

Ground-Water and Water-Chemistry Data for the Upper Deschutes Basin, Oregon



U.S. GEOLOGICAL SURVEY
Open-File Report 97-197



Prepared in cooperation with
OREGON WATER RESOURCES DEPARTMENT;
CITIES OF BEND, REDMOND, AND SISTERS;
DESCHUTES AND JEFFERSON COUNTIES;
THE CONFEDERATED TRIBES OF THE
WARM SPRINGS RESERVATION OF OREGON;
and U.S. ENVIRONMENTAL PROTECTION AGENCY

Cover photographs:

Top: Steelhead Falls on the Deschutes River near Crooked River Ranch, Oregon.

Middle: Crooked River Canyon at Crooked River Ranch, Oregon.

Bottom: North and Middle Sister with a wheel-line irrigation system in the foreground near Sisters, Oregon. (Photographs by Rodney R. Caldwell, U.S. Geological Survey.)

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By RODNEY R. CALDWELL and MARGOT TRUINI

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Portland, Oregon
1997

U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY
Gordon P. Eaton, Director

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CONVERSION FACTORS, VERTICAL DATUM, ABBREVIATIONS, AND MAP SOURCES

Multiply	By	To obtain
Length		
inch (in)	2.54	centimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
Area		
square mile (mi ²)	2.590	square kilometer
Volume		
gallon (gal)	3.785	liter
Flow rate		
cubic foot per second	0.02832	cubic meter per second
gallon per minute (gpm)	0.06309	liter per second

Temperature in degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) as follows:

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

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

Altitude/Elevation, as used in this report, refers to distance above or below sea level.

Specific conductance is reported in microsiemens per centimeter at 25 degrees Celsius (μS/cm at 25°C).

Concentrations of chemical constituents in water are reported either in milligrams per liter (mg/L) or micrograms per liter (μg/L).

Map sources: Base map modified from U.S. Geological Survey 1:500,000 State base map, 1982, with digital data from U.S. Bureau of the Census, TIGER/Line (R), 1990, and U.S. Geological Survey Digital Line Graphs published at 1:100,000. Publication projection is Lambert Conformal Conic. Standard parallels 43°00' and 45°30', central meridian-120°30'.

Ground-Water and Water-Chemistry Data for the Upper Deschutes Basin, Oregon

By Rodney R. Caldwell *and* Margot Truini

ABSTRACT

This report presents ground-water data collected and compiled as part of a study of the ground-water resources of the upper Deschutes Basin, Oregon. Data in this report includes tabulated information and a location map for more than 1,500 field-located water wells, hydrographs showing water-level fluctuations over various time periods for 102 of the wells, and water-chemistry analyses from 26 wells, 7 springs, and 5 surface-water sites.

INTRODUCTION

Background

The upper Deschutes Basin has experienced tremendous population growth over the past few decades. Deschutes County, which contains most of the population within the upper Deschutes Basin, has experienced a population increase of over 300 percent from 1970 to July 1, 1996 (Portland State University, Center for Population Research and Census, Portland, Oregon, written commun., 1997). This growth is expected to continue. Surface-water resources in the area have been closed by the State of Oregon to additional appropriation for many years. Therefore, virtually all new development in the region must rely on ground water as a source of water. To provide information on the ground-water resources of the upper Deschutes Basin, the U.S. Geological Survey (USGS) conducted a study in cooperation with the Oregon Water Resources Department (OWRD); the cities of Bend, Redmond, and Sisters; Deschutes and Jefferson Counties; The

Confederated Tribes of the Warm Springs Reservation of Oregon; and the U.S. Environmental Protection Agency. The objectives of this study were to provide a quantitative assessment of the regional ground-water system and provide the understanding and analytical tools for State and local government agencies to make resource management decisions. The results of the upper Deschutes Basin ground-water study, which was initiated in 1993, will be presented in a series of interpretive reports.

The study area encompasses approximately 4,300 square miles of the Deschutes River drainage basin in central Oregon (fig. 1). The study area includes the major population centers in the basin, where ground-water development is most intense and resource management questions are most urgent. The area includes the communities of Bend, Redmond, Sisters, Madras, Prineville, and La Pine. The area is drained by the Deschutes River, with its major tributaries the Crooked and Metolius Rivers. Elevation ranges from more than 10,000 feet above sea level in the Cascade Range in the western part of the study area to less than 1,300 feet near Madras in the northern part of the area. The study area boundaries coincide as much as possible with natural hydrologic boundaries across which ground-water flow can be reasonably estimated or assumed to be negligible. The study area is bounded on the north by Jefferson Creek, the Metolius River, the Deschutes River, and Trout Creek; on the east by the generalized contact between the Deschutes Formation and the older, much less permeable John Day Formation; on the south by the drainage divide between the Deschutes Basin and the Fort Rock and Klamath

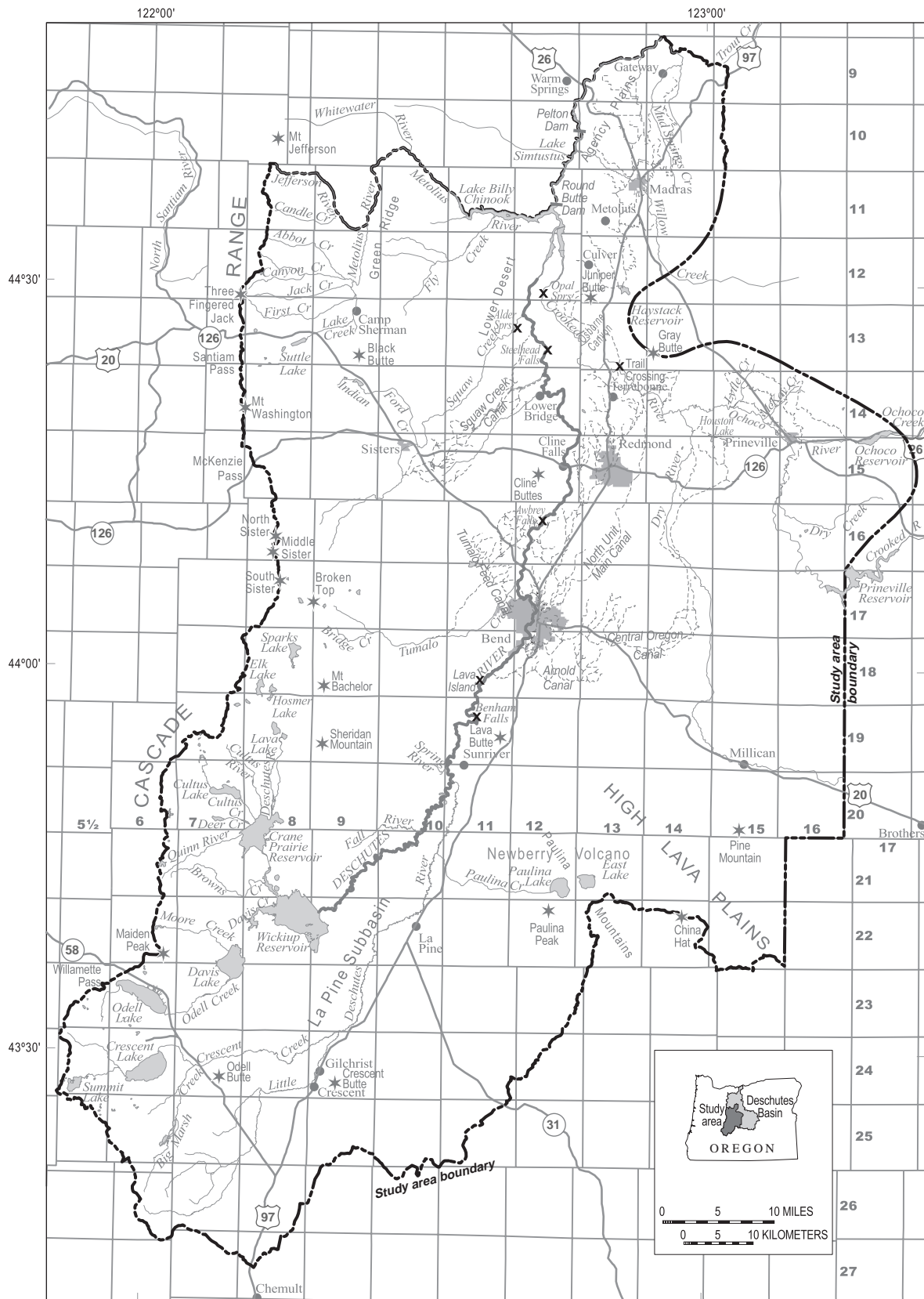


Figure 1. Location of the upper Deschutes Basin study area, Oregon.

Basins; and on the west by the Cascade Range crest.

Purpose and Scope

The purpose of this report is to present basic data collected and compiled for the upper Deschutes Basin ground-water study. Data includes selected information from well log records and water-level data for selected field-located wells, and water-chemistry data for selected well, spring and surface-water sites.

Acknowledgments

We gratefully acknowledge landowners who gave access to their property for the acquisition of data, and to the many drillers who furnished information about wells and lithology. We also thank local government officials and consultants who gave access to information from previous and ongoing projects.

EXPLANATION OF DATA

Well-and Spring-Location System

The system used for locating wells and springs in this report is based on the rectangular system for subdivision of public land (fig. 2). The state is divided into townships of 36 square miles numbered according to their location relative to the east-west Willamette baseline and a north-south Willamette meridian. The position of a township is given by its north-south "Township" position relative to the baseline and its east-west "Range" position relative to the meridian. Each township is divided into 36 one-square-mile (640-acre) sections numbered from 1 to 36. For example, a well designated as 18S/11E-29AAC is located in Township 18 south, Range 11 east, section 29. The letters following the section number correspond to the location within the section; the first letter (A) identifies the quarter section (160 acres); the second letter (A) identifies the quarter-quarter section (40 acres); and the third letter (C) identifies the quarter-quarter-quarter section (10-acres). Therefore, well 29AAC is

located in the SW quarter of the NE quarter of the NE quarter of section 29. When more than one designated well occurs in the quarter-quarter-quarter section, a serial number is included.

Well Data

There are more than 1,500 water wells that have been field-located (visited and plotted on USGS 7.5 minute series topographic maps) by USGS, OWRD, and Oregon Department of Environmental Quality (ODEQ) personnel within the upper Deschutes Basin. Location, construction, water level and other data for these field-located wells are compiled in table 1 and their locations are shown on plate 1. Each well is assigned a unique eight-digit identification number known as the log-id number. The first two digits of the log-id number indicate the county code from the Federal Information Processing Standards (FIPS) code file for the county in which the well exists. The FIPS codes for the counties in the study area are as follows: 13, Crook County; 17, Deschutes County; 31, Jefferson County; and 35, Klamath County. The last 6 digits of the number correspond to the state of Oregon well-log number (a unique number assigned by the OWRD to the report filed by the well driller).

Static water levels, which are water levels that are not affected by pumping in the measured well or in nearby wells, are included in table 1. Many of the water levels were measured by USGS or OWRD personnel using steel surveying tapes, electric tapes, or previously installed air lines. The static water level recorded on the driller's report is shown in table 1 for wells in which a measurement was not made by USGS or OWRD personnel.

There are more than 12,000 documented wells in the upper Deschutes Basin study area. Figure 3 shows the number of wells per square mile section in the study area, according to locational information from drillers' reports. The wells are unevenly distributed over the study area, with the majority of the wells located in the more densely populated areas.

The increase in population and the accompanying increase in the use of ground-water in the upper Deschutes Basin is evident from the number of wells that have been drilled over the past few decades. The total number of wells drilled

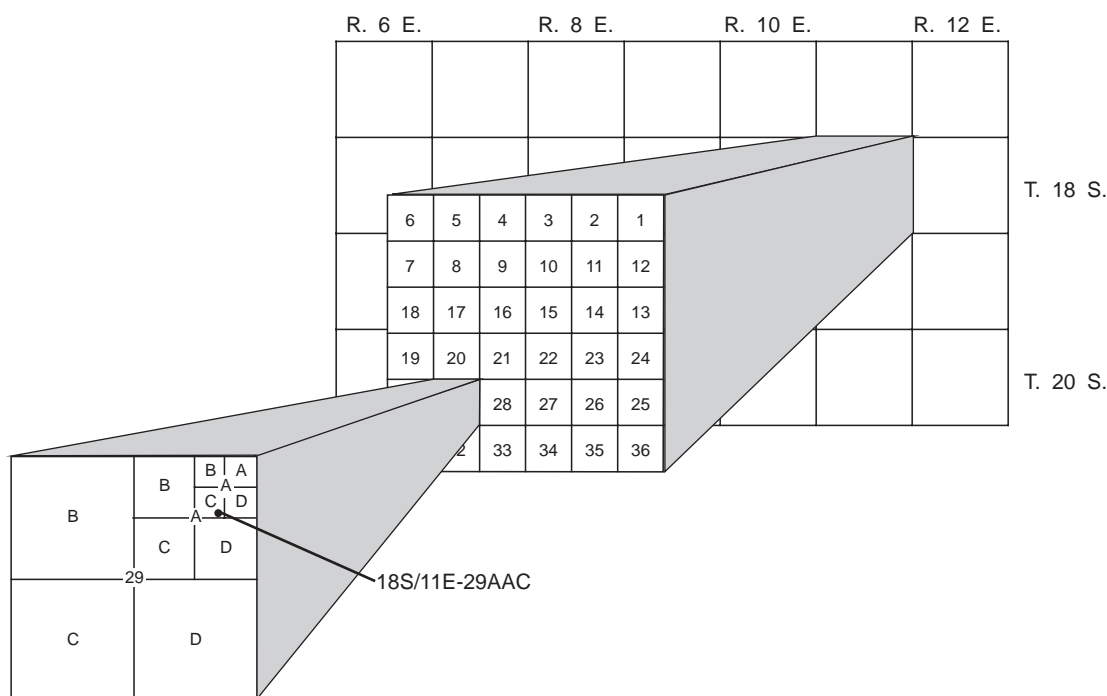


Figure 2. Well- and spring-location system.

per year in the study area from 1955 through 1996 is shown in figure 4. An accurate number of wells drilled prior to 1955 is unavailable because drillers were not required to file reports until 1955. Figure 4 also includes the total population (Portland State University, Center for Population Research and Census, Portland, Oregon, written commun., 1997) of Deschutes, Jefferson, and Crook Counties from 1955 to July 1, 1996. The population of Klamath County was not included in figure 4 because most of the population of Klamath County lives outside of the study area.

Water-Level Data

Water levels were measured periodically in selected wells, referred to as observation wells, within the study area. The wells used for monitoring were existing water wells selected to represent a variety of hydrogeologic settings throughout the study area. Of these wells, 89 were measured over periods of more than 1 year. In addition to the wells measured specifically for this study, the OWRD has a network of observation wells that have been measured for much longer periods. The locations of the observation wells measured for

this study and selected observation wells monitored by the OWRD are shown on figure 5; their construction information is included in table 1.

The observation wells measured as part of this study include 73 wells that were measured every 3 months (quarterly) and 16 wells that were monitored with digital water-level recorders; 2 wells in the latter group were measured quarterly during the time prior to the installation of the recorders and after the recorders had been removed. The data-collection interval was usually 2 hours for the wells monitored with recorders, but shorter intervals were used when assessing the barometric efficiency of wells and during aquifer testing. The water-level measurements provided information on long-term water-level trends and seasonal fluctuations in response to recharge and canal operation. The wells monitored with recorders also provided information on groundwater response to short-term phenomena such as barometric pressure changes, canal operation, pumping in adjacent wells, recharge, and changes in river stage. Three of the water-level recorder installations were also equipped to record barometric pressure. The longest period of record for the observation wells measured for this study is from mid-1993 through 1996, with most having

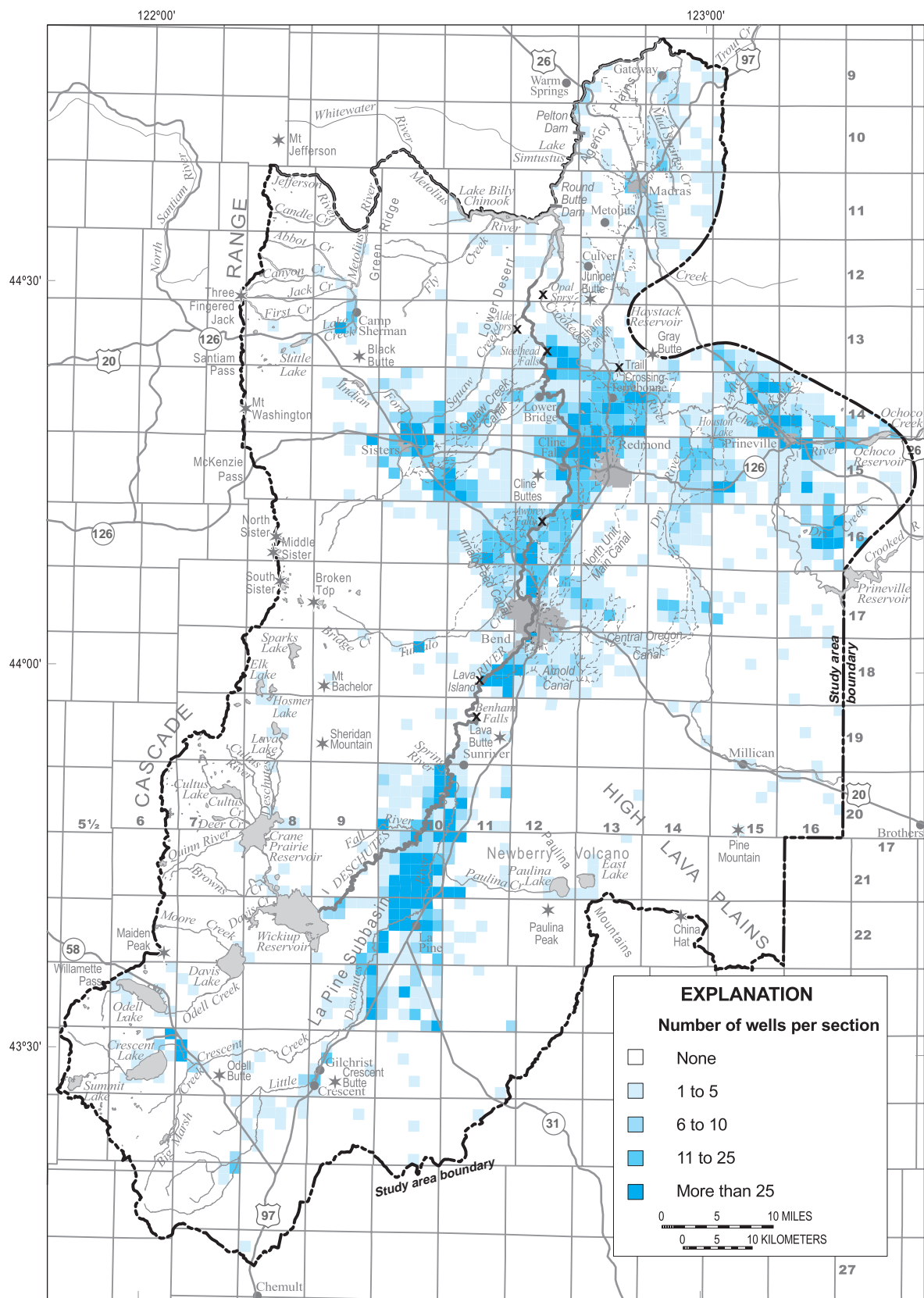


Figure 3. The number of wells per section in the upper Deschutes Basin, Oregon. (Map is based on the Oregon Water Resources Department water wells report files.)

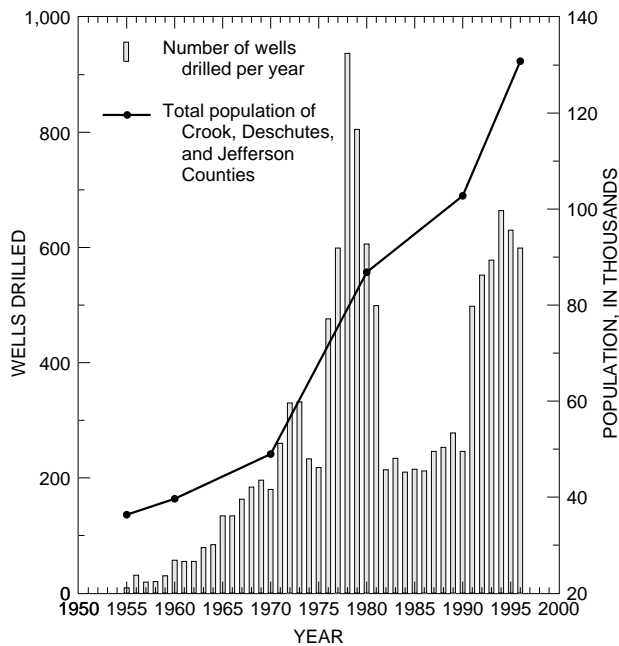


Figure 4. Number of wells drilled per year from 1955 through 1996 in the upper Deschutes Basin, Oregon, and the total population of Crook, Deschutes, and Jefferson Counties from 1955 to July 1, 1996.

over 2 years of observations. Hydrographs of observation wells measured for this study are included in figure 6. Nineteen of the wells measured for this study were also monitored from the late 1970's to 1980 or in the middle 1980's. The hydrographs for these wells are shown in figure 7.

Hydrographs from 14 selected OWRD observation wells are also included in this report. One of the OWRD observation wells (11S/13E-01BCA1) was instrumented with a water-level recorder during this study. The hydrographs for the OWRD observation wells, which have periods of record ranging from 9 to over 50 years, are shown in figure 8.

Water-Chemistry Data

Water from 26 wells, 7 springs, 4 canals, and 1 stream was sampled and chemically analyzed within the period from September 1994 through June 1995. The locations of these sites are shown on figure 9. The spring and surface-water sites are described in tables 2 and 3, respectively; and the water-chemistry data for springs and surface-water sites are presented in tables 4 and 5, respectively.

The wells sampled for water chemistry are included in table 1 and the water-chemistry data for the wells are presented in table 6.

Samples for chemical analysis were collected according to standard USGS protocols and procedures as outlined in Claassen (1982), Friedman and Erdmann (1982), Horowitz and others (1994), Ward and Harr (1990), and Wells and others (1990). Field parameters (temperature, specific conductance, pH, and dissolved oxygen) were determined on-site using a multiparameter water-quality logging system. Field alkalinities were determined on site in a mobile lab or at a nearby temporary lab using the incremental titration method. A 0.45 micrometer filter capsule was used for in-line filtration. Samples were processed and preserved in the field within 1 hour of sampling.

Samples from wells were collected from discharge lines before passage through pressure tanks and water-treatment equipment with the use of existing submersible or turbine pumps. Field parameters were recorded every 3 to 5 minutes with the multiparameter water-quality logging system transmitter inserted into a flow-through cell. The well samples were collected after the field parameters had stabilized and generally after a minimum of three times the volume of water stored in the well bore had been purged. The field parameters were considered stable if they met the following criteria for three successive measurements:

1. temperature varied less than 0.2 degrees Celsius;
2. specific conductance varied less than 5 percent (5 microsiemens/cm if less than 100 microsiemens/cm);
3. pH varied less than 0.1 pH unit; and
4. dissolved oxygen varied less than 0.1 mg/L.

As the well was purged, some of the water was discharged through the sampling apparatus. The samples were collected and filtered (when required) sequentially into the individual sample bottles through silicone tubing.

For this study, canals, streams, and springs were assumed to be well-mixed relative to dissolved chemical constituents. The majority of the canal and stream samples were collected with an isokinetic, depth integrated sampler according to the method of Ward and Harr (1990). The samples

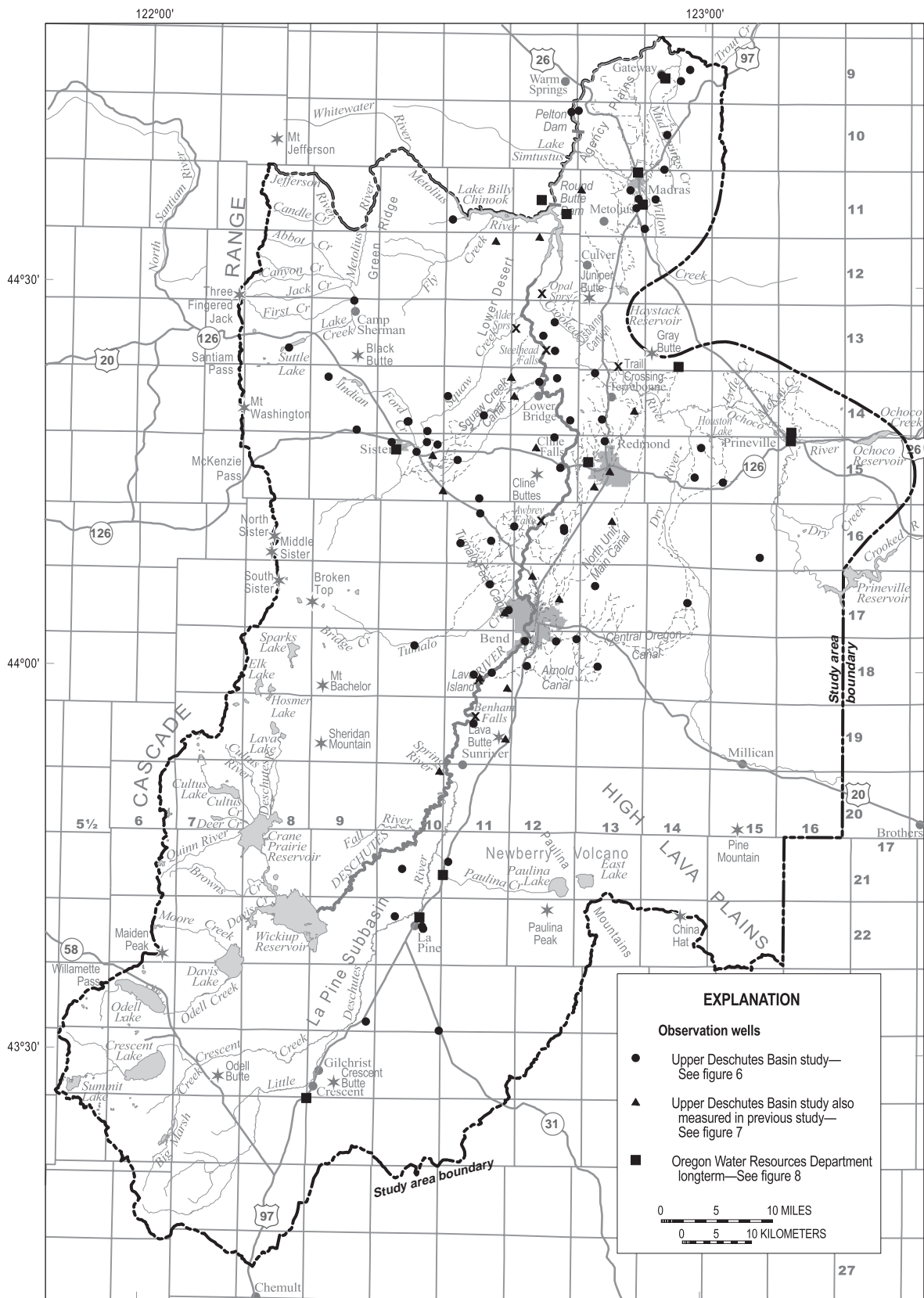


Figure 5. Location of observation wells in the upper Deschutes Basin, Oregon.

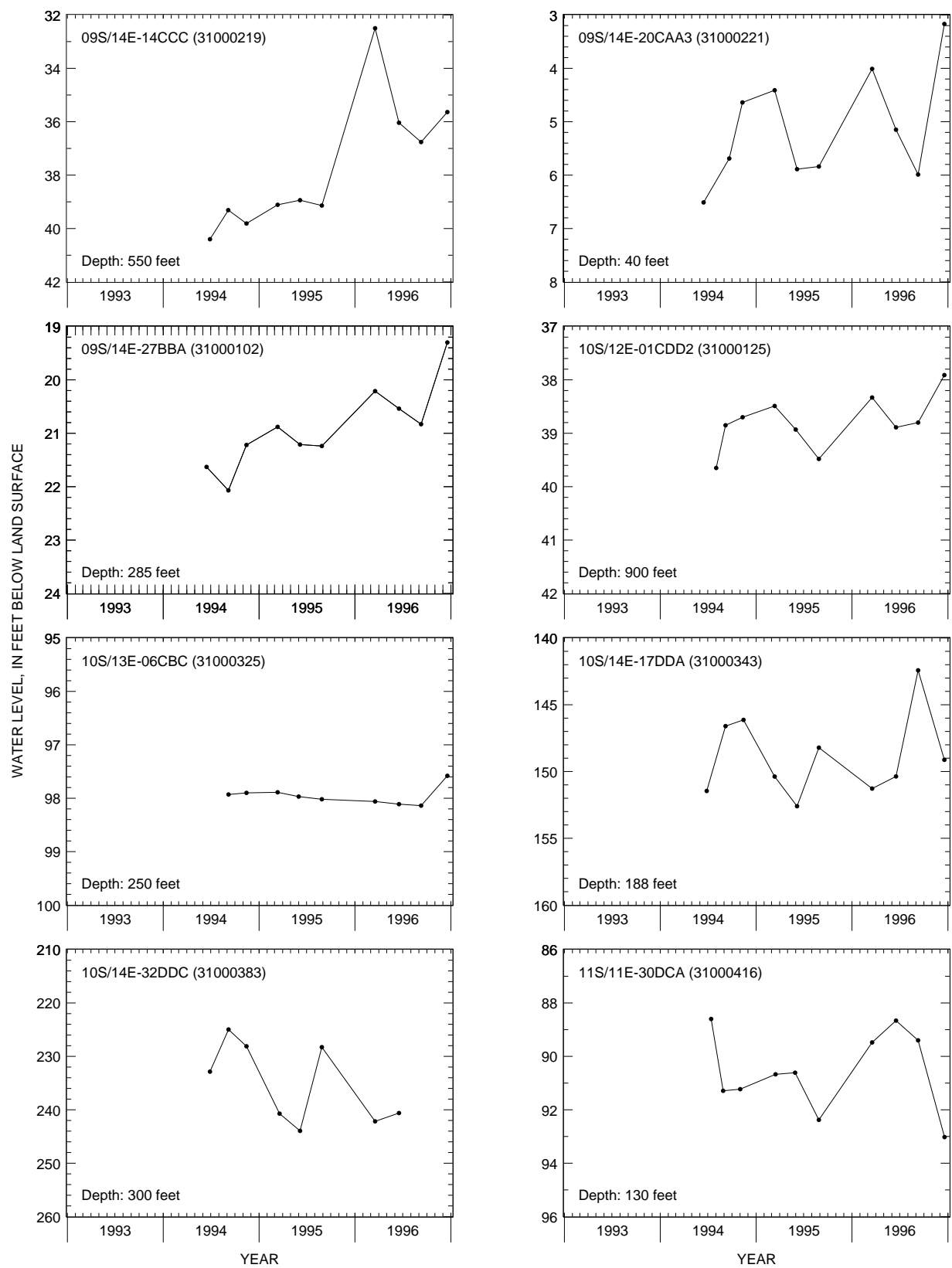


Figure 6. Hydrographs from wells in the upper Deschutes Basin for the period 1993–96, showing well location, log-id number, and well depth (P, measurement affected by pumping).

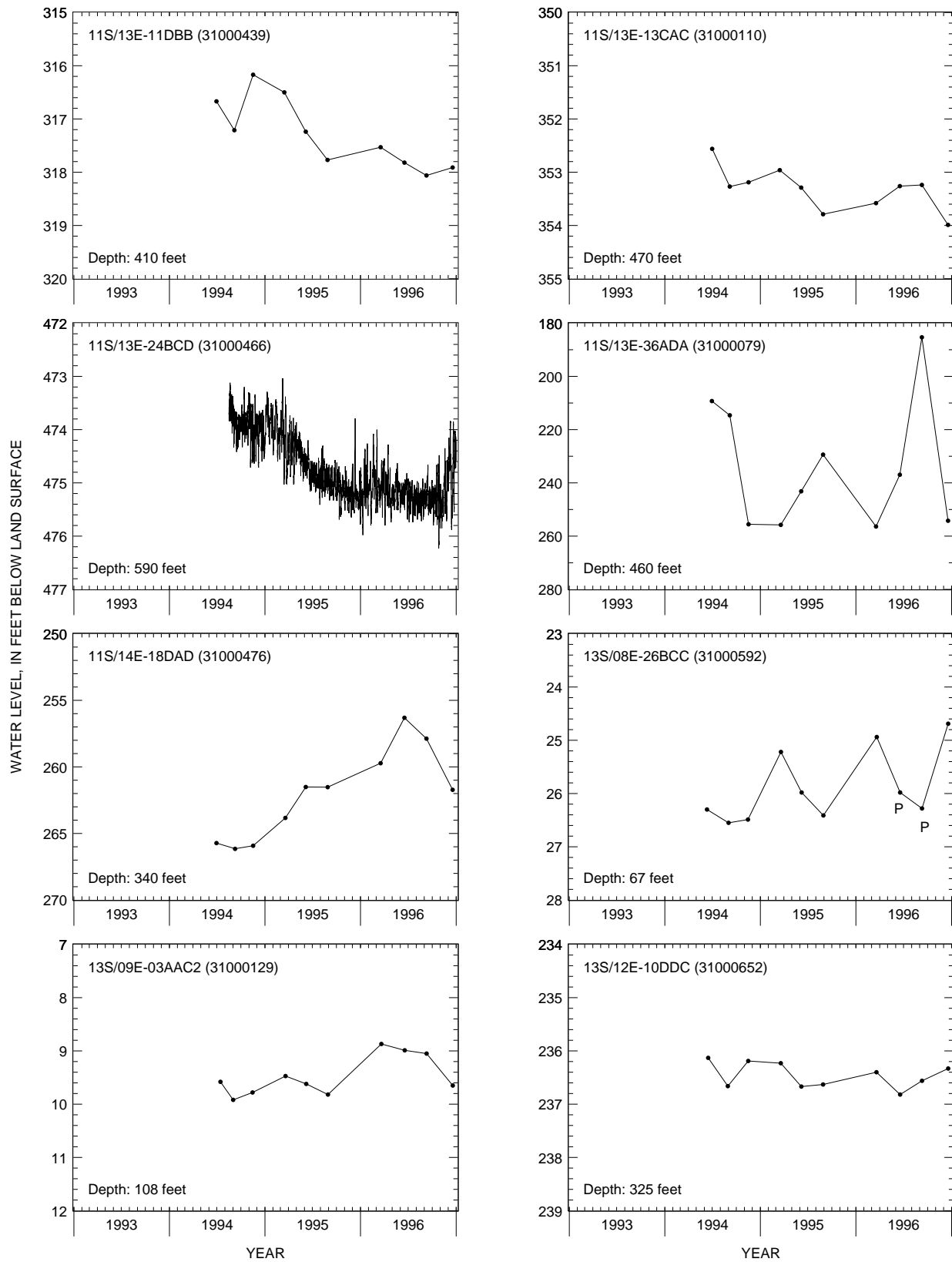


Figure 6. Hydrographs from wells in the upper Deschutes Basin for the period 1993–96, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

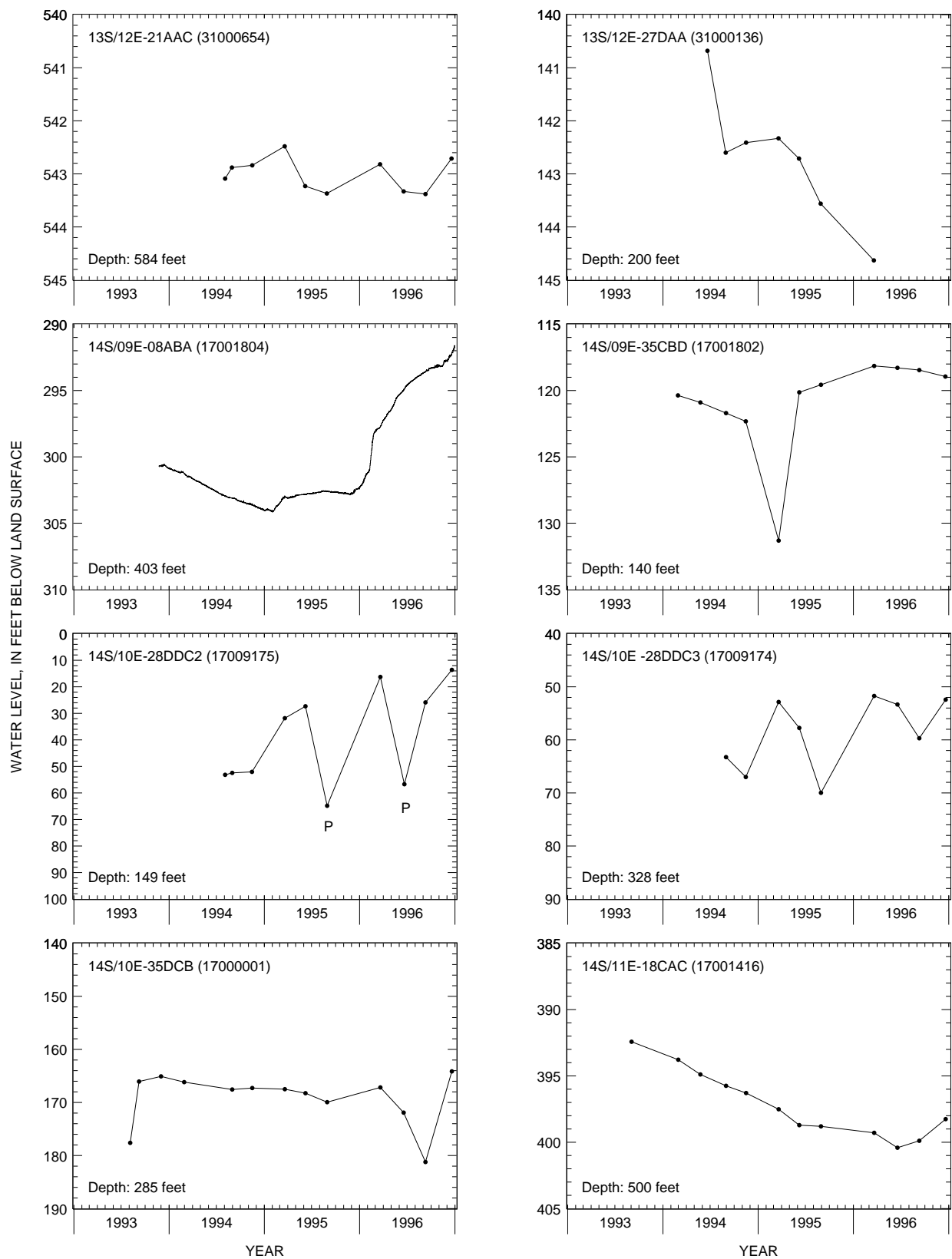


Figure 6. Hydrographs from wells in the upper Deschutes Basin for the period 1993–96, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

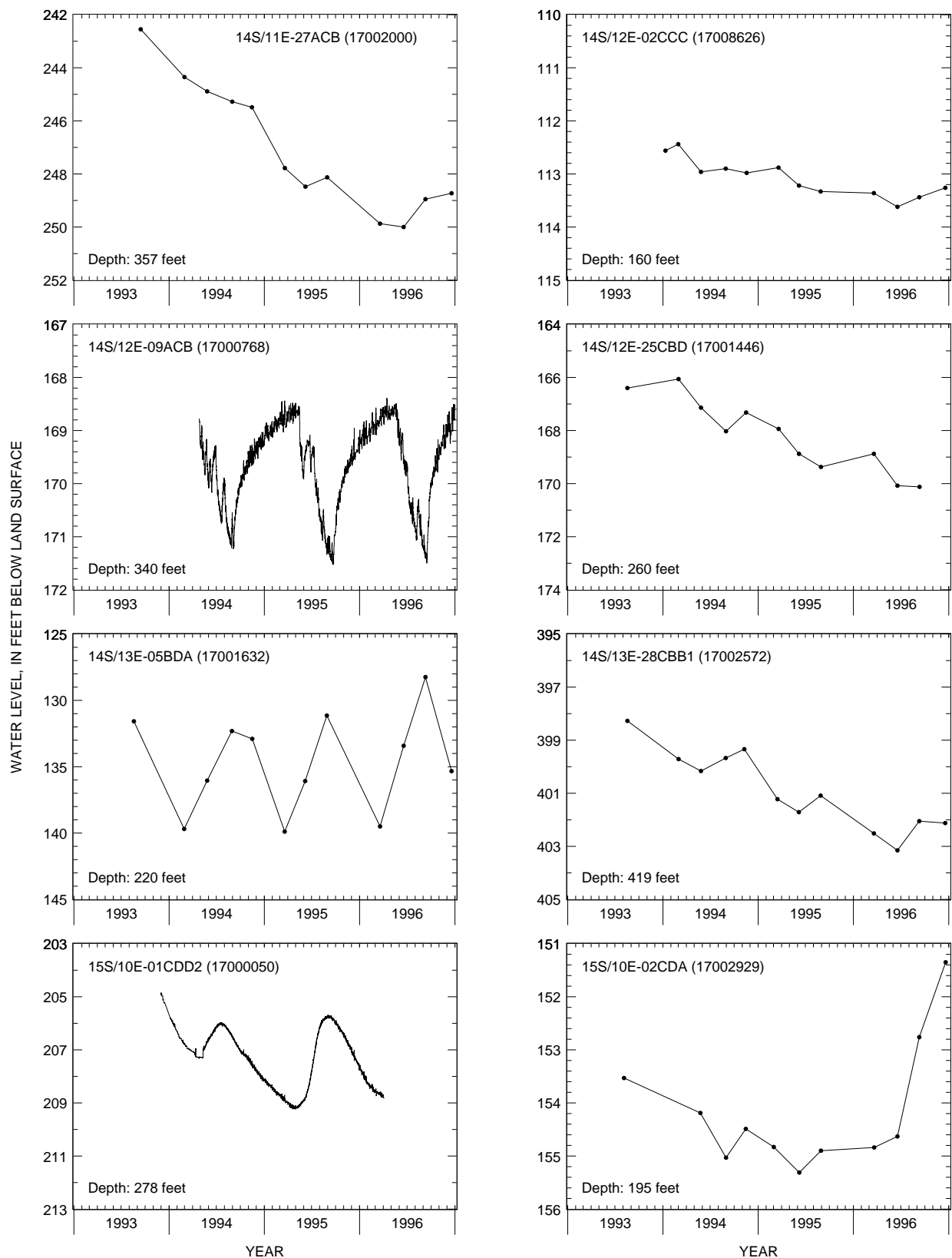


Figure 6. Hydrographs from wells in the upper Deschutes Basin for the period 1993–96, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

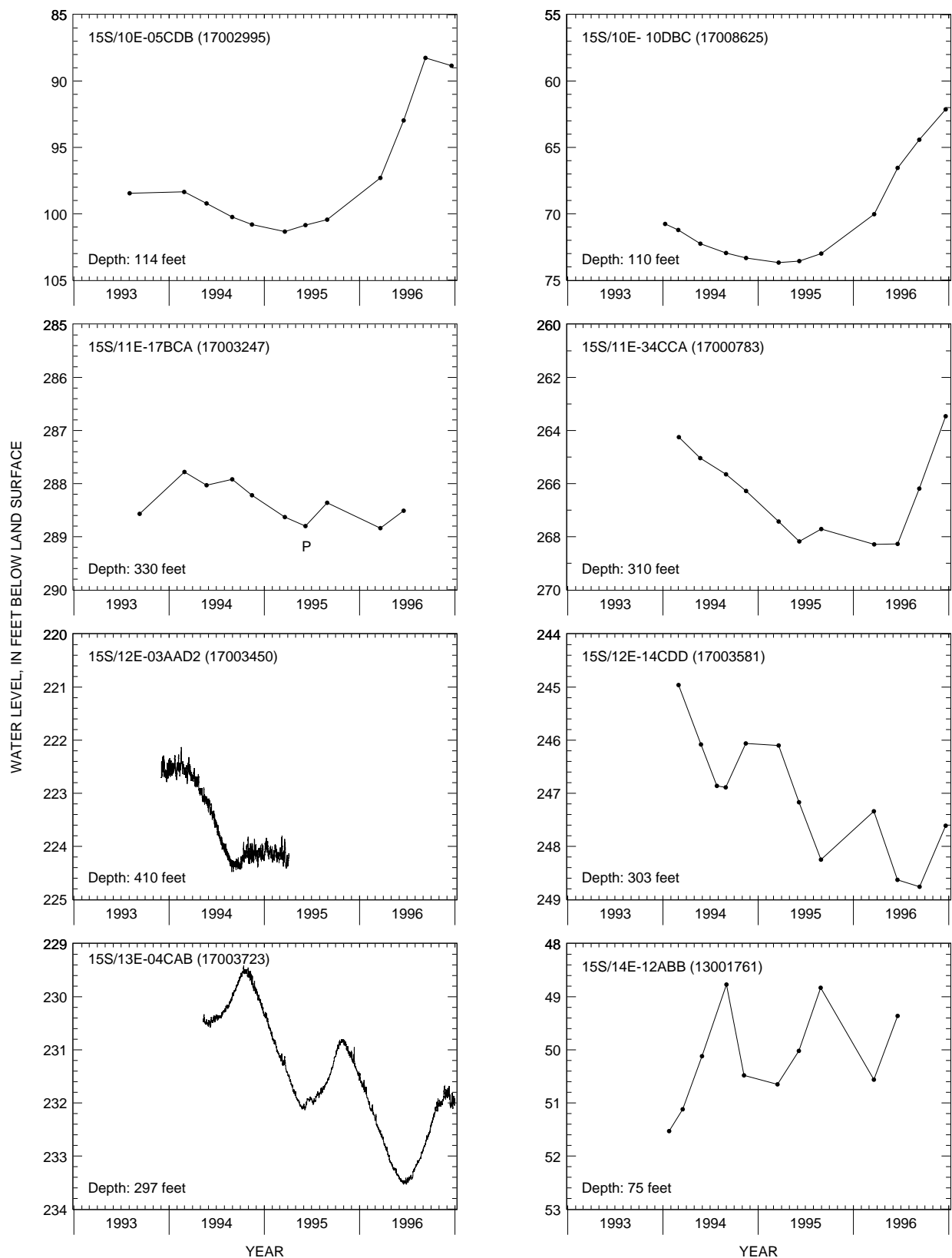


Figure 6. Hydrographs from wells in the upper Deschutes Basin for the period 1993–96, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

