74.6	80.0	88.6	100		.17	.365	
Tyler seive series (Tyler, 1943)											
Site number	Depth (feet below land surface)	Grain-size analysis							Median grain-size (millimeters)	Sorting coefficient	Percent carbonate
		percent finer than (millimeters)									
		0.043	0.053	0.074	0.150	0.297	0.594	1.0	2.0		
Blackhawk Formation of Mesaverde Group (211BCKK)											
(D-23- 4)22bbd	—	2.4	—	5.1	11.5	44.4	99.9	100	0.32	0.594	—
	—	19.8	—	21.9	34.8	95.0	100		.17	.213	—
	—	2.9	—	4.9	13.3	75.5	99.9	100	.24	.598	—
	—	3.0	—	4.9	23.1	99.4	99.9	100	.17	.698	—
Cedar Mountain Formation (217CDRM)											
(D-19- 9) 1cda	0.20	10.1	14.4	25.1	54.4	98.4	100	0.13	0.500	0.50	
(D-19-14) 5adb	.20	34.8	42.4	57.4	80.3	94.0	100	.063	.405	14.1	
Dakota Sandstone (211DKOT or 217DKOT)											
(D-18- 9)35bcd	0.20	7.2	8.9	13.8	46.0	95.4	100	0.16	0.529	22.4	
(D-21- 7)36ccd	.20	2.4	3.3	7.3	39.3	86.9	100	.17	.552	.08	
(D-21-16)32dcb	.20	3.8	5.1	9.1	26.3	81.7	100	.20	.528	3.0	
(D-21-24)29dca	.20	3.2	4.2	6.4	28.5	79.8	92.2	100	.20	.493	.25
(D-24-20) 8cda	.20	1.5	1.5	4.0	35.6	98.6	100	.17	.643	.25	
(D-32- 8)18bda	.20	6.6	9.3	17.3	46.3	96.0	100	.16	.530	.3	
UC00100120ABA	.20	5.7	6.5	8.3	14.2	47.8	98.9	100	.31	.493	—
Entrada Sandstone of San Rafael Group (224ENRD)											
(D-19-13)16abb	0.20	40.6	58.6	87.3	97.1	100		0.048	0.693	10.9	

Table 6.—Grain-size distribution and percent carbonate in rock samples—Continued

Site number	Depth (feet below land surface)	Tyler seive series (Tyler, 1943)							Median grain-size (millimeters)	Sorting coefficient	Percent carbonate	
		Grain-size analysis percent finer than (millimeters)										
		0.043	0.053	0.074	0.150	0.297	0.594	1.0	2.0			
Ferron Sandstone Member of Mancos Shale (211FNR)												
(D-21- 7)34bba	0.20	11.6	15.0	33.2	78.4	99.9	100			0.10	0.527	12.9
(D-22- 6)22cdd- 1	182.5	—	2.9	—	10.6	49.7	99.3	100		.30	.588	—
	202.7	—	1.8	—	9.4	66.5	99.5	100		.25	.602	—
(D-22- 6)34cac- 1	83.5	—	1.7	—	13.1	79.5	99.9	100		.22	.609	—
	124.7	—	6.9	—	39.8	81.3	98.6	100		.17	.464	—
	168.65	—	5.4	—	44.5	79.0	95.6	100		.16	.457	—
	181.2	—	3.8	—	24.0	57.4	86.4	100		.16	.432	—
(D-23- 6) 3dcc	8.7	—	2.1	—	9.7	52.3	99.4	100		.29	.619	—
	164.5	—	4.3	—	16.0	40.8	93.9	100		.33	.505	—
	283.3	—	3.6	—	45.6	85.4	99.4	100		.16	.509	—
(D-24- 6) 5abb- 1	41.75	—	2.8	—	12.5	59.0	98.4	100		.27	.569	—
Morrison Formation (221MRSN)												
(D-19-14) 6bdc	0.20	30.5	45.7	75.6	89.2	100				0.056	0.577	0.25
NE04701901DBC	.20	32.2	47.8	77.6	91.6	100				.054	.599	.58
Nugget Sandstone (220NGGT)												
21N-118W- 6cda	0.20	36.5	53.1	82.5	94.9	100				0.051	0.312	—
21N-118W- 6dca	.20	36.3	48.4	79.6	93.1	100				.054	.548	—
Salt Wash Member of Morrison Formation (221SLWS)												
(D-22- 8) 8cab	0.20	3.7	4.9	8.2	19.8	61.2	98.6	99.5	100	0.25	0.502	0.83
(D-22-15)36cdd	.20	1.2	1.6	2.8	9.5	62.5	100			.25	.597	—
(D-23-24) 5dcb	.20	3.8	5.1	8.0	17.7	65.5	99.0	99.7	100	.24	.520	16.7
(D-24-20) 27bdd	.20	1.4	1.7	3.2	25.8	95.7	100			.19	.657	—
(D-28-11) 18aac	.20	2.7	4.2	9.2	29.6	59.4	98.3	99.8	100	.24	.474	13.5
(D-29- 7) 36cdb	.20	10.5	13.5	21.2	71.5	100				.11	.517	26.2
(D-32- 8) 18aca	.20	6.3	8.7	15.2	48.1	91.8	99.9	100		.15	.512	37.4
UB00100233CDA	.20	7.6	9.6	16.6	69.2	99.1	100			.12	.557	.08