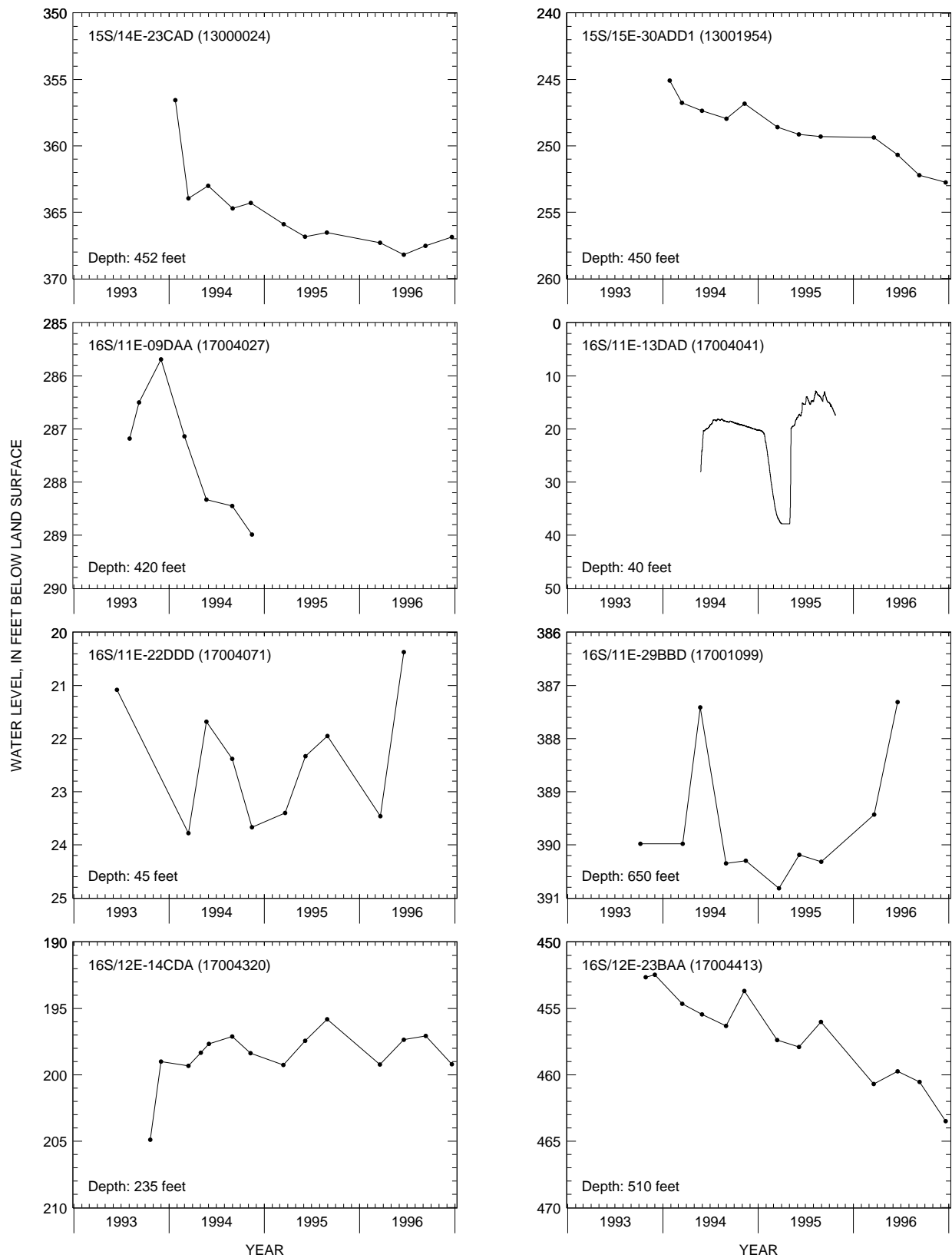


Figure 6. Hydrographs from wells in the upper Deschutes Basin for the period 1993–96, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

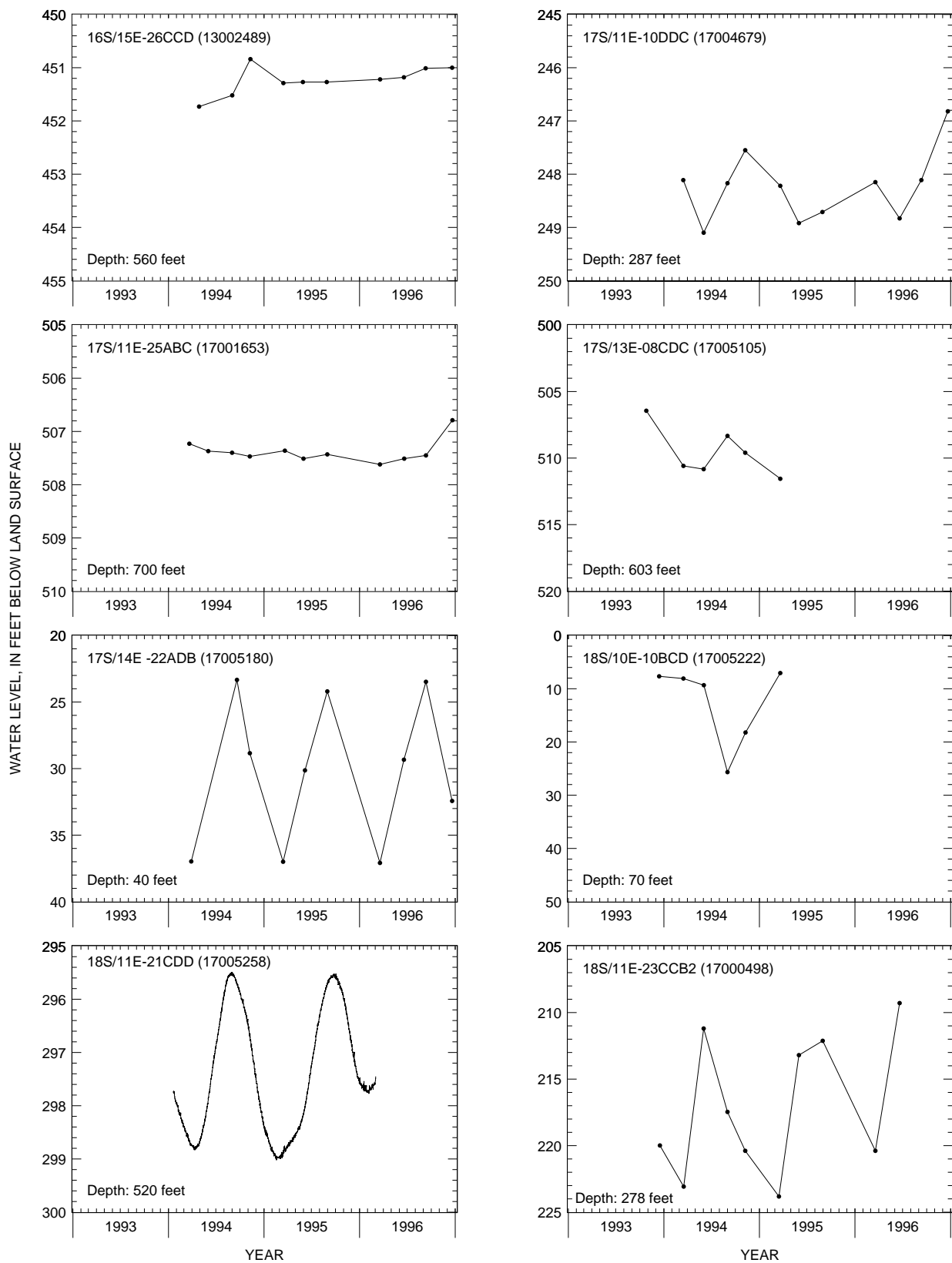


Figure 6. Hydrographs from wells in the upper Deschutes Basin for the period 1993–96, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

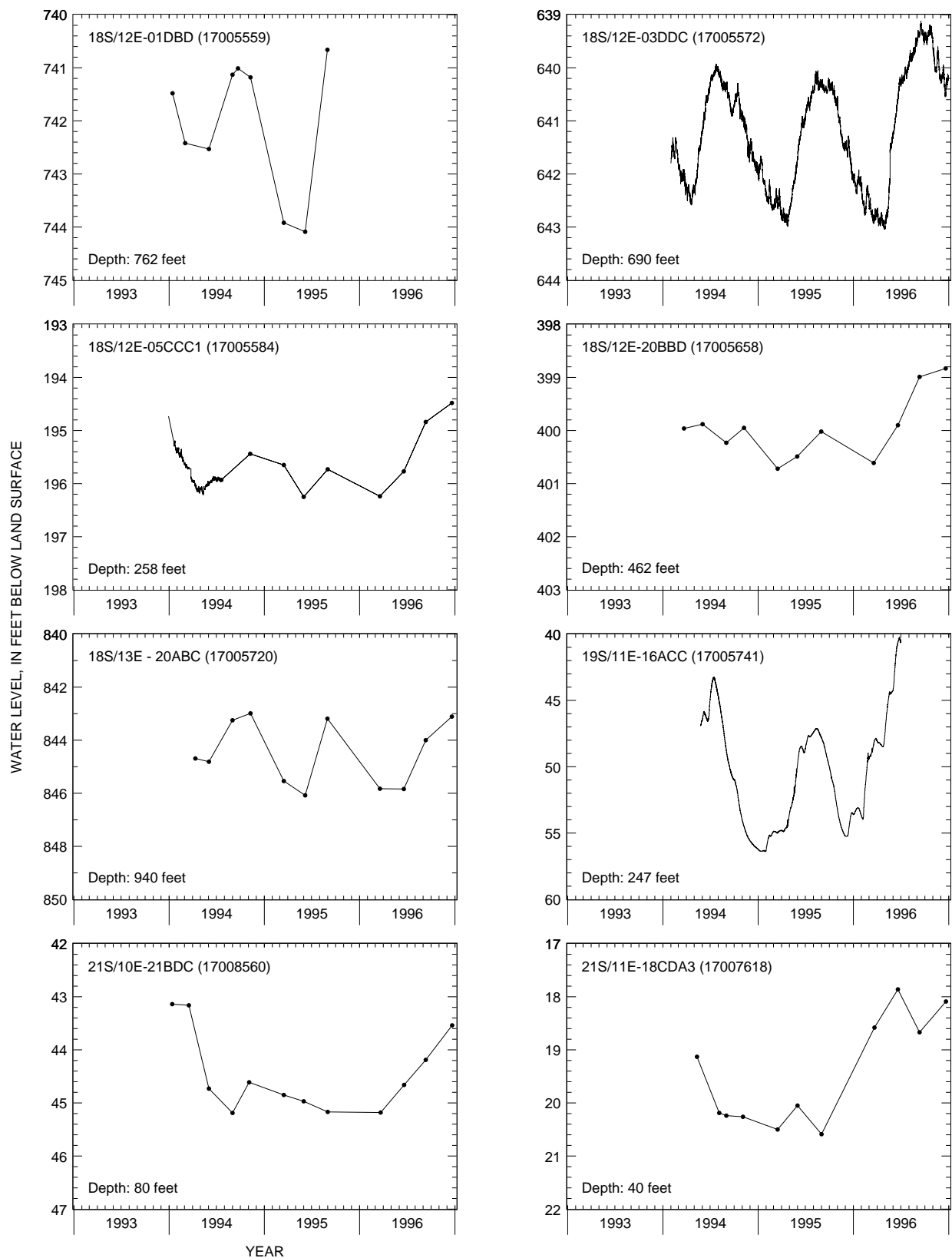


Figure 6. Hydrographs from wells in the upper Deschutes Basin for the period 1993–96, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

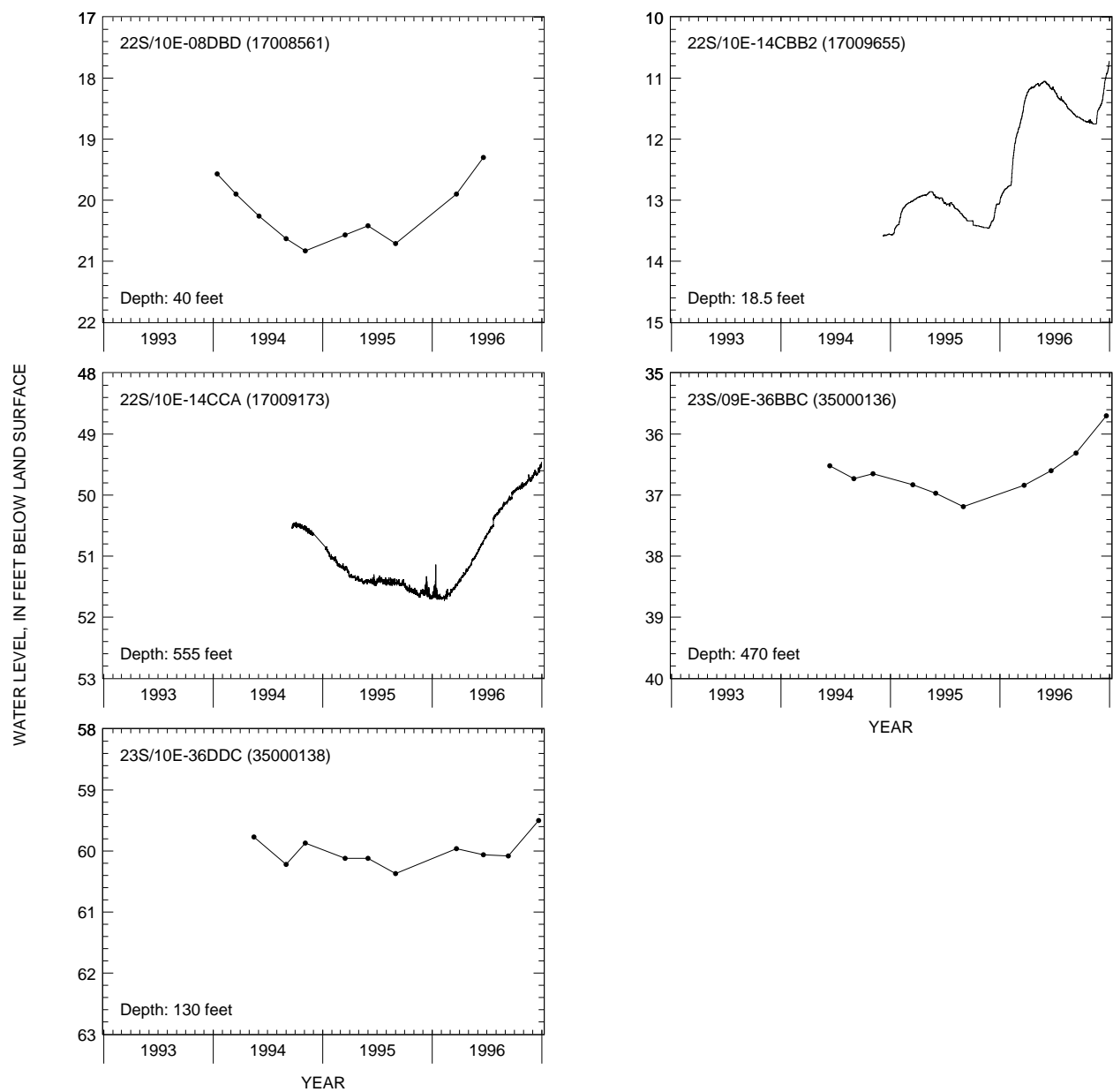


Figure 6. Hydrographs from wells in the upper Deschutes Basin for the period 1993–96, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

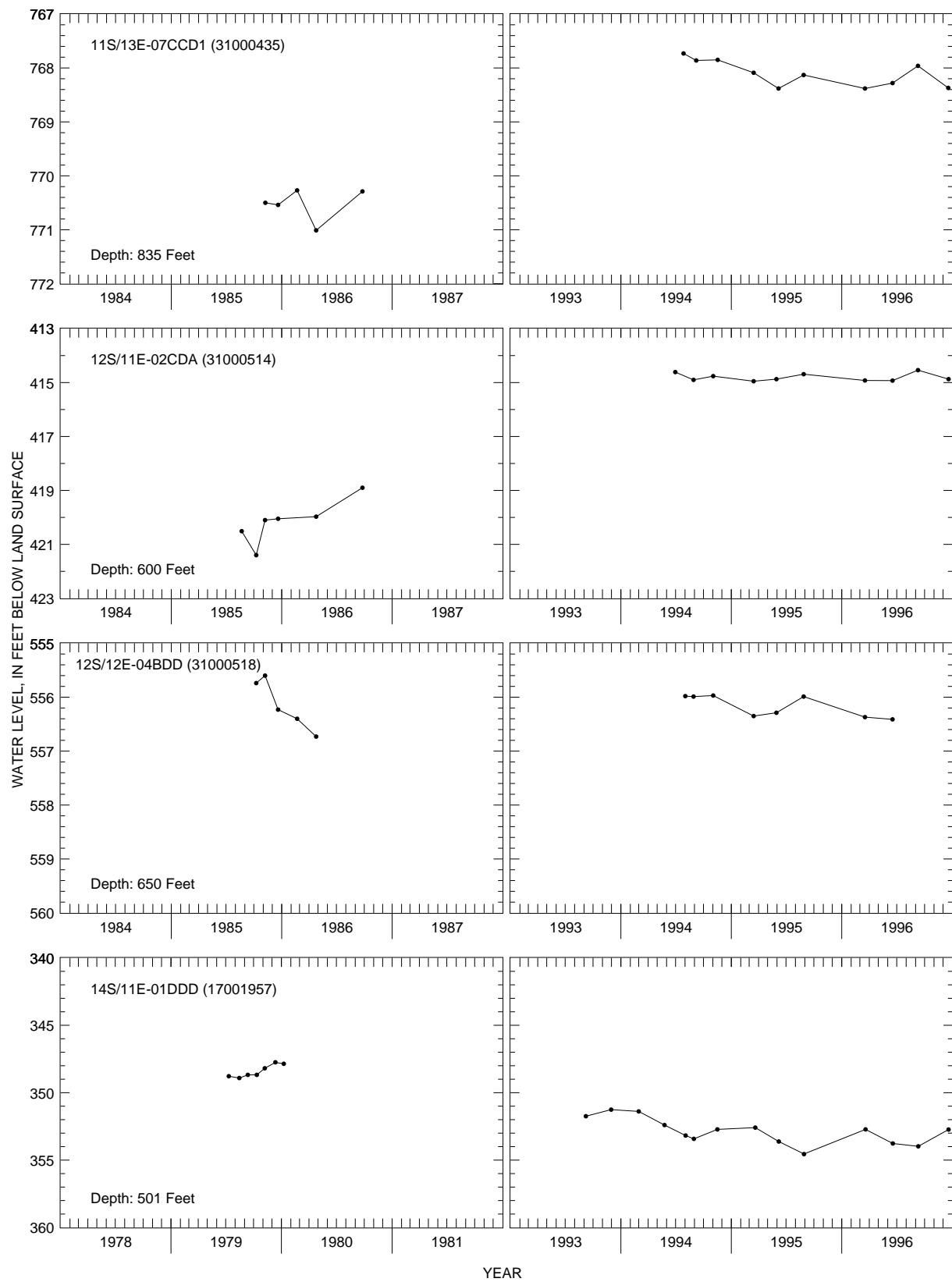


Figure 7. Hydrographs for observation wells in the upper Deschutes Basin, Oregon, measured over two time periods, showing well location, log-id number, and well depth (P, measurement affected by pumping).

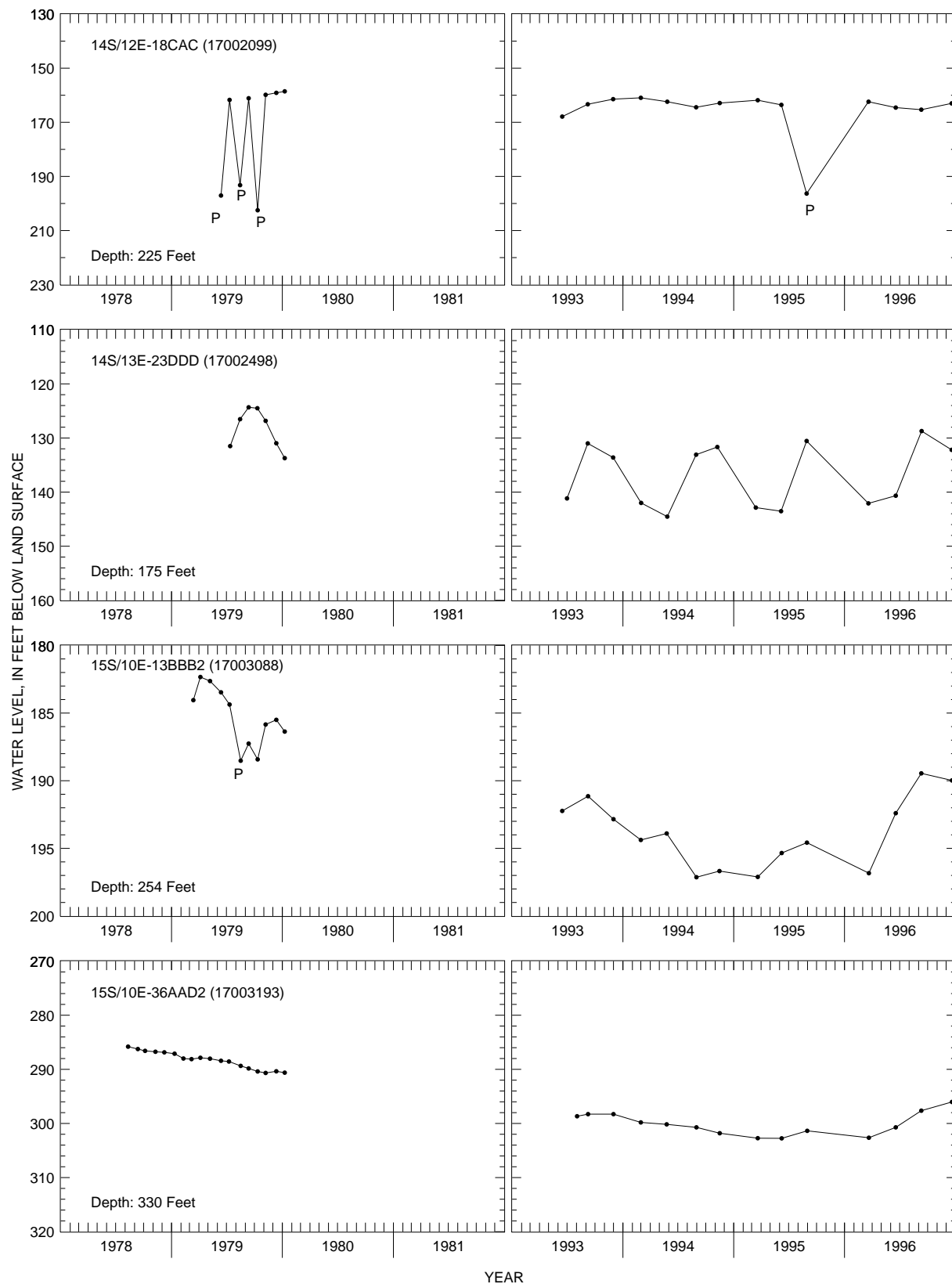


Figure 7. Hydrographs for observation wells in the upper Deschutes Basin, Oregon, measured over two time periods, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

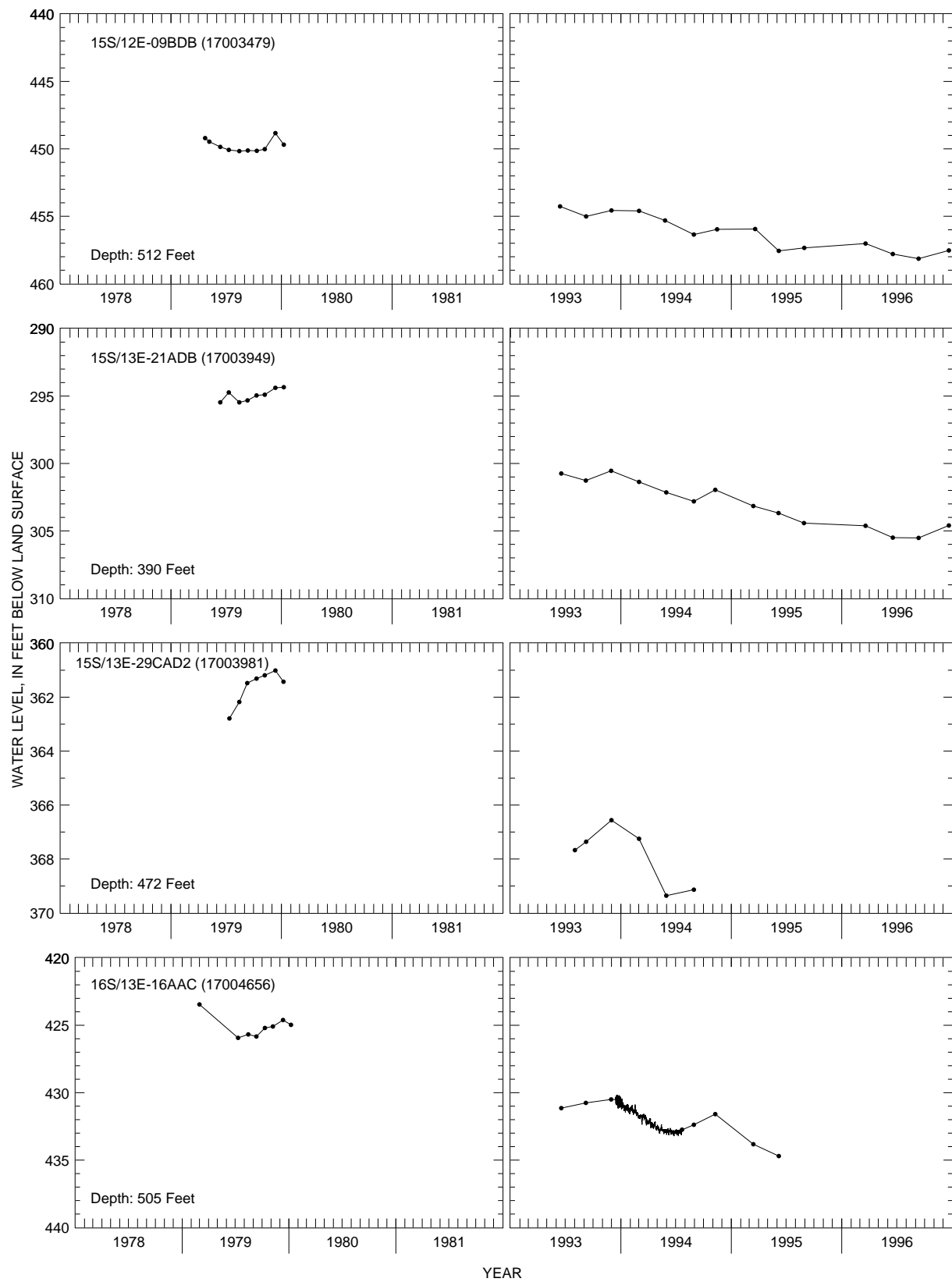


Figure 7. Hydrographs for observation wells in the upper Deschutes Basin, Oregon, measured over two time periods, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

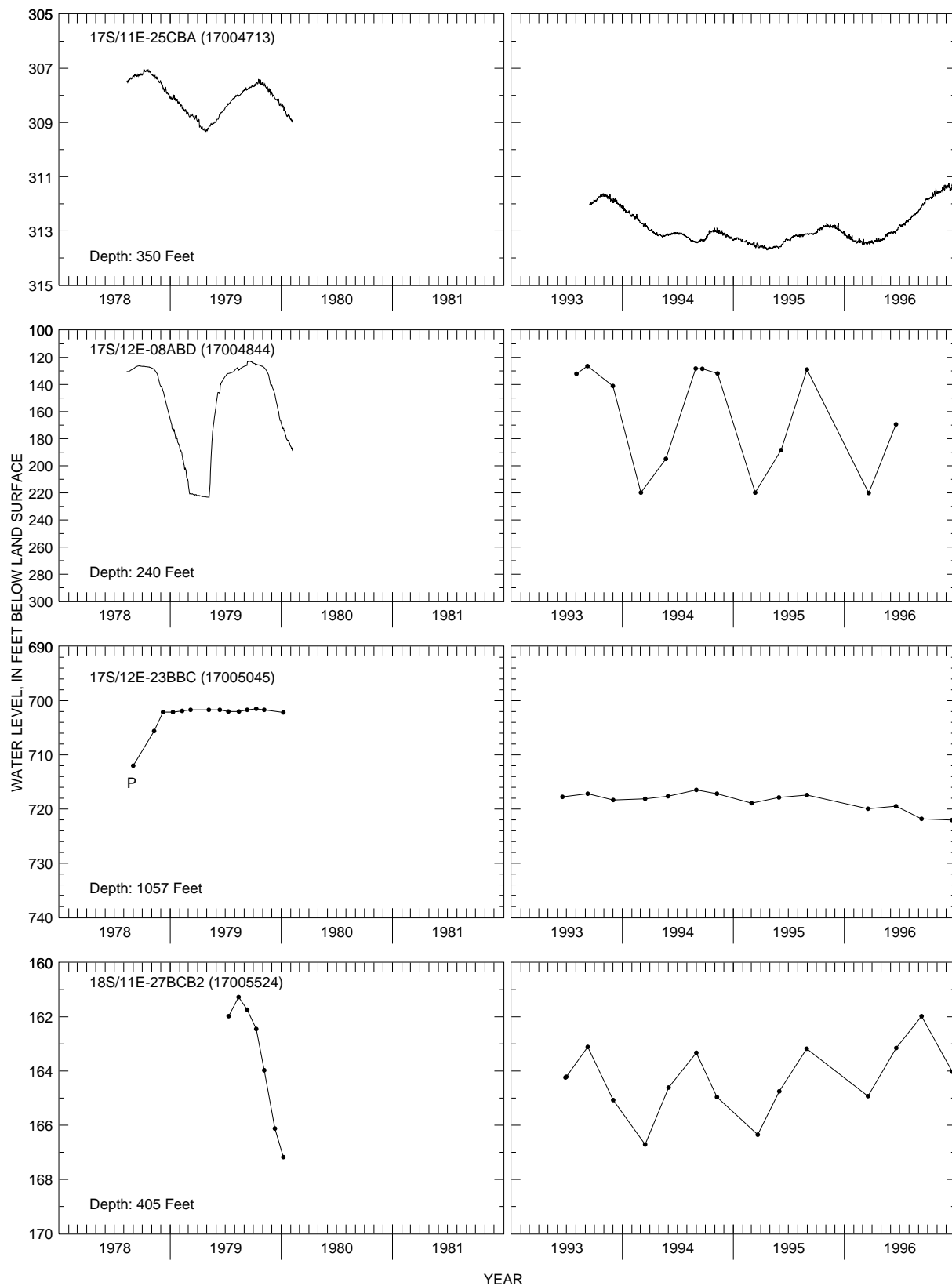


Figure 7. Hydrographs for observation wells in the upper Deschutes Basin, Oregon, measured over two time periods, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

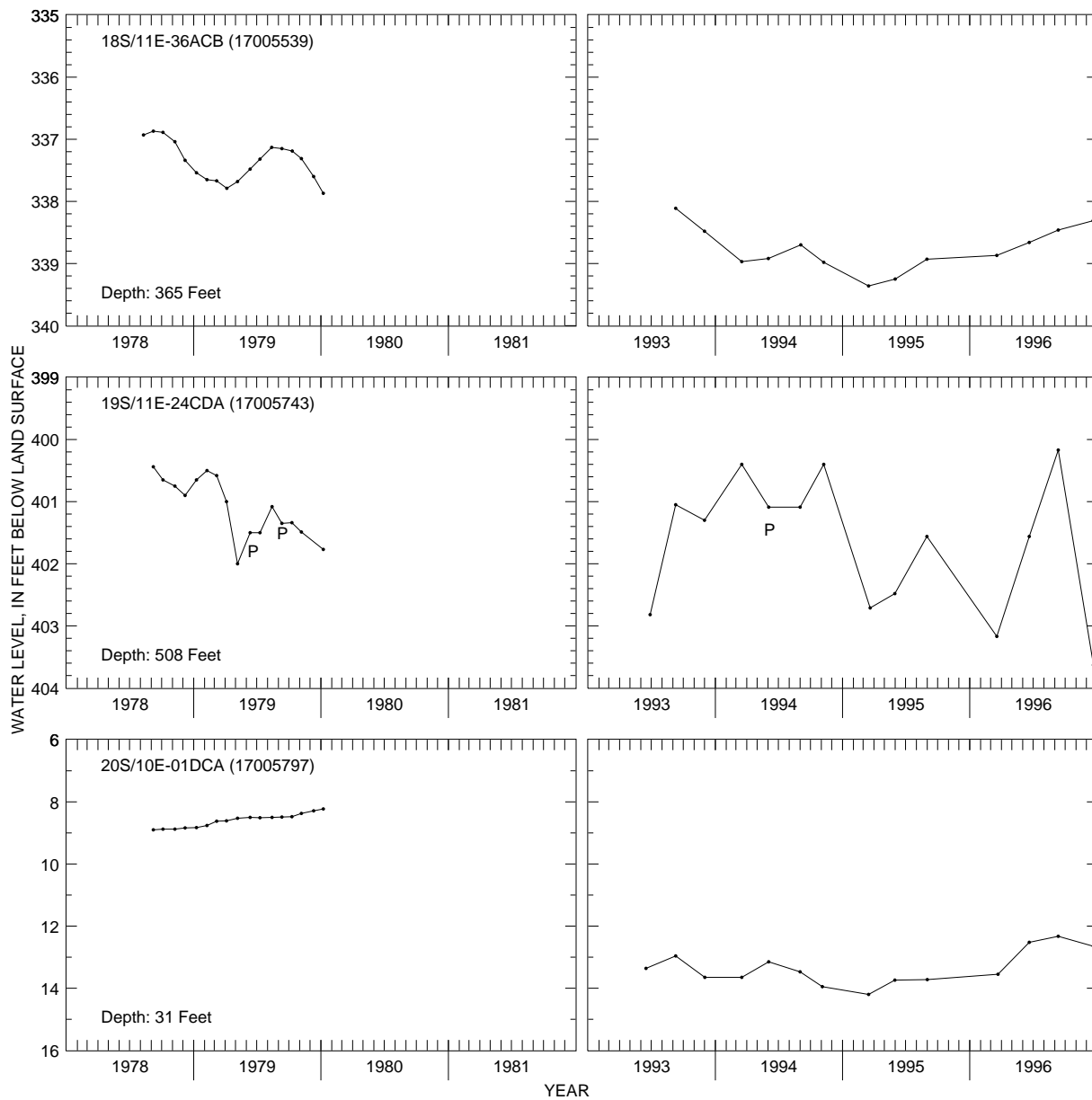


Figure 7. Hydrographs for observation wells in the upper Deschutes Basin, Oregon, measured over two time periods, showing well location, log-id number, and well depth (P, measurement affected by pumping)—Continued.

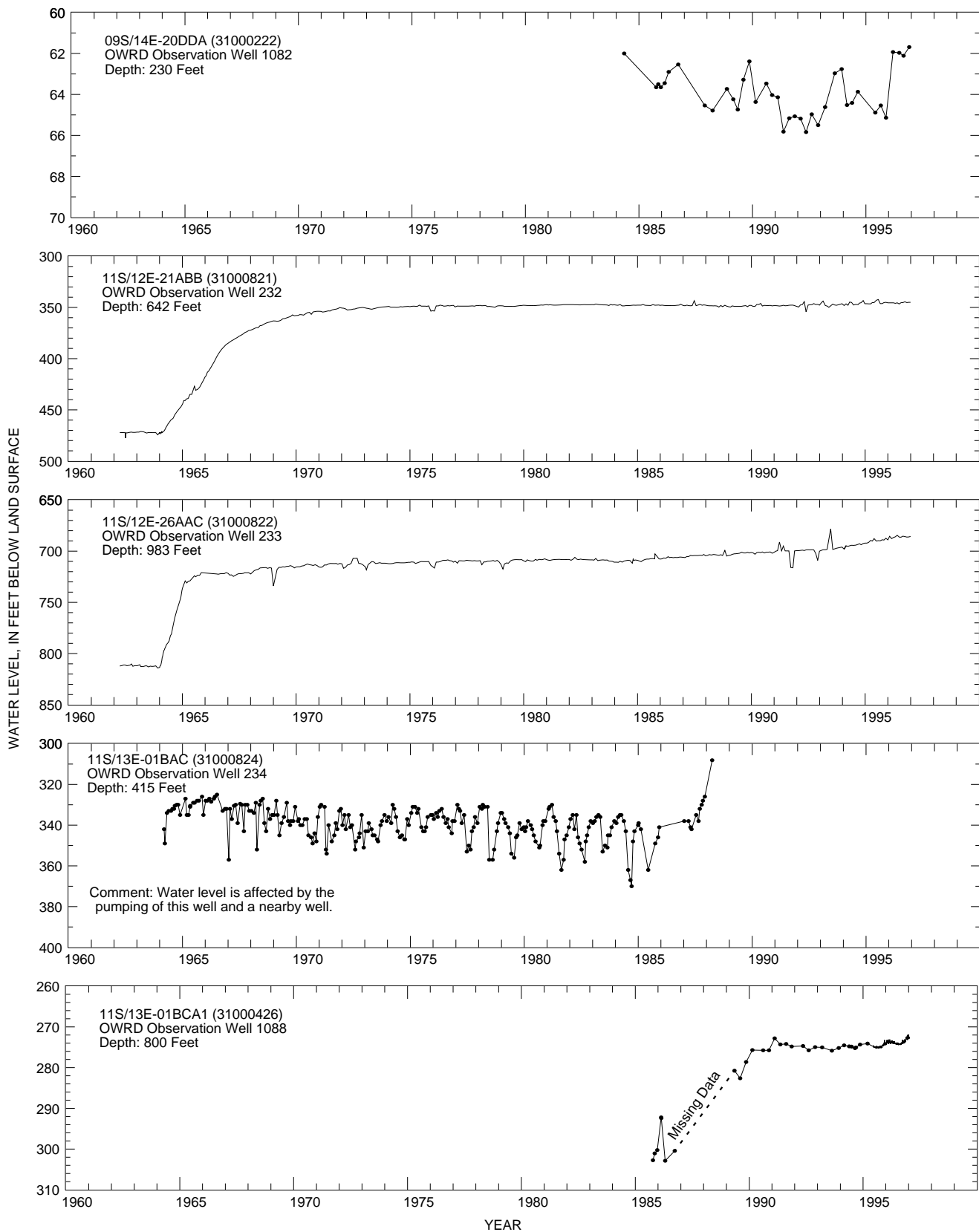


Figure 8. Selected long-term hydrographs from wells in the upper Deschutes Basin, Oregon, showing well location, log-id number, Oregon Water Resources Department observation well number, and well depth.

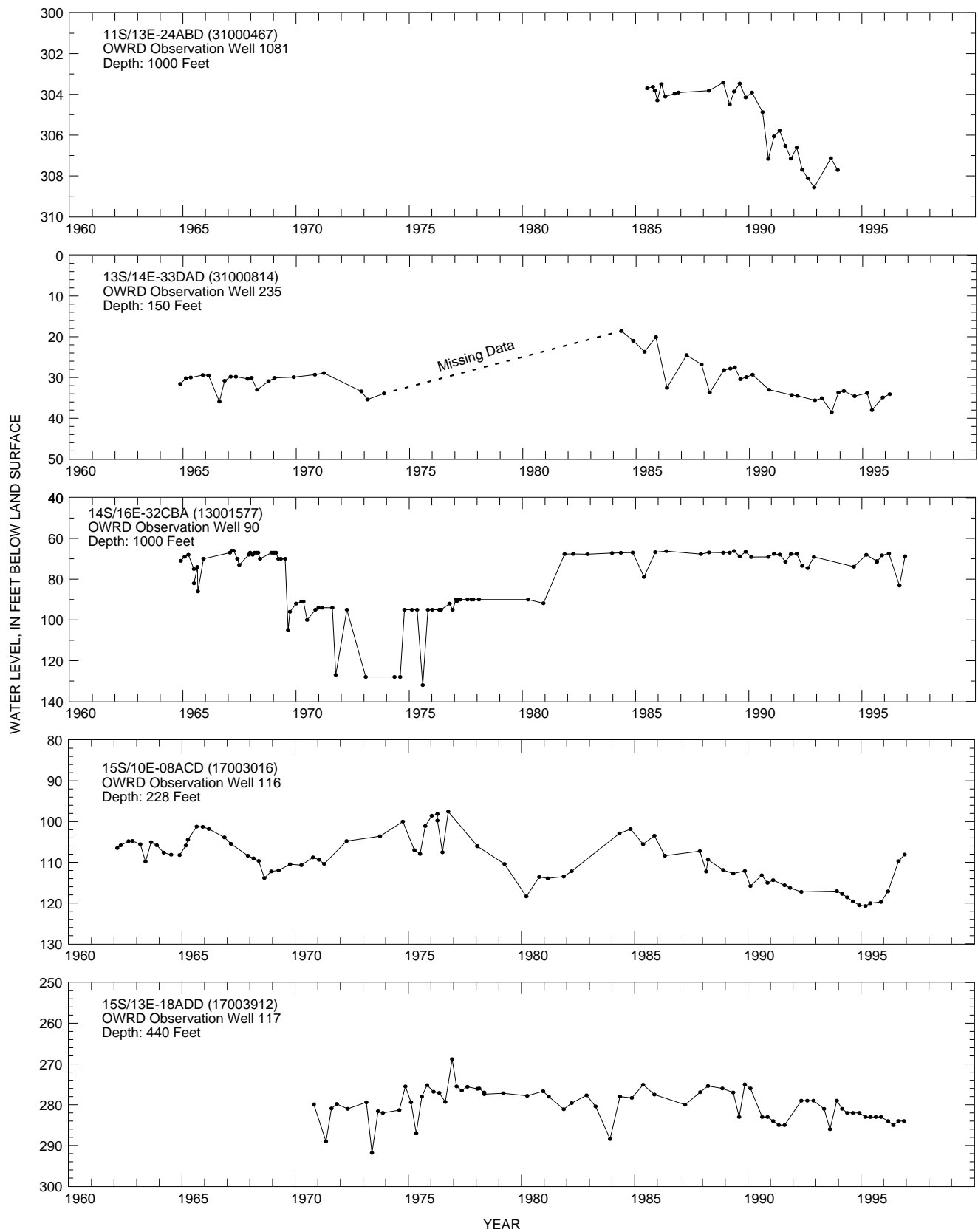


Figure 8. Selected long-term hydrographs from wells in the upper Deschutes Basin, Oregon, showing well location, log-id number, Oregon Water Resources Department observation well number, and well depth—Continued.

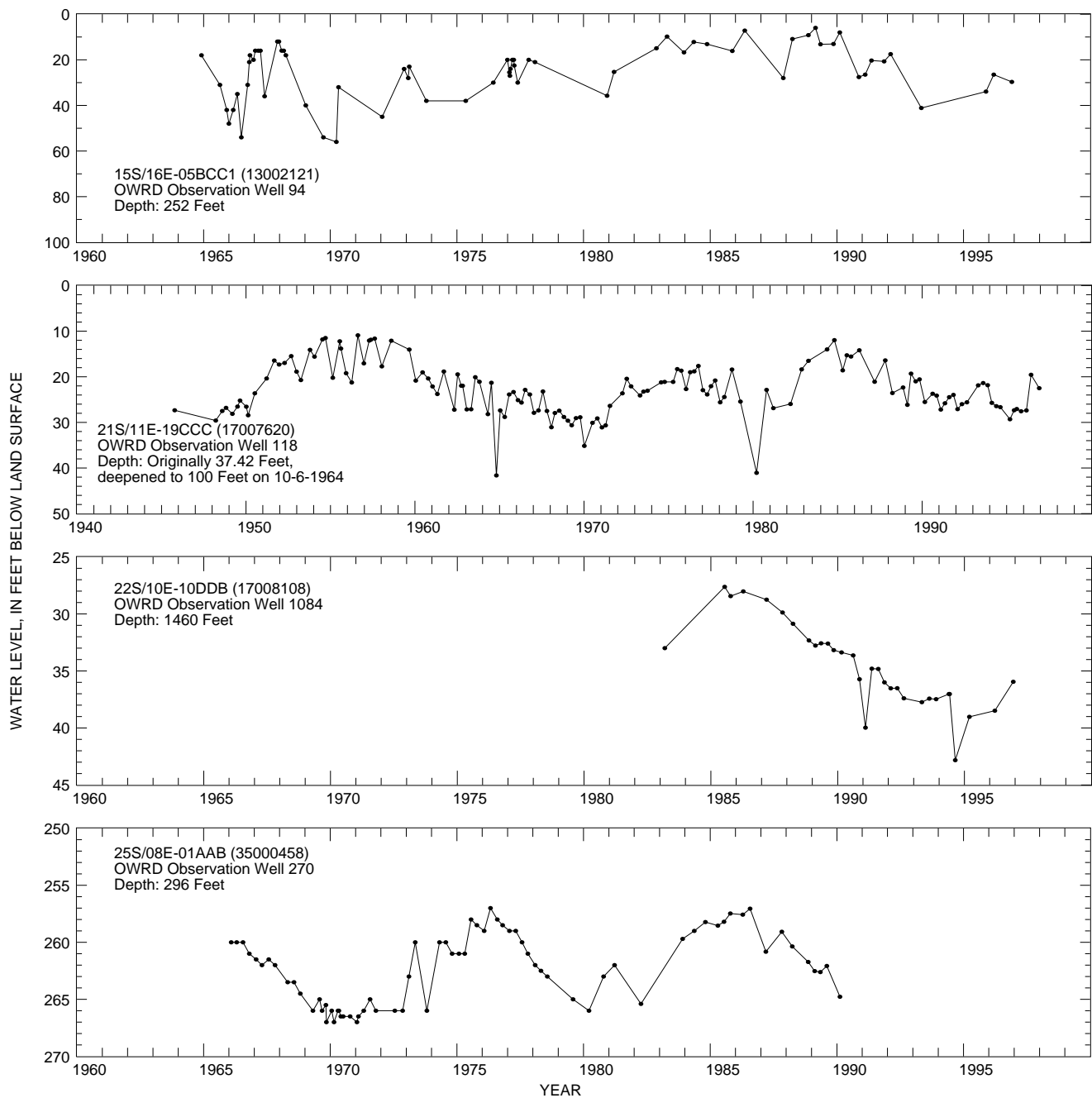


Figure 8. Selected long-term hydrographs from wells in the upper Deschutes Basin, Oregon, showing well location, log-id number, Oregon Water Resources Department observation well number, and well depth—Continued.

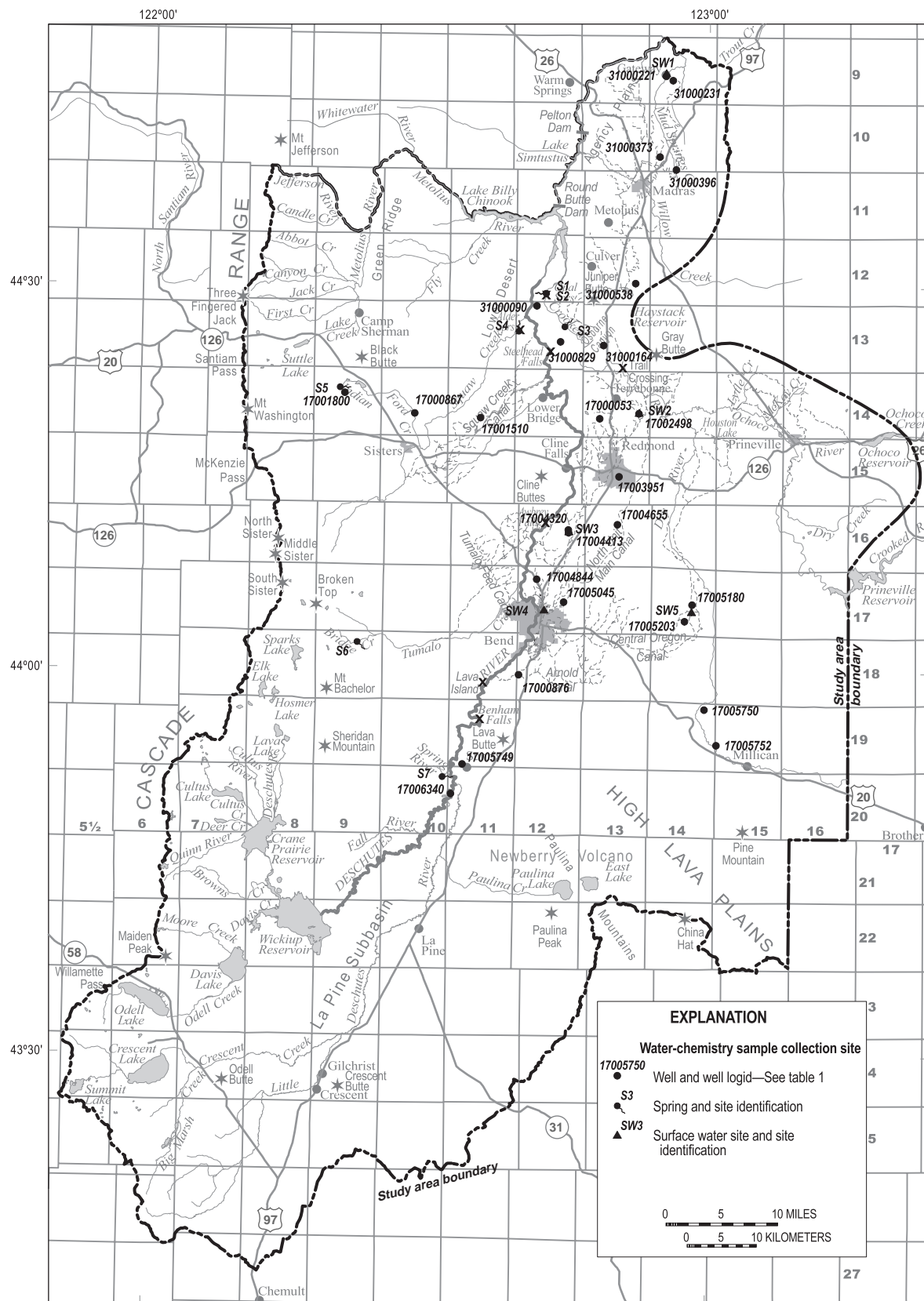


Figure 9. Location of water-chemistry sample collection sites in the upper Deschutes Basin, Oregon.

were collected in 3-liter polyethylene bottles and then transferred and filtered (when required) through silicone tubing into individual sample bottles by using a peristaltic pump. When velocities were too great for the isokinetic sampler, or when the water was too shallow, samples were collected by using a peristaltic pump with the silicone tubing in the centroid of flow, or as grab samples with the bottle opening pointed upstream in the centroid of flow according to the method of Wells and others (1990). Springs were sampled at or near the orifice using a peristaltic pump with the silicone tubing submerged according to the method of Claassen (1982). The field parameters were determined by placing the multiparameter water-quality logging system transmitter directly into the water body near the centroid of flow. The values were recorded until they stabilized.

Quality-control samples were collected for both field and laboratory analysis at more than 10 percent of the sites to verify that sampling and sample-processing procedures did not affect analytical results. Sequential replicate samples were collected to estimate the precision of analytical results as effected by combined sampling and analytical procedures. Field blanks were analyzed to estimate potential contamination of samples due to equipment-cleaning procedures, analyte carryover from previous sites, sampling and sample-processing procedures, and equipment handling and transport between sample collections. At least one quality-control sample was collected during each major sampling trip. The results of the replicate and field blank analyses are stored in the USGS National Water Information System data base.

Filtered samples were analyzed for concentrations of major ions, alkalinity, selected trace elements, and nutrients at the USGS National Water Quality Laboratory (NWQL) in Arvada, Colorado. Laboratory methods for the determination of the chemical constituents are presented in Fishman and Friedman (1989) and Fishman (1993). Calcium, magnesium, sodium, iron, manganese, and silica were analyzed by inductively coupled plasma atomic emission spectrometry. Potassium was analyzed by atomic absorption spectrometry. Chloride, bromide, nitrogen (ammonia, nitrite, and ammonia plus organic, and nitrite plus nitrate), phosphate, and orthophosphate were

analyzed by colorimetry. Sulfate was analyzed by ion-exchange chromatography. Aluminum was analyzed by direct-current plasma atomic emission spectrometry. Fluoride was analyzed with an ion-selective electrode.

Selected samples were analyzed for the isotopic ratios of $^{18}\text{O}/^{16}\text{O}$ and $^2\text{H}/\text{H}$ by mass spectrometry at a USGS National Research Program laboratory. Values are reported as delta (δ) D (deuterium, ^2H) and $\delta^{18}\text{O}$ in comparison to the standard reference composition of standard mean ocean water (SMOW), where δ is expressed in units of per mil (o/oo, parts per thousand). Delta is defined as:

$$\delta \text{ (o/oo)} = [(R_{\text{sample}} / R_{\text{standard}}) - 1] \times 1,000$$

where

$$R = \text{D/H or } ^{18}\text{O}/^{16}\text{O}$$

The tritium (^3H) content of selected samples was analyzed at the USGS Isotope Tracers Laboratory in Menlo Park, California, and at the University of Miami Tritium Laboratory in Miami, Florida, by the electrolytic enrichment-liquid scintillation counting method. The tritium content is reported in picocuries per liter (pCi/L) in tables 4 and 6. Tritium concentrations are commonly expressed in Tritium Units (TU), where one TU is defined as one atom of ^3H per 10^{18} atoms of H. One TU corresponds to 3.19 picocuries per liter (pCi/L) (International Atomic Energy Agency, 1981).

Availability of Data

Data presented in the tables in this report will be made available on the internet for an unspecified amount of time through the home page of the USGS, Water Resources Division office in Portland, Oregon, at the internet address <<http://www.oregon.wr.usgs.gov>>. A digital map of the field-located wells and the water levels in observation wells shown in the hydrographs in figures 6, 7, and 8 will also be available. These data are also available at the USGS, Water Resources Division office in Portland, Oregon.

Additional data that were not included in this report will also be available on the internet. These additional data will include water levels measured in the observation wells as part of this

study after December 31, 1996. Coded lithologic information from the drillers' reports for the majority of the field-located wells included in this study will also be available. The lithologic characteristics of each zone described by the driller in each well were categorized according to a uniform coding scheme to aid in automated plotting and analysis. A text file describing the format of the coded lithology data and an explanation of the codes will be included with the digital data.

Selected wells were geophysically logged to aid in the interpretation of driller's lithologic descriptions and to provide a general assessment of the accuracy of well logs. The geophysically logged wells are identified in table 1 and are available in either digital or analog form.

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DATA TABLES

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon

Well location: See “Well- and Spring-Location System” section for explanation.

Log-id number: Identification number permanently assigned to the well by the U.S. Geological Survey.

Owner: Well owner reported on original well log.

Date drilled: Date of completion of original construction.

Latitude: Latitude of well in degrees, minutes, seconds.

Longitude: Longitude of well in degrees, minutes, seconds.

Altitude: Altitude of land surface at well, in feet above mean sea level, estimated from topographic maps.

Well depth: Depth of completed well, in feet below land surface.

Casing diameter: Diameter of uppermost casing exposed at surface, in inches.

Finish: Type of open interval; **P**, perforated; **S**, screened; **X**, open hole; **O**, open end.

Top and bottom of open interval: Depth of top and bottom of open interval, in feet below land surface.

Diameter of open interval: Diameter of open interval, in inches.

Test method: Method used to determine yield; **B**, bailed; **P**, pump test; **A**, air test; **F**, flowing.

Yield: Well yield in gallons per minute (gpm).

Drawdown: Total water level decline in feet during pumping.

Water level: Static water level in feet below land surface; **D**, indicates water level reported by driller; all others measured by U.S.Geological Survey or Oregon Water Resources Department personnel.

Use: Primary use of water; **H**, domestic; **I**, irrigation; **S**, stock; **N**, industrial; **P**, public supply; **T**, institutional (commonly schools and military); **F**, fire protection; **G**, grounding; **A**, air conditioning (heating/cooling); **C**, commercial; **R**, recreation (commonly campgrounds); **X**, abandoned; **U**, unused.

Remarks: **C**, water chemistry available; **Q**, quarterly observation well; **O**, observation well measured over two separate time periods; **R**, well monitored with digital water-level recorder; **SC**, current Oregon State Water Resources Department observation well; **SD**, discontinued Oregon Water Resources Department observation well; **H6**, hydrograph included in figure 6; **H7**, hydrograph included in figure 7;

H8, hydrograph included in figure 8; **GA**, analog borehole geophysics data available; **GD**, digital borehole geophysics data available; **D**, deepened or reconditioned; **A**, well was utilized in aquifer test.

--, no data.

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Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level			Use	Remarks
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
09S/13E-30BDD	31000207	WEBER, ED	05/27/61	444537	1211336	1400	511.0	6.0	X	40.0	511.0	6.0	B	5.0	402.0	2.0	45.0 (D)	11/26/66	H	
09S/13E-31CBC	31000211	HARDING, DAVID	12/06/86	444431	1211342	1380	80.0	6.0	P	20.0	30.0	6.0	B	10.0	--	1.5	20.0 (D)	12/06/86	H	
									P	70.0	80.0	6.0								
09S/13E-31CDA	31000212	HARDING, DAVID	08/16/86	444428	1211311	1480	650.0	--	X	23.0	650.0	6.0	B	4.0	--	1.5	200.0 (D)	08/16/86	U	
09S/13E-31CDB	31000216	CAMPBELL, VERNE	07/06/64	444429	1211339	1400	142.0	6.0	X	20.0	142.0	6.0	B	10.0	40.0	1.0	90.0 (D)	07/06/64	P	
09S/14E-14CCC	31000219	CHAMPION, WILLIAM	07/13/77	444649	1210146	1962	550.0	12.0	X	113.0	550.0	16.0	A	30.0	--	1.0	39.3	09/06/94	I	Q,H6,GD
09S/14E-20BDB1	31000223	LULOW, KENNETH	07/06/74	444629	1210503	1812	213.0	8.0	P	166.0	186.0	6.0	B	5.0	128.0	2.0	60.0 (D)	09/28/76	H	D
									X	186.0	213.0	8.0								
09S/14E-20BDB2	31000228	VIBBERT, H.A.	06/23/56	444633	1210501	1812	300.0	6.0	X	24.0	300.0	6.0	B	10.0	--	--	--	--	H	
09S/14E-20BDD	31000226	LYDY, JOHN L.	10/05/65	444628	1210452	1785	27.0	8.0	P	18.0	27.0	8.0	B	120.0	0.0	0.5	10.0 (D)	10/05/65	H	
09S/14E-20CAA2	31000225	LUSSENDEN, GEORGE	06/24/74	444618	1210453	1800	200.0	8.0	X	19.0	200.0	8.0	B	25.0	100.0	1.0	70.0	06/24/74	H	
09S/14E-20CAA3	31000221	BOHN, MARY	07/30/88	444622	1210452	1796	40.0	8.0	X	29.0	40.0	8.0	B	15.0	0.0	1.0	5.7	09/21/94	H	C,Q,H6
09S/14E-20CAC	31000015	SHORT, ROBERT	10/30/77	444610	1210502	1804	60.0	8.0	P	20.0	40.0	8.0	P	100.0	5.0	4.0	8.0 (D)	10/30/77	I	
									X	40.0	60.0	8.0								
09S/14E-20DDA	31000222	VIBBERT, J R	05/08/84	444608	1210429	1860	230.0	12.0	X	20.0	230.0	12.0	B	70.0	3.0	2.0	63.4	09/06/94	U	SC,H8
09S/14E-21CCC	31000231	VIBBERT, HUGH	06/22/74	444602	1210407	1956	232.0	8.0	P	197.0	232.0	6.0	B	20.0	3.0	1.0	70.0 (D)	06/22/74	H	C
09S/14E-24DBB	31000232	CHAMPION, WILLIAM	05/19/78	444616	1205951	2179	800.0	8.0	X	21.0	800.0	8.0	A	7.5	--	1.0	30.0 (D)	05/19/78	I	
09S/14E-27AAA	31000233	ROGERS, BILL	05/26/80	444554	1210150	2010	230.0	8.0	X	20.0	230.0	8.0	A	10.0	0.0	1.0	116.9	06/16/94	H	
09S/14E-27AAB	31000234	ROGERS, BILL	05/28/80	444550	1210156	1960	130.0	8.0	X	20.0	130.0	8.0	A	50.0	0.0	1.0	91.8	06/16/94	H	
09S/14E-27BBA	31000102	BROWN, BOB	05/21/92	444556	1210246	1885	285.0	12.0	X	18.0	175.0	8.0	P	65.0	132.0	2.0	22.1	09/06/94	U	Q,H6,GD
									X	175.0	285.0	6.0								

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
09S/14E-27BBB	31000109	BROWN, BOB	07/31/92	444553	1210300	1865	158.0	12.0	P	25.0	50.0	12.0	P	385.0	--	1.0	9.0 (D)	07/31/92	I	
09S/14E-29BCA1	31000237	KNECHTGES, DONALD	03/22/78	444544	1210517	1818	138.0	12.0	X	56.0	158.0	12.0								
09S/14E-29BCA2	31000239	KNECHTGES, DONALD	12/29/76	444542	1210517	1821	150.0	16.0	P	18.0	138.0	10.0	P	150.0	125.0	3.0	12.0 (D)	03/22/78	I	
								15.0	P	20.0	106.0	12.0	A	150.0	80.0	4.0	8.6	06/15/94	I	D
								15.0	X	106.0	150.0	15.0								
09S/14E-30ADD	31000240	KNECHTGES, DONALD	05/15/78	444537	1210527	1830	115.0	12.0	P	20.0	115.0	10.0	B	50.0	10.0	1.0	12.0 (D)	05/15/78	H	
09S/14E-30CDA	31000242	VIBBERT, BRYCE	06/16/83	444515	1210612	1880	605.0	16.0	X	20.0	605.0	16.0	B	105.0	8.0	1.5	14.8	09/25/86	U	
09S/14E-32DAB	31000241	FEIGNER, KURT	08/01/88	444436	1210431	2262	172.0	8.0	P	115.0	155.0	6.0	A	30.0	--	1.0	99.6	06/14/94	H	
								6.0	X	155.0	172.0	8.0								
09S/14E-33DAD1	31000243	FESSLER, LEROY	11/17/79	444433	1210301	2018	220.0	10.0	X	37.0	220.0	10.0	B	70.0	0.0	1.0	18.0 (D)	11/17/79	I	
09S/14E-33DAD2	31000247	FESSLER, LEROY	09/30/77	444428	1210304	2021	250.0	11.0	X	30.0	250.0	10.0	B	30.0	7.0	1.0	11.0 (D)	10/07/77	I	
09S/14E-33DBC	31000249	TALLMAN, JIM D.	05/16/66	444431	1210329	2098	198.0	6.6	X	18.0	198.0	6.0	B	30.0	10.0	2.0	120.0 (D)	05/16/66	H	
09S/14E-34BCC	31000078	FESSLER, LEROY	07/26/91	444439	1210259	2008	210.0	12.0	X	37.0	210.0	12.0	A	1200.0	0.0	1.0	85.0 (D)	07/26/91	I	
10S/12E-01CDD1	31000118	PGE	10/05/92	444331	1211445	1418	300.0	8.0	P	40.0	60.0	8.0	B	4.0	--	1.0	40.0 (D)	10/05/92	H	
								8.0	X	60.0	300.0	8.0								
10S/12E-01CDD2	31000125	PGE	11/21/92	444329	1211443	1455	900.0	8.0	X	55.0	910.0	8.0	A	8.0	--	1.0	38.9	09/07/94	P	Q,H6,GD
10S/12E-24DAC	31000086	PGE	02/08/92	444103	1211416	1608	65.0	6.0	P	39.0	59.0	6.0	B	25.0	4.0	5.0	38.2	06/13/94	P	
10S/13E-06CBC	31000325	HOMESTEAD INVESTMENT CORP.	05/10/79	444335	1211356	1578	250.0	8.0	P	123.0	182.0	6.0	A	52.0	--	1.5	97.9	09/07/94	H	Q,H6
10S/13E-06CDD	31000324	HOMESTEAD INVESTMENT CORP.	06/24/83	444324	1211326	2061	600.0	8.0	--	--	--	8.0	--	--	--	--	327.8	06/14/94	H	
10S/13E-28AAA	31000327	CASCADE FARMS	02/20/88	444041	1211023	2394	915.0	8.0	X	19.0	915.0	8.0	B	5.0	0.0	1.0	435.0 (D)	02/20/88	U	
10S/14E-05DDB	31000334	OSBORN, MAX	02/18/60	444331	1210428	2302	180.0	6.0	P	140.0	180.0	5.0	B	5.0	20.0	1.0	155.0 (D)	11/17/75	H	D
10S/14E-07AAA	31000336	--	08/14/56	444318	1210529	2224	102.0	6.0	--	--	--	--	B	10.0	2.0	--	--	--	H	
10S/14E-08CCB	31000337	KISER, ELLIS	12/01/80	444240	1210522	2208	325.0	6.6	X	139.0	325.0	6.0	B	6.0	20.0	1.0	139.5	09/06/94	H	
10S/14E-09ACB	31000339	FEIGNER, LONNIE	04/10/81	444302	1210334	2369	362.0	8.0	P	302.0	362.0	6.0	P	18.0	0.0	1.0	295.0 (D)	06/19/81	H	D
10S/14E-10BCA	31000341	FORTSON, ED	11/03/62	444305	1210248	2285	302.0	6.0	X	20.0	302.0	6.0	B	7.0	40.0	1.0	241.0 (D)	11/03/62	H	
10S/14E-10BCB	31000333	HOWELL, WILLARD	04/07/71	444307	1210300	2295	275.0	5.0	P	180.0	190.0	4.0	B	8.0	0.0	1.0	223.7	06/06/94	H	
								5.0	X	190.0	275.0	5.0								
10S/14E-10BCD	31000342	EASTERLING, JOHN	04/21/66	444257	1210243	2290	374.0	6.0	X	30.0	374.0	6.0	B	10.0	40.0	1.0	253.0 (D)	04/21/66	H	
10S/14E-17DDA	31000343	ZACHERY, PAUL	09/16/77	444144	1210415	2360	188.0	8.0	P	148.0	188.0	6.0	A	25.0	--	--	146.6	09/07/94	I	Q,H6
10S/14E-18ACB	31000346	HOLDIN, L.B.	12/14/65	444212	1210603	2234	135.0	6.0	X	20.0	135.0	6.0	B	7.5	18.0	1.0	117.0 (D)	12/14/65	H	
10S/14E-18CAD	31000345	FECK, ED B.	10/15/60	444153	1210607	2267	184.0	6.0	X	8.0	184.0	6.0	B	8.0	18.0	1.0	124.0 (D)	10/19/60	H	
10S/14E-19AAA	31000351	FIELDS, RAYMOND	06/14/60	444131	1210530	2263	155.0	6.0	X	24.0	155.0	6.0	P	10.0	0.0	1.0	132.0 (D)	05/13/82	H	D
10S/14E-19DCC	31000353	NORTON RANCH	10/22/70	444051	1210606	2335	670.0	6.0	X	292.0	670.0	6.0	B	25.0	150.0	2.0	345.0 (D)	10/22/70	S	
10S/14E-20DCC	31000357	TOWNSEND, EARL	05/21/64	444046	1210449	2280	302.0	6.0	X	222.0	302.0	6.0	B	15.0	60.0	2.0	114.2	06/16/94	H	
10S/14E-21BBB	31000355	KNUTHS, TIM	06/17/87	444131	1210405	2410	375.0	12.0	P	248.0	261.0	8.0	B	7.0	28.0	1.0	261.0 (D)	06/17/87	H	
								12.0	P	332.0	375.0	8.0								
10S/14E-21BDD	31000360	MAXWELL, ART	09/15/78	444114	1210346	2470	525.0	6.0	P	260.0	290.0	4.0	B	9.0	--	--	324.0 (D)	09/15/78	H	
								6.0	P	400.0	450.0	4.0								
								6.0	P	490.0	523.0	4.0								
10S/14E-27CCA	31000362	KNUTHS, GARY	12/27/74	443959	1210250	2378	405.0	6.6	X	29.0	405.0	8.0	P	200.0	0.0	2.5	98.4	09/07/94	S	
10S/14E-28ACC1	31000111	CROCKER, ROBERT	08/16/92	444018	1210334	2362	600.0	12.0	P	390.0	490.0	12.0	A	200.0	210.0	4.0	66.3	06/16/94	H	
								12.0	X	490.0	600.0	8.0								
10S/14E-28ACC2	31000363	CROCKER, LEWIS	02/--/56	444021	1210336	2357	82.0	6.0	X	10.0	82.0	6.0	B	10.0	2.0	--	--	--	--	
10S/14E-30DAD	31000373	LEE, CURTIS	04/06/78	444006	1210531	2372	640.0	6.0	P	520.0	600.0	5.0	P	6.0	--	4.0	318.0 (D)	04/06/78	H	C,D
10S/14E-31BAA	31000381	WHITE, GARY	05/02/81	443950	1210606	2436	390.0	8.0	X	19.0	390.0	8.0	B	12.0	0.0	1.0	345.0 (D)	05/02/81	H	
10S/14E-32BBA	31000387	COLLINGS, M.	11/17/69	443950	1210515	2398	285.0	6.0	X	25.0	285.0	6.0	B	18.0	15.0	1.0	241.0 (D)	11/17/69	H	
10S/14E-32DCD	31000382	PHELPS, JIM	04/17/80	443905	1210443	2479	385.0	8.0	X	19.0	385.0	8.0	P	15.0	0.0	1.0	237.0 (D)	12/23/90	H	D
10S/14E-32DDC	31000383	GOODING, LARRY	08/30/75	443903	1210432	2460	300.0	8.0	X	20.0	300.0	8.0	B	10.0	0.0	2.0	225.0	09/07/94	H	Q,H6

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
10S/14E-33BAC	31000397	SKEANS, CHAS.	05/10/60	443939	1210354	2360	110.0	6.0	X	12.0	110.0	6.0	B	40.0	2.0	1.5	80.0 (D)	05/10/60	H	
10S/14E-33CDD	31000396	LAVENDER, RAY	02/08/79	443906	1210344	2480	260.0	6.0	X	126.0	260.0	6.0	B	8.0	20.0	1.0	174.5	06/28/94	H	C
11S/10E-13ADB	31000414	EYERLY, JACK	11/30/72	443713	1212828	1970	230.0	8.0	P	75.0	230.0	6.0	B	20.0	12.0	1.0	17.0 (D)	11/30/72	H	
11S/11E-20CCB	31000415	HALL, JOE	01/05/74	443557	1212706	1945	101.0	8.0	P	21.0	101.0	6.0	B	20.0	0.0	1.0	16.0 (D)	01/05/74	H	
11S/11E-29CCB	31000418	U.S. FOREST SERVICE	09/19/83	443505	1212657	2000	117.0	8.0	P	87.0	117.0	6.0	B	14.0	4.0	1.0	33.3	08/09/85	R	
11S/11E-29CDB	31000417	U.S. FOREST SERVICE	09/15/83	443507	1212644	1955	100.0	8.0	P	70.0	100.0	6.0	B	18.0	6.0	2.0	-9.2 (D)	09/15/83	R	
11S/11E-30DCA	31000416	U.S. FOREST SERVICE	06/27/87	443502	1212734	2115	130.0	6.0	P	--	--	--	B	15.0	--	1.0	91.3	08/29/94	R	Q,H6
11S/11E-30DDA	31000419	U.S. FOREST SERVICE	09/20/83	443504	1212716	2060	117.0	8.0	P	87.0	117.0	6.0	B	14.0	6.0	2.0	48.0 (D)	09/20/83	R	
11S/12E-02CCC	31000422	CONF. TRIBES OF WARM SPRINGS	08/17/62	443829	1211602	1640	68.0	6.6	O	68.0	68.0	6.6	B	15.0	1.0	1.5	54.0	07/11/85	H	
11S/12E-21ABB	31000821	PGE	08/01/58	443637	1211754	2217	642.0	--	--	--	--	--	--	--	--	--	348.2	11/27/91	U	SC,H8
11S/12E-26AAC	31000822	PGE	10/31/58	443532	1211511	2566	983.0	--	--	--	--	--	--	--	--	--	699.8	10/31/91	U	SC,H8
11S/13E-01BAC	31000824	CITY OF MADRAS	--/--/10	443849	1210725	2278	415.0	8.0	--	--	--	--	--	150.0	37.0	--	308.0	04/01/88	P	SD,H8
11S/13E-01BCA1	31000426	CITY OF MADRAS	01/11/79	443849	1210724	2275	800.0	16.0	P	361.0	375.0	12.0	P	85.0	60.0	7.0	275.1	09/07/94	U	SC,R,H8
									X	440.0	460.0	10.0								
									X	480.0	800.0	8.0								
11S/13E-01BCA2	31000427	CITY OF MADRAS	02/11/66	443848	1210728	2278	451.0	16.0	P	424.0	440.0	12.0	P	470.0	47.0	12.0	370.0	08/23/85	P	A
11S/13E-02AAC	31000425	ABRAMS, BERT, C.	11/16/74	443851	1210753	2451	344.0	6.0	X	20.0	344.0	8.0	B	18.0	30.0	2.0	296.0 (D)	11/16/74	I	
11S/13E-02DDC	31000428	CITY OF MADRAS	09/22/72	443812	1210800	2222	477.0	16.0	P	408.0	421.0	12.0	P	329.0	130.0	12.0	389.0	08/23/85	P	
									P	421.0	471.0	12.0								
33 11S/13E-06BBD	31000026	DAHLGREN, DARRELL	03/29/82	443850	1211332	2365	267.0	8.0	X	19.0	267.0	8.0	B	0.5	--	1.0	256.1	07/13/94	U	
11S/13E-06DAD	31000429	MCCOOL, GERALD, W.	08/--/86	443828	1211241	2415	600.0	12.0	X	18.0	600.0	12.0	P	26.0	0.0	1.0	480.0 (D)	08/--/86	H	
11S/13E-07CCD1	31000435	BELLE, JENNIE	05/11/78	443721	1211334	2680	835.0	6.0	X	20.0	835.0	6.0	B	3.5	--	1.0	767.9	09/07/94	U	O,H7,GD,D
11S/13E-07CCD2	31000436	BELLE, JENNIE	08/15/83	443724	1211335	2670	600.0	8.0	X	18.0	600.0	8.0	--	--	--	--	DRY (D)	08/15/83	U	
11S/13E-11DBB	31000439	ALLEN, LEROY	11/11/77	443725	1210814	2297	410.0	6.0	X	24.0	410.0	6.0	B	12.0	48.0	1.0	317.2	09/06/94	I	Q,H6,D
11S/13E-12ABC	31000446	BUCK, KENNETH R.	07/10/74	443755	1210701	2255	390.0	8.0	P	210.0	390.0	6.0	B	17.0	10.0	1.0	225.0 (D)	07/10/74	H	
11S/13E-12DAD	31000453	WALPORT, THELMA	09/05/62	443735	1210636	2292	73.0	6.0	X	20.0	73.0	6.0	B	7.0	--	2.0	41.0 (D)	09/05/62	H	
11S/13E-13CAC	31000110	BUSH, MIKE	08/01/92	443644	1210719	2355	470.0	6.0	X	18.0	470.0	8.0	P	2.0	127.0	2.0	353.3	09/06/94	S	Q,H6
11S/13E-23CCA	31000462	THORNTON, MARVIN	04/28/89	443544	1210845	2438	541.0	8.0	P	520.0	540.0	6.0	A	30.0	--	1.0	432.1	09/06/94	H	
11S/13E-24ABD	31000467	BABLER, LLOYD	04/05/67	443619	1210653	2370	1000.0	10.0	X	20.0	1000.0	10.0	P	95.0	440.0	--	304.0	09/25/86	U	SD,H8,D
11S/13E-24BCB	31000027	AITKEN, DONALD J	08/16/78	443608	1210739	2465	503.0	6.0	X	29.0	503.0	6.0	B	10.0	30.0	1.5	454.7	07/10/85	I	
11S/13E-24BCD	31000466	MANNING, BARBER	04/29/63	443602	1210733	2490	590.0	6.0	X	21.0	590.0	6.0	B	11.0	34.0	1.0	473.5	06/30/94	U	R,H6,GD
11S/13E-28CDA	31000464	OREGON TRUNK RAIL.	--	443454	1211103	2535	878.0	--	--	--	--	--	--	--	--	--	645.0 (D)	--	U	
11S/13E-30CCD	31000826	HENSKY, FRED	--	443446	1211336	2575	1300.0	--	X	--	--	--	--	--	--	--	750.0 (D)	--	U	
11S/13E-36ADA	31000079	NANCE, ROY	09/09/91	443425	1210638	2565	460.0	8.0	X	19.0	460.0	8.0	--	10.0	0.0	1.0	214.6	09/06/94	U	Q,H6
11S/14E-04BBA	31000470	PATTERSON, JERRY	11/27/78	443855	1210353	2420	270.0	6.0	P	34.0	234.0	5.0	B	12.0	0.0	1.0	92.0 (D)	07/13/79	H	D
11S/14E-07BAA	31000471	THOMAS, DOROTHY	12/15/62	443804	1210555	2527	681.0	6.0	X	21.0	681.0	6.0	B	8.0	40.0	1.0	462.0 (D)	12/15/62	H	D
11S/14E-12BCB	31000472	GREY BUTTE	04/24/73	443754	1210028	2938	170.0	6.0	X	110.0	170.0	6.0	B	8.0	117.0	1.0	3.0 (D)	04/24/73	S	
		GRAZING ASSOC.																		
11S/14E-16BAD	31000475	SEIBOLD, GARY	01/03/89	443708	1210333	2550	131.0	6.0	P	110.0	130.0	6.0	B	35.0	20.0	1.0	113.4	07/13/94	H	
11S/14E-18CAC	31000478	SURATT, DORIS	11/19/70	443640	1210613	2296	32.0	6.0	P	19.0	28.0	6.0	B	40.0	5.0	2.0	14.0 (D)	11/19/70	I	
									X	28.0	32.0	6.0								
11S/14E-18CBD	31000484	GALE, WES	07/15/77	443644	1210617	2292	412.0	6.0	P	147.0	167.0	6.0	A	2.0	50.0	1.0	188.0 (D)	07/11/78	H	D
									X	167.0	412.0	6.0								
11S/14E-18DAD	31000476	HOMESTEAD INVESTMENT CORP.	11/08/83	443643	1210528	2399	340.0	8.0	X	39.0	340.0	8.0	A	10.0	--	1.0	261.2	09/09/94	H	Q,H6
11S/14E-30BBA	31000490	HALL, JOE	07/12/63	443532	1210619	2435	175.0	5.0	P	130.0	170.0	5.0	P	20.0	5.0	2.0	123.7	06/29/94	H	
12S/09E-19ABA	31000510	DESCHUTES NATIONAL FOREST	09/07/83	443122	1214157	3185	82.0	8.0	P	52.0	82.0	6.0	B	12.0	7.0	1.0	31.0 (D)	09/07/83	R	
12S/09E-34ACB	31000156	LUNDGREN, KIM	07/26/93	442926	1213832	2930	128.0	8.0	P	100.0	120.0	6.0	B	20.0	0.0	1.0	54.6	07/15/94	H	
									X	125.0	128.0	6.0								

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
12S/09E-34BBC	31000157	LUNDGREN, KIM	08/01/93	442928	1213907	2920	80.0	8.0	P	55.0	75.0	6.0	B	20.0	0.0	1.0	29.1	07/15/94	H	O,H7,GD
12S/11E-02CDA	31000514	STILLS, DOUG	05/06/70	443318	1212251	2540	600.0	10.0	P	520.0	600.0	8.0	B	20.0	0.0	2.0	414.9	08/29/94	U	
12S/11E-04ABD	31000517	BECHE AND BONSAI	08/12/64	443354	1212506	2418	324.0	6.0	X	15.0	324.0	6.0	B	20.0	27.0	1.0	288.0 (D)	08/12/64	U	
12S/11E-11ABC	31000025	KING, JAMES	03/11/80	443300	1212248	2850	850.0	8.0	X	19.0	850.0	8.0	B	5.0	1.0	1.0	750.0 (D)	03/11/80	H	
12S/12E-04BDD	31000518	WHEELER, ROBT	04/09/70	443339	1211805	2600	650.0	8.0	P	570.0	650.0	6.0	B	10.0	0.0	2.0	556.0	08/29/94	U	
12S/12E-06ABD	31000423	LEWIS, BOB	04/15/80	443355	1212010	2640	725.0	8.0	X	19.0	725.0	8.0	B	4.0	0.0	1.0	570.2	06/30/94	H	
12S/12E-10CDC1	31000522	OREGON STATE HIGHWAY DEPT.	07/12/70	443224	1211655	1955	49.0	8.0	P	21.0	47.0	8.0	B	90.0	0.0	1.0	12.7	07/01/94	R	
12S/12E-10CDC2	31000521	OREGON STATE HIGHWAY DEPT.	07/16/70	443224	1211655	1955	49.0	8.0	P	21.0	47.0	8.0	B	90.0	0.0	1.0	11.3	07/01/94	R	
12S/12E-17DCA	31000524	ELICH, WILLIAM	08/05/78	443134	1211857	2662	680.0	6.0	X	19.0	680.0	8.0	B	6.0	0.0	1.0	617.0 (D)	08/05/78	H	D
12S/12E-20ABC	31000527	HISCOE, BILL	08/05/80	443116	1211911	2695	735.0	8.0	X	19.0	735.0	8.0	B	5.0	0.0	1.0	675.0 (D)	08/05/80	H	
12S/12E-20ABD	31000528	HINCHEY, JOHN	03/13/67	443114	1211858	2685	704.0	8.0	P	604.0	704.0	5.0	B	10.0	0.0	2.0	627.3	06/30/94	H	
12S/12E-20ACB	31000523	LIHS, JAMES	06/10/85	443108	1211913	2695	755.0	8.0	P	735.0	755.0	6.0	A	10.0	--	2.0	706.0 (D)	06/10/85	H	
12S/12E-20ACC	31000525	MOORE, ELMER C	08/02/80	443100	1211912	2690	715.0	8.0	X	19.0	715.0	8.0	P	8.5	0.0	2.5	704.4	08/20/85	H	
12S/12E-22BBB	31000529	GRAY BUTTE GRAZING ASSOC.	05/05/72	443125	1211720	2605	707.0	8.0	P	627.0	707.0	6.0	B	5.0	0.0	1.0	602.0 (D)	05/05/72	H	
12S/12E-23AAB	31000515	DEMONT, BEEBE	09/14/62	443126	1212229	2779	651.0	--	--	--	--	--	B	3.0	45.0	1.0	601.0 (D)	09/14/62	U	
12S/13E-06BCA	31000526	HARTNAGEL, THEO	--/--/25	443336	1211336	2592	695.0	--	--	--	--	--	--	--	--	--	690.0 (D)	--	U	
12S/13E-11DBB	31000530	MCBEE, ROBT	07/31/81	443232	1210813	2750	383.0	6.0	X	184.0	383.0	6.0	A	8.0	0.0	1.0	339.0 (D)	07/31/81	H	C
12S/13E-16ABB	31000827	HALE, ORLA C.	--	443200	1211040	2740	630.0	--	--	--	--	--	--	--	--	--	540.0 (D)	08/21/25	U	
12S/13E-18DAC	31000828	BARBER, WILLIAM	--	443131	1211245	2630	774.0	--	--	--	--	--	--	--	--	--	700.0 (D)	08/20/25	U	
12S/13E-26ABA	31000538	HAVERFIELD, BERT	06/27/74	443016	1210806	2955	850.0	8.0	X	19.0	850.0	8.0	B	1.5	10.0	1.0	428.5	07/11/85	H	
12S/14E-07DBD	31000548	MORROW, ANDREW	09/10/81	443218	1210542	2925	420.0	8.0	X	18.0	420.0	8.0	A	28.0	--	1.0	395.5	06/28/84	H	
13S/08E-16CAB	31000148	CHRISTIAN YOUTH CAMP	07/01/93	442637	1214719	4318	104.0	8.0	P	79.0	99.0	6.0	P	10.0	0.0	2.0	24.0 (D)	07/01/93	H	
13S/08E-24CDD	31000591	METHODIST YOUTH CAMP	03/27/78	442524	1214331	3522	410.0	8.0	X	63.0	410.0	8.0	B	5.0	20.0	4.0	325.0 (D)	03/27/78	P	
13S/08E-26BCC	31000592	USFS-SUTTLE LAKE	11/26/79	442455	1214515	3460	67.0	10.0	P	47.0	67.0	6.0	P	80.0	1.0	4.0	26.6	09/02/94	R	Q,H6
13S/08E-27ADA	31000594	ASSEMBLY OF GOD YOUTH CAMP	07/19/85	442503	1214526	3460	44.0	6.0	O	44.0	44.0	6.0	B	40.0	0.0	1.0	27.4	06/11/94	H	
13S/09E-03AAC1	31000070	ELY, JOSEPH	05/09/91	442835	1213815	2915	108.0	8.0	P	88.0	108.0	6.0	A	100.0	--	1.0	19.0 (D)	05/09/91	H	
13S/09E-03AAC2	31000129	HOGAN, RICHARD	11/28/92	442838	1213812	2910	108.0	8.0	P	83.0	103.0	6.0	P	25.0	0.0	4.0	9.9	09/02/94	H	
13S/09E-03ACD	31000600	DESCHUTES NATIONAL FOREST	09/09/83	442821	1213820	2922	57.0	8.0	X	22.0	57.0	8.0	P	40.0	29.0	5.0	6.0 (D)	09/09/83	H	
13S/09E-10BDA	31000105	BAY RIVER DEVELOPMENT	06/26/92	442737	1213841	2955	200.0	6.0	P	80.0	95.0	6.0	A	70.0	--	1.0	4.0 (D)	06/26/92	H	
									P	120.0	140.0	6.0								
									P	160.0	200.0	6.0								
13S/09E-10BDD	31000161	BLACK BUTTE SCHOOL	08/25/93	442734	1213852	2965	88.0	8.0	P	63.0	83.0	6.0	A	50.0	0.0	1.0	15.0 (D)	08/25/93	T	Q,H6
13S/09E-15BBD	31000116	GUSTAFSON, DALE	10/13/92	442649	1213857	2980	68.0	8.0	X	41.0	68.0	8.0	A	25.0	6.0	1.0	5.0 (D)	10/13/92	H	
13S/11E-15ACA	31000651	ALLEY	05/15/62	442647	1212347	2675	495.0	10.0	P	164.0	264.0	10.0	--	--	--	--	290.0 (D)	05/15/62	I	
									X	264.0	495.0	10.0								
13S/11E-17DBC	31000160	JUDSON, CLIFF	07/17/93	442632	1212623	2919	260.0	8.0	P	240.0	260.0	6.0	A	6.0	0.0	1.0	212.0 (D)	07/17/93	H	
13S/11E-24ADA	31000007	SPEZZA, PAUL	08/28/90	442559	1212109	2505	230.0	8.0	P	194.0	214.0	6.0	A	15.0	0.0	1.0	136.1	07/14/94	H	
									X	214.0	230.0	8.0								
13S/11E-32DCD	31000853	MASSEY, JIM	12/14/93	442340	1212619	2939	620.0	8.0	P	580.0	620.0	6.0	A	16.0	0.0	1.0	479.6	07/01/94	H	
13S/12E-03BAB	31000516	SMITH, EUGENE	04/18/77	442844	1211657	2830	740.0	6.0	X	19.0	740.0	6.0	--	--	--	--	DRY (D)	04/18/77	X	C
13S/12E-05ADC	31000090	HETTICK, FRANK	02/26/92	442829	1211848	2778	870.0	8.0	P	830.0	870.0	6.0	A	20.0	0.0	1.0	739.0 (D)	02/26/92	H	
13S/12E-10DDC	31000652	CROOKED RIVER RANCH	09/19/78	442706	1211622	2435	325.0	6.0	X	19.0	325.0	6.0	B	12.0	0.0	1.0	236.7	08/30/94	H	
13S/12E-14BDD	31000832	CROOKED RIVER RANCH	--/--/44	442638	1211536	2460	280.0	--	--	--	--	--	--	--	--	--	224.3	06/16/94	I	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level		Use	Remarks			
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum			Date		
13S/12E-16DAC	31000880	CROOKED RIVER RANCH	05/26/94	442630	1211733	2745	951.0	14.0	P	640.0	760.0	14.0	P	750.0	2.0	8.0	502.0 (D)	05/26/94	P			
35	13S/12E-20CBB	31000073	COOPER, GLEN	05/30/91	442540	1211944	2665	415.0	8.0	X	19.0	415.0	8.0	A	10.0	0.0	1.0	218.1	06/23/94	H	Q,H6,GD	
	13S/12E-21AAC	31000654	HART, ROSS	11/09/76	442603	1211736	2810	584.0	8.0	X	19.0	584.0	6.0	B	7.5	0.0	1.0	542.9	08/30/94	H		
	13S/12E-22ADB	31000658	JENSEN, LEON	09/24/78	442557	1211628	2803	605.0	8.0	P	580.0	600.0	6.0	B	8.0	0.0	1.0	563.0 (D)	09/24/78	H		
	13S/12E-22DAA	31000829	KELLY, GENE	09/21/93	442542	1211612	2801	570.0	8.0	P	530.0	570.0	6.0	A	25.0	0.0	1.0	477.0 (D)	09/21/93	H		C
	13S/12E-22DDD	31000091	REX, MELVIN	03/18/92	442521	1211611	2788	500.0	8.0	P	480.0	500.0	6.0	A	50.0	0.0	1.0	430.0 (D)	03/18/92	H		
	13S/12E-24BBC	31000888	CROOKED RIVER RANCH	--	442605	1211448	2540	429.0	16.0	--	--	--	--	--	--	--	--	--	--	H		
	13S/12E-24DCC	31000659	CROOKED RIVER RANCH	06/04/49	442520	1211409	2605	494.0	16.0	X	20.0	494.0	--	P	1100.0	2.0	--	326.9	06/16/94	I		
	13S/12E-25CBC	31000159	WATSON, HAYDON	08/02/93	442442	1211455	2800	490.0	8.0	P	450.0	490.0	6.0	A	11.0	0.0	1.0	369.0	06/17/94	H		
	13S/12E-26CCD	31000830	KELLER, AUDRA	09/23/93	442430	1211556	2725	200.0	8.0	P	160.0	200.0	6.0	A	25.0	0.0	1.0	148.2	01/11/94	H		
	13S/12E-26CDD	31000068	FISCHER, PATRICIA & JIM	04/15/91	442432	1211540	2725	209.0	8.0	P	184.0	204.0	6.0	A	25.0	0.0	1.0	144.1	06/17/94	H		
	13S/12E-26DAD	31000124	CIMIND, MIKE	10/23/92	442446	1211502	2803	520.0	8.0	P	480.0	520.0	6.0	A	21.0	0.0	1.0	431.0 (D)	10/23/92	H		
	13S/12E-27ADB	31000071	MASONHALL, DAVE	05/13/91	442503	1211628	2738	516.0	8.0	P	476.0	516.0	6.0	A	25.0	0.0	1.0	421.0 (D)	05/13/91	H		
	13S/12E-27DAA	31000136	DOWNEY, LYNETTE	03/11/93	442453	1211619	2718	200.0	6.0	X	21.0	200.0	6.0	A	23.0	40.0	3.0	142.6	08/30/94	H		Q,H6
	13S/12E-29BAA	31000700	DAVIS,BEN	03/18/81	442519	1211920	2645	395.0	16.0	X	18.0	395.0	12.0	B	10.0	0.0	1.0	206.0 (D)	03/18/81	I		
	13S/12E-30DAA	31000703	DAVIS, BEN	07/12/77	442452	1211952	2665	410.0	12.0	X	27.0	410.0	12.0	P	1000.0	24.0	2.0	300.3	06/24/94	I		D
	13S/12E-31CAA	31000705	PAGE, RICHARD	07/14/87	442357	1212031	2702	355.0	8.0	P	315.0	355.0	6.0	B	7.0	4.0	1.0	308.0 (D)	07/14/87	H		
	13S/12E-32BBB	31000709	KIDSON, HAROLD	04/21/81	442425	1211947	2655	402.0	10.0	P	382.0	402.0	6.0	A	29.0	--	1.0	282.6	06/24/94	H		
	13S/12E-34AAA	31000162	WILLIAMS, BRAD	08/03/93	442424	1211619	2722	175.0	8.0	X	18.0	175.0	8.0	P	20.0	2.0	1.0	143.0 (D)	08/03/93	H		
	13S/12E-35AAC	31000126	O'HEARN, JIM AND TIM	09/18/92	442419	1211512	2725	180.0	6.0	X	19.0	180.0	6.0	A	28.0	--	1.0	132.4	06/21/94	H		
	13S/12E-35CAC	31000154	GOURMAN, MARK	07/26/93	442352	1211546	2722	190.0	8.0	P	150.0	190.0	6.0	B	20.0	0.0	1.0	129.0 (D)	07/26/93	H		
13S/12E-36BDB	31000837	EASTERLY, JIM	11/01/93	442408	1211433	2780	460.0	8.0	P	420.0	460.0	6.0	A	18.0	0.0	1.0	401.6	08/30/94	H			
13S/12E-36CCC	31000163	HOPPSON, GARY	08/16/93	442337	1211457	2725	155.0	8.0	X	19.0	155.0	8.0	B	15.0	2.0	1.0	119.5	06/23/94	H			
13S/13E-16DDB	31000746	JONES, JERRY	04/13/73	442611	1211009	2915	305.0	8.0	P	285.0	305.0	6.0	B	10.0	0.0	3.0	270.0 (D)	04/13/73	H			
13S/13E-17DCC	31000095	NORTH UNIT IRRIG.	04/13/92	442602	1211148	2865	520.0	8.0	P	480.0	520.0	6.0	A	16.0	0.0	1.0	340.9	06/27/94	H			
13S/13E-19ADD	31000048	CALHOUN, BOB	11/21/90	442541	1211232	2830	643.0	8.0	P	623.0	643.0	6.0	A	18.0	--	1.0	565.0 (D)	11/21/90	H			
13S/13E-19DAB	31000752	ROBERTSON, JOE	02/25/84	442530	1211238	2810	584.0	6.0	X	18.0	584.0	6.0	B	7.0	0.0	1.0	557.0 (D)	02/25/84	H			
13S/13E-20DAC	31000164	PETERSON, JIM	08/27/93	442526	1211131	2865	540.0	8.0	P	500.0	540.0	6.0	A	12.0	0.0	1.0	398.2	01/11/94	H	C		
13S/13E-21DDA	31000760	MCPHEETERS, WILLIAM	09/25/80	442522	1211004	2865	312.0	10.0	P	148.0	170.0	8.0	B	23.0	1.0	1.0	110.0 (D)	09/25/80	H			
									P	196.0	216.0	8.0										
									X	216.0	312.0	8.0										
13S/13E-28BBC	31000771	NICKELSON, CHARLES	03/18/74	442458	1211108	2845	416.0	8.0	P	355.0	416.0	6.0	B	13.0	0.0	1.0	350.0 (D)	03/18/74	H			
13S/13E-29BAD	31000773	BOULET, JEFF	10/23/89	442501	1211155	2835	550.0	8.0	X	18.0	550.0	8.0	B	4.0	6.0	1.0	504.1	09/07/94	H			
13S/13E-31CDB	31000779	DICKSON, ERNIE	02/29/80	442334	1211319	2765	400.0	8.0	X	19.0	400.0	8.0	B	9.0	2.0	1.0	353.1	06/27/94	H			
13S/13E-31DCD	31000144	HESS, MARVIN	06/28/93	442329	1211252	2745	240.0	8.0	P	220.0	240.0	6.0	A	40.0	--	1.0	145.0 (D)	06/28/93	H			
13S/13E-32ABB	31000780	VETERANS AFFAIRS	05/15/85	442418	1211149	2805	604.0	8.0	P	584.0	604.0	6.0	A	25.0	--	1.0	430.0 (D)	05/15/85	H			
13S/13E-32ABC	31000075	FOX, LINDA AND RAY	06/06/91	442408	1211146	2790	390.0	8.0	P	370.0	390.0	6.0	A	20.0	--	1.0	322.1	06/27/94	H			
13S/13E-32DCD	31000782	HIGHWAY DEPARTMENT, OREGON STATE	05/23/69	442328	1211135	2750	310.0	6.0	X	39.0	310.0	6.0	A	35.0	--	--	182.6	06/27/94	P			
13S/13E-34CBA	31000785	ROBISON, GLENN	01/07/68	442349	1210947	2735	230.0	6.0	X	20.0	230.0	6.0	B	5.0	50.0	2.0	160.0 (D)	01/07/68	H			
13S/14E-33DAD	31000814	BUCKNER BROTHERS	03/--/57	442342	1210253	2935	150.0	12.0	P	24.0	82.0	12.0	P	1000.0	16.0	7.0	26.0 (D)	03/--/57	I	SC,H8		
									X	106.0	150.0	8.0										
14S/09E-08ABA	17001804	KIEWIT PACIFIC CO.	11/02/85	442242	1214055	3380	403.0	6.0	X	335.0	403.0	6.0	P	300.0	5.0	168.0	301.0	08/10/93	U	R,H6,GD		
14S/09E-09CCC	17000262	BROOKS RESOURCES	07/10/70	442156	1214023	3395	60.0	12.0	X	57.0	60.0	12.0	P	800.0	--	--	18.0 (D)	07/10/70	I			
14S/09E-13BCD	17001809	U.S. FOREST SERVICE	06/11/62	442126	1213634	3233	50.0	6.0	P	45.0	50.0	6.0	B	18.0	5.0	3.0	18.0 (D)	06/12/62	R			
14S/09E-16ADB	17001800	BLACK BUTTE RANCH	02/22/73	442137	1213932	3355	370.0	16.0	P	324.0	354.0	12.0	B	25.0	0.0	16.0	265.0 (D)	04/26/91	P	C,D		
									X	354.0	370.0	12.0										
14S/09E-22BBA	17001810	BROOKS RESOURCES	09/07/77	442057	1213905	3355	307.0	12.0	P	274.0	304.0	10.0	P	940.0	45.0	40.0	226.0 (D)	09/07/77	I			
									X	306.0	307.0	10.0										

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
14S/09E-35CBD	17001802	DESCHUTES NATIONAL FOREST	08/31/83	441836	1213747	3390	140.0	8.0	X	26.0	30.0	6.0	B	10.0	3.0	1.0	121.7	08/31/94	U	Q,H6
14S/10E-07CBD	17001826	DURDAN, LEI	08/27/87	442208	1213517	3260	603.0	8.0	X	112.0	132.0	6.0	X							
14S/10E-08CDC	17001832	SLOCUM, HARVEY	07/27/82	442150	1213400	3220	120.0	8.0	P	583.0	603.0	6.0	A	200.0	--	1.0	316.0 (D)	08/27/87	H	
									P	89.0	104.0	6.0	B	15.0	0.0	1.0	70.7	08/16/93	H	
									X	109.0	120.0	6.0								
14S/10E-21DAB	17001839	KNAPP, JUDY	10/22/87	442030	1213215	3200	300.0	8.0	P	260.0	300.0	6.0	B	12.0	4.0	1.0	242.0 (D)	10/22/87	H	
14S/10E-23BAA	17008590	JOHNSON, HAROLD	10/13/93	442053	1213013	3310	840.0	8.0	P	800.0	840.0	6.0	A	21.0	0.0	1.0	716.0 (D)	10/13/93	H	
14S/10E-24CCB	17001845	DORIS, JASON	03/29/79	442013	1212931	3190	650.0	8.0	P	610.0	650.0	6.0	A	14.0	--	--	585.0 (D)	03/29/79	H	
14S/10E-24DCD	17000265	RAMSEY, F.	03/01/75	442010	1212841	3170	680.0	8.0	P	600.0	675.0	6.0	A	23.0	--	2.0	575.0 (D)	03/01/75	H	
									X	678.0	680.0	8.0								
14S/10E-25BCC	17001862	RAMSEY, F.	05/20/68	441947	1212926	2910	570.0	8.0	P	52.0	72.0	6.6	P	20.0	0.0	6.0	348.0	03/22/79	H	
									P	461.0	561.0	6.6								
									X	561.0	570.0	8.0								
14S/10E-25BCD	17001861	RAMSEY FRED	05/16/68	441947	1212920	2909	45.0	6.0	P	20.0	45.0	6.0	P	5.0	20.0	0.5	18.0 (D)	05/16/68	H	
14S/10E-25CDC	17001856	STARK, A.	09/25/78	441920	1212909	3142	598.0	8.0	P	558.0	598.0	6.0	P	15.0	--	1.0	534.0 (D)	09/25/78	U	
14S/10E-26ADC	17001867	JUNIPINE CORP.	09/15/67	441941	1212944	2930	37.0	12.0	P	18.0	37.0	12.0	P	300.0	0.0	2.0	14.0	03/22/79	P	
14S/10E-27BAA	17000868	BAY RIVER DEVELOPMENT	04/23/91	442001	1213123	3162	400.0	8.0	P	339.0	399.0	8.0	A	120.0	--	1.0	198.0 (D)	04/23/91	I	
14S/10E-27BBB	17000867	BAY RIVER DEVELOPMENT	04/16/91	442004	1213156	3230	423.0	8.0	P	358.0	418.0	8.0	A	100.0	--	1.0	242.0 (D)	04/16/91	I	C
									X	418.0	423.0	10.0								
14S/10E-28CBB	17000826	HORNBACK, JOHN W.	04/13/90	441936	1213309	3175	120.0	6.0	P	100.0	120.0	6.0	P	60.0	0.0	1.0	75.6	08/17/93	H	
14S/10E-28DDC1	17001875	INDIAN FORD LAND AND CATTLE	09/08/68	441916	1213216	3145	175.0	12.0	P	98.0	158.0	10.0	A	100.0	--	1.0	48.8	08/17/93	I	D
									X	158.0	175.0	12.0								
14S/10E-28DDC2	17009175	MOONEY, DICK	04/05/94	441916	1213216	3145	149.0	8.0	P	124.0	144.0	6.0	A	50.0	0.0	1.0	53.2	08/04/94	H	Q,H6,GD
14S/10E-28DDC3	17009174	MOONEY, DICK	03/31/94	441917	1213210	3146	328.0	8.0	X	39.0	328.0	8.0	A	6.0	--	1.0	63.2	08/31/94	H	Q,H6
14S/10E-29ABC	17001837	BROADDUS, RONALD	03/21/83	441955	1213335	3286	385.0	8.0	X	20.0	385.0	8.0	A	29.0	0.0	4.0	310.0 (D)	03/21/83	H	
14S/10E-29ACA	17000026	BROADDUS, RONALD	04/24/90	441953	1213336	3280	288.0	8.0	X	19.0	288.0	8.0	P	20.0	0.0	1.0	200.0 (D)	04/24/90	H	
14S/10E-29CAA	17001836	BROADDUS, RONALD	08/26/85	441939	1213353	3180	360.0	10.0	X	36.0	360.0	10.0	P	550.0	200.0	4.0	125.0 (D)	08/26/85	I	
14S/10E-30DDB1	17001881	BROADDUS, RONALD	10/03/85	441926	1213434	3218	150.0	8.0	X	44.0	150.0	8.0	A	325.0	--	3.0	85.0 (D)	10/03/85	H	
14S/10E-30DDB2	17001835	BROADDUS, RONALD	10/15/85	441926	1213434	3218	200.0	10.0	X	48.0	200.0	10.0	P	1100.0	21.0	4.0	83.0 (D)	10/15/85	I	
14S/10E-31CAA	17001882	BROOKS RESOURCES	06/13/72	441844	1213500	3230	220.0	12.0	P	140.0	180.0	10.0	P	600.0	5.0	48.0	116.0 (D)	06/13/72	H	
									P	200.0	215.0	10.0								
14S/10E-33AAB	17001883	INDIAN MEADOW WATER COMPANY	08/31/88	441914	1213216	3145	148.0	8.0	X	105.0	148.0	8.0	A	300.0	--	1.0	51.2	08/17/93	P	
14S/10E-34BBA	17001119	GLEN, LOWE	11/19/91	441911	1213147	3175	228.0	8.0	P	208.0	228.0	6.0	P	40.0	20.0	1.0	155.0 (D)	11/18/91	H	
14S/10E-34BCB	17008523	RODGERS, STEVE	09/08/93	441859	1213149	3180	200.0	8.0	P	160.0	200.0	6.0	A	300.0	--	1.0	66.1	01/10/94	H	
14S/10E-35DCB	17000001	CYRUS, KEITH	09/11/89	441833	1213007	3119	285.0	8.0	X	20.0	285.0	8.0	P	90.0	--	--	177.1	08/05/93	H	Q,H6
14S/10E-36AAC	17001942	OFFIELD, D.	08/12/78	441903	1212829	3078	415.0	8.0	P	375.0	415.0	6.0	A	12.0	6.0	--	372.0 (D)	08/12/78	H	
14S/10E-36ADB	17001949	BURKE, B.	05/31/74	441855	1212831	3078	495.0	8.0	X	20.0	495.0	8.0	B	5.0	12.0	1.0	371.0	08/11/93	H	
14S/10E-36CBA	17001947	BOYDSTON, J.	03/25/70	441843	1212914	3141	575.0	8.0	P	515.0	535.0	6.0	P	7.0	60.0	1.0	500.0 (D)	08/30/70	P	D
									X	535.0	575.0	6.0								
14S/11E-01DBC	17001956	MORLEY, LOUISE	01/02/68	442255	1212135	2752	340.0	8.0	P	320.0	340.0	6.0	P	15.0	0.0	10.0	328.0 (D)	01/02/68	H	
14S/11E-01DBD	17001954	DUNEGAN, HAROLD	08/16/78	442256	1212129	2745	396.0	16.0	X	18.0	396.0	12.0	B	7.0	0.0	1.0	342.0 (D)	08/16/78	I	
14S/11E-01DDD	17001957	GILLWORTH, HARVEY	03/31/76	442243	1212104	2755	501.0	18.0	X	240.0	501.0	12.0	B	10.0	0.0	1.0	353.4	08/30/94	U	O,H7,GD,D
14S/11E-09DAC	17001961	MILLER	07/17/81	442208	1212457	2805	405.0	8.0	X	20.0	400.0	8.0	P	30.0	0.0	4.0	295.0 (D)	02/02/83	H	D
14S/11E-12DAD	17001967	L.B.K. RANCHES	02/06/82	442204	1212105	2750	309.0	8.0	X	18.0	309.0	8.0	B	12.0	0.0	1.0	248.0	08/31/93	H	
14S/11E-13BCC	17001973	LEWIS, J.	04/05/76	442130	1212213	2798	440.0	18.0	X	19.0	440.0	18.0	B	25.0	0.0	1.0	383.5	05/09/79	U	GA
14S/11E-13BDD1	17001971	LEWIS, J.	02/28/77	452126	1212145	2719	285.0	18.0	X	39.0	285.0	18.0	B	6.0	0.0	1.0	254.1	05/09/79	U	
14S/11E-13BDD2	17000275	LEWIS, J.	03/05/78	452127	1212147	2719	320.0	18.0	X	19.0	320.0	16.0	B	30.0	0.0	1.0	155.0	05/09/79	U	
14S/11E-13DDB1	17001975	GILLWORTH, HARVEY	04/15/70	442109	1212116	2720	210.0	16.0	X	18.0	210.0	14.0	P	1350.0	5.0	5.0	188.0 (D)	04/15/70	I	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level		Use	Remarks		
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum			Date	
14S/11E-13DDB2	17001974	WATSON, G.	06/09/78	442110	1212117	2720	252.0	8.0	P	232.0	252.0	6.0	B	9.0	1.0	1.0	238.0	04/26/79	H		
14S/11E-14DDD	17001976	GILLWORTH, HARVEY	01/19/65	442101	1212220	2795	405.0	6.0	P	380.0	405.0	6.0	P	15.0	0.0	2.0	380.0 (D)	05/03/65	H		
14S/11E-17BAD	17001314	SWARTZ, JOHN	05/01/92	442141	1212637	3125	760.0	8.0	P	680.0	760.0	6.0	A	40.0	0.0	1.0	540.0 (D)	05/01/92	H		
14S/11E-17CCB	17001980	RAMSEY, FRED	08/08/68	442111	1212702	3111	590.0	6.6	P	560.0	590.0	6.0	B	10.0	0.0	2.0	494.1	03/22/79	H		
14S/11E-18BDB	17009237	ZIMMERMAN, GARY	05/18/94	442137	1212758	3040	560.0	8.0	P	520.0	560.0	6.0	A	16.0	0.0	1.0	453.8	08/04/94	H	GD	
14S/11E-18CAC	17001416	REISS, JIM	07/21/92	442117	1212755	2975	500.0	8.0	P	460.0	500.0	6.0	A	15.0	0.0	1.0	395.8	08/31/94	H	Q,H6	
14S/11E-21CCA	17001982	MILLER, J.	12/22/76	442015	1212541	3137	562.0	8.0	P	522.0	562.0	6.0	B	4.5	0.0	1.0	502.0 (D)	12/22/76	H		
14S/11E-22CAD	17001985	FERARA, J.	10/10/78	442022	1212407	3083	545.0	8.0	X	19.0	545.0	8.0	A	10.0	0.0	1.0	486.2	03/29/79	U		
14S/11E-22CDB	17009114	FOX, BILL	02/24/94	442016	1212419	3100	595.0	8.0	P	555.0	595.0	6.0	A	16.0	0.0	1.0	540.0 (D)	02/24/94	H		
14S/11E-23AAB	17001969	HERMAN, MIKE	04/02/81	442051	1212224	2790	465.0	14.0	X	18.0	465.0	12.0	A	300.0	--	1.0	393.8	09/14/93	I		
14S/11E-23AAD	17001991	DAWSE, R.	08/12/78	442047	1212219	2747	249.0	6.0	X	19.0	249.0	8.0	B	25.0	0.0	1.0	200.0 (D)	08/12/78	H		
14S/11E-27ACB	17002000	SQUAW CREEK IRRIGATION DISTRICT	08/08/73	441949	1212400	2875	357.0	16.0	X	50.0	357.0	16.0	B	50.0	50.0	2.0	245.3	08/31/94	U	Q,H6	
14S/11E-28ADB	17002002	SUMMERS, J.	08/16/78	441952	1212453	3105	540.0	8.0	X	18.0	540.0	8.0	B	15.0	10.0	1.0	498.0 (D)	08/17/78	H		
14S/11E-28ADD	17001510	HILLER, DAVID	09/30/92	441945	1212448	3105	663.0	8.0	P	643.0	663.0	6.0	A	25.0	--	1.0	575.0 (D)	09/30/92	H	C	
14S/11E-30DAA	17000781	RICHARDSON, MARY N.	02/06/91	441936	1212708	3110	526.0	8.0	P	506.0	526.0	6.0	A	20.0	--	1.0	468.6	09/15/93	H		
14S/11E-31CBD	17002018	OBERMAN, J.	06/09/78	441840	1212804	3090	397.0	8.0	P	347.0	397.0	6.0	A	10.0	0.0	--	348.0 (D)	06/09/78	H		
14S/11E-32BBC	17000279	PAULUS, L.	08/30/71	441902	1212703	3082	471.0	8.0	P	426.0	466.0	5.0	B	20.0	0.0	1.0	441.0 (D)	08/30/71	H		
37	14S/11E-32CBA	17001012	PRULL, DAVID	08/07/91	441846	1212651	3105	480.0	8.0	P	412.0	432.0	6.0	A	18.0	--	1.0	405.0 (D)	08/07/91	H	
									X	432.0	480.0	6.0									
	14S/11E-32DDA	17002029	HICKS, J.	07/29/78	441831	1212600	3077	408.0	8.0	P	368.0	408.0	6.0	A	20.0	0.0	--	358.0 (D)	07/29/78	H	
14S/11E-33ABA	17002039	GISLER, VINCENT	05/19/75	441909	1212508	3075	488.0	8.0	X	22.0	488.0	8.0	B	13.5	0.0	1.0	463.6	09/14/93	H		
14S/11E-35AAB	17001993	DOUBLE R & C RANCH.	04/24/67	441911	1212226	2790	309.0	16.0	P	248.0	308.0	16.0	P	1400.0	55.0	24.0	243.0 (D)	04/24/67	I		
									X	308.0	309.0	16.0									
14S/11E-36BDC	17000097	ALMSTEAD, JUDITH	07/09/90	441851	1212151	3085	575.0	8.0	P	515.0	575.0	6.0	A	15.0	0.0	1.0	495.0 (D)	07/09/90	H		
14S/12E-01AAA	17001762	DUNBAR, JIM	06/04/93	442332	1211346	2780	420.0	8.0	P	380.0	420.0	6.0	A	27.0	0.0	1.0	342.8	08/27/93	H		
14S/12E-01AAD	17002048	WILLIAMS, J. W.	09/13/76	442325	1211348	2780	305.0	6.0	X	20.0	305.0	8.0	B	20.0	0.0	2.0	205.0 (D)	09/13/76	H		
14S/12E-02CCC	17008626	HUTCHINSON, ALAN	10/29/93	442245	1211604	2680	160.0	8.0	P	120.0	160.0	6.0	A	50.0	0.0	1.0	112.9	08/30/94	H	Q,H6	
14S/12E-03DDC	17001353	RASMUSEN, STEVE	05/20/92	442226	1210820	2750	272.0	8.0	P	250.0	270.0	6.0	B	10.0	1.0	1.0	244.8	08/27/93	H		
14S/12E-05ACD	17000282	WILLIAMS, D.	03/17/71	442312	1211856	2760	405.0	6.0	X	18.0	405.0	6.0	B	10.0	0.0	1.5	345.0 (D)	03/17/71	X		
14S/12E-06DCB	17002064	WILLIAMS, D.	07/16/67	442251	1212014	2801	430.0	10.0	X	24.0	430.0	8.0	B	15.0	0.0	2.0	380.0 (D)	07/16/67	H		
14S/12E-06DCD	17002066	WILLIAMS, D.	07/19/77	442244	1212014	2823	428.0	12.0	X	19.0	428.0	15.0	B	5.0	0.0	1.0	368.0 (D)	07/19/77	I		
14S/12E-07ADB	17002069	GLOVER, BILL	10/14/80	442225	1212007	2720	335.0	8.0	X	327.0	335.0	6.0	A	12.0	--	1.0	304.0 (D)	10/14/80	H		
14S/12E-07BBD	17001955	STILES, B.	01/17/79	442230	1212053	2790	417.0	8.0	P	397.0	417.0	6.0	B	6.0	2.0	1.0	384.0 (D)	01/17/79	H		
14S/12E-07CDB	17002067	LAWRENCE, REN	11/13/81	442203	1212041	2702	370.0	8.0	X	18.5	370.0	8.0	B	12.0	0.0	1.0	311.0	08/31/93	H		
14S/12E-09ACB	17000768	BARBER, REX	02/07/91	442227	1211800	2650	340.0	12.0	X	50.0	340.0	12.0	A	500.0	0.0	1.0	168.3	03/03/94	I	R,H6,D	
14S/12E-10BCB	17001377	DUNN, JAMES D.	07/06/92	442226	1211722	2630	200.0	8.0	P	160.0	200.0	6.0	A	21.0	0.0	1.0	158.2	09/01/93	H		
14S/12E-11BAA	17002073	LAWRENCE, E.H.	10/30/78	442239	1211541	2695	156.0	8.0	P	134.0	154.0	6.0	B	8.0	3.0	1.0	115.2	09/02/93	H		
14S/12E-11BBB	17002074	COPPERNOLL, PAUL	08/23/76	442239	1211607	2677	130.0	8.0	X	19.0	130.0	8.0	B	50.0	0.0	1.0	112.0 (D)	08/23/76	H		
14S/12E-15ADC	17000150	JANES, PAUL	07/31/90	442125	1211622	2803	314.0	8.0	P	274.0	314.0	6.0	A	30.0	0.0	1.0	264.0 (D)	07/31/90	H		
14S/12E-15BDC	17008959	STRAIN, DOUG	11/23/93	442129	1211704	2603	220.0	8.0	X	19.0	220.0	8.0	A	200.0	0.0	1.0	95.0 (D)	11/23/93	H		
14S/12E-15DBC	17002078	JOHNSON, STACY	03/05/82	442117	1211639	2820	340.0	8.0	P	320.0	340.0	6.0	B	15.0	0.0	1.0	270.0 (D)	07/01/90	H	D	
14S/12E-16BCB	17002082	GUNSER, FRED	11/28/84	442135	1211832	2650	253.0	12.0	X	19.0	253.0	12.0	A	300.0	--	1.0	85.0 (D)	11/28/84	I		
14S/12E-16DDD	17009048	ARNEY, JERRY	12/15/93	442059	1211724	2660	180.0	8.0	X	19.0	180.0	8.0	A	36.0	0.0	1.0	118.1	08/03/94	H	GD	
14S/12E-17ACA	17002087	BEESLEY, B.	01/04/79	442133	1211857	2680	262.0	16.0	X	19.0	262.0	15.0	B	8.0	0.0	1.0	144.5	09/01/93	I		
14S/12E-17BBB	17002098	BEESLEY, B.	12/21/77	442148	1211948	2692	288.0	16.0	X	19.0	288.0	15.0	B	20.0	0.0	1.0	138.9	06/15/93	I		
14S/12E-17BCA	17002088	DOUBLE R C RANCH	02/25/68	442136	1211936	2695	260.0	16.0	X	20.0	260.0	16.0	P	1150.0	100.0	20.0	150.0 (D)	03/01/68	I		
14S/12E-18CAC	17002099	DESCHUTES VALLEY FARMS	04/27/77	442115	1212042	2718	225.0	18.0	X	19.0	225.0	18.0	B	35.0	0.0	1.0	164.4	08/30/94	I	O,H7	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Finish	Open interval			Well performance				Water level		Use	Remarks
										Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
14S/12E-18DCA	17002100	DOUBLE R C RANCH	11/12/66	442109	1212012	2732	232.0	24.0	P	170.0	232.0	12.0	P	2000.0	0.0	20.0	193.8	09/01/93	I	
14S/12E-19CBC	17002102	DOUBLE R C RANCH	05/01/68	442025	1212058	2758	228.0	--	X	20.0	228.0	18.0	P	4000.0	0.0	1000.0	224.8	09/01/93	I	
14S/12E-20AAA	17002092	DOUBLE R C RANCH	04/01/68	442052	1211838	2675	145.0	16.0	P	110.0	145.0	16.0	P	500.0	0.0	100.0	108.9	04/26/79	I	
14S/12E-20AAD	17002106	DOUBLE R C RANCH	04/01/68	442046	1211837	2690	285.0	18.0	X	20.0	285.0	18.0	P	450.0	33.0	20.0	127.6	09/01/93	I	
14S/12E-20ADC	17002108	QUINN, J.	07/30/68	442035	1211852	2701	192.0	18.0	X	21.0	192.0	18.0	B	850.0	30.0	3.0	145.7	04/26/79	I	
14S/12E-21CCC	17000285	DESCHUTES VALLEY FARMS	06/14/77	442009	1211831	2679	175.0	18.0	X	19.0	175.0	18.0	B	35.0	0.0	1.0	114.9	09/01/93	I	
14S/12E-22DDC	17002114	OUTWARD BOUND SCHOOL	07/29/89	442007	1211623	2780	262.0	8.0	P	237.0	257.0	6.0	A	18.0	0.0	3.0	215.0	07/29/93	T	
14S/12E-23CDB	17002119	ODIN FALLS RANCH	12/12/81	442018	1211545	2705	330.0	14.0	P	160.0	200.0	10.0	A	300.0	170.0	3.0	160.0 (D)	09/02/92	H	D
									P	240.0	300.0	10.0								
									X	300.0	330.0	10.0								
14S/12E-24CBA	17002126	RONCERAY, GARY	06/29/85	442028	1211440	2798	210.0	8.0	X	194.0	210.0	6.0	A	40.0	--	1.0	156.3	09/02/93	H	
14S/12E-25BCD	17001585	KREMA, JOHN	11/30/92	441941	1211444	2775	240.0	8.0	P	200.0	240.0	6.0	A	50.0	0.0	1.0	164.6	09/02/93	H	
14S/12E-25CBD	17001446	HUFF, LAUREL	08/12/92	441928	1211437	2780	260.0	8.0	P	220.0	260.0	6.0	A	50.0	0.0	1.0	168.0	08/31/94	H	Q,H6
14S/12E-26DBB	17002173	MAYFIELD, WILLIAM, R.	07/15/81	441938	1211533	2680	264.0	8.0	P	180.0	255.0	6.0	A	300.0	--	1.0	132.0 (D)	07/15/81	I	
									X	260.0	264.0	6.0								
14S/12E-27CAD	17002178	HEIERMAN, DAN	09/28/81	441906	1211649	2743	221.0	14.0	X	20.0	221.0	14.0	P	1300.0	198.0	3.0	140.0 (D)	09/28/81	H	
14S/12E-32BAC	17002179	YEAGER, DON	05/27/80	441906	1211932	2735	245.0	12.0	X	19.0	245.0	12.0	B	15.0	0.0	1.0	172.3	09/03/93	H	
14S/12E-33AAD	17002180	OSTER, EDWARD	03/23/89	441905	1211730	2789	316.0	8.0	P	275.0	295.0	8.0	A	300.0	--	1.0	215.0 (D)	03/23/89	H	
									X	295.0	316.0	8.0								
14S/12E-34AAD	17002183	ODIN FALLS RANCH	08/15/78	441902	1211612	2730	300.0	14.0	P	140.0	160.0	14.0	P	1400.0	20.0	4.0	142.5	06/14/93	U	
									X	162.0	300.0	13.0								
14S/12E-34DBA	17000290	ANGER, ELTON, M.	06/22/81	441848	1211632	2737	240.0	12.0	X	19.0	240.0	12.0	A	600.0	--	4.0	149.6	09/02/93	I	
14S/12E-34DBB	17002181	ANGER, ELTON, M.	06/20/81	441848	1211648	2760	280.0	8.0	X	18.0	280.0	8.0	A	300.0	--	1.0	205.0 (D)	06/20/81	H	
14S/12E-35ABA	17000020	LARSON, PHIL	04/19/90	441911	1211525	2740	265.0	8.0	X	232.0	252.0	6.0	A	60.0	0.0	1.0	138.3	09/02/93	H	
									X	259.0	265.0	6.0								
14S/12E-36ABA	17001521	BURY, GEOFF	10/20/92	441912	1211401	2775	160.0	8.0	P	120.0	160.0	6.0	A	27.0	0.0	1.0	107.0 (D)	10/20/92	H	
14S/13E-03DCD	17002209	FOSS, A.	06/30/60	442245	1210917	2765	118.0	6.0	X	4.0	118.0	6.0	B	5.0	0.0	2.0	105.0 (D)	06/30/60	H	
14S/13E-04ACC	17002218	DIXON, E.	08/27/65	442311	1211037	2770	146.0	6.0	X	52.0	146.0	6.0	B	20.0	10.0	0.1	111.0 (D)	08/27/65	H	
14S/13E-04BAD	17001044	PATRICK, BUD	09/17/91	442322	1211044	2750	180.0	8.0	X	18.5	180.0	8.0	A	21.0	0.0	1.0	122.7	08/19/93	H	
14S/13E-04BDA	17002221	HACKLEMAN, M.	10/21/73	442314	1211041	2765	177.0	8.0	X	27.0	177.0	8.0	B	15.0	0.0	1.5	126.5	03/06/79	H	
14S/13E-05ACA	17002232	WHITELEY, R. J.	06/11/65	442318	1211136	2750	188.0	6.0	X	19.0	188.0	6.0	A	8.0	--	--	144.0 (D)	04/05/66	H	D
14S/13E-05BCC	17008568	MYRAN, STEVE	09/22/93	442311	1211221	2779	220.0	8.0	P	180.0	220.0	6.0	A	25.0	0.0	1.0	155.0 (D)	09/22/93	H	
14S/13E-05BDA	17001632	BLAKELEY, GRANT	02/23/93	442310	1211157	2750	220.0	8.0	X	19.0	220.0	8.0	A	10.0	0.0	1.0	132.3	08/30/94	H	Q,H6
14S/13E-05BDB	17001731	BLAKELEY, GARY	05/13/93	442311	1211202	2750	257.0	8.0	X	250.0	257.0	8.0	A	18.0	0.0	1.0	191.5	08/20/93	H	
14S/13E-05CCC	17000293	FATE, ORVILLE	12/02/77	442245	1211222	2775	200.0	8.0	P	160.0	200.0	6.0	A	18.0	0.0	--	138.0 (D)	12/02/77	H	
14S/13E-05DCD	17002230	FOX, S.	08/16/78	442244	1211134	2800	190.0	8.0	P	150.0	190.0	6.0	A	25.0	5.0	--	147.0 (D)	08/16/78	H	
14S/13E-06ABC	17000099	MEYER, DICK	07/10/90	442317	1211258	2755	220.0	8.0	X	19.0	220.0	8.0	--	--	--	--	143.8	08/20/93	H	
14S/13E-06BBD	17009049	CONSTATINE, MIKE	12/16/93	442323	1211323	2743	200.0	8.0	X	19.0	200.0	8.0	A	25.0	0.0	1.0	145.0 (D)	12/16/93	H	
14S/13E-07AAA	17002238	WENDLING, ROBERT	01/30/61	442240	1211231	2760	210.0	6.0	X	8.0	210.0	6.0	B	20.0	0.0	1.0	149.0 (D)	01/30/61	H	
14S/13E-07ABC	17002240	KLEIN, RODNEY	02/07/78	442230	1211300	2722	190.0	8.0	P	150.0	190.0	6.0	A	25.0	12.0	--	138.0 (D)	02/07/78	H	
14S/13E-07ACC	17000112	COLVIN, DALE	06/26/90	442222	1211256	2700	212.0	8.0	X	19.0	212.0	8.0	A	75.0	--	1.0	132.6	08/19/93	H	
14S/13E-08CAA	17002243	MCCREA, C.	06/01/71	442211	1211157	2771	205.0	6.0	P	150.0	205.0	6.0	B	20.0	0.0	1.0	135.4	08/19/93	S	
14S/13E-08CAB	17002246	KILGORE, H.	01/27/77	442211	1211204	2758	137.0	8.0	P	117.0	137.0	6.0	B	25.0	0.0	1.0	100.0 (D)	01/27/77	H	
14S/13E-08DBC	17002242	KILGORE, H.	01/03/63	442207	1211145	2780	195.0	6.0	X	18.0	195.0	6.0	B	15.0	11.0	2.0	141.0 (D)	01/03/63	H	
14S/13E-09BDD	17002257	STEELE, J.	01/19/70	442215	1211042	2825	280.0	6.0	P	260.0	280.0	6.0	B	20.0	0.0	1.0	255.0 (D)	01/19/70	H	
14S/13E-09DAB	17000980	RADANT, JERRY	07/16/91	442212	1211014	2780	270.0	6.0	P	219.0	239.0	6.0	A	20.0	--	1.0	124.4	08/20/93	H	
									X	239.0	270.0	6.0								
14S/13E-10ABD	17002271	BESSEY, R. E.	05/16/78	442229	1210909	2785	150.0	6.0	X	30.0	150.0	6.0	B	15.0	0.0	1.0	120.0 (D)	05/16/78	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level		Use	Remarks	
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum			Date
14S/13E-10CBC1	17002273	WALLACE, L.	10/25/72	442204	1210959	2843	208.0	8.0	X	22.0	208.0	8.0	B	16.0	2.0	1.0	148.0 (D)	10/25/78	H	
14S/13E-10CBC2	17002277	MERCHANT, T.	04/12/73	442203	1211001	2845	140.0	8.0	P	115.0	140.0	6.0	B	12.0	0.0	1.0	107.0 (D)	04/12/73	H	
14S/13E-10CCD	17000749	PETERSON, GARY	01/08/91	442154	1210945	2803	205.0	8.0	P	185.0	205.0	6.0	A	15.0	0.0	1.0	112.1	08/19/93	H	
14S/13E-10CDC	17002279	HENDRIX, V.	05/04/72	442149	1210936	2790	160.0	8.0	P	127.0	157.0	6.0	B	20.0	0.0	1.0	120.0 (D)	05/04/72	H	
									X	157.0	160.0	8.0								
14S/13E-11DCB	17002298	OREGON STATE PARK	05/18/64	442201	1210807	2838	157.0	6.0	X	20.0	157.0	6.0	P	20.0	0.0	2.0	138.0 (D)	06/05/64	R	
14S/13E-11DDB	17002294	KEENEY, JOAB	06/02/78	442201	1210753	2795	207.0	8.0	X	19.0	207.0	8.0	B	10.0	2.0	1.0	152.4	08/19/93	H	
14S/13E-13ACC	17009283	HANKINS, BLAKE	06/15/94	442124	1210658	2902	205.0	8.0	P	165.0	205.0	6.0	A	19.0	0.0	1.0	130.0 (D)	06/15/94	H	
14S/13E-13ADD	17002323	DESERT SEED COMPANY	05/12/61	442126	1210633	2860	138.0	8.0	X	19.0	138.0	8.0	P	14.0	5.0	2.0	103.0 (D)	05/12/61	H	
14S/13E-13CBC	17002319	BECK, G.	11/30/78	442111	1210730	2810	347.0	8.0	P	327.0	347.0	5.0	--	--	--	--	147.0 (D)	07/19/79	H	D
14S/13E-13CCA	17002324	MOBERLY, J. A.	01/06/68	442104	1210722	2915	225.0	8.0	X	18.0	225.0	8.0	B	15.0	5.0	2.0	156.0 (D)	01/06/68	H	
14S/13E-13DAB	17002322	BUTLER, R. C.	01/27/78	442119	1210637	2930	380.0	6.0	X	25.0	380.0	8.0	B	20.0	0.0	1.0	232.0 (D)	01/27/78	P	
14S/13E-13DCA	17001170	HALL, A. S.	01/20/92	442110	1210647	2877	270.0	8.0	P	250.0	270.0	6.0	A	15.0	0.0	1.0	190.0 (D)	01/20/92	H	
14S/13E-14ABA	17002337	RABE, D.	08/10/65	442146	1210758	2860	179.0	6.0	X	18.0	179.0	6.0	B	12.0	36.0	1.0	143.0 (D)	08/10/65	H	
14S/13E-14ABB	17002348	RABE, D.	11/21/78	442145	1210809	2863	230.0	8.0	P	172.0	230.0	5.0	B	9.0	2.0	1.0	154.0 (D)	11/21/78	H	D
14S/13E-14ADD	17002333	TITTLE, V.	07/12/68	442144	1210740	2890	185.0	6.0	X	42.0	185.0	8.0	B	20.0	1.0	1.0	150.0 (D)	07/12/68	H	
14S/13E-14BAD	17001367	SMITH ROCKS STATE PARK	06/01/92	442137	1210820	2830	302.0	8.0	P	170.0	210.0	6.0	P	37.0	0.0	6.0	144.0	06/01/92	R	
									X	210.0	302.0	6.0								
14S/13E-14CBA	17002345	HEEREN, G.	12/12/74	442119	1210837	2833	180.0	8.0	X	19.0	180.0	8.0	B	10.0	3.0	1.0	110.0 (D)	12/12/74	H	
14S/13E-14CBB	17002334	GREKEL, E.	11/01/67	442122	1210848	2818	152.0	8.0	P	138.0	152.0	6.0	B	20.0	0.0	2.0	123.0 (D)	11/01/67	H	
14S/13E-15BAD	17000114	MAZZA, TIM	07/24/90	442140	1210932	2805	160.0	8.0	X	22.0	160.0	8.0	A	200.0	0.0	1.0	112.2	08/19/93	H	
14S/13E-16BBA	17002385	CRAWFORD, D.	10/14/68	442146	1211100	2790	178.0	6.0	X	62.0	178.0	8.0	B	20.0	0.0	1.0	150.5	08/19/93	H	
14S/13E-16CDA	17002387	TERREBONNE WATER DISTRICT	04/08/68	442110	1211043	2874	381.0	8.0	P	239.0	381.0	8.0	B	20.0	0.0	3.0	240.0 (D)	04/08/68	P	
14S/13E-17CBB	17002401	BURRESS, D.	08/28/73	442121	1211221	2730	145.0	6.0	P	120.0	145.0	5.0	B	20.0	5.0	1.0	95.0 (D)	08/28/73	H	
14S/13E-17CCD	17000303	PALLIN, DALE	11/26/70	442103	1211214	2760	185.0	8.0	P	155.0	185.0	6.0	B	20.0	0.0	1.0	137.0 (D)	05/08/72	H	D
14S/13E-18DCB	17002404	GUNZNER, JOHN	05/26/88	442110	1211238	2845	245.0	10.0	P	205.0	245.0	8.0	B	12.0	--	1.0	166.6	08/30/94	I	
14S/13E-19ADC	17001104	MCCORMICK, MARY	10/28/91	442033	1211245	2762	122.0	8.0	P	102.0	122.0	6.0	A	20.0	--	1.0	103.2	08/18/93	H	
14S/13E-20BAC	17002440	MCCLAY, J. L.	05/01/73	442044	1211208	2800	197.0	8.0	P	177.0	197.0	6.0	B	20.0	0.0	2.0	152.0 (D)	05/01/73	H	
14S/13E-20CCB	17002446	JONHSON, STACY	01/12/72	442015	1211223	2797	198.0	8.0	P	138.0	198.0	8.0	P	125.0	--	1.0	120.4	09/27/78	P	
14S/13E-20DAA	17002447	VAN ARSDALE, G.	04/08/69	442027	1211119	2785	147.0	6.0	P	122.0	147.0	6.0	B	20.0	2.0	1.0	113.8	02/28/79	H	
14S/13E-20DBB	17002445	FREDERICKS, E.	01/10/73	442024	1211151	2805	206.0	8.0	P	164.0	206.0	6.0	B	10.0	0.0	1.0	152.0 (D)	01/10/73	H	
14S/13E-20DCB	17000307	BIMS ENTERPRISES	01/10/78	442013	1211146	2845	229.0	10.0	P	189.0	229.0	8.0	B	25.0	0.0	1.0	174.3	09/27/78	U	
14S/13E-21BCD	17002464	REED, D. G.	04/10/73	442031	1211059	2790	185.0	8.0	P	145.0	185.0	6.0	B	10.0	0.0	1.0	118.4	08/18/93	H	
14S/13E-21DAD	17002475	WEIGAND, R.	05/10/77	442020	1211006	2890	200.0	6.0	X	19.0	200.0	8.0	B	10.0	0.0	1.0	171.0	02/15/79	H	
14S/13E-22ABB	17002490	FINDLEY, C. L.	08/13/77	442055	1210919	2801	115.0	8.0	X	27.0	115.0	8.0	B	12.0	0.0	2.0	89.0 (D)	08/13/77	H	
14S/13E-22ACC	17000758	ZOWNEY, THOMAS	01/02/91	442033	1210926	2905	250.0	8.0	P	230.0	250.0	6.0	A	35.0	--	1.0	189.8	08/06/93	H	
14S/13E-22BAA	17002491	ANDERSON, A.	07/24/78	442055	1210935	2800	125.0	8.0	X	19.0	125.0	8.0	A	50.0	0.0	--	88.0 (D)	07/24/78	H	
14S/13E-22CAC	17008542	DAVIS, RICHARD	09/10/93	442018	1210942	2908	260.0	8.0	P	220.0	260.0	6.0	A	26.0	0.0	1.0	193.2	01/11/94	H	
14S/13E-23DAD	17002497	ABBAS, I.	08/20/69	442021	1210741	2951	215.0	8.6	X	18.0	215.0	8.0	P	23.0	40.0	2.0	150.0 (D)	01/30/72	H	D
14S/13E-23DDD	17002498	ABBAS, GEORGE	06/29/68	442009	1210739	2943	175.0	6.0	P	150.0	175.0	6.0	B	20.0	2.0	1.0	133.1	08/30/94	H	C,O,H7
14S/13E-24BAC	17002506	MOBERLY, J. A.	01/06/65	442049	1210713	2919	187.0	6.0	X	18.0	187.0	8.0	B	25.0	0.0	2.0	161.0 (D)	03/30/65	H	D
14S/13E-24BBB1	17002510	LOVELL, JAMES	12/04/72	442051	1210730	2945	253.0	8.0	P	233.0	253.0	6.0	B	20.0	3.0	1.0	182.0 (D)	12/04/72	H	
14S/13E-24BBB2	17002504	WHISLER, AMOS	06/14/73	442052	1210734	2945	283.0	8.0	P	243.0	283.0	6.0	B	10.0	7.0	1.0	216.0 (D)	06/14/73	H	
14S/13E-24DBC	17002503	MILLS, H.	10/27/73	442023	1210659	2931	208.0	8.0	P	169.0	208.0	6.0	B	20.0	8.0	1.0	168.0 (D)	10/27/73	H	
14S/13E-25BAA	17002511	MANNING, LARRY	12/22/89	442002	1210705	2965	212.0	8.0	P	192.0	212.0	6.0	A	20.0	0.0	1.0	182.0	12/22/89	H	
14S/13E-25BCC	17002524	RUTH, A.	12/08/76	441941	1210732	2950	225.0	6.0	X	19.0	225.0	8.0	B	13.0	0.0	1.0	205.0 (D)	12/08/76	H	
14S/13E-25BDA	17002525	FARNSWORTH, L.	05/18/72	441951	1210707	2961	237.0	8.0	P	207.0	237.0	6.0	B	20.0	0.0	1.0	201.0 (D)	05/18/72	H	
14S/13E-25DBB	17002530	SIMMONS, J. E.	03/07/68	441936	1210653	2945	277.0	6.0	P	237.0	277.0	6.0	B	20.0	0.0	1.0	227.0 (D)	03/07/68	H	
14S/13E-26BCB	17002537	ANDRE, M. A.	07/26/77	441947	1210849	2946	290.0	8.0	X	23.0	290.0	8.0	P	325.0	0.0	3.5	220.0 (D)	07/26/77	I	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level		Use	Remarks		
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum			Date	
40	14S/13E-26CCB	17002538	MCBETH, L.	09/27/78	441918	1210845	2945	203.0	8.0	X	158.0	203.0	5.0	P	13.0	0.0	1.0	158.0 (D)	09/27/78	H	GA
	14S/13E-26DAD	17000029	PARNELL, BRUCE	05/03/90	441932	1210741	2957	260.0	8.0	P	240.0	260.0	6.0	A	15.0	0.0	1.0	230.7	08/18/93	H	
	14S/13E-27DAA	17000313	BRYANT, R.	12/18/78	441934	1210852	2953	252.0	8.0	P	232.0	252.0	6.0	B	8.0	4.0	1.0	221.0 (D)	12/18/78	H	
	14S/13E-27DCC	17000829	WOJTWOWYCH, JULIAN	03/12/91	441914	1210924	2965	265.0	8.0	P	245.0	265.0	6.0	A	25.0	0.0	1.0	214.2	08/18/93	H	
	14S/13E-27DDD	17002547	HINDERMAN, E.	02/22/72	441915	1210855	2947	275.0	8.0	P	252.0	272.0	6.0	B	20.0	--	1.0	227.0 (D)	02/22/72	H	
								8.0	x	272.0	275.0	6.0									
	14S/13E-28ACA	17002555	RIBEIRO, T.	06/03/74	441949	1211025	2885	283.0	8.0	P	223.0	283.0	6.0	B	20.0	6.0	1.0	160.2	03/07/79	H	Q,H6
	14S/13E-28BAA	17002557	MAINE, D. C.	03/15/77	442001	1211046	2868	210.0	8.0	P	170.0	210.0	6.0	B	18.0	0.0	1.0	162.0 (D)	03/15/77	H	
	14S/13E-28CBA	17001011	WREN, WILLIAM	08/21/91	441935	1211104	3060	430.0	8.0	X	419.0	430.0	6.0	A	20.0	--	1.0	330.0 (D)	08/21/91	H	
	14S/13E-28CBB1	17002572	TIANO, JIM	08/18/81	441934	1211110	3116	419.0	8.0	X	19.0	419.0	8.0	B	5.0	0.0	1.0	399.7	08/30/94	H	
	14S/13E-28CBB2	17000778	KROO, ANDREW	02/18/91	441937	1211111	3114	484.0	8.0	P	420.0	480.0	6.0	A	50.0	0.0	1.0	428.0 (D)	02/18/91	H	
	14S/13E-28CBC	17001765	DEAN, DAN	06/02/93	441932	1211113	3090	482.0	8.0	P	462.0	482.0	5.0	A	25.0	--	1.0	375.0 (D)	06/02/93	H	
	14S/13E-28CBD	17001766	JORDAN, BARRY	06/07/93	441931	1211107	3080	442.0	8.0	P	422.0	442.0	6.0	A	25.0	--	1.0	353.0 (D)	06/07/93	H	
	14S/13E-28DBA	17000314	LEIGHTON, J.	01/01/75	441934	1211025	2920	245.0	6.6	X	20.0	245.0	8.0	P	22.0	0.0	1.5	197.3	02/27/79	H	
	14S/13E-29BDD	17000053	COUGHLIN, PETER	05/16/90	441945	1211154	2860	233.0	6.0	P	213.0	233.0	6.0	A	20.0	--	1.0	175.5	08/18/93	H	
	14S/13E-30BBC	17000751	FISHER CONSTRUCTION	12/18/90	441956	1211338	2805	215.0	8.0	X	19.0	215.0	8.0	P	40.0	0.0	1.0	173.0 (D)	12/18/90	H	
	14S/13E-31ABA	17002615	ZIERLEIN, L. L.	04/27/69	441912	1211247	2798	115.0	8.0	X	105.0	115.0	6.0	B	23.0	0.0	1.0	90.0 (D)	04/27/69	H	
	14S/13E-31ABB	17008574	DEAN, MARIE & DAVID	09/17/93	441909	1211302	2795	200.0	6.0	X	168.0	200.0	6.0	A	35.0	--	1.0	118.0 (D)	09/17/93	H	
	14S/13E-31CAA	17001720	SCHMIDT, JAMES	04/28/93	441841	1211305	2895	220.0	8.0	P	200.0	220.0	6.0	B	12.0	3.0	1.0	191.0 (D)	04/28/93	H	
	14S/13E-31CBA	17001073	THORTON, DICK	09/24/91	441846	1211327	2990	253.0	8.0	P	233.0	253.0	6.0	A	18.0	--	1.0	194.0 (D)	09/24/91	H	
	14S/13E-31DAB	17002620	HELMHOLTZ, H.	06/26/69	441845	1211246	2803	225.0	16.0	P	125.0	225.0	14.0	B	50.0	0.0	4.0	105.0 (D)	06/26/69	P	
	14S/13E-31DBD	17002616	LA CASA MIA	09/21/74	441838	1211250	2798	153.0	8.0	P	110.0	130.0	8.0	P	165.0	6.0	24.0	85.0 (D)	09/21/74	P	
										X	130.0	153.0	6.0								
	14S/13E-32ACC	17002625	RIM ROCK WEST	08/10/73	441851	1211143	2878	200.0	8.0	P	158.0	198.0	6.0	B	15.0	0.0	1.0	158.0 (D)	08/10/73	H	
	14S/13E-32ADD	17002639	BLACK, PIKA	05/19/71	441849	1211124	2890	190.0	6.0	P	135.0	190.0	6.0	B	20.0	0.0	1.0	166.5	02/27/79	P	
	14S/13E-32BBD1	17002637	TIMMERMAN, C.	03/12/66	441903	1211211	2865	168.0	6.0	P	148.0	168.0	6.0	B	20.0	3.0	3.0	146.0 (D)	03/12/66	H	
	14S/13E-32BBD2	17000319	WHITE, J.	01/24/79	441900	1211213	2863	172.0	6.0	P	152.0	172.0	6.0	A	10.0	--	0.5	142.0 (D)	01/24/79	H	
	14S/13E-32CBD	17002644	DEGNER, C.	02/08/58	441837	1211219	2896	250.0	6.0	X	4.0	250.0	6.0	B	15.0	0.0	--	195.0 (D)	02/08/58	H	
	14S/13E-32DAC	17002636	RIM ROCK WEST	08/30/75	441835	1211133	2902	220.0	8.0	P	189.0	219.0	6.0	B	20.0	0.0	4.0	189.2	08/05/93	P	
	14S/13E-33AAD	17000223	SAGER,DEL	11/09/90	441901	1211006	2980	300.0	8.0	P	280.0	300.0	6.0	A	15.0	0.0	1.0	251.7	08/05/93	H	
	14S/13E-33CDD	17002665	ELLIOTT, E.	08/10/72	441827	1211041	2955	270.0	8.0	P	250.0	270.0	6.0	B	20.0	0.0	2.0	220.0 (D)	08/10/72	H	
	14S/13E-33DAC1	17002661	UHL, F.	09/12/63	441834	1211014	2965	275.0	8.0	P	260.0	275.0	8.0	B	21.0	3.0	2.0	244.0 (D)	09/12/63	H	
	14S/13E-33DAC2	17002667	GROSNICKLE, J. L.	06/09/64	441839	1211016	2862	275.0	8.0	P	238.0	255.0	6.0	B	18.0	0.0	2.0	238.0 (D)	06/09/64	H	
										X	255.0	275.0	6.0							D	
	14S/13E-33DCD	17002668	ELLIOTT, F. H.	10/15/64	441821	1211026	2960	250.0	6.0	P	230.0	250.0	6.0	P	16.0	0.0	1.0	237.0 (D)	10/15/64	H	
	14S/13E-34CBB	17002683	OLANO, D.	09/14/78	441845	1210959	2957	290.0	8.0	P	270.0	290.0	6.0	B	12.0	2.0	1.0	251.0 (D)	09/14/78	H	
	14S/13E-34DCC	17000071	BROWN, PATRICK R.	06/08/90	441825	1210919	2975	315.0	8.0	P	295.0	315.0	6.0	A	22.0	--	1.0	248.6	08/05/93	H	
	14S/13E-35CCC	17002748	DEMMECK, F.	09/20/73	441824	1210847	2991	327.0	8.0	P	278.0	327.0	6.0	B	12.0	5.0	1.0	258.0 (D)	09/20/73	H	
	14S/13E-35CCD	17002727	GHIRARDO, L.	11/20/75	441824	1210836	2985	301.0	8.0	X	18.0	301.0	8.0	B	18.5	0.0	1.0	256.0 (D)	11/20/75	H	
	14S/13E-35DBA	17002732	LOVEJOY, G.	10/23/78	441844	1210758	2982	290.0	8.0	P	250.0	290.0	6.0	A	24.0	0.0	--	243.0 (D)	10/23/78	H	
14S/13E-35DBD	17008958	GRASSMAN, CINDY	11/18/93	441834	1210800	3002	340.0	8.0	P	300.0	340.0	6.0	A	21.0	0.0	1.0	280.0 (D)	11/18/93	H		
14S/13E-36AAB	17002767	ROGERS, F.	03/29/74	441907	1210642	2955	311.0	8.0	P	281.0	311.0	6.6	B	20.0	0.0	1.0	231.7	02/15/79	H		
14S/13E-36ACC	17002739	BRITTEN, CHARLES	05/10/80	441847	1210657	2960	290.0	8.0	X	20.0	290.0	8.0	A	10.0	0.0	1.0	237.1	08/05/93	H		
14S/13E-36BCA	17002770	MILLER, N.	02/09/77	441854	1210723	2980	290.0	8.0	X	20.0	290.0	8.0	B	10.0	0.0	1.0	239.0 (D)	02/09/77	H		
14S/13E-36CAD	17009189	WILSON, NORM	04/05/94	441837	1210708	2969	300.0	8.0	P	260.0	300.0	6.0	B	12.0	0.0	1.0	247.0 (D)	04/05/94	H		
14S/13E-36CCD	17000327	GENEVIEVE, THOMAS	04/11/77	441822	1210728	3000	305.0	8.0	X	19.0	305.0	8.0	B	15.0	1.0	1.0	266.0 (D)	04/11/77	H		
14S/14E-08DCB	13000422	CASCADE FARMS	03/28/91	442201	1210437	2858	155.0	14.0	P	70.0	120.0	14.0	A	500.0	--	1.0	86.7	06/23/94	I		
									X	120.0	155.0	12.0							D		
14S/14E-16CBD	13000720	CENTRAL OREGON PAVERS, INC.	03/12/76	442111	1210349	2835	119.0	8.0	P	90.0	119.0	6.0	P	225.0	1.0	4.0	68.6	06/28/94	H		

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
14S/14E-18DBA	13000034	CASCADE FARMS	07/08/90	442118	1210538	2850	195.0	8.0	X	20.0	195.0	8.0	--	--	--	--	75.0 (D)	07/08/90	I	
14S/14E-22BCB	13000752	SCHLOSSER, PHIL	02/10/86	442042	1210247	2822	218.0	8.0	P	172.0	212.0	8.0	P	160.0	114.0	7.0	41.0 (D)	02/10/86	I	
									X	212.0	218.0	8.0								
14S/14E-23BBB	13000754	TAGNOLI, STEVE	05/28/87	442050	1210130	2830	222.0	8.0	P	202.0	222.0	8.0	P	220.0	--	1.0	9.0 (D)	05/28/87	H	
14S/14E-26BCD	13000509	KILPATRICK, ALBERT	11/16/92	441940	1210125	3035	340.0	8.0	P	300.0	340.0	6.0	A	50.0	0.0	1.0	237.8	06/22/94	H	
14S/14E-29CCA	13000760	TAYLOR, KENNETH	07/25/78	441924	1210500	2910	420.0	12.0	X	24.0	420.0	12.0	B	20.0	3.0	1.0	195.0	07/25/78	I	
14S/14E-30ACB	13000763	BENTZ, BERNARD	11/14/75	441951	1210548	2940	270.0	8.0	X	20.0	270.0	8.0	B	12.0	40.0	1.0	209.1	06/22/94	H	
14S/14E-36BBC	13000755	LARK RANCHES	11/11/83	441905	1210016	3070	355.0	8.0	P	315.0	355.0	6.0	P	23.0	0.0	2.0	295.0 (D)	12/03/83	H	D
14S/15E-02CCA	13000430	NICHOL, E.	07/01/92	442249	1205408	2975	515.0	6.0	P	175.0	195.0	6.0	B	20.0	100.0	1.0	155.6	06/20/94	H	D
									X	195.0	515.0	6.0								
14S/15E-08ACB	13000811	ANGLEN	04/24/71	442225	1205716	2995	100.0	6.0	P	70.0	100.0	6.0	B	6.0	30.0	1.0	33.3	06/20/94	H	
14S/15E-09DDD	13000819	WOODWARD, CRAIG	04/14/79	442149	1205540	2904	200.0	8.0	O	200.0	200.0	8.0	P	100.0	20.0	1.0	0.0 (D)	04/14/79	H	
14S/15E-11CDA	13000859	RENIS, RONALD	04/07/74	442156	1205349	2928	185.0	6.0	P	165.0	185.0	6.0	B	20.0	15.0	1.0	1.7	06/20/94	H	D
14S/15E-12ACC	13000884	WALL, ALBERT	09/20/88	442219	1205230	2985	100.0	6.0	P	59.0	79.0	6.0	A	20.0	--	1.0	9.9	06/20/94	H	
									X	79.0	100.0	6.0								
14S/15E-15DAC1	13000438	WHALEY, L. GERALD	08/14/92	442112	1205428	2910	206.0	6.0	P	196.0	206.0	6.0	F	25.0	--	1.0	-1.5	06/21/94	H	
14S/15E-15DAC2	13000909	SHARP,VIRGIL	03/23/88	442112	1205428	2910	50.0	6.0	P	30.0	50.0	6.0	B	10.0	10.0	1.0	23.5	06/21/94	H	
14S/15E-15DCB	13000955	WILLIAMS, CLAUDE	01/01/15	442103	1205450	2847	210.0	4.0	--	--	--	--	--	--	--	--	27.7	11/15/85	H	SD
14S/15E-20DDA	13000961	BOSTON CATTLE CO.	--	442016	1205648	2818	150.0	--	--	--	--	--	--	--	--	--	10.2	11/15/85	U	SD
14S/15E-24CBC	13000990	RHODEN, JACK	07/08/83	442017	1205304	2878	165.0	6.0	X	164.0	165.0	6.0	B	30.0	3.0	2.0	31.6	06/21/94	S	
14S/15E-24CCB	13000969	PINE PRODUCTS	05/13/88	442014	1205304	2875	1000.0	8.0	X	340.0	1000.0	8.0	P	150.0	923.0	5.0	60.0 (D)	05/13/88	N	
14S/15E-29BCB	13001047	MCDANIELS, ROE	11/20/81	441948	1205757	3230	620.0	8.0	P	560.0	580.0	6.0	A	8.0	--	1.0	473.0 (D)	11/20/81	H	
									X	580.0	620.0	6.0								
14S/15E-30ABB	13000090	MCDANIEL, R.R.	08/02/79	442003	1205827	3310	535.0	8.0	P	472.0	535.0	6.0	A	16.0	0.0	--	474.0 (D)	08/02/79	H	
14S/15E-31CAB	13001059	FRANKE, DAVID	07/26/79	441846	1205848	3150	348.0	8.0	P	294.0	336.0	6.0	P	18.0	--	1.0	290.0 (D)	07/26/79	H	
									X	336.0	348.0	8.0								
14S/15E-32DCA	13000091	DUNKIN, DWIN	03/10/80	441833	1205704	3190	438.0	8.0	P	418.0	438.0	6.0	A	14.0	8.0	--	393.0 (D)	03/10/80	--	
14S/15E-33ADD	13001066	COVERT, LARRY	12/30/72	441852	1205539	3215	530.0	6.0	P	385.0	400.0	6.0	B	6.0	100.0	2.0	365.0 (D)	12/30/72	H	
									P	520.0	530.0	6.0								
14S/15E-36BAD	13001098	KELLER, GERALD	07/05/88	441905	1205236	2843	237.0	6.0	P	230.0	237.0	6.0	B	40.0	4.0	1.0	22.2	06/21/94	H	
14S/16E-19ADD	13001206	CLAUSON, LESLIE	--	442043	1205048	2975	47.0	6.0	--	--	--	--	--	--	--	--	9.4	12/08/75	H	SD
14S/16E-31BBB	13001540	PP&L CO.	09/04/57	441904	1205139	2854	256.0	24.0	S	228.0	253.0	12.0	P	550.0	84.0	8.0	17.9	03/16/81	P	SD
14S/16E-31DCD	13001546	PP&L CO.	01/01/17	441823	1205110	2852	228.0	--	--	--	--	--	P	360.0	96.0	20.0	3.8	11/15/85	P	SD
14S/16E-32CBA	13001577	PP&L CO.	02/01/43	441836	1205037	2930	1000.0	--	--	--	--	--	P	130.0	27.0	2.0	66.7	11/15/85	P	SC,H8
14S/16E-32CCD	13001571	WAGONER, E.	01/01/12	441819	1205034	2870	160.0	--	--	--	--	--	--	--	--	--	5.1	11/15/85	U	SD
15S/09E-01CDA1	17001663	LLOYD, RICHARD	03/04/93	441736	1213619	3310	115.0	6.0	P	95.0	115.0	6.0	A	25.0	--	1.0	56.9	02/28/94	H	
15S/09E-01CDA2	17001224	ARMSTRONG, THOMAS	01/08/92	441738	1213619	3310	120.0	6.0	P	100.0	120.0	6.0	B	30.0	0.0	1.0	48.5	08/03/93	H	
15S/09E-01DDC	17001641	NASH, KEITH & TAMMIE	02/08/93	441733	1213546	3275	215.0	8.0	P	195.0	215.0	6.0	A	25.0	--	1.0	178.3	08/02/93	H	
15S/10E-01CDD1	17000992	CYRUS, KEITH	05/28/91	441731	1212901	3115	260.0	18.0	P	190.0	230.0	16.0	B	50.0	0.0	1.0	204.0	08/05/93	I	
									X	230.0	260.0	18.0								
15S/10E-01CDD2	17000050	CYRUS, KEITH	05/16/90	441730	1212900	3115	278.0	12.0	P	228.0	248.0	10.0	P	600.0	1.0	4.0	204.3	12/01/93	P	R,H6,GD,D
									X	248.0	278.0	12.0								
15S/10E-01DAD	17002912	MASON,JIM	07/13/79	441745	1212822	3110	463.0	8.0	P	443.0	463.0	6.0	P	50.0	12.0	1.0	379.0 (D)	07/13/79	H	
15S/10E-02CDA	17002929	KALLIO, NICK	07/06/73	441742	1213009	3125	195.0	6.0	X	77.0	195.0	6.0	B	50.0	--	1.0	155.0	08/31/94	H	Q,H6
15S/10E-02DCB	17009187	CRISTEANO,NICK	04/12/94	441741	1213000	3140	200.0	8.0	P	160.0	200.0	6.0	A	14.0	0.0	1.0	130.0 (D)	04/12/94	H	
15S/10E-02DDC	17000014	WHITNEY, JIM	03/19/90	441737	1212947	3145	601.0	8.0	O	601.0	601.0	5.0	A	32.0	--	1.0	230.0	06/16/93	H	D
15S/10E-03ABB	17002948	MARQUARDT, JOHN	07/29/80	441819	1213118	3175	172.0	8.0	P	152.0	172.0	6.0	A	35.0	12.0	1.0	119.4	08/04/93	H	
15S/10E-03ACD	17002941	KAPPELMAN, DON	04/18/89	441756	1213110	3325	308.0	8.0	P	288.0	308.0	6.0	A	25.0	--	1.0	257.6	08/14/93	H	
15S/10E-03BCB1	17002986	LITZENBERGER, ALAN	05/27/78	441804	1213157	3145	68.0	6.0	P	50.0	68.0	5.0	P	75.0	10.0	4.0	25.0 (D)	05/27/78	H	
15S/10E-03BCB2	17001036	MELTON, EVERETT A.	08/24/91	441807	1213154	3145	99.0	8.0	P	79.0	99.0	8.0	A	100.0	--	1.0	40.0 (D)	08/24/91	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
15S/10E-04ABD	17001340	CLEMONS, CLIFFTON	06/03/92	441809	1213219	3147	170.0	10.0	X	120.0	170.0	6.0	A	500.0	0.0	1.0	50.0 (D)	06/03/92	H	
15S/10E-05BBB	17002999	BROOKS RESOURCES CORP.	01/03/80	441706	1213421	3210	346.0	18.0	X	246.0	346.0	10.0	P	1210.0	30.0	48.0	106.0 (D)	01/03/80	P	
15S/10E-05CCA	17001334	HAP TAYLOR CONSTRUCTION	08/12/91	441742	1213406	3205	302.0	18.0	P	242.0	302.0	10.0	P	1200.0	0.3	8.0	101.0 (D)	08/12/91	I	
15S/10E-05CDB	17002995	LDS CHURCH	09/04/85	441740	1213358	3201	114.0	6.0	O	114.0	114.0	6.0	P	32.0	0.0	6.0	98.5	08/03/93	H	Q,H6
15S/10E-06BCA	17000346	REED, BILL	09/18/79	441804	1213525	3255	240.0	12.0	P	138.0	198.0	12.0	P	150.0	0.0	6.0	152.6	08/03/93	I	
15S/10E-08ACD	17003016	HAMMOND, ROSS B.	07/06/60	441550	1213147	3210	228.0	16.0	X	200.0	240.0	8.0								
									P	118.0	122.0	12.0	P	900.0	5.0	16.0	103.5	11/15/85	I	SC,H8
									P	125.0	131.0	12.0								
									P	169.0	174.0	12.0								
15S/10E-09CBA	17003023	CITY OF SISTERS	10/02/75	441659	1213259	3195	211.0	14.0	P	176.0	181.0	12.0								
									X	196.0	228.0	16.0								
									P	50.0	100.0	10.0	P	1310.0	5.3	1.0	103.0	08/16/93	P	
									P	96.0	196.0	10.0								
15S/10E-10BCC	17000827	HULL, JOAN R.	02/08/91	441706	1213156	3170	136.0	6.0	X	196.0	211.0	10.0								
									P	116.0	136.0	5.0	B	15.0	0.0	1.0	83.0 (D)	02/08/91	H	
									P	52.0	131.0	10.0	P	600.0	--	4.0	61.0 (D)	03/20/66	I	
									P	90.0	110.0	6.0	A	20.0	--	1.0	73.0	08/31/94	H	Q,H6
15S/10E-10DBC	17008625	LAZY Z RANCH	10/07/93	441655	1213115	3161	110.0	8.0	P	90.0	110.0	6.0	A	20.0	--	1.0	73.0	08/31/94	H	
15S/10E-11BAD	17003056	NEARY, MIKE	05/25/88	441721	1213009	3150	240.0	8.0	P	180.0	240.0	5.0	A	40.0	0.0	1.0	180.3	09/08/93	H	
15S/10E-12ABD	17003078	SCOFFIELD, LEWIS	11/30/75	441718	1212843	3130	298.0	8.0	P	200.0	220.0	6.0	B	30.0	20.0	4.0	160.0 (D)	11/30/75	H	
15S/10E-12ACB	17003081	MILLER, ROBIN	06/09/77	441713	1212849	3125	179.0	6.0	X	270.0	298.0	8.0								
									P	160.0	179.0	6.0	B	12.0	0.0	1.0	168.7	08/06/93	H	
									X	45.0	250.0	16.0	P	2500.0	5.0	4.0	183.5	03/14/79	I	
									X	42.0	254.0	18.0	P	5000.0	2.0	4.0	197.1	08/31/94	I	O,H7
15S/10E-13BBB1	17003086	CYRUS, KEITH	02/03/75	441637	1212929	3154	250.0	16.0	X	45.0	250.0	16.0	P	2500.0	5.0	4.0	183.5	03/14/79	I	
15S/10E-13BBB2	17003088	CYRUS, K.	06/28/77	441635	1212931	3153	254.0	18.0	X	42.0	254.0	18.0	P	5000.0	2.0	4.0	197.1	08/31/94	I	O,H7
15S/10E-14BBB	17003035	LAZY Z RANCH	05/13/70	441637	1213042	3170	168.0	12.0	P	145.0	165.0	12.0	P	300.0	2.0	4.0	144.0 (D)	05/13/70	I	
15S/10E-14CBB	17003092	OREGON LOG HOMES	05/17/87	441609	1213043	3193	260.0	8.0	X	165.0	168.0	12.0								
									P	220.0	260.0	5.0	A	25.0	0.0	1.0	201.9	08/05/93	H	D
									X	220.0	260.0	5.0	B	30.0	0.0	1.0	190.0 (D)	10/13/76	I	
									X	243.0	8.0									
15S/10E-14DAB	17000351	SQUAW CREEK IRR. DISTRICT	08/30/77	441610	1212949	3174	302.0	16.0	X	38.0	302.0	15.0	B	10.0	0.0	1.0	230.0 (D)	08/30/77	I	
15S/10E-18ADC	17003108	COOK, ROY	10/16/86	441616	1213432	3275	262.0	8.0	P	222.0	262.0	6.0	B	8.0	0.0	1.0	154.0 (D)	10/16/86	H	
15S/10E-18CDC	17003109	SNOW, STEVE	07/08/86	441547	1213516	3495	420.0	8.0	P	400.0	420.0	6.0	B	7.0	3.0	1.0	372.0 (D)	07/08/86	H	
15S/10E-18DDA	17003111	EDGINGTON, JESSE	04/12/85	441554	1213432	3345	300.0	6.0	X	19.0	300.0	6.0	P	31.0	0.0	4.0	225.0 (D)	04/12/85	H	
15S/10E-20DDC	17003126	STROEMPLE, GEORGE	07/22/83	441459	1213320	3440	405.0	8.0	P	385.0	405.0	5.0	P	23.0	0.0	4.0	325.0 (D)	07/22/83	H	
15S/10E-24ACC	17001060	GIGURE, HUGH	10/02/92	441524	1212848	3170	280.0	8.0	P	240.0	280.0	6.0	A	25.0	0.0	1.0	210.0 (D)	10/02/92	H	
15S/10E-24CCD	17003140	RODGERS, GARY	05/20/73	441456	1212918	3215	290.0	8.0	P	260.0	290.0	6.0	P	30.0	10.0	3.0	250.0 (D)	05/20/73	H	
15S/10E-25ABA	17003159	PHILPIN, JIM	10/20/73	441452	1212839	3205	310.0	8.0	P	100.0	120.0	5.5	P	20.0	0.0	2.0	244.2	09/12/78	H	D
15S/10E-25ADC	17003163	MCKNIGHT, ROBERT	04/20/73	441432	1212835	3255	352.0	8.0	P	290.0	310.0	5.0								
									X	60.0	352.0	8.0	B	15.0	0.0	2.0	297.5	09/12/78	H	
									P	305.0	354.0	6.0	B	10.0	3.0	1.0	304.0 (D)	11/09/74	H	
									P	308.0	328.0	6.0	B	5.0	0.0	1.0	311.0 (D)	07/03/77	H	
15S/10E-25BDC	17003162	NELSON, HARRY	07/03/77	441430	1212910	3279	336.0	6.0	X	328.0	336.0	8.0								
15S/10E-25CAC	17009190	KALLEBACH, RHONDA	04/08/94	441415	1212910	3277	360.0	8.0	P	320.0	360.0	6.0	A	17.0	0.0	1.0	324.0 (D)	04/08/94	H	
15S/10E-25CCA1	17003171	BUTLER, FRANCIS	10/06/76	441410	1212918	3288	355.0	8.0	P	315.0	355.0	6.0	B	10.0	7.0	1.0	315.0 (D)	10/06/76	U	
15S/10E-25CCA2	17008614	ANECKER, LLOYD	10/27/93	441410	1212919	3290	380.0	8.0	P	340.0	380.0	6.0	B	12.0	0.0	1.0	330.4	01/11/94	H	
15S/10E-25CCB	17003168	WENIGER, GEORGE E.	07/28/70	441411	1212930	3305	370.0	6.0	P	340.0	370.0	5.0	B	8.0	0.0	1.0	335.0 (D)	08/03/72	H	D
15S/10E-25CDB	17003169	MITCHEL, A. M.	01/01/73	441411	1212913	3283	40.0	8.0	P	30.0	40.0	6.0	B	5.0	5.0	1.0	26.0 (D)	01/01/73	H	
15S/10E-25CDC	17003170	IMEL, B. L.	04/25/78	441405	1212912	3292	355.0	8.0	P	315.0	355.0	6.0	B	10.0	0.0	2.0	320.2	09/13/78	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level			Use	Remarks
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
15S/10E-25DCC	17003157	MITCHELL, A. M.	05/05/76	441402	1212854	3277	340.0	8.0	X	338.0	340.0	8.0	B	20.0	0.0	2.0	305.0	09/13/78	H	
15S/10E-25DCD	17003158	MITCHELL, BILL	03/25/76	441402	1212845	3269	350.0	8.0	P	280.0	300.0	6.0	B	10.0	0.0	2.0	325.0 (D)	03/25/76	H	
									X	300.0	350.0	8.0								
15S/10E-25DDC	17000355	MCDONALD, AMOS	08/25/78	441406	1212833	3260	346.0	8.0	P	326.0	346.0	6.0	B	7.0	6.0	1.0	305.0	08/13/93	H	
15S/10E-26AAA	17003172	SEVERSON, KARL	11/06/85	441449	1212941	3230	321.0	8.0	P	281.0	321.0	5.0	A	15.0	0.0	1.0	281.0 (D)	03/23/93	H	D
15S/10E-26ADC	17001074	SHARPF, BARBARA	09/21/91	441428	1212950	3272	393.0	8.0	P	80.0	100.0	6.0	--	--	--	--	57.2	08/16/93	I	D
									X	100.0	393.0	10.0								
15S/10E-26BBC	17003182	LINDE, DAVID J.	06/27/80	441446	1213038	3340	522.0	8.0	X	37.0	520.0	8.0	A	9.0	0.0	1.0	475.0 (D)	06/27/80	I	
15S/10E-28ABD	17001006	MOUNT, GUY	08/24/91	441443	1213219	3375	280.0	8.0	P	240.0	280.0	6.0	B	5.0	0.0	1.0	230.0 (D)	08/24/91	H	
15S/10E-28CCB	17003184	BROWN, ARCHIE	01/01/62	441424	1213308	3460	38.0	5.0	P	18.0	37.0	5.0	B	20.0	4.0	1.0	--	--	H	
15S/10E-36AAD1	17001213	MCCULLEY, P. E.	02/22/70	441348	1212822	3258	303.0	8.0	X	70.0	303.0	6.0	B	16.0	0.0	3.0	287.6	08/11/78	H	
15S/10E-36AAD2	17003193	WARNES, CELIA	05/12/78	441350	1212822	3256	330.0	8.0	X	19.0	330.0	8.0	B	10.0	0.0	1.0	300.7	08/31/94	H	O,H7
15S/10E-36DBA	17003207	WILLIAMSTON, HOMER	01/06/75	441329	1212840	3287	349.0	8.0	X	299.0	349.0	8.0	B	20.0	5.0	2.0	310.0 (D)	01/06/75	H	
15S/11E-03BBA	17003209	PALFY S.	04/13/78	441819	1212424	3076	500.0	8.0	X	22.0	500.0	8.0	B	50.0	91.0	2.0	389.0 (D)	04/13/78	H	
15S/11E-04AAC	17003214	PETERSEN, D.	01/26/78	441811	1212455	3061	396.0	8.0	P	366.0	396.0	6.0	A	18.0	0.0	--	367.0 (D)	01/26/78	H	
15S/11E-04AAD	17003211	PALFY, STEVE	09/17/84	441814	1212455	3065	575.0	8.0	P	380.0	400.0	6.0	A	20.0	--	1.0	370.0 (D)	09/17/84	H	
									X	420.0	575.0	8.0								
15S/11E-04CCB	17003217	CURRIER, DON	06/17/68	441739	1212553	3075	80.0	6.0	P	60.0	80.0	6.0	B	15.0	3.0	4.0	65.0 (D)	06/17/68	H	
15S/11E-04CCC	17001553	BAUER, KIM	11/06/92	441731	1212551	3070	480.0	8.0	P	440.0	480.0	6.0	A	50.0	0.0	1.0	362.4	09/09/93	H	
15S/11E-04CDB	17008569	HAHN, FRED	09/28/93	441739	1212533	3065	460.0	8.0	P	420.0	460.0	6.0	A	15.0	0.0	1.0	353.0	01/10/94	H	
15S/11E-05ACB	17003224	JOHNSON, DON	09/07/77	441806	1212623	3075	400.0	8.0	P	360.0	400.0	6.0	A	15.0	--	--	382.4	09/10/93	H	
15S/11E-05BAA	17003219	JOHNSON, DON	09/04/85	441818	1212638	3122	502.0	8.0	P	420.0	440.0	6.0	A	0.0	--	--	--	--	H	D
									X	440.0	502.0	6.0								
15S/11E-05BCA	17000360	YORK, ERV	07/21/76	441806	1212652	3076	460.0	6.0	X	59.0	460.0	6.0	B	15.0	0.0	1.0	385.0 (D)	07/21/76	H	
15S/11E-06ABD	17008601	SALMON, ROY	10/07/93	441814	1212727	3140	520.0	8.0	P	440.0	480.0	6.0	A	20.0	0.0	1.0	422.0	01/10/94	H	
									X	480.0	520.0	5.5								
15S/11E-06ADD	17003230	PINE MEADOW RANCH	01/08/75	441756	1212712	3077	265.0	8.0	X	20.0	265.0	8.0	B	20.0	0.0	2.0	135.0 (D)	01/08/75	H	
15S/11E-06BDA	17003229	HURTLEY, D.	11/30/73	441807	1212748	3109	438.0	8.0	P	418.0	438.0	6.0	B	12.0	0.0	1.0	374.0 (D)	11/30/73	H	
15S/11E-06CDC	17000207	HURTLEY, DAVID	10/12/90	441735	1212754	3095	425.0	8.0	P	405.0	425.0	6.0	A	18.0	--	1.0	341.2	09/10/93	H	
15S/11E-07AAD	17003232	TRASCHEL, C.	11/10/70	441721	1212709	3089	375.0	6.0	X	60.0	375.0	8.0	B	15.0	0.0	4.0	355.0 (D)	11/10/70	H	
15S/11E-07BCD	17003234	TRASCHEL, CHARLES	11/16/77	441709	1212804	3196	435.0	12.0	P	355.0	435.0	8.0	P	100.0	105.0	4.0	315.0 (D)	11/16/77	U	
15S/11E-07DAD	17003233	CYRUS, ALVIN	09/05/88	441652	1212711	3085	388.0	8.0	P	368.0	388.0	6.0	B	7.0	8.0	1.0	369.7	09/10/93	H	
15S/11E-08CCA	17003236	LAMBERT, BOB	10/27/89	441647	1212652	3075	412.0	8.0	X	27.0	412.0	8.0	B	10.0	--	1.0	412.0 (D)	10/27/89	H	
15S/11E-08CDB	17000361	BROCKWAY, R. S.	12/22/75	441643	1212644	3076	360.0	6.0	X	62.0	360.0	6.0	B	20.0	0.0	1.0	328.0 (D)	12/22/75	H	
15S/11E-09AAA	17003240	KEETON, ARLAND	09/10/72	441725	1212446	3065	495.0	8.0	X	220.0	495.0	8.0	P	30.0	0.0	1.0	360.0 (D)	09/10/72	H	
15S/11E-09AAD	17003241	HARTFORD, ROY	08/06/73	441718	1212445	3070	490.0	8.0	P	426.0	490.0	6.0	B	7.0	10.0	1.0	360.0 (D)	08/06/73	H	
15S/11E-13ABA	17004039	TRACY, JUDY	11/06/86	441143	1212059	3245	631.0	8.0	P	603.0	623.0	6.0	A	24.0	--	1.0	510.0 (D)	11/06/86	H	
15S/11E-16BDB	17003245	DESCHUTES COUNTY	03/26/74	441624	1212533	2935	297.0	10.0	P	126.0	270.0	8.0	B	27.0	0.0	1.0	147.1	09/12/93	U	GA
									X	270.0	297.0	8.0								
15S/11E-17BCA	17003247	ROBERTSON	07/29/77	441619	1212648	3076	330.0	8.0	P	290.0	330.0	6.0	A	20.0	--	--	287.9	08/31/94	H	Q,H6
15S/11E-18ABC	17000011	FRIEND, BOB & SANDY	04/12/90	441626	1212738	3105	458.0	8.0	P	438.0	458.0	6.0	A	43.0	0.0	1.0	346.0 (D)	04/12/90	H	
15S/11E-18ADD	17003256	COCHRAN, GENE	10/19/72	441614	1212710	3081	363.0	8.0	P	313.0	363.0	6.0	R	10.0	0.0	1.0	321.0 (D)	10/19/72	H	
15S/11E-18CCC	17003250	RICHARDSON, PATRICIA	06/13/88	441546	1212818	3119	298.0	8.0	P	258.0	298.0	6.0	B	14.0	--	1.0	206.0 (D)	06/13/88	H	
15S/11E-18DAD	17003260	SMITH, STANLEY MRS.	07/15/73	441602	1212710	3095	399.0	6.0	X	19.0	399.0	6.0	A	20.0	0.0	2.0	370.0 (D)	07/15/73	H	
15S/11E-18DBB	17001127	CYRUS, WILLARD	11/19/91	441610	1212734	3105	310.0	8.0	P	270.0	310.0	6.0	A	10.0	0.0	1.0	273.0 (D)	11/19/91	H	
15S/11E-19AAA	17008962	RUSSELL, JOHN	11/30/93	441541	1212708	3152	360.0	8.0	P	320.0	360.0	6.0	A	26.0	0.0	1.0	282.7	08/03/94	H	GD
15S/11E-19AAC	17003314	MASON, LEO	12/19/75	441538	1212645	3165	310.0	--	--	--	--	--	B	8.0	0.0	1.0	260.0 (D)	12/19/75	H	D
15S/11E-19BAB	17003249	BULL, JUDY	09/25/89	441542	1212754	3141	225.0	8.0	P	205.0	225.0	6.0	B	9.0	3.0	1.0	173.2	09/11/93	H	
15S/11E-19BBA	17003292	SERAFIN, PAUL	05/04/73	441540	1212807	3122	210.0	8.0	X	45.0	210.0	8.0	B	15.0	0.0	2.0	--	--	H	
15S/11E-19BBD	17000364	JAQUES, EARL M.	06/07/77	441533	1212805	3122	205.0	8.0	X	23.0	205.0	8.0	A	25.0	5.0	1.0	161.0 (D)	10/21/77	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
15S/11E-19CBB	17003273	VETTERLEIN, DON	09/20/79	441507	1212811	3161	240.0	10.0	X	20.0	240.0	10.0	P	919.0	7.0	3.0	210.0 (D)	12/15/79	I	
15S/11E-20ACB	17003318	MORGAN, RESINA	05/17/68	441531	1212629	3210	232.0	12.0	X	20.0	205.0	12.0	A	30.0	0.0	1.0	199.2	09/15/93	H	D
									X	205.0	232.0	8.0								
15S/11E-26CBC	17003325	JAQUA, STEPHEN	05/31/88	441416	1212314	3200	694.0	10.0	X	24.0	694.0	10.0	P	9.0	--	1.0	608.0 (D)	05/31/88	H	
15S/11E-27DDD	17003326	JAQUA, STEPHEN	08/04/89	441400	1212334	3155	347.0	10.0	X	28.0	347.0	10.0	P	185.0	--	2.0	288.6	09/12/93	I	D
15S/11E-28CCC	17003327	OWEN, DONALD	10/26/77	441407	1212551	3178	307.0	8.0	P	257.0	297.0	6.0	A	31.0	--	1.0	228.0	09/11/93	H	D
									X	297.0	307.0	8.0								
15S/11E-28CDB	17003333	ALDRICH, DALE	07/06/79	441419	1212544	3170	252.0	8.0	P	232.0	252.0	6.0	B	11.0	4.0	1.0	190.0 (D)	07/06/79	I	
15S/11E-29DBC	17001549	LAMOUREUX, ROGER	11/04/92	441419	1212628	3193	296.0	8.0	P	256.0	296.0	6.0	A	29.0	0.0	1.0	245.6	09/21/93	H	
15S/11E-30CAC1	17003360	STOUDER, SCOTT	09/30/74	441419	1212759	3221	300.0	8.0	X	30.0	300.0	8.0	B	15.0	0.0	2.0	264.8	03/06/79	U	
15S/11E-30CAC2	17003355	SMITH, C. P.	12/17/77	441414	1212753	3228	290.0	8.0	X	19.0	290.0	8.0	P	16.0	0.0	2.0	271.0 (D)	12/17/77	H	
15S/11E-30CDA	17003345	MCGINNIS, MORRIS	09/22/81	441407	1212751	3229	322.0	10.0	P	302.0	322.0	8.0	B	10.0	4.0	1.0	289.2	09/21/93	H	
15S/11E-31ACC	17003386	LUTZ, ROBT.	12/09/78	441338	1212742	3232	332.0	6.0	X	19.0	332.0	8.0	B	10.0	0.0	1.0	301.6	09/22/93	H	
15S/11E-32BBD	17001703	PURKY, KEN	04/19/93	441350	1212654	3210	340.0	8.0	P	300.0	340.0	6.0	A	30.0	0.0	1.0	271.5	09/22/93	H	
15S/11E-32DDC	17003408	MCCOY, BOB	12/10/76	441310	1212612	3218	280.0	8.0	P	260.0	280.0	6.0	P	15.0	10.0	3.0	260.0 (D)	12/10/76	P	
15S/11E-33CBB	17003417	BAKER, NEWEL	07/20/69	441329	1212549	3196	290.0	16.0	P	220.0	243.0	16.0	P	800.0	10.0	6.0	238.0 (D)	07/20/69	P	
									X	245.0	290.0	12.0								
15S/11E-33CDA	17000910	UTZINGER, CARL	05/22/91	441318	1212520	3193	300.0	8.0	P	280.0	300.0	6.0	A	20.0	--	1.0	255.7	09/22/93	H	
15S/11E-34CCA	17000783	HINDMAN, ROBERT	02/25/91	441321	1212425	3218	310.0	8.0	X	19.0	310.0	8.0	A	20.0	0.0	1.0	265.7	08/31/94	H	Q,H6
15S/11E-34CCD	17000801	HAYNES, GARY	03/05/91	441310	1212411	3180	305.0	8.0	X	285.0	305.0	6.0	A	20.0	--	1.0	238.0 (D)	03/05/91	H	
15S/12E-01BBC	17003428	AMEN, J.	06/28/78	441811	1211457	2796	291.0	14.0	X	20.0	291.0	16.0	P	1100.0	20.0	2.0	135.4	10/04/93	I	
15S/12E-01DCA	17003431	HOWELL, EMIL	09/02/71	441738	1211400	2890	240.0	8.0	P	200.0	240.0	5.0	B	20.0	2.0	1.0	165.0 (D)	05/11/72	P	D
15S/12E-02DBC	17000134	CRESTRIDGE PARTNERSHIP	07/06/90	441743	1211534	2925	355.0	8.0	X	18.0	355.0	8.0	A	35.0	0.0	1.0	251.2	10/05/93	H	
15S/12E-02DCA	17008599	WATSON, DUDLEY	10/18/93	441737	1211517	2915	340.0	8.0	P	300.0	340.0	6.0	A	200.0	0.0	1.0	208.6	01/11/94	H	
15S/12E-03AAD1	17003455	TIMOTHY, CALVIN	05/03/80	441814	1211613	2800	330.0	8.0	X	19.0	330.0	10.0	B	16.0	0.0	1.0	218.6	10/04/93	I	
15S/12E-03AAD2	17003450	BUCKNER, ORVAIL	04/24/81	441809	1211619	2805	410.0	10.0	X	19.0	410.0	12.0	P	1100.0	3.0	4.0	222.0	12/01/93	I	R,H6
15S/12E-03BBB	17001680	BECK, MARTHA	03/27/93	441817	1211722	2805	258.0	6.0	X	19.0	258.0	6.0	A	55.0	15.0	1.0	216.4	10/04/93	H	
15S/12E-04DCA	17001505	HIGH DESERT ASSOCIATES	10/02/92	441739	1211753	3020	465.0	8.0	P	440.0	460.0	6.0	A	12.0	0.0	1.0	436.7	10/05/93	H	
15S/12E-09BBD	17000378	ZUMSTEIN, J.	07/19/72	441716	1211826	3083	530.0	8.0	P	500.0	530.0	6.0	B	5.0	0.0	3.0	430.3	04/24/78	H	
15S/12E-09BDB	17003479	ZUMSTEIN, J.	03/11/78	441715	1211817	3056	512.0	10.0	X	20.0	512.0	10.0	P	818.0	0.0	8.0	456.4	08/30/94	U	O,H7
15S/12E-09DAC	17003474	SMITH, MORGAN	10/23/80	441653	1211739	3110	565.0	6.0	P	495.0	555.0	5.0	B	20.0	4.0	2.0	535.0 (D)	10/23/80	H	
15S/12E-10ACC	17003489	LIMBECK, EVERETT	08/05/83	441709	1211641	2925	264.0	8.0	P	244.0	264.0	6.0	A	30.0	--	1.0	219.0	10/05/93	H	
15S/12E-10BAA	17003492	MORGAN, V.	01/16/76	441726	1211648	2964	430.0	10.0	P	390.0	430.0	8.0	P	8.0	0.0	1.0	368.7	04/03/79	I	
15S/12E-10CAB	17003478	CLARK, T.	02/08/78	441700	1211657	2963	321.0	6.0	P	316.0	321.0	5.0	P	22.0	78.0	1.0	231.0	06/04/79	H	D
15S/12E-11BAD	17000063	CRESTRIDGE PARTNERSHIP	05/29/90	441721	1211538	2915	252.0	8.0	X	19.0	252.0	8.0	A	35.0	0.0	1.0	210.8	10/04/93	H	
15S/12E-11BDC	17003512	WEIS, J.	02/27/78	441703	1211548	2910	342.0	12.0	P	222.0	342.0	12.0	A	100.0	0.0	--	210.0 (D)	04/25/79	I	
15S/12E-11CAC	17003517	SKEEN, F. L.	04/22/74	441655	1211546	2915	250.0	8.0	P	210.0	250.0	6.0	B	20.0	0.0	2.0	66.0 (D)	04/22/74	H	
15S/12E-12ADC	17003541	HOWELL, EMIL	05/21/76	441706	1211355	2952	266.0	8.0	P	226.0	266.0	6.0	B	20.0	0.0	1.0	219.8	10/05/93	P	
15S/12E-12BCC	17003550	KLANN, FRED M.	02/22/66	441705	1211454	2910	212.0	6.0	X	70.0	212.0	8.0	B	15.0	1.0	2.0	182.0 (D)	02/22/66	H	
15S/12E-12DAD	17003533	HOWELL, EMIL J.	02/14/78	441651	1211347	2980	296.0	8.0	P	275.0	296.0	6.0	B	23.0	5.0	1.0	243.1	07/11/79	U	
15S/12E-13ACB	17001554	BEECHER, LYNN	10/28/92	441617	1211416	2995	315.0	8.0	P	295.0	315.0	6.0	A	20.0	--	1.0	259.9	10/05/93	H	
15S/12E-13CBC	17003593	CLEMENT, CHARLES	08/17/65	441600	1211450	2970	262.0	6.0	X	20.0	262.0	8.0	B	15.0	0.0	2.0	234.0 (D)	08/18/65	H	
15S/12E-14AAC1	17003586	EPPENBAUGH, A. M.	03/20/78	441629	1211511	2925	220.0	8.0	P	180.0	220.0	6.0	A	20.0	0.0	--	196.9	05/11/78	I	
15S/12E-14AAC2	17003585	EPPENBAUGH, A. M.	12/29/65	441627	1211514	2925	157.0	8.0	P	137.0	157.0	4.0	P	15.0	6.0	3.0	134.0 (D)	01/01/66	H	
15S/12E-14CDD	17003581	CHASE, NEIL	05/14/80	441547	1211540	2975	303.0	8.0	X	19.0	303.0	8.0	A	50.0	0.0	1.0	246.9	08/30/94	H	Q,H6,GD
15S/12E-14DAB	17003591	OREGON STATE PARKS	09/09/71	441605	1211517	2856	97.0	6.0	P	30.0	97.0	6.0	P	100.0	12.0	2.0	12.3	05/09/78	I	
15S/12E-14DAC1	17003590	CHASE, NEIL	09/15/74	441602	1211514	2860	270.0	--	--	--	--	--	--	--	--	--	216.0 (D)	09/15/74	U	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level		Use	Remarks		
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum			Date	
45	15S/12E-14DAC2	17003588	CHASE, N.	07/23/73	441602	1211515	2860	43.0	8.0	P	0.0	43.0	6.0	B	10.0	0.0	1.0	16.0 (D)	07/23/73	H	
	15S/12E-14DCD	17000386	CHASE, NEIL	10/14/74	441545	1211521	2946	262.0	12.0	P	192.0	262.0	12.0	P	400.0	7.0	2.5	216.3	04/04/79	I	
	15S/12E-15AAB	17003596	BLAIR, BOB	12/01/71	441633	1211621	2964	282.0	6.0	P	260.0	280.0	6.0	B	20.0	0.0	1.5	216.2	04/04/79	P	
	15S/12E-15ABD	17003598	GRAHAM, R.	06/08/75	441626	1211635	3003	340.0	8.0	P	320.0	340.0	6.0	B	15.0	0.0	2.0	293.6	04/04/79	H	
	15S/12E-15DCA1	17001198	EAGLE RIDGE DEVELOPMENT	02/20/92	441556	1211635	3105	800.0	18.0	P	510.0	790.0	14.0	A	800.0	--	1.0	518.0 (D)	02/20/92	I	
	15S/12E-15DCA2	17001082	EAGLE RIDGE DEVELOPMENT	10/01/91	441555	1211635	3105	500.0	8.0	X	39.0	500.0	8.0	A	25.0	--	1.0	--	--	H	
	15S/12E-22ADA	17001083	EAGLE RIDGE DEVELOPMENT	10/11/91	441528	1211615	3050	800.0	8.0	P	600.0	620.0	6.0	A	30.0	--	1.0	528.0 (D)	10/11/91	H	
	15S/12E-22DDB	17001130	VANWINKLE, E.	05/01/83	441502	1211623	3085	400.0	8.0	P	380.0	400.0	6.0	P	10.0	--	--	358.1	10/06/93	H	
	15S/12E-23CAB	17003619	CAPPS, JOHN	05/16/78	441516	1211549	3013	322.0	8.0	P	292.0	322.0	6.0	B	8.0	2.0	1.0	279.9	10/16/93	H	
	15S/12E-23DDD	17003626	LINDSAY, C.	05/07/73	441453	1211505	3035	321.0	8.0	P	182.0	227.0	6.0	P	25.0	9.0	2.0	295.1	04/04/79	H	D
										P	279.0	321.0	6.0								
	15S/12E-24ABB	17001581	SCHAEFFER, LARRY	11/19/92	441542	1211414	2885	380.0	8.0	P	360.0	380.0	6.0	A	20.0	--	1.0	249.9	10/07/93	H	
	15S/12E-24BBD	17003642	ANDERSEN, JERRY	09/10/73	441537	1211439	2974	187.0	8.0	P	167.0	187.0	6.0	B	17.0	1.0	2.0	148.0 (D)	09/10/73	H	
	15S/12E-24CAA	17003645	MASSEY, WILLIAM H.	07/21/71	441517	1211421	3025	332.0	6.0	P	322.0	332.0	6.0	B	5.0	0.0	1.0	274.0 (D)	07/21/71	H	
	15S/12E-25ADD	17003658	FLOWERS, D. L.	11/01/71	441428	1211346	3074	368.0	8.0	P	343.0	368.0	6.0	B	20.0	2.0	1.0	328.0 (D)	11/01/71	H	
	15S/12E-25BDA	17001588	CHRISTIE, E.L.	11/25/92	441433	1211423	3065	420.0	8.0	P	400.0	420.0	6.0	A	20.0	--	1.0	317.5	10/07/93	H	
	15S/12E-25DDD	17000391	PERRY, J. R.	04/27/73	441359	1211347	3080	392.0	8.0	P	352.0	392.0	6.0	B	10.0	0.0	1.0	338.0	04/12/79	H	
	15S/12E-26ABA	17001186	AMERICAN LAMINATORS	11/17/91	441446	1211524	3090	400.0	8.0	P	364.0	400.0	6.0	A	20.0	0.0	1.0	352.3	10/07/93	H	
	15S/12E-27AAD	17003665	HEATER, ROLLIN	01/17/81	441442	1211614	3140	470.0	8.0	O	470.0	470.0	8.0	B	15.0	15.0	1.0	410.0 (D)	01/17/81	H	
	15S/12E-29AAC	17000756	KEM, HARRY	01/15/91	441439	1211849	3318	880.0	8.0	X	19.0	880.0	8.0	A	10.0	0.0	1.0	730.0 (D)	01/15/91	H	
	15S/12E-29DDC	17003666	BENNETT, WM. K.	10/31/79	441401	1211851	3187	515.0	8.0	P	475.0	515.0	6.0	A	20.0	0.0	--	465.8	10/07/93	H	
	15S/12E-35DCB	17003670	MCCALLISTER, L.	07/30/78	441317	1211529	3105	456.0	8.0	P	416.0	456.0	6.0	A	22.0	0.0	1.0	386.7	10/18/93	H	
	15S/12E-36CAA	17003623	AVION WATER CO.	05/22/81	441329	1211420	3110	410.0	10.0	X	29.0	410.0	10.0	B	14.0	0.0	2.0	360.0 (D)	05/22/81	P	
	15S/12E-36DCA	17004006	AVION WATER CO.	06/02/69	441319	1211408	3125	423.0	8.0	P	379.0	400.0	6.0	--	--	--	--	385.0 (D)	08/30/73	P	D
										X	400.0	423.0	6.0								
	15S/12E-36DDD	17003680	WOLLAM, L.	12/19/73	441310	1211344	3125	443.0	8.0	S	434.0	443.0	6.0	B	20.0	4.0	1.0	373.0 (D)	12/19/73	H	
	15S/13E-02CCC	17003684	TOURNAMENT CITY	08/28/81	441730	1210844	3018	430.0	8.0	X	26.0	430.0	8.0	P	85.0	5.0	24.0	280.0	09/29/81	I	D
	15S/13E-03AAA	17003705	GRIFFIN, M.	03/23/65	441818	1210853	2990	295.0	6.0	P	260.0	290.0	6.0	B	15.0	6.0	5.0	266.5	03/08/79	H	
	15S/13E-03BAD	17003695	WATTS, G.	07/23/75	441808	1210934	2992	210.0	8.0	P	180.0	210.0	6.0	B	15.0	0.0	1.0	135.0 (D)	07/23/75	H	
	15S/13E-03DBD	17003703	RIEMENSCHNEIDER, D.	10/26/78	441746	1210910	3003	310.0	6.0	X	19.0	310.0	8.0	B	10.0	0.0	1.0	260.0 (D)	10/26/78	H	GA
	15S/13E-04AAC	17003714	COMSTOCK, R.	11/22/65	441807	1211017	2980	368.0	6.0	X	18.0	368.0	6.0	B	4.0	30.0	1.0	250.5	03/08/79	H	
	15S/13E-04ADC	17003721	MANN, DICK	05/16/73	441759	1211018	2978	290.0	6.0	P	231.0	251.0	6.0	B	20.0	0.0	2.0	249.8	03/08/79	N	
										X	251.0	290.0	6.0								
	15S/13E-04CAB	17003723	NORTH RIM SUB-DIVISION	02/07/72	441752	1211051	2954	297.0	10.0	P	277.0	297.0	8.0	B	17.0	10.0	2.0	229.2	03/02/94	U	R,H6,GA
	15S/13E-04DAC	17003719	CENTRAL ELECTRIC CO-OP	05/19/77	441744	1211018	2980	309.0	8.0	P	269.0	309.0	6.0	P	100.0	11.0	2.0	264.0	05/25/78	H	
	15S/13E-04DBB	17003728	MANN, R.	05/30/62	441752	1211033	2965	318.0	6.0	X	18.0	318.0	6.0	B	12.0	0.0	2.0	236.5	03/09/79	H	
	15S/13E-05AAD	17003751	CITY OF REDMOND	06/21/77	441813	1211123	2867	300.0	8.0	S	220.0	280.0	8.0	P	190.0	13.0	24.0	145.6	05/24/78	N	
										S	295.0	300.0	8.0								
	15S/13E-05BCC	17003760	BOONE, D. C.	06/01/65	441759	1211223	2930	230.0	6.0	X	18.0	230.0	8.0	B	15.0	0.0	2.0	218.0 (D)	06/01/65	H	
	15S/13E-05DAD	17003756	HADDEN, ALEX	06/12/73	441742	1211120	2946	298.0	8.0	P	258.0	298.0	6.0	B	15.0	5.0	1.0	229.2	05/25/78	H	
	15S/13E-06ACC	17003778	JONES, G.	03/11/79	441800	1211300	2855	150.0	6.0	X	19.0	150.0	6.0	B	15.0	0.0	1.0	116.5	03/03/94	H	
	15S/13E-06CCD	17000398	BRATLEY, C. M.	01/09/71	441733	1211325	2922	225.0	6.0	P	205.0	225.0	6.0	B	20.0	0.0	1.0	198.0 (D)	01/09/71	H	
	15S/13E-06DBB	17003779	STOTTS, R. R.	03/11/71	441748	1211257	2865	210.0	6.0	P	178.0	210.0	6.0	B	20.0	0.0	1.0	162.0 (D)	03/11/71	H	
	15S/13E-07ADA	17003801	RIEMENSCHNEIDER & DOGGETT	10/18/77	441709	1211236	2965	295.0	8.0	X	20.0	295.0	8.0	B	15.0	0.0	1.0	257.0 (D)	10/18/77	H	
	15S/13E-07BCB	17003810	HOWELL, E. J.	11/15/77	441710	1211336	2948	268.0	8.0	P	228.0	268.0	6.0	B	10.0	--	1.0	214.5	08/03/93	P	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
15S/13E-07CDD	17009192	HALL, JOHN AND CAROL	04/13/94	441636	1211315	2974	300.0	8.0	P	260.0	300.0	6.0	A	14.0	0.0	1.0	249.0 (D)	04/13/94	H	
15S/13E-07DBB	17003815	HOLMES, PRIDAY B.	06/29/63	441702	1211300	2978	300.0	8.0	X	18.0	300.0	8.0	P	12.0	10.0	3.0	235.0 (D)	06/29/63	H	
15S/13E-08AAB	17003847	MAYFIELD, BILL	08/24/61	441726	1211130	2958	107.0	6.0	P	98.0	107.0	6.0	B	30.0	--	--	--	--	H	
15S/13E-08CDC1	17001315	BJOURK, ROD	05/05/92	441642	1211208	3005	380.0	8.0	X	360.0	380.0	5.0	A	40.0	0.0	1.0	267.1	08/03/93	H	
15S/13E-08CDC2	17001609	CLARK, TODD	03/11/90	441642	1211204	3005	290.0	8.0	P	270.0	290.0	6.0	B	30.0	3.0	1.0	270.0 (D)	03/11/90	H	
15S/13E-09BAA	17003853	CITY OF REDMOND	07/15/69	441726	1211050	2898	300.0	16.0	P	200.0	300.0	12.5	P	1300.0	40.0	72.0	168.0 (D)	07/15/69	P	
15S/13E-09BBC	17003854	CUMMINGS, DON	04/12/74	441719	1211110	2969	280.0	8.0	P	260.0	280.0	6.0	B	20.0	0.0	2.0	240.0	04/11/74	H	
15S/13E-10ABD	17003866	BARCLAY, D.	02/24/69	441718	1210914	3018	360.0	6.0	P	310.0	360.0	6.0	B	25.0	0.0	4.0	290.0 (D)	02/24/69	H	
15S/13E-10ACC	17002269	ROBERTS, H.	06/06/68	441705	1210923	2928	336.0	8.0	P	300.0	336.0	6.0	P	5.0	0.0	1.0	295.0 (D)	06/06/68	H	
15S/13E-10BCC	17002268	HARMS, H.	03/24/68	441703	1210955	2987	321.0	8.0	P	295.0	319.0	6.0	P	16.0	0.0	1.0	253.0 (D)	03/24/68	H	
									X	319.0	321.0	6.0								
15S/13E-10CBA	17003871	MCDANIELS, R.	01/26/66	441700	1210953	2896	59.0	8.0	X	18.0	59.0	8.0	P	3.0	0.0	6.0	39.0 (D)	01/26/66	H	
15S/13E-10DDC	17003860	WEYERHAEUSER CO.	04/08/87	441638	1210905	3035	385.0	8.0	P	348.0	368.0	6.0	A	20.0	--	1.0	311.1	08/02/93	--	
15S/13E-11BAB	17001768	DESCHUTES COUNTY	05/03/93	441723	1210831	2975	375.0	8.0	P	315.0	375.0	6.0	A	30.0	18.0	4.0	325.6	08/03/93	H	
15S/13E-14DCC	17003878	REDMOND ROD AND GUN CLUB	03/06/79	441550	1210811	3075	370.0	8.0	X	20.0	370.0	8.0	B	20.0	0.0	1.0	330.0 (D)	03/06/79	H	
15S/13E-15CBC	17003880	JUNIPER GOLF CLUB	01/23/78	441557	1211004	3014	358.0	10.0	P	278.0	358.0	8.0	P	277.0	0.0	6.0	277.2	08/03/93	I	
15S/13E-16CBD	17003879	CITY OF REDMOND	02/14/75	441600	1211104	3005	452.0	16.0	P	255.0	423.0	14.0	P	1170.0	35.0	29.0	265.0 (D)	02/14/75	P	
									X	433.0	452.0	16.0								
15S/13E-18ADD	17003912	BONNEVILLE ADMIN.	09/24/68	441614	1211238	3010	440.0	14.0	P	390.0	425.0	V	P	250.0	14.0	8.0	277.5	11/15/85	N	SC,H8
15S/13E-18BDC	17003913	BROOKS, R.	09/17/70	441614	1211322	2987	315.0	6.0	P	261.0	305.0	6.0	B	10.0	0.0	1.0	267.1	05/10/78	H	D
									X	305.0	309.0	8.0								
									X	309.0	315.0	6.0								
15S/13E-18BDD	17003918	ZUMSTEIN, J.	07/20/56	441611	1211308	2994	305.0	8.0	X	10.0	305.0	8.0	P	12.0	--	--	--	--	H	
15S/13E-18DCC	17003916	RADER, O.	07/07/70	441545	1211301	3020	312.0	6.0	P	285.0	312.0	6.0	B	20.0	0.0	1.0	272.0 (D)	07/07/70	H	
15S/13E-19ADC	17003969	KINYON, P.	04/27/77	441520	1211246	3095	375.0	6.0	X	295.0	375.0	6.0	--	--	--	--	370.0 (D)	06/16/77	H	D
15S/13E-19CAC	17000406	ZIMMERMAN, C. D.	08/24/73	441506	1211322	3080	448.0	8.0	P	404.0	448.0	6.0	B	20.0	0.0	1.0	355.0	08/03/93	H	
15S/13E-20CDC	17000407	CITY OF REDMOND	05/25/85	441456	1211208	3082	765.0	18.0	P	533.0	553.0	18.0	P	1300.0	40.0	72.0	365.0	01/31/95	P	
									P	593.0	633.0	18.0								
									P	688.0	708.0	18.0								
									P	735.0	755.0	12.0								
15S/13E-21ADB	17003949	REDMOND IND. PARK, INC.	09/27/73	441526	1211017	3041	390.0	8.0	P	327.0	390.0	12.0	B	20.0	0.0	4.5	302.8	08/30/94	U	O,H7,GA
15S/13E-22BCD	17003952	CITY OF REDMOND	12/14/83	441519	1210946	3045	740.0	6.0	P	340.0	740.0	6.0	P	225.0	0.3	8.0	312.1	07/01/93	I	GD
15S/13E-22CBA1	17003953	CITY OF REDMOND	09/23/79	441515	1210946	3053	452.0	16.0	P	347.0	452.0	14.0	P	1100.0	--	24.0	318.3	09/14/94	P	
15S/13E-22CBA2	17003951	CITY OF REDMOND	05/18/87	441515	1210946	3053	801.0	18.0	S	515.0	537.0	18.0	--	--	--	--	317.3	09/15/94	P	C,A
									S	595.0	635.0	18.0								
									S	650.0	690.0	18.0								
									S	757.0	777.0	12.0								
									S	790.0	800.0	12.0								
15S/13E-23ADC	17003954	MILITARY DEPT. OR.	02/16/79	441518	1210755	3058	420.0	6.0	S	378.0	420.0	6.0	P	30.0	0.0	1.0	316.5	08/03/93	T	
15S/13E-28BBB	17003956	MAINELINE MFG.	09/05/75	441450	1211108	3031	365.0	8.0	S	343.0	358.0	6.0	B	6.0	0.0	1.0	312.0 (D)	09/05/75	N	
15S/13E-29ADB	17003983	HALL, F.	09/04/65	441436	1211135	3055	363.0	8.0	P	340.0	363.0	6.0	B	13.0	0.0	1.0	338.0 (D)	09/04/65	H	
15S/13E-29BAA	17003962	EMEHSER, J.	04/17/75	441450	1211156	3065	373.0	8.0	P	333.0	373.0	6.0	B	15.0	0.0	1.0	323.0 (D)	04/17/75	H	
15S/13E-29BCD	17003978	HOWELL, E. J.	04/04/78	441428	1211217	3115	440.0	10.0	S	420.0	440.0	8.0	B	10.0	0.0	1.0	372.0 (D)	04/04/78	P	
15S/13E-29CAD1	17003982	REDMOND VILLAGE MOBILE PARK	06/14/74	441415	1211200	3090	466.0	10.0	P	405.0	466.0	8.0	P	5.0	0.0	1.0	256.0 (D)	06/14/74	U	
15S/13E-29CAD2	17003981	REDMOND VILLAGE MOBILE PARK	07/19/74	441414	1211158	3090	472.0	10.0	P	412.0	472.0	8.0	B	10.0	0.0	1.0	369.1	08/30/94	U	O,H7,GA
15S/13E-29DBA	17003964	HERSHEY, R.	10/17/60	441419	1211138	3056	352.0	--	--	--	--	--	--	--	--	--	297.0 (D)	10/17/60	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
15S/13E-30BBC	17003971	TUMLIN, L.	10/06/77	441438	1211339	3070	360.0	8.0	P	320.0	360.0	6.0	A	15.0	--	--	321.0	08/04/93	H	
15S/13E-30CAA	17003974	LAUTZ, DAVE	07/30/77	441422	1211314	3084	352.0	8.0	X	19.0	352.0	8.0	B	10.0	0.0	2.0	333.0 (D)	07/30/77	H	
15S/13E-30DAA	17001592	ARNETT, DICK	12/12/92	441421	1211238	3110	460.0	8.0	P	425.0	445.0	6.0	P	27.0	0.0	1.0	369.8	08/05/93	H	
									X	450.0	460.0	6.0								
15S/13E-30DAB	17003973	HESTER, P.	06/02/77	441420	1211246	3098	385.0	8.0	P	374.0	385.0	6.0	B	25.0	0.0	4.0	346.0 (D)	06/02/77	H	
15S/13E-30DAC	17003979	ROSEBROOK, R.	02/18/70	441412	1211246	3085	372.0	6.0	P	352.0	372.0	6.0	B	20.0	0.0	1.0	332.0 (D)	02/18/70	H	
15S/13E-31ACB	17003999	HOSSTETLER, G.	07/24/66	441345	1211301	3090	380.0	8.0	P	340.0	380.0	6.0	B	20.0	0.0	1.0	355.0 (D)	07/24/66	H	
15S/13E-31BAA	17001291	CRAYCROFT, DAVID	04/21/92	441355	1211307	3075	425.0	8.0	X	416.0	425.0	6.0	A	20.0	--	1.0	341.5	08/04/93	H	
15S/13E-31BBC	17003994	HALL, FRED	09/06/77	441349	1211335	3095	360.0	8.0	X	18.0	360.0	8.0	B	10.0	0.0	2.0	340.0 (D)	09/06/77	H	
15S/13E-31CBD	17003988	LINDSEY, SAM	12/20/89	441322	1211333	3118	448.0	8.0	P	428.0	448.0	5.0	A	20.0	--	1.0	361.0 (D)	12/20/89	H	
15S/13E-31CDD	17003996	ARNETT, D.	06/05/77	441309	1211308	3101	400.0	6.0	S	393.0	398.0	4.0	B	6.5	0.0	1.0	360.0 (D)	05/01/79	H	D
15S/13E-31DAA	17009103	KNIGHT, DALENE	02/16/94	441331	1211235	3118	475.0	8.0	X	458.0	475.0	6.0	A	30.0	--	1.0	370.0 (D)	02/17/94	H	
15S/13E-31DDA	17003997	TESTER, JOHN	08/11/72	441316	1211237	3115	450.0	8.0	S	440.0	450.0	6.0	B	15.0	3.0	1.0	368.0 (D)	08/11/72	H	
15S/13E-32BBD	17004004	HARDING, CHET	05/28/65	441350	1211218	3115	400.0	8.0	P	355.0	400.0	6.0	B	12.0	0.0	4.0	373.0 (D)	05/28/65	P	
15S/13E-32BDB	17004005	WILLIAMS, CLIFF	06/24/67	441347	1211205	3130	430.0	6.0	O	430.0	430.0	6.0	B	20.0	0.0	1.0	392.8	08/04/93	H	D
15S/14E-01CCC	13001719	BOWEN, THOMAS L.	10/20/73	441729	1210020	3027	339.0	8.0	X	20.0	339.0	8.0	B	20.0	0.0	2.0	297.0 (D)	10/20/73	H	
15S/14E-03BAA	13002959	ISACSON, BUTCH	11/10/93	441819	1210220	2991	320.0	8.0	P	280.0	320.0	6.0	A	22.0	0.0	1.0	256.2	01/12/94	H	
15S/14E-04DDD	13001735	STRONG, JOHN	01/22/88	441731	1210250	2975	295.0	8.0	P	275.0	295.0	6.0	B	7.0	4.0	1.0	242.2	01/26/94	H	
15S/14E-10ACD	13001739	HALCOM, DON	07/31/81	441706	1210156	2996	337.0	8.0	P	317.0	337.0	6.0	A	30.0	9.0	1.0	266.0 (D)	07/31/81	H	
15S/14E-11DCA	13001751	WAMPLER AND WERTH FARMS	03/14/79	441647	1210047	2977	97.0	16.0	X	19.0	97.0	12.0	P	480.0	7.0	1.0	52.3	01/24/94	I	
15S/14E-12ABB	13001761	ROGERS, WADE	09/07/86	441723	1210023	3022	75.0	6.0	X	20.0	75.0	6.0	B	40.0	--	1.0	48.8	09/02/94	H	Q,H6
15S/14E-13DBC	13001771	BUSH, ALEX	08/01/85	441558	1205940	3075	368.0	8.0	P	348.0	368.0	6.0	A	50.0	--	1.0	309.0 (D)	08/01/85	H	
15S/14E-14CDC	13002960	SIMMONS, GERALD	11/12/93	441547	1210113	3060	400.0	8.0	P	360.0	400.0	6.0	A	15.0	0.0	1.0	329.3	01/12/94	H	
15S/14E-14DCC	13000550	ROGERS, MIKE	03/19/93	441544	1210054	3043	380.0	8.0	P	360.0	380.0	6.0	A	30.0	--	1.0	330.0 (D)	03/19/93	H	
15S/14E-15DAA	13001794	PRIDAY, RAYMOND	08/08/77	441603	1210141	3040	149.0	8.0	P	109.0	149.0	6.0	A	15.0	--	--	89.1	01/24/94	H	
15S/14E-21ADD	13001796	BURKE, MIKE	06/05/81	441520	1210256	3050	357.0	8.0	P	337.0	357.0	6.0	A	25.0	--	1.0	302.0 (D)	06/05/81	H	
15S/14E-22ABC	13001802	KEUSER, JOE	07/30/79	441537	1210204	3055	327.0	8.0	O	327.0	327.0	8.0	B	8.0	4.0	1.0	123.6	01/25/94	H	
15S/14E-23CAD	13000024	MORRISON, KEN	06/11/90	441505	1210104	3091	452.0	8.0	X	19.0	452.0	8.0	A	10.0	0.0	1.0	364.7	09/02/94	H	Q,H6
15S/14E-24DDD	13001824	RUTHENBUCKER, ALLEN	08/03/81	441453	1210021	3119	275.0	8.0	X	19.0	275.0	8.0	B	12.0	3.0	1.0	222.1	01/25/94	H	
15S/14E-25DBA	13001829	LANDRUS, DALE	02/16/81	441423	1205931	3206	377.0	8.0	P	357.0	377.0	6.0	A	14.0	--	1.0	325.0 (D)	02/16/81	S	
15S/14E-26DDD	13001836	COPLEY, DONALD F.	11/20/70	441359	1210026	3225	318.0	8.0	X	24.0	318.0	8.0	B	2.0	0.0	1.0	290.0 (D)	11/20/70	H	
15S/14E-27BBC	13000523	AVILA, DON	01/29/93	441443	1210244	3079	415.0	8.0	P	373.0	415.0	6.0	A	20.0	1.0	1.0	350.2	01/25/94	H	
15S/14E-28AAA	13001849	BENNETT, ROBERT	11/23/87	441450	1210253	3073	403.0	8.0	P	363.0	403.0	6.0	B	10.0	0.0	1.0	340.0 (D)	06/22/88	H	D
15S/14E-28DCD	13002967	HALL, RON AND TERESA	12/11/93	441401	1210313	3104	450.0	8.0	P	425.0	445.0	6.0	A	15.0	0.0	1.0	390.0 (D)	12/11/93	H	
15S/14E-31CAD	13001852	U.S. ARMY	01/02/85	441325	1210551	3095	492.0	8.0	S	462.0	492.0	6.0	P	97.0	0.0	4.0	370.0 (D)	01/02/85	T	
15S/14E-33ACD	13001856	LOVELAND, ROSS	10/30/89	441337	1210306	3138	460.0	8.0	X	18.0	460.0	8.0	A	15.0	--	1.0	400.0 (D)	10/30/89	H	
15S/14E-34BCB	13000005	BOWEN, DARREL	04/05/90	441342	1210244	3147	470.0	8.0	X	23.0	470.0	8.0	A	11.0	--	1.0	418.3	03/16/94	H	
15S/14E-35DAD	13000327	JOHNSON, ROD	11/07/91	441325	1210029	3332	650.0	8.0	X	58.0	650.0	8.0	A	50.0	0.0	1.0	299.6	03/15/94	H	
15S/15E-01BDA	13000498	CROOK COUNTY COURT	10/27/92	441800	1205237	3241	560.0	8.0	X	26.0	560.0	8.0	A	5.0	--	1.0	390.0 (D)	10/27/92	P	GD
15S/15E-05BBD	13000356	MORGAN, CHARLES	02/17/92	441810	1205749	3100	350.0	8.0	P	330.0	350.0	6.0	A	50.0	0.0	1.0	230.0 (D)	02/17/92	H	
15S/15E-05BCC	13000357	MORGAN, CHARLES	02/13/92	441759	1205758	3074	350.0	10.0	P	250.0	350.0	8.0	A	350.0	0.0	1.0	210.0 (D)	02/13/92	I	
15S/15E-06BBA	13000408	MORGAN, CHARLES	06/18/92	441817	1205855	3058	259.0	6.0	P	95.0	115.0	6.0	A	35.0	--	1.0	82.0 (D)	06/18/92	H	
									P	200.0	255.0	6.0								
15S/15E-06BBB	13000565	MORGAN, CHARLES	06/17/93	441819	1205907	3041	310.0	6.0	P	250.0	310.0	6.0	A	45.0	22.0	1.0	213.0	01/26/94	H	
15S/15E-07ADD	13001891	BREZA, JIM	09/30/88	441707	1205801	3084	324.0	8.0	P	304.0	324.0	6.0	A	15.0	--	1.0	285.7	01/27/74	H	
15S/15E-11CDA	13001894	GRUNIGEN, JERE	12/11/80	441647	1205353	3255	475.0	8.0	X	25.0	475.0	8.0	A	135.0	--	2.0	414.0 (D)	12/11/80	H	
15S/15E-11CDB	13001895	PRINEVILLE AIRPORT	03/18/65	441648	1205358	3251	420.0	6.0	O	420.0	420.0	6.0	P	30.0	0.0	2.0	400.4	01/26/94	H	
15S/15E-15AAC	13000532	RYAN, JOHN	03/10/93	441624	1205433	3290	495.0	6.0	P	425.0	485.0	5.0	P	27.0	0.0	1.0	447.2	01/26/94	H	
									X	485.0	495.0	6.0								

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
15S/15E-16DBD	13001901	OCHOCO CONSTRUCT.	05/19/79	441557	1205554	3360	473.0	8.0	P	426.0	468.0	6.0	B	10.0	0.0	1.0	423.0 (D)	05/19/79	U	
15S/15E-17CCC	13000504	HODDER, RICHARD	11/13/92	441548	1205756	3128	430.0	8.0	P	390.0	430.0	6.0	A	15.0	0.0	1.0	337.7	01/27/94	H	
15S/15E-18CBA	13000324	BEERS, MIKE	10/22/91	441605	1205901	3084	414.0	8.0	P	394.0	414.0	6.0	A	30.0	--	1.0	308.0 (D)	10/22/91	H	
15S/15E-19CCC	13001909	DUNN, PHIL	12/19/79	441457	1205907	3150	300.0	6.0	P	200.0	300.0	6.0	P	5.0	0.0	1.0	225.0 (D)	12/19/79	H	
15S/15E-20ACC	13000260	WAIBEL, JOE	04/20/91	441517	1205722	3164	1400.0	12.0	X	48.0	1400.0	12.0	P	120.0	213.0	5.0	522.8	01/28/94	I	
15S/15E-21ABC	13000256	WAIBEL, JOE	03/19/91	441532	1205608	3217	852.0	8.0	X	19.0	852.0	8.0	A	40.0	0.0	1.0	416.9	01/29/94	I	
15S/15E-21BBA	13000261	WAIBEL, JOE	04/11/91	441543	1205632	3218	815.0	8.0	X	19.0	815.0	8.0	--	--	--	--	478.0 (D)	04/11/91	I	
15S/15E-23BBB	13003200	PIERATT BROS. INC	05/31/95	441541	1205419	3265	410.0	8.0	O	410.0	410.0	6.0	A	20.0	0.0	1.0	367.0 (D)	05/11/95	N	
15S/15E-29BAA	13003063	SMITH, TOM	08/17/94	441449	1205726	3210	500.0	8.0	P	300.0	320.0	6.0	P	1.0	--	1.0	268.0 (D)	10/11/94	H	D
									P	340.0	360.0	6.0								
									P	380.0	400.0	6.0								
									P	420.0	440.0	6.0								
									P	460.0	480.0	6.0								
15S/15E-30AAD1	13001954	HOSKINS, DALE	03/24/80	441442	1205801	3239	450.0	8.0	X	19.0	450.0	8.0	--	--	--	--	248.0	09/02/94	H	Q,H6
15S/15E-30AAD2	13000176	HOSKINS, DALE	03/12/80	441443	1205800	3235	655.0	8.0	X	19.0	655.0	8.0	P	5.0	30.0	1.0	615.0 (D)	04/05/80	H	
15S/15E-31ADA	13001990	MCDONALD, CARL	02/23/78	441346	1205802	3498	340.0	6.0	X	100.0	340.0	6.0	A	5.0	--	1.0	192.6	01/27/94	H	
15S/15E-34CCB	13002000	RAASCH, RON	08/22/85	441317	1205533	3479	358.0	8.0	P	258.0	358.0	6.0	B	10.0	0.0	1.0	256.0 (D)	08/22/85	H	
15S/16E-05BCC1	13002121	PP&L CO	10/06/60	441757	1205038	2864	252.0	24.0	S	222.0	242.0	12.0	P	650.0	130.0	12.0	16.1	11/15/85	P	SC,H8
15S/16E-05BCC2	13002130	PP&L CO	08/08/50	441757	1205037	2864	75.0	10.0	P	13.0	22.0	10.0	--	--	--	--	3.1	11/15/85	P	SD
16S/10E-01CBC	17004012	BAKER, NEWELL	07/16/70	441256	1212901	3317	254.0	14.0	P	171.0	251.0	14.0	P	2759.0	2.0	3.0	203.0 (D)	03/01/71	I	D
16S/10E-02DAD	17004013	FRATZER, BARRY	07/06/89	441258	1212904	3316	403.0	8.0	P	343.0	403.0	5.0	P	17.0	0.0	1.0	343.0 (D)	07/06/89	H	D
16S/10E-04CCD	17004015	SHATTUCK RANCH	12/15/64	441241	1213226	3610	172.0	6.0	P	150.0	172.0	5.0	P	15.0	0.0	1.0	145.7	09/23/93	H	
16S/10E-09BBA1	17009587	THOMPSON, STEVE	09/20/71	441237	1213228	3635	255.0	10.0	P	161.0	190.0	10.0	P	150.0	0.0	5.0	229.5	09/23/93	I	
									X	191.0	255.0	10.0								
16S/10E-09BBA2	17004014	THOMPSON, STEVE	08/22/69	441238	1213224	3612	240.0	6.0	P	220.0	240.0	6.0	B	15.0	0.0	1.0	210.0 (D)	08/22/69	H	
16S/10E-13BBB1	17004016	BAKER, NEWELL	05/08/67	441141	1212857	3378	273.0	8.0	X	20.0	273.0	8.0	P	30.0	4.0	2.0	260.9	09/14/78	H	
16S/10E-13BBB2	17009825	NEUMAN, HOLM	04/07/95	441142	1212855	3375	320.0	8.0	P	300.0	320.0	6.0	A	50.0	0.0	--	250.0 (D)	04/07/95	H	
16S/11E-01DCB	17004017	HAYNES, GARY	08/30/78	441249	1212040	3240	558.0	8.0	P	518.0	558.0	6.0	A	8.0	4.0	--	526.0 (D)	08/30/78	H	
16S/11E-01DDA	17004019	HAYNES, GARY	08/16/73	441248	1212040	3195	495.0	8.0	X	19.0	495.0	8.0	B	10.0	10.0	3.0	440.0 (D)	09/20/73	H	
16S/11E-04ACC	17004022	MCCOY, BOB	11/11/74	441307	1212435	3224	330.0	8.0	X	20.0	330.0	6.0	B	15.0	0.0	2.0	198.0 (D)	11/11/74	H	
16S/11E-04ACD	17001745	COFFEY, BOB	05/07/93	441307	1212434	3218	339.0	8.0	P	319.0	339.0	6.0	A	20.0	--	1.0	283.0 (D)	05/07/93	H	
16S/11E-04ADD	17000079	BARNES, RON	06/11/90	441306	1212411	3182	310.0	8.0	P	290.0	310.0	6.0	A	20.0	--	1.0	246.5	09/23/93	H	
16S/11E-04BDC	17004021	MCCOY, JOHN H.	07/03/72	441307	1212502	3220	287.0	6.0	X	20.0	287.0	6.0	B	20.0	0.0	3.0	260.0 (D)	07/03/72	H	
16S/11E-05CBC	17004023	HANSON, ARNIE	05/26/81	441257	1212627	3233	364.0	10.0	P	324.0	364.0	8.0	A	300.0	--	1.0	302.0 (D)	05/26/81	I	
16S/11E-06CBC	17001272	STOLLER, LAWRENCE	04/02/92	441255	1212733	3263	368.0	8.0	P	328.0	368.0	6.0	A	20.0	--	1.0	314.8	09/15/93	H	
16S/11E-07CAC	17004026	STECKLER, GREG	01/06/81	441207	1212725	3345	433.0	10.0	P	413.0	433.0	8.0	A	8.0	--	1.0	402.4	09/24/93	I	
16S/11E-09BAC	17009069	CHANG, WALLY	01/14/94	441228	1212458	3221	360.0	8.0	P	320.0	360.0	6.0	A	24.0	--	1.0	278.0 (D)	01/14/94	H	
16S/11E-09DAA	17004027	WORLD BUSINESS TRUST CO.	02/28/81	441211	1212418	3225	420.0	16.0	X	19.0	420.0	8.0	A	20.0	--	1.0	288.5	08/31/94	H	Q,H6
16S/11E-10CCD	17004029	BAKER, NEWELL	06/24/70	441148	1212359	3219	315.0	8.0	X	18.0	180.0	8.0	B	15.0	0.0	2.0	296.0 (D)	06/24/70	H	
									X	180.0	315.0	6.0								
16S/11E-11CAB	17004035	ELKINS, RAY	03/14/78	441207	1212237	3275	428.0	6.0	X	206.0	428.0	6.0	P	20.0	0.0	2.0	376.0 (D)	03/14/78	H	
16S/11E-11DDC	17000993	WALDRON, HARVEY	08/14/91	441151	1212157	3410	622.0	12.0	P	602.0	622.0	6.0	A	20.0	--	1.0	515.0 (D)	08/14/91	H	
16S/11E-12ADB	17009059	HANSON, PHIL	01/04/94	441221	1212048	3281	650.0	8.0	P	625.0	645.0	6.0	A	12.0	--	1.0	536.0 (D)	01/04/94	H	
16S/11E-12CBA	17008638	NASH, CHARLOTTE	10/27/93	441210	1212129	3315	675.0	8.0	P	655.0	675.0	6.0	A	18.0	--	1.0	570.0 (D)	10/27/93	H	
16S/11E-12DAC	17001498	BAGGS, BARBARA	09/14/92	441203	1212044	3282	618.0	8.0	P	598.0	618.0	6.0	A	20.0	--	1.0	536.0 (D)	09/14/92	H	
16S/11E-13DAD	17004041	REASONER, PAUL P.	04/13/65	441111	1212036	3236	40.0	12.0	P	18.0	40.0	10.0	P	30.0	0.0	1.0	28.1	05/25/94	U	R,H6
16S/11E-15DBB	17004045	KELLEY, DICK	03/29/72	441117	1212326	3270	360.0	8.0	P	320.0	360.0	6.0	B	15.0	0.0	1.0	314.8	10/19/78	H	
16S/11E-15DBC	17004044	BLOCH, IVAN	05/23/70	441112	1212328	3265	346.0	8.0	P	316.0	346.0	6.0	B	25.0	0.0	2.0	333.7	10/05/93	H	
16S/11E-15DDD	17004046	CHARLTON, LOYD	05/15/73	441056	1212259	3300	386.0	8.0	X	35.0	386.0	8.0	B	10.0	6.0	1.0	356.0 (D)	05/15/73	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
16S/11E-16DDA	17001539	WALKER, DON	10/15/92	441107	1212416	3340	465.0	8.0	P	445.0	465.0	6.0	A	20.0	--	1.0	406.6	10/04/93	H	
16S/11E-18BAA	17004050	RUSSEL, HIATTE	06/26/69	441144	1212714	3365	427.0	6.0	X	42.0	427.0	8.0	B	15.0	0.0	2.0	406.0 (D)	06/26/69	H	
16S/11E-18BAB	17004048	FULLERTON, GORDON	01/24/74	441141	1212725	3305	340.0	8.0	X	21.0	340.0	8.0	B	20.0	0.0	2.0	309.0 (D)	01/26/74	U	
16S/11E-18BAC	17009240	MCCARTNEY, DON	04/28/94	441138	1212723	3319	392.0	8.0	P	372.0	392.0	5.0	A	25.0	0.0	--	347.0 (D)	04/27/94	H	
16S/11E-19AAB	17004051	KUKN, WILLIAM	08/26/89	441049	1212645	3503	623.0	8.0	P	603.0	623.0	6.0	A	12.0	--	1.0	553.0 (D)	08/26/89	H	
16S/11E-19CCB	17004055	PIOCH, HARRY R.	02/10/77	441015	1212742	3490	397.0	8.0	X	377.0	397.0	5.0	B	15.0	0.0	1.0	376.5	09/14/78	H	D
16S/11E-20CDC	17004056	BENSON, RICHARD	12/08/89	441009	1212610	3583	684.0	8.0	P	664.0	684.0	6.0	A	15.0	--	1.0	634.0 (D)	12/08/89	H	
16S/11E-21CCA	17004058	CHASE, PHIL	08/24/80	441011	1212511	3484	598.0	8.0	P	578.0	598.0	6.0	A	12.0	--	1.0	528.0 (D)	08/24/80	H	
16S/11E-21CDC	17004057	RECREATION DISTRICT	01/30/90	441007	1212458	3432	600.0	8.0	P	525.0	585.0	6.0	A	30.0	--	1.0	480.0 (D)	01/30/90	H	
16S/11E-22ABB	17004072	MIRACLE, LEONARD	01/31/67	441052	1212330	3278	345.0	6.0	P	203.0	223.0	6.0	P	10.0	0.0	1.0	332.0 (D)	01/24/70	H	D
									X	223.0	345.0	6.0								
16S/11E-22BBB	17000494	HAYES, THOMAS B.	02/18/73	441054	1212407	3340	410.0	6.0	X	131.0	410.0	6.0	B	10.0	15.0	2.0	395.0 (D)	10/20/77	H	
16S/11E-22BCD	17004075	GOLDY, DANIEL	06/20/67	441034	1212354	3330	365.0	6.0	X	307.0	365.0	6.0	B	2.0	0.0	2.0	356.0 (D)	06/20/67	H	
16S/11E-22CDB	17004073	COFFEY, D. K.	03/30/78	441012	1212346	3416	490.0	8.0	P	424.0	444.0	6.0	P	18.0	0.0	1.0	446.0 (D)	03/30/78	H	
									X	444.0	490.0	8.0								
16S/11E-22DBD	17004066	ANCELL, KENNETH	09/13/72	441018	1212324	3397	480.0	8.0	P	428.0	458.0	6.0	B	10.0	0.0	2.0	430.0 (D)	10/13/72	H	D
									X	458.0	480.0	6.0								
16S/11E-22DDD	17004071	GAINSFORTH, PATRICIA	08/24/76	441003	1212305	3395	45.0	8.0	P	35.0	45.0	6.0	B	5.0	7.0	1.0	22.4	08/31/94	H	Q,H6
16S/11E-23ACD	17000416	DEFREMEY, MRS. PETER	09/18/81	441031	1212203	3405	563.0	8.0	P	543.0	563.0	6.0	A	18.0	--	1.0	496.2	10/05/93	H	
16S/11E-23DAB	17004082	SCHUPP, ROBERT	12/18/77	441023	1212155	3362	677.0	8.0	P	617.0	677.0	6.0	--	--	--	--	620.0 (D)	12/18/77	U	
16S/11E-24ABC	17004083	DAY, MATT	05/16/87	441046	1212102	3382	735.0	8.0	P	715.0	735.0	6.0	A	18.0	--	1.0	639.0 (D)	05/16/87	H	
16S/11E-24ABD	17004084	DAY, MATT	10/24/85	441043	1212051	3260	601.0	8.0	P	581.0	601.0	6.0	A	25.0	--	1.0	495.0 (D)	10/24/85	H	
16S/11E-24CAD	17004091	WILSON & KAUTZ	06/18/74	441020	1212115	3280	624.0	8.0	P	564.0	624.0	6.0	B	10.0	4.0	1.0	495.0 (D)	06/18/74	H	
16S/11E-24CBB	17004095	PARK, ED	02/08/66	441026	1212140	3385	422.0	6.0	X	18.0	422.0	6.0	--	--	--	--	DRY (D)	02/08/66	U	D
16S/11E-25AAB	17004105	FLAHERTY, O. S.	07/29/76	440957	1212050	3323	620.0	8.0	X	253.0	620.0	6.0	B	6.0	0.0	2.0	564.0 (D)	07/29/76	H	
16S/11E-25BAB	17001232	DENNISON, J. AND BECKMAN, R.	11/18/91	440959	1212156	3443	760.0	8.0	P	740.0	760.0	6.0	A	50.0	--	1.0	685.0 (D)	11/18/91	H	
16S/11E-25BAC	17004108	FOOTE, BRAD	08/04/77	440951	1212118	3341	625.0	6.0	X	616.0	625.0	6.0	B	5.0	0.0	2.0	605.0 (D)	08/04/77	H	
16S/11E-25BCD	17004422	LIEN, DONALD	08/19/78	440943	1212132	3358	553.0	6.0	X	55.0	553.0	6.0	--	--	--	--	DRY (D)	09/15/78	U	
16S/11E-25CAA	17004109	DIETZEL, HOWARD	05/29/76	440935	1212111	3355	390.0	8.0	X	230.0	390.0	6.0	B	12.0	30.0	2.0	340.0 (D)	05/29/76	H	
16S/11E-25CAB	17004110	KICKBUSH, ROLAND	02/18/75	440931	1212125	3359	198.0	8.0	X	28.0	198.0	8.0	B	22.0	2.0	1.0	148.0 (D)	02/18/75	H	
16S/11E-25CAC	17004113	NOE, DAVID C.	10/27/77	440925	1212119	3375	640.0	8.0	X	222.0	640.0	6.0	P	5.0	9.0	1.0	485.0 (D)	10/27/77	H	
16S/11E-26BBC	17000419	WHITAKER, BARRY	04/02/81	440951	1212253	3401	491.0	8.0	P	471.0	491.0	6.0	A	14.0	--	1.0	464.2	10/07/93	H	
16S/11E-26CCB	17004128	ALLEN, C.	12/28/66	440923	1212256	3423	50.0	8.0	P	20.0	40.0	8.0	B	12.0	10.0	6.0	14.1	06/15/93	U	
16S/11E-26DDA	17004112	DLOUHY, JOHN E.	06/30/73	440918	1212146	3378	155.0	6.0	X	19.0	155.0	6.0	B	10.0	0.0	1.0	132.2	06/15/93	H	
16S/11E-27BCD	17004134	PARKER, KENNETH	08/08/85	440942	1212357	3422	512.0	8.0	P	492.0	512.0	6.0	B	5.0	2.0	1.0	474.0 (D)	08/08/85	H	
16S/11E-28AAD	17004159	HAUSNER, JILL	04/24/78	440953	1212414	3399	507.0	8.0	P	462.0	502.0	6.0	B	10.0	0.0	2.0	452.0 (D)	04/24/78	U	
									X	502.0	507.0	8.0								
16S/11E-28DAA	17004154	DANT, DENIS	10/16/74	440935	1212416	3423	460.0	8.0	P	440.0	460.0	6.0	B	15.0	5.0	2.0	428.0 (D)	10/16/74	H	
16S/11E-28DCD	17001719	PARKER, KENNY	04/14/93	440917	1212435	3515	677.0	8.0	X	600.0	677.0	6.0	A	15.0	--	1.0	561.9	09/16/93	H	
16S/11E-29BBD	17001099	STITELY, JOHN	10/15/91	440951	1212624	3455	650.0	8.0	X	450.0	650.0	6.0	A	40.0	--	1.0	390.4	08/31/94	H	Q,H6
16S/11E-30ADA	17004160	BARTON, JOHN	09/23/76	440949	1212638	3590	515.0	8.0	P	457.0	515.0	6.0	B	10.0	75.0	1.0	477.0	09/15/93	H	
16S/11E-33AAC	17000423	MACARTHUR, BARBARA	08/26/75	440900	1212422	3495	660.0	8.0	X	565.0	660.0	6.0	A	18.0	--	1.0	529.0 (D)	11/06/91	H	D
16S/11E-33ADB	17004166	BROWN, HAROLD	09/17/85	440851	1212422	3487	615.0	8.0	X	62.0	615.0	8.0	P	10.5	0.0	1.0	483.5	10/06/93	H	
16S/11E-33DDA	17004156	MOORMAN, FRANK	06/01/70	440831	1212418	3496	195.0	6.0	X	43.0	195.0	6.0	P	4.0	35.0	2.5	149.2	06/14/93	H	
16S/11E-33DDD	17009104	PETTIT, GARY & JUDY	02/12/94	440819	1212414	3522	750.0	8.0	P	725.0	745.0	6.0	--	--	--	--	640.0 (D)	02/12/94	H	
16S/11E-34AAD	17004183	STOKOE, GEORGE M.	01/12/71	440901	1212258	3435	200.0	6.0	P	120.0	200.0	6.0	B	5.0	20.0	1.0	118.0 (D)	05/27/78	H	
16S/11E-34BAA	17004185	STEELE, JOHN	07/28/70	440904	1212338	3443	170.0	6.0	X	60.0	170.0	8.0	B	10.0	4.0	3.0	123.0 (D)	07/28/70	H	D
16S/11E-34CDD	17004176	CHANEY, MIKE	07/17/86	440822	1212338	3495	552.0	8.0	P	532.0	552.0	6.0	A	20.0	--	1.0	471.0 (D)	07/17/86	H	
16S/11E-34DBD	17004192	MARTIN, CHARLES	09/27/77	440836	1212321	3463	515.0	8.0	X	325.0	515.0	6.0	B	10.0	2.0	1.0	460.0 (D)	09/27/77	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
16S/11E-35AAB	17004201	LEONARD, RONALD	09/02/76	440906	1212156	3390	682.0	8.0	P	616.0	682.0	6.0	B	3.0	0.0	1.0	540.0 (D)	09/02/76	H	D
16S/11E-35ABB	17004203	HODGES, DUANE	02/03/75	440908	1212215	3400	182.0	10.0	S	169.0	179.0	6.0	P	8.0	0.0	1.0	159.0 (D)	02/03/75	H	
16S/11E-35ABC	17004207	HODGES, DUANE	05/26/77	440902	1212219	3403	208.0	8.0	X	166.0	208.0	6.0	P	28.0	0.0	24.0	179.0 (D)	05/26/77	H	
16S/11E-35ACA1	17004206	HALL, DAVID B.	11/04/75	440852	1212208	3411	495.0	8.0	P	455.0	495.0	6.0	B	4.0	6.0	1.0	454.7	09/21/78	H	
16S/11E-35ACA2	17008615	GONCE, BILL	10/23/93	440855	1212208	3410	708.0	8.0	P	680.0	700.0	6.0	A	12.0	0.0	1.0	544.9	01/12/94	H	
16S/11E-35ADB	17004205	HODGES, DUANE	03/13/72	440854	1212156	3390	467.0	6.0	P	440.0	452.0	6.0	P	28.0	0.0	1.5	446.0 (D)	03/13/72	H	
									X	452.0	467.0	6.0								
16S/11E-36DDC	17004211	RODTKER, FOLMER	01/15/70	440824	1212045	3342	408.0	8.0	X	20.0	408.0	8.0	B	20.0	0.0	2.0	381.8	10/20/78	P	
16S/12E-01BCC	17004220	TUSSING, LILLIAN	12/01/72	441306	1211432	3128	432.0	8.0	P	400.0	430.0	6.0	B	9.0	0.0	1.0	365.0 (D)	12/01/72	H	
16S/12E-01CAA	17001570	SAMPLE, JOHN	11/05/92	441301	1211401	3135	515.0	8.0	X	490.0	515.0	6.0	A	30.0	--	1.0	369.0 (D)	11/05/92	H	
16S/12E-01DDC	17004222	DURR, R.L. & OTHERS	06/03/71	441243	1211334	3113	420.0	6.0	P	410.0	420.0	5.0	P	22.0	0.0	36.0	335.4	10/20/93	P	D
16S/12E-02CCC	17001756	LASH, BRIAN	06/05/93	441245	1211541	3150	528.0	8.0	P	493.0	513.0	6.0	B	10.0	3.0	3.0	425.0 (D)	06/05/93	H	
16S/12E-02DCC1	17004228	OLSON, PHIL	05/10/78	441244	1211500	3155	444.0	8.0	P	404.0	444.0	6.0	--	--	--	--	401.0 (D)	05/10/78	H	
16S/12E-02DCC2	17000195	OLSON, PHIL	10/12/90	441243	1211501	3150	458.0	8.0	P	438.0	458.0	6.0	A	20.0	--	1.0	413.2	10/19/93	H	
16S/12E-03DAA	17000905	CARTER, CHARLES	05/24/91	441306	1211546	3155	470.0	8.0	X	460.0	470.0	8.0	A	20.0	--	1.0	405.0 (D)	05/24/91	H	
16S/12E-05CCD	17004240	McCONNELL, CHISTER	05/07/66	441242	1211908	3180	481.0	6.0	P	461.0	481.0	5.0	R	15.0	3.0	1.0	439.6	10/22/93	P	
16S/12E-06CBC	17004242	COONROD, DAVID	01/15/59	441252	1212030	3180	485.0	6.0	X	5.0	485.0	6.0	B	8.0	0.0	4.0	473.0 (D)	01/16/59	H	
16S/12E-06CCD	17004241	RUPP, RICK	11/25/89	441241	1212020	3210	572.0	8.0	P	552.0	572.0	6.0	A	25.0	--	1.0	480.0	10/22/93	H	
16S/12E-07BBD	17004246	FOOTE, E. C.	03/31/74	441227	1212022	3220	535.0	8.0	P	510.0	530.0	6.0	A	20.0	55.0	1.0	480.0 (D)	04/01/74	H	
16S/12E-07CAB	17004248	HARRINGTON, E. J.	03/13/74	441211	1212011	3210	570.0	8.0	P	520.0	540.0	6.0	R	20.0	75.0	1.0	495.0 (D)	03/13/74	H	
									X	540.0	565.0	6.0								
16S/12E-07CCC	17004245	BOOTH, LORAN	06/26/67	441153	1212027	3246	542.0	6.0	P	508.0	538.0	6.0	B	10.0	0.0	--	515.0 (D)	06/26/67	H	
16S/12E-07DCD	17001569	PUTMAN DAIRY	11/05/92	441148	1211948	3205	560.0	8.0	P	540.0	560.0	6.0	A	20.0	--	1.0	464.6	10/22/93	H	
16S/12E-08ACD	17004256	GUNGURA, GUS	09/02/76	441214	1211829	3183	505.0	6.0	X	154.0	505.0	6.0	B	10.0	0.0	2.0	455.0 (D)	09/02/76	H	
16S/12E-08BAA	17004250	STILLS, FRED	09/16/87	441238	1211848	3175	515.0	8.0	X	20.0	515.0	8.0	B	10.0	--	1.0	436.2	10/08/93	H	
16S/12E-08BCA	17004253	DAVIS, ROY T.	06/28/80	441221	1211911	3175	715.0	10.0	P	426.0	531.0	10.0	B	15.0	0.0	1.0	410.0 (D)	06/28/80	I	
									X	531.0	715.0	10.0								
16S/12E-08DAD	17001273	ARNOLD, CHUCK	04/03/92	441201	1211812	3190	220.0	8.0	P	180.0	220.0	6.0	A	25.0	--	1.0	158.0 (D)	04/03/92	H	
16S/12E-08DBD	17004257	SIEDELMAN, CORT	12/26/68	441204	1211828	3190	200.0	8.0	X	80.0	200.0	6.0	P	20.0	32.0	3.0	150.0 (D)	12/26/68	H	
16S/12E-09CCB	17004259	SUFFRIDGE, CHARLES	01/08/75	441153	1211804	3196	505.0	8.0	P	285.0	309.0	6.0	B	8.0	5.0	1.0	230.0 (D)	01/08/75	H	
									P	425.0	505.0	6.0								
16S/12E-10BBD	17000517	BROOKS, ERNEST	11/19/90	441230	1211645	3140	510.0	8.0	X	472.0	510.0	6.0	A	27.0	--	1.0	382.0 (D)	11/19/90	H	
16S/11E-10CCA	17004263	ULRICH, DAVID	08/25/88	441156	1211645	3210	395.0	8.0	P	355.0	395.0	6.0	A	15.0	--	1.0	310.5	10/20/93	H	
16S/12E-10CCD	17004271	GUSS, R. M.	07/22/78	441152	1211640	3227	380.0	6.0	X	19.0	380.0	8.0	B	10.0	0.0	1.0	346.6	02/15/79	H	
16S/12E-10DBD	17004272	HUGHES, GARY	09/30/77	441201	1211611	3203	485.0	8.0	P	240.0	260.0	6.0	B	5.0	0.0	1.0	460.0 (D)	09/30/77	H	
									X	260.0	485.0	6.0								
16S/12E-10DCC	17009081	PIEKARSKI, DENNIS	01/21/94	441150	1211620	3215	528.0	8.0	P	485.0	505.0	6.0	P	27.0	10.0	4.0	415.0	01/21/94	H	
									X	510.0	528.0	8.0								
16S/12E-11ADA	17000431	HANLON, JOHN	10/13/78	441221	1211438	3147	440.0	8.0	P	400.0	440.0	6.0	A	12.0	6.0	--	392.3	02/28/79	H	D
16S/12E-11BCB	17001447	ELLIOT, JOHN	08/20/92	441225	1211541	3165	540.0	8.0	P	500.0	540.0	6.0	Z	15.0	--	1.0	433.0 (D)	08/20/92	H	
16S/12E-11CCB	17004286	PETERSON, LOYD	12/04/73	441156	1211543	3172	440.0	8.0	P	320.0	440.0	6.0	B	12.0	0.0	1.0	320.0	02/27/79	H	
16S/12E-12ACD	17004300	TAYLOR, JOHN	05/28/77	441214	1211346	3141	235.0	8.0	P	195.0	235.0	6.0	B	12.0	0.0	1.0	196.4	02/28/79	H	
16S/12E-12CCB	17004303	VAN ESS, GRANGER	06/25/77	441156	1211431	3164	488.0	8.0	X	400.0	420.0	6.0	B	28.0	0.0	1.0	406.9	02/28/79	U	D
									X	420.0	488.0	6.0								
16S/12E-12CDD	17001511	HAUGHTON, MIKE	09/30/92	441148	1211359	3155	475.0	8.0	P	440.0	460.0	6.0	A	18.0	--	1.0	410.6	10/20/93	H	
									X	460.0	475.0	8.0								
16S/12E-13ABC	17000433	SANOWSKI, BILL	07/15/78	441137	1211350	3176	495.0	8.0	X	19.0	495.0	8.0	B	8.0	0.0	1.0	425.0 (D)	07/15/78	H	
16S/12E-13ADC	17008310	HALLIGAN, REG	07/14/84	441124	1211332	3185	519.0	8.0	S	506.0	516.0	6.0	A	25.0	--	1.0	451.3	10/20/93	H	
16S/12E-13BBB	17008524	NICKESON, LORI	09/02/93	441141	1211427	3185	540.0	8.0	P	500.0	540.0	5.0	A	12.0	--	1.0	442.5	10/26/93	H	
16S/12E-14ACA	17009101	STRAUSSMAN, JOHN	02/03/94	441128	1211456	3185	580.0	8.0	P	540.0	580.0	6.0	A	40.0	--	1.0	453.0 (D)	02/03/94	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
16S/12E-14BAD	17004328	BOWER, A. M.	10/01/70	441138	1211514	3163	444.0	8.0	X	442.0	444.0	6.0	B	15.0	0.0	2.0	401.1	02/16/79	H	
16S/12E-14BCC	17008612	SMITH, DAVID	10/04/93	441123	1211536	3185	430.0	8.0	P	410.0	430.0	6.0	P	13.0	0.0	25.0	408.7	01/12/94	H	
16S/12E-14CDA	17004320	DEVEREAUX, HAROLD	05/14/84	441106	1211513	3185	235.0	8.0	X	19.0	235.0	8.0	B	10.0	5.0	4.0	197.1	08/31/94	H	C,Q,H6
16S/12E-14DDA	17000434	GENTRY, GERALD	08/23/71	441102	1211436	3218	530.0	8.0	P	468.0	508.0	6.0	B	10.0	10.0	1.0	480.0 (D)	06/22/73	H	D
									P	508.0	520.0	5.0								
16S/12E-15ABB	17004335	JAMES, HAROLD	03/13/73	441141	1211612	3205	415.0	8.0	P	395.0	415.0	6.0	B	8.0	3.0	2.0	365.0 (D)	03/13/73	H	
16S/12E-15BBB	17004330	CLIFTON, AL	01/20/88	441141	1211654	3241	540.0	8.0	P	502.0	522.0	6.0	A	12.0	--	1.0	486.0 (D)	01/20/88	H	
									X	522.0	540.0	8.0								
16S/12E-15BBC	17004334	WILSON, DON	04/15/70	441134	1211655	3238	540.0	8.0	P	460.0	480.0	5.0	P	20.0	0.0	5.0	502.0 (D)	04/15/70	H	
									X	480.0	540.0	5.0								
16S/12E-16AAA	17000774	BROWN, HARPER AND FRANCES	02/15/91	441146	1211659	3245	350.0	8.0	P	309.0	329.0	6.0	A	12.0	--	1.0	191.9	10/21/93	H	
									X	334.0	350.0	8.0								
16S/12E-16ADD	17004336	HANSON, OSWALD	03/31/67	441123	1211659	3240	530.0	6.0	X	20.0	530.0	8.0	B	15.0	8.0	1.0	505.0 (D)	03/31/67	H	
16S/12E-16DBD	17004342	LEACH, AUSTIN	02/22/68	441112	1211720	3273	550.0	6.0	X	80.0	550.0	6.0	B	20.0	0.0	6.0	531.6	01/12/94	H	
16S/12E-17ABD	17004355	FOSTER, GLORIA	12/31/75	441139	1211834	3221	548.0	6.0	X	112.0	548.0	6.0	B	8.0	0.0	2.0	470.0 (D)	12/31/75	U	
16S/12E-17ADD	17004352	SIMPSON, ERNIE	05/16/78	441122	1211816	3222	533.0	8.0	X	521.0	533.0	6.0	B	10.0	0.0	1.0	498.0 (D)	05/16/78	P	
16S/12E-17BBD	17008526	WERNER, BILL	09/11/93	441135	1211910	3210	568.0	8.0	P	543.0	563.0	6.0	--	--	--	--	485.0 (D)	09/11/93	H	
16S/12E-17CCC	17004354	BERGERON, J. E.	12/03/73	441057	1211919	3249	542.0	8.0	X	537.0	542.0	6.0	B	10.0	0.0	1.0	503.2	02/14/79	H	D
16S/12E-17DCB	17004337	WILSON, PETE	09/17/86	441104	1211841	3110	445.0	8.0	P	400.0	440.0	6.0	P	12.0	8.0	2.5	415.0 (D)	09/17/86	H	
16S/12E-17DDC	17004341	WILSON, PETE	01/18/82	441101	1211826	3110	480.0	8.0	X	461.0	480.0	6.0	B	12.0	10.0	1.0	412.0 (D)	01/18/82	H	
16S/12E-18ABA	17004367	PUTNAM, E. L.	12/03/73	441145	1211942	3204	522.0	6.0	X	68.0	522.0	6.0	A	20.0	15.0	1.0	462.7	02/02/78	H	
16S/12E-18BDC	17004360	BARNUM, MARIE	01/01/50	441122	1212012	3227	550.0	--	--	--	--	--	--	--	--	--	475.3	02/06/79	H	
16S/12E-18CBC	17004370	BARTLETT, B.	02/12/69	441112	1212029	3238	510.0	6.0	P	342.0	508.0	6.0	P	20.0	0.0	1.0	385.0 (D)	02/12/69	H	
16S/12E-18DCB	17004372	KIRKPATRICK, JERRY H.	10/20/76	441106	1211953	3249	555.0	8.0	P	475.0	555.0	5.0	B	10.0	0.0	1.0	498.6	01/26/79	H	D
16S/12E-18DDA	17004359	CLEMENT, DON	03/01/87	441103	1211925	3145	540.0	8.0	P	500.0	540.0	6.0	P	15.0	--	4.0	491.1	10/26/93	H	
16S/12E-19ABA	17008636	HOCKENBERRY, JOHN	10/25/93	441049	1211943	3265	600.0	8.0	P	565.0	585.0	6.0	A	20.0	--	1.0	521.1	01/13/94	H	
									X	585.0	600.0	5.0								
16S/12E-19ACC	17004382	FALLON, JOE	08/15/78	441033	1211950	3277	599.0	8.0	X	25.0	599.0	8.0	B	8.0	0.0	1.0	513.0 (D)	08/15/78	U	
16S/12E-19BCD	17001488	LLAMA WOODS FARMS	08/28/92	441030	1212020	3275	645.0	10.0	P	595.0	635.0	8.0	P	50.0	--	1.0	542.0 (D)	08/28/92	I	
16S/12E-20ADC	17001564	JOHNSTON, MIKE	10/29/92	441033	1211827	3235	539.0	8.0	P	519.0	539.0	6.0	A	20.0	--	1.0	489.1	10/27/93	H	
16S/12E-21BDB	17008637	TILLMAN, ANDY AND CHERYL	10/30/93	441041	1211750	3270	600.0	8.0	P	570.0	590.0	6.0	A	20.0	--	1.0	508.0 (D)	10/30/93	H	
									X	590.0	600.0	5.0								
16S/12E-21CBA	17004387	MCLAGAN, ROBERT	09/20/88	441028	1211759	3282	593.0	8.0	P	573.0	593.0	6.0	A	15.0	--	1.0	547.8	10/27/93	H	
16S/12E-21CCD	17004394	HARRIS, JACK	05/28/69	441003	1211754	3290	380.0	6.0	X	21.0	381.0	6.0	B	15.0	6.0	3.0	344.0 (D)	05/28/69	H	
16S/12E-21DAB	17000439	ZINK, FLOYD	01/26/78	441025	1211711	3345	630.0	8.0	X	20.0	630.0	8.0	B	10.0	0.0	2.0	570.0 (D)	01/27/78	H	
16S/12E-21DAC	17004393	RICHARDS, LONNIE	08/08/68	441022	1211711	3353	447.0	8.0	P	387.0	447.0	5.0	P	20.0	0.0	1.0	387.0 (D)	02/04/76	H	D
16S/12E-21DCC	17004401	WHISPERING PINES INC.	10/03/69	441004	1211728	3350	695.0	14.0	P	555.0	630.0	10.0	P	150.0	2.0	24.0	604.0	01/25/79	U	
									P	640.0	690.0	8.0								
16S/12E-22BDC	17001241	HODGE, PAT	03/06/92	441029	1211632	3555	885.0	8.0	P	827.0	867.0	8.0	--	--	--	--	803.0 (D)	03/06/92	P	
									X	867.0	885.0	10.0								
16S/12E-22CCC	17004397	HEIERMAN, DAN	02/05/79	441003	1211656	3338	660.0	8.0	P	620.0	660.0	6.0	A	25.0	33.0	1.0	583.2	02/09/79	U	
16S/12E-23BAA	17004413	HALEY, WILLIAM	02/08/78	441053	1211511	3193	510.0	8.0	X	490.0	510.0	8.0	B	15.0	0.0	2.0	456.3	08/31/94	H	C,Q,H6
16S/12E-23BAC	17004416	G & H INDUSTRIES	10/28/77	441041	1211521	3255	660.0	10.0	P	591.0	606.0	6.0	P	20.0	0.0	24.0	565.0 (D)	04/28/78	P	D
									X	611.0	660.0	8.0								
16S/12E-26DBA	17000960	HOLT, JACK	07/11/91	440936	1211453	3279	658.0	8.0	X	620.0	658.0	6.0	A	12.0	--	1.0	537.0 (D)	08/20/91	H	D
16S/12E-26ddb	17004436	M.G.M. INVESTMENTS	04/14/78	440917	1211448	3264	620.0	10.0	X	28.0	620.0	10.0	B	10.0	0.0	1.0	494.1	03/22/94	P	
16S/12E-27ACD	17004449	INMAN, ROY	10/15/78	440942	1211607	3270	585.0	8.0	P	545.0	585.0	6.0	A	15.0	4.0	--	517.0 (D)	10/15/78	H	
16S/12E-27ADC	17004453	GALIPEAU, REGINAL L.	02/02/70	440938	1211559	3263	560.0	8.0	P	544.0	552.0	6.0	P	18.0	12.0	1.0	512.0 (D)	02/03/70	P	
									X	553.0	560.0	6.0								
16S/12E-27BAB	17004446	MCDANIEL, NORMAN A.	03/20/78	441001	1211635	3329	634.0	8.0	P	584.0	634.0	12.0	B	7.0	3.0	1.0	579.0 (D)	03/20/78	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
16S/12E-27BCD	17004448	HOLLIBAUGH, TOM	07/15/78	440942	1211644	3330	620.0	8.0	X	21.0	620.0	8.0	A	7.5	0.0	1.0	595.0 (D)	07/15/78	H	
16S/12E-27BDA	17000443	MULDER, ROBT.	11/24/78	440944	1211629	3285	610.0	8.0	P	570.0	610.0	6.0	A	18.0	0.0	1.0	560.0 (D)	11/24/78	H	
16S/12E-27CAB	17004457	MAYER, E.A.	08/10/66	440928	1211640	3275	635.0	8.0	P	516.0	616.0	8.0	P	72.0	7.0	4.0	517.2	10/27/93	H	
16S/12E-27DAD	17004450	THREE SISTERS ACADEMY	04/11/74	440926	1211550	3265	665.0	8.0	X	540.0	665.0	8.0	A	25.0	--	2.0	620.0 (D)	04/11/74	H	
16S/12E-27DBD	17004455	MORRISS, ARNOLD	01/08/60	440929	1211606	3250	585.0	6.0	X	150.0	585.0	6.0	B	10.0	0.0	2.0	540.0 (D)	12/27/76	H	D
16S/12E-27DCD	17004444	MITCHELL, ROSS	09/01/69	440911	1211611	3270	108.0	8.0	P	87.0	108.0	6.0	B	20.0	0.0	1.0	87.0 (D)	09/01/69	H	
16S/12E-28AAB	17004462	BROWN, JERRY	12/02/75	440956	1211715	3362	690.0	8.0	P	640.0	690.0	6.0	B	3.0	0.0	1.0	610.0 (D)	12/02/75	H	
16S/12E-28CDB	17004461	BLAKE, LEROY	02/20/78	440921	1211751	3279	660.0	8.0	X	21.0	660.0	8.0	P	76.0	10.0	2.0	490.0 (D)	02/20/78	P	
16S/12E-29ACC	17004464	BRUCE BROTHERS	07/05/88	440942	1211843	3285	381.0	6.0	P	320.0	380.0	6.0	P	15.0	0.0	1.0	324.3	10/28/93	H	
16S/12E-29CAD	17001201	DEATON, EARL	03/03/92	440924	1211848	3285	600.0	8.0	P	560.0	600.0	6.0	A	10.0	--	1.0	540.0 (D)	03/03/92	H	
16S/12E-29DAB	17004481	MILLER, CHARLES	12/28/72	440931	1211819	3283	585.0	6.0	X	200.0	585.0	6.0	B	15.0	10.0	1.0	517.0 (D)	12/23/73	H	
16S/12E-30ABC	17004492	STEVENS, K. AND BOONE, D.	05/01/71	440953	1211953	3283	615.0	8.0	X	40.0	577.0	8.0	P	55.0	5.0	4.0	525.0 (D)	12/03/76	P	D
									X	577.0	615.0	6.0								
16S/12E-30BAA	17009051	MCDUGAL, SUE	12/21/93	440959	1212000	3285	625.0	8.0	P	570.0	590.0	6.0	A	15.0	--	1.0	537.0 (D)	12/21/93	H	
									X	590.0	625.0	5.0								
16S/12E-30CAC	17004487	WILSON, DEWEY	07/02/80	440929	1212012	3305	650.0	8.0	X	19.0	650.0	8.0	B	10.0	0.0	1.0	580.0 (D)	07/02/80	H	
16S/12E-30CBB1	17004493	HENNEN, CY	05/10/71	440932	1212027	3323	701.0	6.0	P	619.0	701.0	6.0	B	5.0	0.0	1.0	575.0 (D)	09/08/72	H	D
16S/12E-30CBB2	17004497	MASTERSON, DOUG	02/14/75	440930	1212027	3325	675.0	8.0	X	26.0	675.0	8.0	--	--	--	--	575.0 (D)	02/14/75	H	
16S/12E-31ABA	17004532	REDMOND SCHOOL DIST.	03/17/73	440904	1211949	3187	568.0	8.0	P	385.0	405.0	6.0	A	150.0	0.0	2.0	419.0 (D)	04/09/93	T	D
									P	525.0	565.0	6.0								
16S/12E-31ABB	17004546	HODGES, DUANE E.	07/03/69	440909	1211958	3197	396.0	8.0	X	27.0	396.0	8.0	B	20.0	0.0	1.0	375.0 (D)	07/03/69	H	
16S/12E-31ADC	17004552	SPEAKMAN, K. E.	08/19/66	440848	1211938	3179	49.0	6.0	P	30.0	48.0	6.0	B	18.0	10.0	1.0	39.3	10/29/93	H	
16S/12E-31ACB	17004537	MILLARD, STAN	03/24/72	440842	1212016	3343	415.0	8.0	P	395.0	415.0	5.0	B	6.0	0.0	1.0	403.0 (D)	03/24/72	H	
16S/12E-31CBD	17004528	EMMONDS, NEIL L.	09/13/76	440834	1212026	3360	562.0	8.0	P	415.0	562.0	6.0	B	8.0	5.0	1.0	407.3	01/24/79	H	
16S/12E-32ACC	17004614	FOSTER, TOM	07/25/74	440845	1211838	3317	705.0	8.0	X	340.0	705.0	6.0	A	10.0	55.0	2.0	650.0 (D)	07/25/74	H	
16S/12E-32ADB	17004606	STANLEY, JIM	01/05/87	440854	1211820	3305	137.0	8.0	P	116.0	137.0	6.0	A	5.0	--	--	99.8	10/29/93	H	
16S/12E-32CAD	17001555	COX, NICKOLAS R.	10/22/92	440836	1211848	3318	670.0	6.0	P	650.0	670.0	5.0	A	15.0	--	1.0	554.0 (D)	10/22/92	H	
16S/12E-32CBC	17004616	BROKKEN, W. K.	11/06/74	440836	1211914	3290	330.0	6.0	S	317.0	329.0	5.0	B	7.0	0.0	5.0	289.0 (D)	11/06/74	H	
16S/12E-33BBA	17004626	AVION WATER CO	11/07/79	440909	1211758	3305	700.0	8.0	X	530.0	700.0	8.0	B	10.0	0.0	1.0	600.0 (D)	01/09/81	T	D
16S/12E-35CBC	17004638	HARBOTTLE, LEE	02/13/76	440832	1211538	3312	480.0	8.0	X	23.0	480.0	8.0	B	10.0	5.0	2.0	454.1	01/31/79	H	
16S/12E-35DDB	17004630	JOHNSON, KARL	05/08/90	440830	1211445	3295	620.0	8.0	P	565.0	585.0	6.0	A	15.0	--	1.0	553.9	10/29/93	H	
16S/12E-35DDC	17004643	FINLEY, H. G.	08/21/67	440821	1211448	3300	570.0	6.0	P	550.0	570.0	6.0	P	20.0	5.0	2.0	540.0 (D)	08/21/67	H	
16S/12E-36ADD	17004657	HERRING, FLOYD	03/23/78	440846	1211323	3316	710.0	7.0	X	20.0	710.0	8.0	P	125.0	0.0	1.0	580.4	03/04/94	U	
16S/12E-36BDA	17004645	HERRING, FLOYD	05/25/77	440855	1211405	3295	615.0	8.0	X	38.0	615.0	8.0	B	12.0	0.0	2.0	542.9	03/04/94	P	
16S/13E-06CAB	17004651	AMEN, JACK	02/28/76	441258	1211303	3110	393.0	8.0	P	360.0	380.0	5.0	B	10.0	0.0	1.0	356.0 (D)	02/28/76	H	
									S	383.0	388.0	5.0								
16S/13E-06CAC	17000455	BAYLESS, CHARLES	12/14/79	441255	1211256	3108	423.0	8.0	S	408.0	418.0	5.0	A	35.0	10.0	1.0	363.0 (D)	12/14/79	H	
16S/13E-06CCC	17004653	KNIGHT, DALENE	02/15/73	441242	1211315	3115	283.0	8.0	X	20.0	283.0	8.0	P	30.0	0.0	1.0	207.5	03/01/79	H	
16S/13E-16AAC	17004656	HEIERMAN, DAN	05/11/78	441133	1211002	3164	505.0	8.0	X	20.0	505.0	8.0	A	22.0	5.0	1.0	432.4	08/30/94	U	O,R,H7,GD
16S/13E-16ADB	17004655	COOKSEY, J. O.	07/05/78	441131	1210956	3163	465.0	6.0	X	19.0	435.0	8.0	B	10.0	0.0	1.3	425.8	03/01/79	H	C
16S/13E-16CCA	17010139	CHRISTOSSERSAN, KIM	09/18/95	441100	1211004	3215	580.0	8.0	P	560.0	580.0	6.0	A	25.0	0.0	1.0	479.0 (D)	09/18/95	H	
16S/14E-04ACB	13002440	CONDON, DAVID	11/12/87	441307	1210312	3170	440.0	6.0	X	38.0	440.0	6.0	A	15.0	0.0	1.0	398.0 (D)	11/11/87	H	
16S/14E-09ADC	13002447	MCCASLAND, BOB	01/18/70	441208	1210259	3233	590.0	6.0	X	20.0	590.0	6.0	P	12.0	0.0	2.0	501.9	04/28/94	H	
16S/14E-11CCB	13002451	MATHERS, LLOYD L.	09/08/69	441144	1210131	3559	725.0	6.0	X	360.0	725.0	6.0	B	14.0	360.0	7.0	233.0	05/12/94	H	D
16S/14E-14CCD1	13002455	TEUSCHER, W.V.	03/18/71	441046	1210119	3665	340.0	6.0	P	200.0	340.0	5.0	B	5.0	0.0	1.0	260.0 (D)	05/03/73	P	D
16S/14E-14CCD2	13002458	TEUSCHER, W. V.	03/23/71	441046	1210117	3665	260.0	6.0	P	130.0	258.0	6.0	B	20.0	1.0	--	147.0 (D)	03/23/71	H	D
16S/14E-21BBD	13002966	MARSHALL, CARL	12/07/93	441041	1210340	3241	640.0	8.0	P	600.0	640.0	6.0	A	15.0	0.0	1.0	507.0	04/28/94	H	
16S/15E-26CCD	13002489	MARTIN, HARRY	07/13/79	440851	1205359	3555	560.0	8.0	X	79.0	560.0	8.0	A	0.0	--	--	451.5	09/02/94	U	Q,H6
17S/11E-01BCD	17004661	WARNER, DUKE	07/21/89	440753	1212128	3420	550.0	6.0	P	530.0	550.0	6.0	A	30.0	--	1.0	448.0 (D)	07/21/89	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
17S/11E-02BCB	17004669	GILL, DONNA	12/19/74	440801	1212553	3416	400.0	8.0	P	342.0	398.0	6.0	B	6.0	5.0	1.0	339.9	05/25/78	H	
17S/11E-02CAA	17004665	JOHNSON, KEN	08/10/87	440745	1212229	2463	553.0	8.0	P	533.0	553.0	6.0	A	20.0	--	1.0	494.8	03/16/94	H	
17S/11E-02CDB	17004671	GLARNEAU, JOE	08/01/68	440739	1212236	3501	455.0	6.0	X	20.0	455.0	8.0	B	3.0	20.0	2.0	425.0 (D)	08/01/68	H	
17S/11E-03ABB1	17004672	PETERSON, THOMAS	07/07/77	440814	1212330	3501	160.0	6.0	P	100.0	120.0	6.0	B	10.0	0.0	2.0	71.5	05/26/78	H	
									P	140.0	160.0	6.0								
17S/11E-03ABB2	17004642	PETERSON, TOM	03/15/79	440814	1212331	3525	475.0	8.0	P	440.0	460.0	6.0	--	--	--	--	423.6	08/23/93	H	
17S/11E-03BBC	17004676	LOWE, LEON	11/10/77	440809	1212405	3538	670.0	8.0	X	100.0	670.0	6.0	--	--	--	--	DRY (D)	11/10/77	U	GA
17S/11E-04AAA	17000733	LARDON, KEVIN	11/15/90	440816	1212411	3525	860.0	8.0	P	795.0	815.0	6.0	P	6.0	--	1.0	789.0 (D)	11/15/90	H	
									X	815.0	860.0	6.0								
17S/11E-10AAB	17001444	WITHERS, BRUCE	07/31/92	440724	1202312	3535	470.0	8.0	P	450.0	470.0	5.0	A	15.0	--	1.0	385.0 (D)	07/31/92	H	
17S/11E-10AAD	17004680	MOYER, GENE	06/09/74	440716	1212303	3535	105.0	8.0	X	21.0	105.0	8.0	B	20.0	0.0	1.0	37.1	03/14/78	H	
17S/11E-10ADA	17004681	MOORE, C. C.	02/18/56	440711	1212302	3539	95.0	6.0	X	12.0	95.0	6.0	B	10.0	--	--	91.1	03/14/78	U	
17S/11E-10ADC	17009586	COATS, DOUGLAS	03/31/75	440701	1212307	3556	495.0	8.0	P	230.0	256.0	6.0	A	20.0	65.0	1.0	420.0 (D)	03/31/75	H	
									X	260.0	495.0	6.0								
17S/11E-10DDC	17004679	COATES, DOUG	08/15/79	440640	1212310	3640	287.0	8.0	P	245.0	285.0	6.0	A	7.0	20.0	2.0	248.2	09/01/94	H	Q,H6
17S/11E-11ABB	17004688	KERNS, DAN	11/18/75	440719	1212215	3483	552.0	8.0	P	502.0	552.0	6.0	B	4.0	0.0	1.0	500.0	11/18/78	H	
17S/11E-11DDA	17004689	COATS, ROBERT L.	07/10/78	440645	1212152	3543	700.0	8.0	P	497.0	697.0	5.0	B	8.0	0.0	1.0	560.0 (D)	07/10/78	H	
									X	697.0	700.0	6.0								
17S/11E-12BAD	17001365	DAVENPORT ENTERPRISES	06/26/92	440719	1212117	3375	541.0	8.0	P	521.0	541.0	6.0	A	25.0	--	1.0	458.0	08/23/93	H	
53 17S/11E-13ACB1	17004692	ADEE, RON	06/01/74	440616	1212101	3495	72.0	8.0	P	34.0	72.0	8.0	B	9.0	18.0	1.0	56.5	03/15/78	U	D
17S/11E-13ACB2	17004693	ADEE, RON	03/07/75	440616	1212102	3495	320.0	10.0	P	210.0	310.0	6.0	B	10.0	79.9	1.0	148.1	03/15/78	H	
17S/11E-13CCA	17004691	KLIPPEL, CARL	02/03/76	440554	1212131	3548	795.0	8.0	P	755.0	795.0	6.0	B	4.0	0.0	1.0	763.0 (D)	02/03/76	P	
17S/11E-14CAD	17004698	M.R.S.INC.	10/08/71	440600	1212226	3579	795.0	8.0	X	120.0	795.0	8.0	B	15.0	0.0	1.0	765.0 (D)	10/08/71	P	
17S/11E-14CDC	17000459	RING, DON	10/15/80	440543	1212234	3645	420.0	8.0	X	38.0	420.0	6.0	P	15.0	0.0	1.0	373.7	08/24/93	H	
17S/11E-14DAD1	17004701	KLIPPEL RANCH	02/23/67	440559	1212146	3584	450.0	8.0	P	410.0	450.0	5.0	B	20.0	0.0	4.0	410.0 (D)	02/23/67	U	
17S/11E-14DAD2	17004696	KLIPPEL CARL	05/18/73	440558	1212146	3585	493.0	8.0	P	305.0	337.0	6.0	B	5.0	0.0	1.0	420.0	03/21/78	P	
									P	433.0	493.0	6.0								
17S/11E-14DBB	17004699	M.R.S.INC.	02/20/72	440607	1212218	3570	783.0	8.0	X	174.0	783.0	8.0	B	10.0	0.0	2.0	751.0 (D)	02/20/72	P	
17S/11E-14DBD	17004697	M.R.S.INC.	07/20/71	440600	1212206	3615	770.0	--	--	--	--	--	--	--	--	--	DRY (D)	07/20/71	U	
17S/11E-23BAD	17004710	WALTER, J.	03/17/71	440530	1212228	3708	368.0	8.0	X	24.0	368.0	8.0	B	6.0	0.0	2.0	352.0 (D)	03/17/71	H	
17S/11E-23CDB	17004709	CITY OF BEND	03/01/76	440456	1212239	3618	229.0	8.0	X	222.0	229.0	8.0	P	40.0	12.5	3.0	218.0	03/16/78	P	
17S/11E-24ABB	17004711	BEERY, LARRY	08/27/70	440536	1212101	3597	867.0	8.0	X	330.0	530.0	6.0	--	--	--	--	848.0 (D)	04/28/72	H	D
									X	590.0	867.0	6.0								
17S/11E-24DCA	17001490	BROOKS RESOURCE CO.	08/15/92	440502	1212058	3665	990.0	18.0	P	810.0	940.0	14.0	B	30.0	0.0	1.0	860.0 (D)	08/15/92	I	
									X	940.0	990.0	9.0								
17S/11E-25ABC	17001653	BROOKS RESOURCE CO.	02/03/93	440440	1212107	3735	700.0	20.0	P	540.0	700.0	12.0	P	950.0	3.0	8.0	507.4	09/01/94	P	Q,H6
17S/11E-25BCB	17004715	COATS, ROBERT L.	03/05/73	440435	1212138	3755	570.0	8.0	X	546.0	570.0	8.0	P	120.0	25.0	2.0	445.0 (D)	03/05/73	N	
17S/11E-25CBA	17004713	MARKEN, HAROLD	08/09/77	440423	1212136	3745	350.0	8.0	P	326.0	346.0	6.0	A	15.0	5.0	2.0	312.1	07/01/93	U	O,R,H7,GD
									X	346.0	350.0	6.0								
17S/11E-25CBC	17004714	ANDERSON, DON	12/20/73	440415	1212140	3720	322.0	6.0	X	40.0	322.0	6.0	A	10.0	15.0	1.0	292.8	03/16/78	H	
17S/11E-26ACD	17004717	OLMSTEAD, PAUL	09/05/72	440424	1212203	3818	380.0	6.0	P	164.0	179.0	6.0	--	--	--	--	363.0 (D)	09/05/72	N	D
17S/11E-34DCC	17008509	BROKEN TOP LMT.	08/19/93	440310	1212332	3985	700.0	12.0	P	600.0	700.0	12.0	P	950.0	3.0	1.0	482.0 (D)	08/02/93	P	
17S/12E-02ABC	17004727	PETERSEN LEONARD	04/08/71	440807	1211505	3299	590.0	6.0	X	19.0	590.0	8.0	B	10.0	0.0	1.0	538.0 (D)	04/08/71	H	
17S/12E-02DAA	17000003	CHRISTIENSEN, OTTO	03/14/90	440750	1211435	3335	615.0	8.0	P	592.0	612.0	6.0	P	12.0	0.0	1.0	590.0 (D)	03/14/90	H	
17S/12E-02DBA	17000461	KENT, ALAN	03/28/89	440750	1211451	3322	655.0	8.0	P	590.0	650.0	6.0	P	9.0	1.0	4.0	581.4	10/27/93	H	
17S/12E-03CBC	17004742	CHAMPION, WILLIAM	10/20/77	440740	1211655	3370	649.0	10.0	P	609.0	649.0	8.0	B	10.0	0.0	1.0	582.0 (D)	10/20/77	U	
17S/12E-03CCA	17004231	STRICKLIN, BILL	09/28/70	440739	1211649	3374	648.0	6.0	X	23.0	648.0	8.0	P	18.0	0.0	2.0	631.0 (D)	09/28/70	P	
17S/12E-03CCB	17004729	MAYEA, EUGENE	04/14/83	440733	1211651	3371	658.0	8.0	X	18.0	658.0	8.0	P	4.0	0.0	4.0	627.0	10/27/93	H	
17S/12E-04ACC1	17004736	THOMPSON, CHARLES	05/11/72	440755	1211726	3388	670.0	8.0	X	29.0	670.0	8.0	B	6.0	10.0	3.0	636.0 (D)	05/11/72	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level		Use	Remarks	
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum			Date
17S/12E-04ACC2	17001233	KNIGHT, GARY	03/17/92	440754	1211731	3420	840.0	8.0	P	780.0	840.0	6.0	A	18.0	--	1.0	680.0 (D)	03/17/92	H	
17S/12E-04BDA1	17004737	BRAWLEY, RONALD	01/11/73	440801	1211740	3381	860.0	6.0	P	760.0	860.0	5.0	B	5.0	0.0	1.0	650.0 (D)	01/31/75	H	D
17S/12E-04BDA2	17004732	NEWELL, ED	11/18/83	440804	1211741	3375	809.0	8.0	X	472.0	809.0	6.0	A	20.0	--	2.0	651.0 (D)	11/15/83	H	
17S/12E-05ACC	17004753	BALTZOR, ART	03/12/70	440754	1211841	3370	500.0	6.0	P	450.0	500.0	6.0	B	20.0	10.0	1.0	240.0 (D)	03/12/70	P	
17S/12E-05BAD	17000870	FAULKNER, MR.	03/17/91	440807	1211847	3340	503.0	8.0	P	463.0	503.0	6.0	A	12.0	--	1.0	439.0 (D)	03/17/91	H	
17S/12E-05CBD	17004767	CLARK, DUANE	09/20/78	440740	1211907	3378	904.0	8.0	X	520.0	904.0	6.0	B	9.0	0.0	4.0	597.0 (D)	09/19/78	H	
17S/12E-06ADC	17000465	TUMALO ST. PARK	03/08/71	440757	1211936	3190	75.0	6.0	P	49.0	74.0	6.0	B	54.0	56.0	2.0	27.3	06/16/93	R	
17S/12E-06BAC	17004776	GREER, RUSSELL	02/27/69	440807	1212013	3368	453.0	8.0	X	18.0	453.0	8.0	B	15.0	0.0	2.0	421.0 (D)	02/27/69	H	
17S/12E-06BBB	17004779	GREER, RUSSEL	09/19/79	440815	1212028	3370	466.0	8.0	P	424.0	466.0	6.0	A	14.0	--	1.0	426.9	08/26/93	H	
17S/12E-06CBD1	17004774	LANDIS & WICK	05/22/77	440739	1212021	3344	414.0	10.0	X	325.0	414.0	8.0	A	15.0	5.0	1.0	394.0 (D)	05/22/77	P	
17S/12E-06CBD2	17004775	LANDIS & WICK	04/29/77	440738	1212019	3346	227.0	10.0	P	210.0	221.0	8.0	A	20.0	5.0	2.0	196.0 (D)	04/29/77	P	
17S/12E-07AAB1	17004782	RANYARD, BONNIE	07/07/75	440726	1211935	3422	550.0	8.0	X	320.0	550.0	6.0	B	15.0	10.0	2.0	410.0 (D)	07/07/75	U	
17S/12E-07AAB2	17004780	RANYARD, BONNIE	02/25/78	440725	1211933	3422	745.0	8.0	X	20.0	745.0	8.0	--	--	--	--	560.3	05/11/78	H	D
17S/12E-07BDC	17004784	KEMPLE, HAROLD M.	05/23/74	440706	1212015	3445	580.0	6.0	X	22.0	580.0	6.0	A	10.0	5.0	1.0	525.0 (D)	05/27/74	H	
17S/12E-08ABB	17004806	PARKER, L. E.	05/08/70	440723	1211847	3423	372.0	6.0	X	132.0	372.0	6.0	B	20.0	10.0	1.0	316.0 (D)	05/08/70	H	
17S/12E-08ABD	17004844	TAYLOR, SIDNEY	09/22/67	440715	1211837	3428	240.0	6.0	X	134.0	240.0	6.0	B	6.0	0.0	2.0	128.4	09/21/94	U	C,O,H7,D
17S/12E-08ACB	17004816	CHANEY, NATHAN H.	08/11/67	440713	1211839	3424	238.0	6.0	P	210.0	218.0	4.0	B	2.0	20.0	2.0	168.0 (D)	03/15/69	H	D
									X	218.0	238.0	4.0								
17S/12E-08ADA1	17004804	LEAR, WILLIAM	06/23/71	440708	1211816	3440	342.0	8.0	P	222.0	340.0	5.0	B	20.0	80.0	3.0	200.0 (D)	06/23/71	H	
17S/12E-08ADA2	17004837	LEAR, BILL	02/07/72	440708	1211814	3438	413.0	8.0	P	385.0	410.0	6.0	B	16.0	0.0	8.0	317.0	04/12/78	P	
17S/12E-08BAB	17004863	WILSON, JIM	12/05/77	440725	1211856	3404	209.0	8.0	X	203.0	209.0	6.0	A	7.0	0.0	1.0	177.8	04/13/78	H	
17S/12E-08BDB1	17004824	RAMSAY, KEITH	04/05/71	440709	1211900	3430	260.0	8.0	P	167.0	246.0	6.0	B	30.0	8.0	3.0	173.3	10/03/78	P	D
									X	248.0	260.0	8.0								
17S/12E-08BDB2	17004831	RAMSAY, KEITH	03/28/74	440710	1211902	3430	222.0	8.0	P	180.0	210.0	6.0	B	25.0	0.0	1.0	173.3	10/11/74	P	D
									X	214.0	222.0	6.0								
17S/12E-08BDB3	17004864	AVION WATER CO.	04/21/77	440710	1211900	3425	214.0	10.0	X	198.0	214.0	8.0	B	25.0	1.0	1.0	171.2	10/03/78	U	
17S/12E-08CAD	17004866	MCCOY, C. E.	06/28/77	440649	1211855	3840	165.0	8.0	X	145.0	165.0	8.0	A	15.0	--	2.0	120.0 (D)	06/24/77	H	
17S/12E-08CBA	17004799	BORLEN, ROBERT	01/20/77	440656	1211911	3476	220.0	6.0	X	20.0	220.0	6.0	B	10.0	10.0	1.0	193.0	04/13/78	H	D
17S/12E-08CDD	17000850	GROGAN, RALPH	03/15/90	440638	1211853	3497	185.0	8.0	X	25.0	185.0	8.0	P	10.0	2.0	1.0	145.8	10/27/93	H	
17S/12E-08DBA	17004840	WILSON, EUGENE C.	04/25/69	440653	1211830	3482	177.0	6.0	P	155.0	177.0	6.0	B	20.0	2.0	1.0	149.0 (D)	04/25/69	H	
17S/12E-08DBB	17004809	MACK, LAWRENCE	12/04/69	440655	1211840	3467	164.0	8.0	X	158.0	164.0	6.0	B	15.0	0.0	1.0	140.2	04/13/78	H	
17S/12E-08DCA1	17004820	TERWILGAR, HARRY	04/22/66	440641	1211830	3480	132.0	6.0	X	42.0	132.0	6.0	B	10.0	0.0	1.0	101.4	03/24/78	H	
17S/12E-08DCA2	17004817	ERDMAN, HENRY	07/23/67	440645	1211833	3477	126.0	6.0	X	50.0	126.0	6.0	B	8.0	--	1.0	115.0 (D)	07/23/67	H	
17S/12E-09AAD	17004890	SCHOTT, RUBEN	09/30/65	440716	1211706	3412	197.0	8.0	X	18.0	197.0	8.0	B	28.0	0.0	1.0	170.7	07/02/93	P	
17S/12E-09ABA	17004898	BOWERS, W. D.	07/10/64	440724	1211719	3395	260.0	6.0	P	240.0	260.0	5.0	B	20.0	0.0	0.5	230.0	06/16/93	H	D
17S/12E-09ADB1	17004892	CARLSON, K. A.	07/12/72	440712	1211707	3412	735.0	8.0	P	635.0	735.0	5.0	B	5.0	0.0	1.0	682.0 (D)	07/12/72	P	
17S/12E-09ADB2	17004893	CARLSON, KEN	04/14/72	440711	1211707	3415	515.0	8.0	P	268.0	280.0	6.0	P	14.0	60.0	--	260.0 (D)	04/14/72	H	
									X	282.0	320.0	6.0								
17S/12E-09BAD	17004882	HANSON, PURTZER, BOCHSLER	01/16/76	440714	1211736	3409	435.0	8.0	P	385.0	425.0	6.0	B	7.5	13.0	1.0	400.4	04/25/78	H	
17S/12E-09BBB	17004807	MCKIM, FRANK	03/20/70	440722	1211803	3428	240.0	8.0	P	195.0	205.0	6.0	B	20.0	1.0	1.5	191.9	04/12/78	H	
									X	205.0	240.0	6.0								
17S/12E-09BCA1	17004891	RHEINHOLDT, MARVIN	06/22/73	440713	1211859	3431	450.0	6.0	X	59.0	450.0	6.0	A	12.0	--	2.0	313.0	04/25/78	H	
17S/12E-09BCA2	17004884	CARSON, MURRY	04/16/75	440712	1211759	3437	340.0	8.0	X	332.0	340.0	8.0	B	12.0	3.0	1.0	320.1	04/25/78	H	D
17S/12E-09CAC	17004889	CLAUSEN, LAWRENCE	12/05/74	440649	1211747	3458	268.0	8.0	P	0.0	270.0	6.0	B	8.0	13.0	1.0	227.6	04/26/78	P	
17S/12E-09CCD	17004896	NICKOLSON, L.	05/31/73	440636	1211859	3465	454.0	6.0	X	20.0	454.0	8.0	B	10.0	0.0	1.0	442.4	04/27/78	U	GA
17S/12E-09CDB	17004894	JUDGE, TOM	01/25/76	440643	1211749	3460	380.0	8.0	X	20.0	380.0	6.0	B	10.0	2.0	1.0	343.6	04/27/78	P	
17S/12E-09CDC1	17000471	CLAUSEN, LAWRENCE	02/20/72	440639	1211747	3456	420.0	8.0	P	360.0	410.0	8.0	A	20.0	15.0	--	350.0 (D)	07/27/77	U	D
17S/12E-09CDC2	17004885	CLAUSEN, LAWRENCE	11/12/65	440638	1211746	3454	387.0	6.0	X	18.0	387.0	8.0	B	18.0	0.0	2.0	345.0 (D)	11/12/65	U	
17S/12E-11ADA	17004726	POWERS, DON	12/23/76	440711	1211436	3390	668.0	6.0	X	54.0	668.0	6.0	P	30.0	0.0	1.0	531.0 (D)	12/23/78	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
17S/12E-11CAA	17001375	CAHILL, PAUL	07/03/92	440656	1211513	3383	760.0	8.0	P	720.0	760.0	6.0	A	18.0	--	1.0	647.0 (D)	07/03/92	H	
17S/12E-11ddb	17009078	NELSON, SASA	01/28/94	440642	1211443	3400	640.0	8.0	P	600.0	640.0	6.0	B	11.0	0.0	1.0	536.0 (D)	01/28/94	H	
17S/12E-13BAB	17000023	GUSS, STEVE	04/05/90	440630	1211406	3398	612.0	8.0	X	19.0	612.0	8.0	Z	15.0	--	1.0	556.0 (D)	04/05/90	H	
17S/12E-13DAA	17005111	BRYANT, JAMES	03/01/78	440602	1211322	3443	615.0	6.0	X	20.0	615.0	8.0	B	5.0	0.0	1.0	561.0 (D)	03/03/78	H	
17S/12E-14ABC	17004928	PECCHID, J. B.	04/29/66	440626	1211501	3413	235.0	6.0	P	180.0	204.0	6.0	B	10.0	0.0	1.0	216.7	04/28/78	U	D
									X	204.0	235.0	6.0								
17S/12E-14CCD	17004929	PIERATT, DEAN	03/20/66	440545	1211533	3462	610.0	8.0	X	190.0	610.0	6.0	P	125.0	--	--	540.0 (D)	07/07/72	H	D
17S/12E-15AAB	17004936	MCCAW, LEROY	06/29/67	440630	1211603	3440	215.0	6.0	X	20.0	215.0	8.0	B	10.0	7.0	1.0	190.0 (D)	06/29/67	H	
17S/12E-15AAC	17004937	CURTIS, K. A.	05/18/68	440628	1211604	3439	178.0	6.0	X	20.0	178.0	6.0	B	7.0	0.0	2.0	162.0 (D)	05/18/68	H	
17S/12E-15ABC	17004940	SIEBER, RICHARD H.	08/17/73	440625	1211619	3463	750.0	8.0	X	20.0	750.0	8.0	B	6.0	0.0	1.0	730.0 (D)	12/04/73	H	D
17S/12E-15DAB	17004938	GARCIA, SUNNY	04/07/74	440604	1211557	3446	200.0	8.0	X	20.0	198.0	10.0	P	12.0	39.0	2.0	154.0 (D)	04/07/74	U	
17S/12E-16ACA	17000475	VO LAN SUM	05/08/75	440619	1211724	3463	660.0	8.0	P	580.0	660.0	6.0	P	55.0	--	4.0	500.0 (D)	05/10/75	P	
17S/12E-16CDB	17004949	GISLER, PAT	05/30/78	440550	1211746	3502	563.0	8.0	X	25.0	563.0	8.0	B	5.0	0.0	1.0	399.0	09/27/78	U	
17S/12E-16CDD	17005037	BLOTT, REX	10/09/71	440546	1211739	3504	780.0	8.0	P	760.0	780.0	6.0	B	7.0	0.0	2.0	752.0 (D)	10/09/71	H	
17S/12E-17ABC	17004989	STRAHM, JOSEPH F.	11/02/77	440621	1211842	3497	178.0	6.0	X	20.0	178.0	8.0	B	20.0	0.0	1.0	122.0	05/12/78	H	
17S/12E-17ACD	17004975	BROWNRIGG, RICHARD	05/25/71	440609	1211834	3532	183.0	6.0	X	21.0	183.0	6.0	P	25.0	0.0	24.0	166.1	05/12/78	H	
17S/12E-17BCB	17004973	DREW, JIMS.	02/20/73	440617	1211919	3525	145.0	6.0	X	24.0	145.0	6.0	A	12.0	--	1.0	121.3	05/12/78	H	
17S/12E-17BCD1	17004991	MATHERS, KENNETH	08/26/64	440609	1211905	3525	205.0	6.0	P	190.0	205.0	4.0	P	30.0	0.0	8.0	142.8	05/11/78	H	D
17S/12E-17BCD2	17004971	SPENCER, RAY	10/12/77	440610	1211911	3499	140.0	6.0	X	20.0	140.0	8.0	B	10.0	3.0	1.0	112.6	05/11/78	U	
17S/12E-17BDC1	17004985	HOLLINGER, WILLIAM	11/18/76	440611	1211900	3530	179.0	6.0	X	20.0	179.0	6.0	B	10.0	1.0	1.0	150.0 (D)	11/18/76	H	
17S/12E-17BDC2	17004988	MATHERS, STEVE	04/13/76	440611	1211902	3523	185.0	6.0	X	20.0	185.0	8.0	B	10.0	2.0	1.0	147.4	05/11/78	H	
17S/12E-17BDD	17004972	WATKINS, LEO	06/15/73	440611	1211849	3530	200.0	6.0	P	180.0	200.0	5.0	P	20.0	20.0	2.0	158.0 (D)	03/29/76	H	D
17S/12E-17CAC	17004979	BUNTING, WILLIAM	09/19/68	440600	1211858	3512	186.0	6.0	P	154.0	179.0	4.0	P	15.0	0.0	8.0	164.0 (D)	04/01/69	H	D
									X	179.0	186.0	4.0								
17S/12E-17CAD	17005012	JOHSSON, SVEN	07/18/68	440600	1211849	3508	190.0	8.0	X	26.0	190.0	8.0	P	15.0	0.0	8.0	161.0 (D)	4/31/1969	H	D
17S/12E-17CBB	17005001	CONNER, PATRICK	03/05/69	440605	1211921	3525	147.0	6.0	X	20.0	147.0	8.0	P	15.0	0.0	48.0	113.6	05/10/78	H	
17S/12E-17CBC	17005013	FORD, D. W.	10/20/64	440559	1211914	3512	107.0	6.0	X	18.0	107.0	8.0	B	8.0	2.0	1.0	87.0 (D)	11/06/64	H	
17S/12E-17CBD1	17005004	CARLSON, EMIL	12/19/71	440558	1211906	3503	232.0	8.0	P	190.0	210.0	6.0	B	15.0	12.0	1.5	177.0 (D)	12/02/72	U	D
									X	210.0	232.0	6.0								
17S/12E-17CBD2	17001076	DANISON, ARLENE	10/03/91	440557	1211910	3505	805.0	8.0	P	785.0	805.0	6.0	A	15.0	--	1.0	740.0 (D)	10/03/91	H	
17S/12E-17CDA1	17005008	CRUM, ROBERT	05/14/71	440554	1211849	3508	200.0	6.0	P	190.0	200.0	6.0	P	85.0	24.0	0.8	178.1	05/19/78	P	
17S/12E-17CDA2	17005015	CRUM, ROBERT	07/28/67	440552	1211847	3509	179.0	6.0	P	145.0	155.0	6.0	P	75.0	2.0	1.0	146.0 (D)	07/28/67	U	
									P	168.0	174.0	6.0								
									X	177.0	179.0	6.0								
17S/12E-17CDB	17004970	CORN, DON	10/18/74	440554	1211902	3503	192.0	6.0	P	170.0	180.0	6.0	B	6.0	12.0	2.0	186.7	05/10/78	U	D
17S/12E-17CDD	17005016	CRUM, ROBERT	06/19/67	440545	1211850	3505	213.0	6.0	P	125.0	126.0	6.0	B	4.0	30.0	2.0	168.0	05/19/78	U	
									P	140.0	142.0	6.0								
									P	163.0	165.0	6.0								
									P	176.0	182.0	6.0								
									X	198.0	213.0	6.0								
17S/12E-17DBC1	17005011	SMITH, FRANK E.	08/26/68	440559	1211844	3507	189.0	6.0	P	130.0	140.0	6.0	P	15.0	0.0	2.0	147.3	05/09/78	H	D
									X	140.0	189.0	6.0								
17S/12E-17DBC2	17005009	BOWER, JACK A.	11/21/67	440557	1211838	3513	180.0	8.0	X	18.0	180.0	8.0	B	15.0	0.0	2.0	138.1	05/05/78	H	
17S/12E-17DBD	17004978	COE, CLIFFORD	09/10/76	440600	1211829	3510	210.0	6.0	X	20.0	210.0	8.0	B	10.0	2.0	1.0	194.2	05/11/77	H	D
17S/12E-17DCD1	17004987	KURTZ, W. L.	03/28/66	440544	1211835	3518	204.0	6.0	X	25.0	204.0	6.0	B	15.0	0.0	2.0	172.2	05/09/78	H	
17S/12E-17DCD2	17005030	HART, JOYCE	11/08/77	440546	1211831	3518	290.0	8.0	X	21.0	290.0	8.0	P	7.0	1.0	2.0	150.3	05/09/78	H	
17S/12E-17DCD3	17004980	HART, JOYCE	05/07/68	440546	1211832	3518	305.0	6.0	X	255.0	295.0	5.0	P	20.0	0.0	4.0	276.1	05/09/78	U	D
17S/12E-18BAD	17005018	ELKINS, ED	04/14/86	440622	1212004	3470	805.0	8.0	P	755.0	795.0	6.0	--	--	--	--	735.0 (D)	04/14/86	H	
									X	795.0	805.0	8.0								
17S/12E-20ABB	17005023	HEDON, GERALD	05/15/71	440541	1211839	3512	162.0	6.0	X	120.0	162.0	6.0	B	8.0	0.0	1.0	115.8	05/09/78	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
17S/12E-20ABC	17005029	DUNLAP, LOUIS	01/20/72	440535	1211841	3523	186.0	6.0	X	65.0	186.0	6.0	B	1.0	9.0	0.5	119.9	03/17/94	U	
17S/12E-20ACA	17005035	ROBINSON, ELDON	07/02/65	440526	1211834	3537	615.0	6.0	X	17.0	615.0	6.0	--	--	--	--	DRY (D)	07/02/65	U	
17S/12E-20ACB	17005022	MITCHELL, DAVID	12/14/70	440524	1211840	3540	815.0	8.0	P	795.0	815.0	8.0	B	10.0	0.0	1.5	779.0 (D)	12/14/70	P	
17S/12E-20ADA	17005027	MEYERS, FRED	03/06/65	440525	1211812	3540	404.0	5.0	P	314.0	336.0	5.0	P	10.0	--	4.0	390.0 (D)	03/08/65	U	
									X	336.0	404.0	5.0								
17S/12E-20ADD	17005024	OTT, DUANE	03/09/69	440518	1211812	3535	262.0	5.0	P	239.0	259.0	5.0	P	17.0	2.0	4.0	182.0	05/17/78	H	
17S/12E-20DAA1	17000479	DAVENPORT, E. V.	11/20/74	440510	1211815	3548	490.0	8.0	X	20.0	490.0	8.0	B	20.0	5.0	2.0	470.0 (D)	11/20/74	H	
17S/12E-20DAA2	17005034	VANDEHEY, JOHN	03/11/70	440513	1211814	3535	280.0	6.0	P	140.0	280.0	6.0	B	20.0	20.0	2.0	160.0 (D)	03/11/70	H	
17S/12E-20DAA3	17005026	SMITH, CLEARENCE	09/24/66	440514	1211815	3532	280.0	8.0	P	230.0	250.0	6.0	P	17.0	0.0	2.0	233.2	05/18/78	H	
									X	250.0	280.0	6.0								
17S/12E-20DAA4	17005025	OTT, DUANE N.	04/16/68	440514	1211816	3533	290.0	6.0	P	223.0	262.0	6.0	P	10.0	0.0	2.0	274.2	05/18/78	U	
									X	263.0	290.0	6.0								
17S/12E-20DAB	17005033	STANDARD OIL OF CA.	03/27/69	440515	1211820	3538	190.0	8.0	X	20.0	190.0	5.0	P	33.0	3.0	4.0	150.1	05/17/78	U	D
17S/12E-21BAA	17005036	KETTLEWELL, J. R.	07/22/64	440536	1211739	3532	317.0	8.0	P	255.0	315.0	8.0	B	13.0	--	4.0	298.4	08/24/93	H	D
									X	315.0	317.0	10.0								
17S/12E-23BBC	17005045	U.S.FOREST SERVICE	02/16/77	440529	1211541	3462	1057.0	14.0	P	837.0	877.0	14.0	P	1800.0	0.0	20.0	716.5	09/01/94	I	C,O,H7
									X	893.0	903.0	18.0								
									X	903.0	1057.0	12.0								
17S/12E-23CBB	17005043	PETE, TENOS M.	08/15/81	440510	1211544	3485	823.0	8.0	P	766.0	806.0	6.0	P	200.0	0.0	2.0	747.0 (D)	08/15/81	P	
									X	806.0	823.0	6.0								
17S/12E-23DAA	17005046	AVION WATER CO.	04/04/72	440515	1211433	3477	630.0	6.0	P	580.0	630.0	6.0	--	--	--	--	581.0 (D)	04/04/72	P	
17S/12E-23DBC	17005047	AVION WATER CO.	02/14/74	440507	1211507	3498	639.0	8.0	P	597.0	638.0	6.0	B	12.0	0.0	1.0	587.0 (D)	02/14/74	P	D
17S/12E-26ADA	17005061	LAY, LEON	06/18/80	440433	1211437	3545	650.0	8.0	X	614.0	650.0	8.0	A	22.0	0.0	1.0	626.0 (D)	06/18/80	H	
17S/12E-26DCA	17005062	HEIMBACH, HOWARD	10/27/76	434253	1212634	3535	680.0	8.0	X	136.0	680.0	6.0	P	12.0	0.0	24.0	633.4	08/25/93	H	
17S/12E-33ADC	17008499	CITY OF BEND	08/25/93	440346	1211710	3750	1065.0	14.0	P	818.0	1060.0	10.0	P	750.0	3.0	12.0	725.1	10/26/93	P	
17S/12E-35CDC	17005087	FREE METHODIST CHURCH	02/12/80	440306	1211525	3643	660.0	8.0	X	25.0	660.0	6.0	P	15.0	0.0	4.0	610.0 (D)	02/12/80	P	
17S/13E-05BCD	17000483	CITY OF BEND	01/25/81	440753	1211153	3331	680.0	6.0	P	596.0	616.0	6.0	P	6.0	4.0	4.0	579.3 (D)	01/25/81	M	
									S	613.0	633.0	6.0								
									X	633.0	680.0	10.0								
17S/13E-07ACB	17005104	CITY OF BEND	07/13/79	440709	1211235	3350	680.0	12.0	P	522.0	622.0	10.0	P	242.0	0.0	24.0	626.0 (D)	07/13/79	P	
									X	622.0	680.0	9.8								
17S/13E-08CDC	17005105	CITY OF BEND	02/15/81	440635	1211147	3382	603.0	6.0	P	565.0	603.0	6.0	P	7.0	5.0	4.0	508.3	09/01/94	M	Q,H6
17S/13E-16ACD1	17005109	ERWIN, D. E.	02/16/67	440612	1211004	3359	585.0	10.0	X	285.0	585.0	6.0	B	30.0	0.0	8.0	545.0 (D)	04/26/69	P	
17S/13E-16ACD2	17005108	CIMMARON CITY WATER COMPANY	06/28/79	440612	1211004	3365	610.0	12.0	S	577.0	597.0	12.0	P	369.0	32.0	24.0	550.0 (D)	06/28/79	N	
17S/13E-16ACD3	17001626	CIMMARON CITY WATER COMPANY	01/18/93	440612	1211006	3367	600.0	10.0	P	540.0	600.0	8.0	A	45.0	--	1.0	543.0	11/16/93	P	
17S/13E-17DCC	17001194	MOORE, ROY	01/15/92	440546	1211126	3424	600.0	8.0	P	583.0	600.0	6.0	A	20.0	--	1.0	548.0 (D)	01/15/92	H	
17S/13E-19ABD	17005118	RAMSAY, PAUL	03/01/72	440534	1211233	3462	627.0	8.0	P	587.0	627.0	6.0	P	100.0	0.0	1.0	575.0 (D)	03/01/72	P	GD
17S/13E-19BCB	17005119	BALDINI, GEORGE	02/01/77	440522	1211319	3483	710.0	8.0	X	285.0	710.0	8.0	B	10.0	0.0	2.0	685.0 (D)	02/02/77	H	
17S/13E-19CCA	17005120	WORLEIN, JOE	08/20/76	440458	1211305	3488	678.0	8.0	P	638.0	678.0	6.0	B	8.0	0.0	1.0	598.0 (D)	08/20/76	H	
17S/13E-19CCB	17005114	VANLIEW, DONALD	03/19/80	440459	1211313	3497	639.0	8.0	P	594.0	634.0	6.0	B	10.0	0.0	1.0	580.5	11/17/93	H	
17S/13E-20ACC	17000485	COBOS, TOMMY	09/10/74	440521	1211130	3423	600.0	8.0	P	544.0	600.0	6.0	B	4.0	0.0	1.0	530.0 (D)	09/10/74	H	
17S/13E-20DAB	17001605	ALDRICH, PERRY	01/04/93	440511	1211113	3406	570.0	8.0	P	543.0	553.0	6.0	A	18.0	--	1.0	503.0	11/17/93	H	
									X	553.0	570.0	5.0								
17S/13E-20DAD	17009161	FINE, MATT	03/17/94	440508	1211104	3415	625.0	8.0	P	595.0	615.0	6.0	A	20.0	--	1.0	528.0 (D)	03/18/94	H	
									X	615.0	625.0	6.0								
17S/13E-21BBB	17005127	GILPIN, WILLIAN	12/29/72	440535	1211054	3383	553.0	8.0	P	505.0	553.0	6.0	B	10.0	0.0	1.0	496.0 (D)	12/29/72	H	
17S/13E-21BBD	17000975	HOOVER, PETER	07/12/91	440532	1211041	3380	602.0	8.0	P	582.0	602.0	6.0	A	18.0	--	1.0	512.5	11/18/93	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level		Use	Remarks		
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum			Date	
57	17S/13E-22BBB	17005131	FLACK, CHARLES	12/03/76	440539	1210941	3350	575.0	8.0	P	533.0	573.0	5.0	B	5.0	0.0	1.0	534.0 (D)	12/03/76	H	
	17S/13E-22BCA	17005130	STORLIE, ORVILLE	07/30/75	440525	1210929	3340	615.0	8.0	P	555.0	615.0	6.0	B	5.0	0.0	1.0	540.0 (D)	07/30/75	P	
	17S/13E-22CCB	17001072	WALLACE, TOM	10/09/91	440500	1210935	3361	643.0	8.0	P	603.0	643.0	6.0	Z	15.0	--	1.0	505.0 (D)	10/09/91	H	
	17S/13E-27CBB	17005133	RANCH ACRES	04/11/67	440420	1210935	3428	565.0	8.0	X	24.0	565.0	8.0	B	4.0	0.0	4.0	539.0 (D)	04/11/67	P	
	17S/13E-28ADD	17005136	HELLMEYER, JOHN	02/16/88	440428	1210948	3430	604.0	6.0	P	588.0	604.0	6.0	A	12.0	--	1.0	544.0 (D)	02/16/88	H	
	17S/13E-28DAD	17005139	SPAHN, CODY	12/02/72	440415	1210943	3440	600.0	8.0	X	30.0	600.0	8.0	B	8.0	0.0	1.0	575.0 (D)	12/02/72	H	
	17S/13E-29CCC	17001750	BOURGEOIS, GEORGE	05/25/93	440402	1211202	3543	715.0	8.0	P	675.0	715.0	6.0	A	17.0	--	1.0	642.0 (D)	05/25/93	H	
	17S/13E-30BAB	17005144	ANDERSON, TOM	09/06/73	440443	1211302	3506	630.0	6.0	X	100.0	630.0	6.0	B	15.0	0.0	1.0	590.0 (D)	09/06/73	H	
	17S/13E-30CCD	17005145	COBOS, TOM	03/10/89	440359	1211307	3559	684.0	8.0	P	664.0	684.0	6.0	A	15.0	--	1.0	623.0 (D)	03/10/89	H	
	17S/13E-31BCB	17001296	BARNETT, DAVE	05/09/92	440338	1211315	3585	710.0	8.0	X	500.0	710.0	6.0	A	20.0	--	1.0	629.0 (D)	05/09/92	H	D
	17S/13E-32BBD1	17005149	BUNTING, WILLIAM	01/30/71	440339	1211153	3518	680.0	6.0	X	19.0	680.0	6.5	B	10.0	0.0	2.0	620.0 (D)	01/30/71	P	
	17S/13E-32BDD2	17005150	BUNTING, BILL	11/28/72	440337	1211140	3555	700.0	8.0	P	660.0	700.0	6.0	B	7.0	0.0	2.0	645.0 (D)	11/28/72	P	
	17S/13E-33BCD	17005151	SPAHN, CODY	04/10/71	440334	1211040	3530	705.0	8.0	X	480.0	705.0	6.0	P	25.0	0.0	50.0	665.0 (D)	04/10/71	H	D
	17S/13E-33CCC	17000487	AVION WATER CO.	04/02/74	440308	1211049	3573	727.0	6.0	P	685.0	725.0	6.0	B	20.0	0.5	1.0	675.0 (D)	04/02/74	P	
	17S/14E-02CAA	17009317	WOGMAN, LARRY	07/03/94	440735	1210105	3306	845.0	8.0	X	19.0	740.0	8.0	--	--	--	--	DRY (D)	07/03/94	H	GD
										X	740.0	845.0	6.0								
	17S/14E-02CBD	17009318	WOGMON, LARRY	07/01/94	440730	1210122	3323	195.0	8.0	P	175.0	195.0	6.0	--	--	--	--	90.4	09/01/94	H	
	17S/14E-03DDA	17005152	HYDER, CHIT AND VERA	01/01/64	440726	1210136	3336	610.0	6.0	X	18.0	610.0	8.0	B	2.0	0.0	--	597.0 (D)	01/01/64	H	
	17S/14E-11DCA	17001646	JOHNSON, JOHN	02/09/93	440632	1210046	3340	737.0	10.0	P	687.0	737.0	6.0	A	6.0	--	1.0	587.2	03/03/94	H	
	17S/14E-11DCB	17009319	RADABAUGH, CHRISTIAN	06/28/94	440629	1210058	3350	720.0	8.0	P	680.0	720.0	6.0	A	16.0	--	1.0	620.0 (D)	06/28/94	H	
	17S/14E-13CAC	17000884	AUSTON, PAUL	04/29/91	440545	1210000	3352	695.0	8.0	X	23.0	695.0	8.0	--	--	--	--	543.1	03/02/94	H	
	17S/14E-14AAC	17001782	ASHER, MELVIN	06/21/93	440612	1210032	3346	904.0	8.0	P	884.0	904.0	6.0	A	10.0	--	1.0	623.0	06/21/93	H	
	17S/14E-18DDA	17005160	TRUSELL, ORVILLE	08/10/78	440552	1210510	3348	679.0	8.0	X	675.0	679.0	6.0	P	10.0	0.0	1.0	645.0	09/19/79	H	D
	17S/14E-21ACD	17005163	STONER, MARTY	08/10/79	440513	1210311	3393	720.0	8.0	P	700.0	720.0	5.0	A	15.0	--	1.0	677.0 (D)	08/10/79	H	
	17S/14E-21CCB	17001368	SULLIVAN, RAY	04/24/92	440453	1210355	3366	695.0	8.0	P	675.0	695.0	5.0	P	25.0	0.0	1.0	455.0 (D)	04/24/92	H	
	17S/14E-22ADB	17005180	MILLER, RON	11/10/80	440518	1210148	3357	40.0	8.0	X	19.0	40.0	8.0	A	40.0	--	2.0	23.3	09/20/94	H	C,Q,H6
	17S/14E-22CCA	17005179	TYE, BILL	04/16/83	440449	1210231	3367	198.0	8.0	P	185.0	197.0	6.0	P	12.0	0.0	9.0	184.0	03/03/94	H	D
	17S/14E-23ACC	17000521	LEWIS, HENRY	10/10/90	440509	1210054	3349	660.0	8.0	X	25.0	660.0	6.0	A	15.0	--	1.0	629.0	10/10/90	H	
	17S/14E-23ADA	17000520	GM IND.	09/21/90	440516	1210029	3349	140.0	8.0	P	120.0	140.0	6.0	A	0.5	21.0	--	114.9	03/03/94	H	
	17S/14E-24BBD	17005181	BALCOMBE, DUANE	05/15/89	440517	1210004	3355	60.0	8.0	P	30.0	60.0	6.0	B	20.0	0.0	1.0	14.1	03/03/94	H	
	17S/14E-24CBD	17000846	SWARTZ, HARLEY	04/16/91	440450	1210004	3358	660.0	8.0	P	620.0	660.0	6.0	A	10.0	--	1.0	497.3	03/04/94	H	
	17S/14E-24DCC	17005155	DERIEUX, LARRY	12/06/79	440437	1205943	3369	55.0	6.0	P	40.0	55.0	6.0	P	10.0	0.0	1.0	20.6	03/29/94	H	
	17S/14E-25BAA	17005199	REX, MELVIN	11/31/75	440431	1205948	3371	90.0	8.0	P	70.0	87.0	6.0	B	15.0	0.0	4.0	40.0 (D)	11/30/75	H	
	17S/14E-27CCB	17005203	GREGG, JIM	03/04/80	440401	1210237	3370	730.0	8.0	X	23.0	730.0	6.0	B	5.0	0.0	1.0	670.0	03/04/80	H	C,D
	17S/14E-28ABC	17001610	MOON, RONALD	12/25/92	440434	1210314	3365	680.0	8.0	X	19.0	680.0	8.0	B	20.0	5.0	1.0	625.0 (D)	12/25/92	H	
	17S/14E-28CBC	17005206	SPIECKER, MEL	02/05/82	440408	1210349	3380	700.0	8.0	X	19.0	700.0	8.0	S	5.0	--	1.0	630.0 (D)	02/05/82	H	
17S/14E-29DCB	17009588	COLE, RALPH	05/08/75	440406	1210428	3390	685.0	8.0	X	20.0	685.0	12.0	B	10.0	5.0	1.0	660.0	06/04/75	U		
17S/14E-33BAA	17000491	SPATZ, BILL	04/26/74	440345	1210322	3387	655.0	8.0	X	590.0	655.0	6.0	P	10.0	0.0	3.0	620.0 (D)	04/20/74	H		
18S/08E-29CCB	17005212	U.S. FOREST SERVICE	07/21/78	435900	1214819	4900	216.0	8.0	P	196.0	216.0	6.0	B	40.0	0.0	7.0	81.0	09/23/94	R		
18S/09E-20BDA	17005215	MT. BACHELOR CO.	08/31/84	440016	1214036	6310	780.0	12.0	P	720.0	780.0	10.0	P	110.0	39.0	48.0	724.0 (D)	08/31/84	C		
18S/10E-10AAA1	17005238	SHANNON, MIKE	12/20/77	440208	1213026	4700	85.0	6.0	X	60.0	85.0	6.0	B	8.0	0.0	1.0	20.0 (D)	12/20/77	U		
18S/10E-10AAA4	17005227	COYNER, W. C.	02/02/78	440212	1213020	4685	85.0	6.0	P	50.0	70.0	6.0	B	10.0	0.0	1.0	31.4	05/16/78	U		
									X	70.0	85.0	6.0									
18S/10E-10AAA5	17005239	HERMAN, GEORGE	12/18/77	440212	1213018	4680	70.0	6.0	X	45.0	70.0	6.0	B	10.0	0.0	1.0	17.0	03/23/78	U		
18S/10E-10AAB1	17005235	COYNER, CRAIG	06/27/60	440207	1213031	4700	47.0	6.0	X	45.0	47.0	6.0	B	4.0	--	--	30.0 (D)	06/27/60	U		
18S/10E-10AAB2	17000492	COYNER, CRAIG	05/18/72	440209	1213029	4690	50.0	6.0	P	40.0	50.0	6.0	B	10.0	8.0	1.0	34.5	05/16/78	U		
18S/10E-10AAB3	17005230	COYNER, CRAIG	05/12/72	440212	1213025	4680	42.0	6.0	P	30.0	40.0	6.0	B	8.0	20.0	1.0	20.3	05/16/78	H		
18S/10E-10ABA1	17005232	KELLY, L. A.	10/31/67	440210	1213038	4700	28.0	6.0	X	22.0	28.0	6.0	B	10.0	5.0	1.0	10.0 (D)	10/31/67	H		
18S/10E-10ABA2	17001008	MILLS, JIM	08/19/91	440212	1213033	4715	610.0	8.0	X	160.0	610.0	8.0	A	5.0	0.0	1.0	460.0	08/19/91	H		

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
18S/10E-10ABD	17005240	PETERSON, KENNETH	11/14/77	440203	1213038	4710	89.0	6.0	X	27.0	89.0	6.0	B	5.0	0.0	2.5	46.4	12/14/93	U	
18S/10E-10BCD	17005222	U.S.FOREST SERVICE.	06/02/86	440151	1213116	4760	70.0	6.0	O	70.0	70.0	6.0	P	5.0	30.0	2.0	25.7	09/01/94	H	Q,H6
18S/11E-01DBA	17008410	CASCADE HIGHLAND	06/02/92	440240	1212052	3765	530.0	12.0	P	430.0	530.0	12.0	--	--	--	--	327.6 (D)	12/14/93	I	
18S/11E-04BAC	17005242	RODRIGUES, GARY	07/07/86	440256	1212457	4050	633.0	8.0	P	613.0	633.0	6.0	A	20.0	--	1.0	560.0 (D)	07/07/86	H	
18S/11E-06DBB	17000127	DANIEL, BOB	07/14/90	440234	1212708	4430	890.0	8.0	X	780.0	890.0	6.0	A	9.0	--	1.0	786.0 (D)	07/14/90	H	
18S/11E-13ACD	17005247	SMITH, R. H.	10/31/69	440059	1212056	3841	363.0	8.0	X	26.0	363.0	8.0	B	12.0	0.0	1.0	347.0 (D)	10/31/69	H	
18S/11E-13BDC	17000881	OLIPHANT, DINNIS	05/11/91	440059	1212124	3915	505.0	8.0	P	479.0	499.0	6.0	--	--	--	--	423.8	12/17/93	H	
18S/11E-21CDD	17005258	BABLER BROS.	05/18/81	435937	1212450	4060	520.0	10.0	P	394.0	509.0	8.0	P	300.0	133.0	1.0	296.7	12/16/93	I	R,H6,GD
									X	509.0	520.0	8.0								
18S/11E-22CAD	17000737	UTILITY SERVICE CO., INC.	12/14/90	435950	1212341	3975	435.0	12.0	S	319.0	419.0	8.0	A	630.0	20.0	1.0	304.0 (D)	12/14/90	A	
									X	419.0	435.0	8.0								
18S/11E-22CDA1	17005260	CONDOMINIUMS NORTHWEST	06/18/69	435944	1212339	3999	450.0	8.0	P	260.0	280.0	8.0	B	28.0	0.5	3.0	245.0 (D)	07/18/69	P	
									X	280.0	450.0	8.0								
18S/11E-22CDA2	17005259	INN OF THE SEVENTH MOUNTAIN	07/14/75	435946	1212341	3990	387.0	10.0	P	280.0	380.0	8.0	B	14.0	0.0	1.0	247.0 (D)	07/14/75	P	
									X	380.0	387.0	10.0								
18S/11E-22CDA3	17000738	DISTRICT UTILITY SERVICES	11/29/90	435945	1212341	4005	457.0	16.0	S	377.0	437.0	16.0	P	550.0	51.0	96.0	265.0 (D)	11/29/90	A	
									X	437.0	457.0	16.0								
18S/11E-23AAA	17005307	REGAN, CLAYTON J.	05/02/67	440027	1212150	3820	180.0	6.0	X	18.0	180.0	6.0	B	8.0	4.0	2.0	147.8	01/26/78	H	
18S/11E-23ACD	17005302	JANTZE, CURTIS	07/23/68	440009	1212212	3901	408.0	6.0	P	396.0	407.0	6.0	B	5.0	0.0	2.0	396.0 (D)	11/22/68	H	
18S/11E-23CAC	17005332	CENIGA, MONTY	09/19/77	435951	1212239	3903	310.0	8.0	X	19.0	310.0	8.0	B	12.0	10.0	1.0	258.6	09/08/93	H	
18S/11E-23CAD1	17005318	SLINCHAK, RICHARD	09/07/73	435956	1212229	3925	430.0	8.0	X	70.0	430.0	8.0	B	15.0	1.0	1.0	420.1	09/09/93	H	
18S/11E-23CAD2	17001217	HELM, HARVEY	09/04/91	435954	1212232	3905	450.0	8.0	P	410.0	450.0	5.0	A	35.0	--	1.0	392.0 (D)	09/04/91	H	
18S/11E-23CBC	17005298	ROBAUGH, JOHN W.	06/25/73	435950	1212251	3900	300.0	6.0	X	85.0	300.0	6.0	A	25.0	20.0	1.0	280.0 (D)	06/25/73	H	
18S/11E-23CBD	17005305	BORCHERS, EARL	08/11/75	435952	1212248	3896	300.0	6.0	X	21.0	300.0	6.0	A	15.0	--	--	242.0 (D)	08/11/75	H	
18S/11E-23CCB1	17005330	COOK, MARION L.	03/19/77	435949	1212252	3903	280.0	6.0	X	46.0	280.0	6.0	A	15.0	1.0	1.0	245.0 (D)	03/19/77	H	
18S/11E-23CCB2	17000498	RYNEAL, BRUCE	02/08/78	435948	1212254	3902	278.0	6.0	X	160.0	278.0	6.0	A	15.0	2.0	1.0	217.5	09/01/94	H	Q,H6
18S/11E-23CDA	17005329	BETTENCOURT, CHARLES	12/19/74	435947	1212230	3925	445.0	6.0	P	420.0	440.0	5.0	A	10.0	2.0	1.0	409.0 (D)	12/19/74	H	D
18S/11E-23DBD	17005304	BRIDGES, BERNARD	10/11/75	435950	1212214	3958	495.0	8.0	P	455.0	495.0	6.0	B	4.0	0.0	1.0	448.7	02/16/78	H	
18S/11E-23DCC	17005335	COSTA, ROBERT L.	03/15/77	435938	1212215	3925	442.0	6.0	X	20.0	442.0	6.0	A	20.0	5.0	2.0	361.9	01/27/78	H	
18S/11E-23ddb	17005323	JARVIS, ALEXANDER N.	08/06/70	435946	1212201	3940	370.0	8.0	X	90.0	370.0	8.0	B	15.0	2.0	2.0	348.0 (D)	08/06/70	H	
18S/11E-24ABC	17005359	CURTZ, WILLIAM E.	02/24/77	440019	1212102	3890	416.0	12.0	X	45.0	416.0	8.0	B	12.0	0.0	2.0	396.4	12/28/93	H	
18S/11E-24ACA1	17005356	PADGETT, BILL	06/03/75	440013	1212056	3899	425.0	8.0	X	20.0	420.0	11.0	P	10.0	0.0	4.0	392.0	06/05/75	H	
18S/11E-24ACA2	17005354	MARTIN, GLEN	10/18/72	440012	1212056	3899	406.0	8.0	X	97.0	406.0	6.0	B	10.0	0.0	2.0	391.0 (D)	10/25/72	U	
18S/11E-24ADB	17005357	MOSS, JERRY	07/14/75	440011	1212051	3892	420.0	6.0	P	370.0	420.0	6.0	B	12.0	0.0	2.0	393.5	01/25/78	H	
18S/11E-24ADC	17005358	SIMON, LARRY	10/27/77	440007	1212049	3895	310.0	8.0	X	96.0	310.0	6.0	A	10.0	4.0	2.0	275.0 (D)	10/27/77	H	
18S/11E-24BDD	17005353	SHULL, JOE	04/29/73	440008	1212118	3905	285.0	8.0	P	265.0	285.0	6.0	B	20.0	6.0	1.5	205.9	03/18/94	H	
18S/11E-24CBD	17005360	ERFURT, DAVID	02/17/77	435953	1212133	3895	410.0	8.0	X	55.0	410.0	8.0	B	20.0	0.0	2.0	380.0 (D)	02/17/77	H	
18S/11E-24CCC	17005394	PAPLINSKI, KENNETH	02/05/74	435939	1212140	3900	345.0	8.0	X	65.0	345.0	8.0	B	20.0	5.0	1.0	327.6	11/17/77	H	
18S/11E-25AAB	17005401	MORGAN, PAUL	10/28/76	435933	1212046	3923	421.0	6.0	X	19.0	421.0	6.0	A	10.0	1.0	1.0	401.6	11/11/77	H	
18S/11E-25ACC	17005376	COURTS, WARREN	03/16/77	435914	1212106	3920	445.0	6.0	X	21.0	445.0	6.0	B	10.0	0.0	2.0	395.0 (D)	03/16/77	H	
18S/11E-25ADA	17005378	DALE, JACK J.	10/02/75	435922	1212041	3929	430.0	6.0	X	265.0	430.0	6.0	B	10.0	1.0	10.0	412.0 (D)	10/02/75	H	
18S/11E-25BCB	17005397	CROUT, A. C.	10/07/74	435920	1212141	3924	380.0	6.0	X	21.0	380.0	6.0	B	15.0	8.0	1.0	303.0 (D)	10/07/74	H	
18S/11E-25CAC	17005407	MUNHALL, SUZANNE	10/03/73	435901	1212128	3942	395.0	6.0	X	60.0	395.0	6.0	A	10.0	9.0	1.0	372.0 (D)	10/04/73	H	
18S/11E-25CDB	17005404	WILLIAMS, MATHEW M.	10/07/73	435856	1212123	3934	245.0	6.0	X	23.0	245.0	6.0	P	20.0	15.0	1.0	185.0	12/29/93	H	
18S/11E-25DAA	17005420	CORNWELL, DONALD L.	06/05/76	435905	1212037	3939	406.0	6.0	X	20.0	406.0	6.0	B	10.0	0.0	1.0	385.1	11/15/77	H	
18S/11E-25DAB	17005384	PORTER, GEROLD	12/29/66	435905	1212053	3919	412.0	6.0	X	33.0	195.0	6.0	P	20.0	2.0	36.0	385.0 (D)	12/30/66	P	
									X	365.0	412.0	6.0								
18S/11E-25DBC	17005418	FELGER, A. J.	12/06/74	435900	1212103	3919	415.0	6.0	X	20.0	415.0	6.0	A	10.0	3.0	1.0	389.0 (D)	12/07/74	H	
18S/11E-25DBD	17005410	HAGEN, ROBERT	10/01/76	435859	1212059	3918	430.0	8.0	X	20.0	430.0	8.0	B	15.0	0.0	2.0	390.5	10/01/76	I	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level		Use	Remarks		
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum			Date	
59	18S/11E-25DCA1	17005413	OGLE, RALPH	07/22/76	435856	1212054	3918	440.0	6.0	X	19.0	440.0	6.0	A	15.0	0.0	1.5	387.0 (D)	07/22/76	H	
	18S/11E-25DCA2	17005412	KOLLEN, J. K.	10/18/76	435852	1212055	3919	442.0	6.0	X	19.0	442.0	6.0	A	10.0	3.0	1.0	389.0 (D)	10/17/76	H	
	18S/11E-25DCB	17005377	SCANZANO, SAL	04/07/76	435856	1212106	3924	427.0	6.0	X	20.0	427.0	6.0	A	10.0	3.0	--	398.0 (D)	04/07/76	U	
	18S/11E-26ACC	17005486	KNAPP, HOMER	10/27/75	435917	1212222	3938	275.0	6.0	X	40.0	275.0	6.0	A	10.0	5.0	1.0	228.0 (D)	10/27/75	H	
	18S/11E-26ADC	17005383	HEAD, HERBERT	06/04/71	435912	1212157	3937	283.0	8.0	X	22.0	283.0	8.0	B	20.0	0.0	1.5	261.3	12/29/93	H	
	18S/11E-26ADD	17005459	HEAD, HERBERT	04/20/76	435912	1212150	3926	456.0	6.0	X	21.0	456.0	6.0	A	10.0	2.0	--	407.3	11/17/77	I	
	18S/11E-26BCB	17005464	CAMP, TIM	12/22/76	435918	1212259	3940	216.0	6.0	X	20.0	216.0	6.0	A	15.0	4.0	1.0	176.0 (D)	12/22/76	U	
	18S/11E-26BDB	17005466	SARGENT, FRANK O.	06/10/77	435922	1212239	3927	230.0	6.0	X	20.0	230.0	6.0	A	15.0	2.0	1.0	180.7	10/09/77	H	
	18S/11E-26CAA	17005496	CORMIER, FRANK	11/11/70	435909	1212232	3937	228.0	8.0	X	46.0	228.0	8.0	B	20.0	10.0	2.0	183.0 (D)	11/11/70	H	
	18S/11E-26CAB	17005469	FINELL, TORGVN	12/18/73	435911	1212236	3938	242.0	6.0	X	34.0	242.0	6.0	A	20.0	10.0	2.0	178.0 (D)	12/18/73	H	
	18S/11E-26CAD	17000511	EDWARDS, MARVIN D.	06/15/77	435859	1212228	3961	250.0	6.0	X	20.0	250.0	6.0	A	10.0	5.0	1.5	214.5	11/09/77	H	
	18S/11E-26DAA	17005494	SMITH, LAURENCE T.	06/28/74	435910	1212156	3934	415.0	6.0	P	373.0	415.0	5.0	B	7.5	0.0	1.0	388.6	12/29/93	H	D
	18S/11E-26ddb	17005487	BEVER, CARL	11/08/71	435855	1212206	3980	297.0	8.0	X	260.0	297.0	8.0	B	10.0	0.0	1.0	280.0 (D)	11/08/71	H	
	18S/11E-27AAB	17000509	CHAMBERLIN, ROBERT	06/08/74	435931	1212315	3944	285.0	8.0	X	160.0	285.0	6.0	A	15.0	25.0	1.0	260.0 (D)	06/08/74	H	
	18S/11E-27AAC1	17005516	HALLER, JOHN	07/21/69	435926	1212315	3947	233.0	5.0	P	182.0	198.0	5.0	B	12.0	1.0	1.0	209.0 (D)	12/18/69	H	D
										P	192.0	230.0	5.0								
	18S/11E-27AAC2	17005514	JUONI, SULO J.	06/04/72	435929	1212316	3945	223.0	8.0	X	34.0	223.0	8.0	B	25.0	0.0	1.0	219.0	11/08/77	H	
	18S/11E-27AAD	17001285	BRINES, TIMOTHY	04/16/92	435928	1212304	3945	272.0	8.0	P	252.0	272.0	6.0	A	20.0	--	1.0	229.0	12/29/93	H	
	18S/11E-27ACD	17009163	KRAUSE, BOB	03/22/94	435915	1212323	3960	205.0	8.0	P	185.0	205.0	6.0	A	20.0	--	1.0	159.0 (D)	03/22/94	H	
	18S/11E-27BCB1	17005526	CITY OF BEND	07/26/68	435921	1212407	3942	300.0	12.0	X	142.0	300.0	8.0	P	310.0	9.0	12.0	137.0 (D)	05/14/69	U	GA
	18S/11E-27BCB2	17005524	CITY OF BEND	08/15/68	435918	1212411	3941	405.0	16.0	P	228.0	300.0	12.0	P	460.0	104.0	30.0	163.3	09/01/94	U	O,H7
										X	310.0	405.0	12.0								
	18S/11E-36ACB	17005539	DESCHUTES COUNTY	04/04/68	435830	1212112	3937	365.0	10.0	X	40.0	365.0	8.0	B	20.0	0.0	1.5	338.7	09/03/94	U	O,H7
	18S/11E-36BBC	17005550	BAIR, FLOYD	10/15/72	435835	1212140	3955	302.0	8.0	X	28.0	302.0	8.0	B	20.0	10.0	2.0	261.0 (D)	10/11/72	H	
	18S/11E-36CAA	17005547	DAGGETT, FRED	06/03/75	435818	1212120	3938	355.0	6.0	X	26.0	355.0	6.0	--	--	--	--	329.0 (D)	06/09/75	H	
	18S/11E-36DAB	17005546	DESCHUTES RIVER WOODS	01/02/63	435819	1212053	3942	31.0	6.0	X	11.0	31.0	6.0	B	8.0	3.0	1.0	DRY (D)	11/10/77	X	
	18S/11E-36DBA	17005553	WITTENBURG, GUS	07/06/71	435818	1212054	3941	365.0	8.0	X	70.0	365.0	8.0	B	5.0	0.0	2.0	350.2	11/10/77	H	
	18S/11E-36DBB1	17000514	ROGERS, RAY L.	12/13/76	435816	1212109	3953	402.0	6.0	X	21.0	402.0	6.0	A	15.0	3.0	1.0	356.9	12/29/93	H	
	18S/11E-36DBB2	17005419	ORECK, ARNOLD	09/30/76	435818	1212106	3950	370.0	8.0	X	40.0	370.0	8.0	B	10.0	0.0	1.0	350.0 (D)	09/30/76	H	
	18S/11E-36DCD	17005541	CAFFEY, T. W.	10/08/75	435754	1212103	4001	400.0	6.0	X	20.0	400.0	6.0	A	10.0	5.0	1.0	345.0 (D)	10/08/75	H	
	18S/12E-01BAD	17005557	RAMSAY, PAUL	06/08/71	440255	1211402	3636	719.0	8.0	P	701.0	719.0	6.0	B	5.0	0.0	1.0	695.0 (D)	06/08/71	P	
	18S/12E-01BBD	17005559	M.R.S. INC.	09/10/72	440227	1211346	3694	762.0	8.0	X	34.0	762.0	8.0	B	8.0	0.0	2.0	741.0	09/22/94	P	Q,H6
	18S/12E-02BCD	17005561	KITTRIDGE, WALTER	01/20/67	440241	1211535	3680	720.0	10.0	P	617.0	677.0	6.0	B	10.0	0.0	2.0	655.0 (D)	04/17/71	U	D
										X	677.0	720.0	6.0								
	18S/12E-03BAA1	17005570	RAMSAY, PAUL	06/24/66	440302	1211625	3662	--	8.0	--	--	--	--	P	40.0	6.0	72.0	233.8	12/30/93	P	D
	18S/12E-03BAA2	17005569	RAMSAY, PAUL	03/25/68	440301	1211623	3659	636.0	8.0	P	612.0	636.0	6.0	B	10.0	0.0	1.0	614.0 (D)	03/25/68	P	
	18S/12E-03DDC	17005572	AVION WATER CO.	03/14/74	440216	1211559	3692	690.0	8.0	P	640.0	680.0	6.0	B	10.0	0.0	1.0	640.0 (D)	03/14/74	U	R,H6
	18S/12E-05BCA	17005578	CITY OF BEND	01/23/78	440251	1211908	3615	800.0	24.0	X	706.0	800.0	10.0	P	2000.0	185.0	17.0	242.0 (D)	03/21/78	P	
	18S/12E-05BDB1	17005576	SCANLON, BROOKS	01/04/57	440247	1211901	3620	902.0	16.0	X	645.0	902.0	--	--	--	--	--	351.9	08/14/79	U	GA
	18S/12E-05BDB2	17005577	CITY OF BEND	04/27/72	440249	1211904	3615	900.0	24.0	X	637.0	700.0	16.0	P	1837.0	4.0	24.0	564.0 (D)	04/05/72	P	
										X	700.0	900.0	12.0								
	18S/12E-05CCC1	17005584	RAMSAY, PAUL	09/09/72	440216	1211920	3638	258.0	10.0	P	198.0	258.0	8.0	P	250.0	0.0	72.0	194.7	12/30/93	U	Q,R,H6,GD
	18S/12E-05CCC2	17005583	RAMSAY, PAUL	09/09/72	440216	1211920	3639	257.0	10.0	P	197.0	257.0	8.0	P	250.0	0.0	72.0	190.9	10/04/78	P	
	18S/12E-06CCC	17005580	RECREATION DISTRICT	09/12/79	440220	1212032	3740	367.0	10.0	P	314.0	346.0	8.0	B	15.0	0.0	1.0	314.0 (D)	09/12/79	I	
										X	350.0	367.0	10.0								
	18S/12E-07BBB	17005585	M.R.S. INC.	11/26/77	440208	1212031	3820	311.0	10.0	X	58.0	311.0	10.0	P	1087.0	--	3.0	254.0 (D)	03/04/78	P	D
	18S/12E-07DBD1	17001738	CITY OF BEND	04/29/93	440140	1211944	3835	800.0	12.0	X	548.0	800.0	12.0	A	800.0	--	1.0	402.5 (D)	04/29/93	P	
	18S/12E-07DBD2	17009108	CITY OF BEND	12/05/90	440141	1211940	3831	812.0	12.0	P	417.0	496.0	12.0	P	550.0	24.0	24.0	376.0 (D)	12/08/90	P	A
										X	496.0	812.0	8.0								

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
18S/12E-07DCC	17005632	RAMSAY, PAUL	01/29/69	440122	1211952	3813	355.0	8.0	P	335.0	355.0	6.0	B	5.0	0.0	1.0	343.0 (D)	10/02/69	P	D
18S/12E-07DDD1	17005634	ROATS, W. E.	11/14/74	440122	1211930	3835	429.0	10.0	X	27.0	429.0	10.0	B	15.0	0.0	1.0	393.3	02/17/78	P	
18S/12E-07DDD2	17008543	ROATS WATER SYSTEM	09/03/93	440124	1211928	3822	500.0	10.0	P	460.0	500.0	10.0	--	--	--	--	394.9	03/24/94	P	
18S/12E-10ADA	17005597	FRONBARGER, B.	06/24/71	440156	1211553	3688	750.0	8.0	X	18.0	750.0	8.0	B	10.0	0.0	2.0	704.9	01/14/94	P	GD
18S/12E-10BBB	17005598	AVION WATER CO.	07/12/74	440211	1211654	3730	660.0	8.0	P	618.0	658.0	6.0	B	25.0	0.0	1.0	588.3	01/14/94	P	
18S/12E-12DDA	17005600	MCCORD, BRUCE	08/21/82	440129	1211328	3720	800.0	8.0	X	18.0	800.0	8.0	B	5.0	35.0	1.0	765.0 (D)	08/21/82	H	
18S/12E-13ACB	17005602	MAYER, BILL	04/02/81	440103	1211352	3765	823.0	8.0	X	19.0	823.0	8.0	A	5.0	2.0	--	783.0 (D)	04/02/81	H	
18S/12E-15ADC	17005608	HANSEN, RODNEY	08/29/86	440056	1211557	3715	722.0	8.0	P	688.0	708.0	6.0	P	22.0	--	1.0	664.0 (D)	08/29/86	H	
18S/12E-16BCC1	17005616	WARD, JAN	04/05/70	440101	1211809	3765	437.0	6.0	P	335.0	435.0	6.0	P	90.0	0.0	480.0	347.0 (D)	04/05/70	P	A
18S/12E-16BCC2	17005614	WARD CONSTRUCTION	07/26/74	440100	1211809	3765	513.0	10.0	P	350.0	500.0	8.0	A	100.0	--	1.0	388.0 (D)	07/26/74	P	
18S/12E-16BCC3	17005613	WARD, J. A.	06/26/74	440101	1211810	3765	417.0	12.0	P	330.0	410.0	12.0	P	1500.0	--	--	335.0 (D)	06/26/74	P	A
									X	410.0	417.0	16.0								
18S/12E-16BCD	17005610	WARD, J. L.	04/05/89	440057	1211801	3758	415.0	14.0	P	315.0	415.0	10.0	A	100.0	--	1.0	318.0 (D)	04/05/89	I	
18S/12E-17BAA	17005620	ROATS, W.E.	07/10/60	440117	1211849	3783	360.0	10.0	X	34.0	360.0	10.0	B	20.0	0.0	1.0	346.0 (D)	03/26/71	P	D
18S/12E-17CCC	17005617	INCE, JIM C	09/28/68	440033	1211913	3850	406.0	8.0	X	243.0	406.0	6.0	B	12.0	0.0	1.5	387.0 (D)	09/28/68	H	
18S/12E-17DCB	17000525	BEND GOLF CLUB	07/22/73	440036	1211840	3800	377.0	10.0	X	27.0	377.0	10.0	B	25.0	0.0	2.0	341.0 (D)	07/22/73	I	
18S/12E-18BBB	17005627	FLANNERY, RANDALL	08/15/88	440116	1212029	3855	405.0	6.0	P	385.0	405.0	5.0	A	20.0	--	1.0	373.7	03/24/94	H	
18S/12E-18DBB1	17005587	AVION WATER CO.	03/11/76	440052	1211957	3835	388.0	8.0	X	22.0	388.0	10.0	B	10.0	0.0	1.0	349.0 (D)	03/11/76	P	
18S/12E-18DBB2	17005628	AVION WATER CO.	07/25/78	440053	1211956	3834	376.0	8.0	X	25.0	376.0	8.0	B	9.0	0.0	1.0	352.0	10/04/78	U	
18S/12E-18DDA	17005631	AVION WATER CO.	03/25/69	440038	1211931	3823	365.0	8.0	P	345.0	365.0	8.0	B	15.0	0.0	1.0	354.0 (D)	03/25/69	P	
18S/12E-19AAC1	17005640	AVION WATER CO.	02/18/80	440016	1211937	3905	440.0	12.0	X	26.0	440.0	12.0	B	10.0	0.0	1.0	388.0 (D)	02/18/80	P	
18S/12E-19AAC2	17004143	AVION WATER CO.	07/05/93	440017	1211937	3905	447.0	14.0	P	407.0	447.0	12.0	A	50.0	--	1.0	390.0 (D)	07/05/93	P	
18S/12E-19BAA	17005649	STANBRO	12/07/68	440024	1212004	3850	375.0	6.0	X	300.0	375.0	6.0	B	10.0	0.0	4.0	356.9	01/25/78	U	
18S/12E-19BDD	17005646	BUGGE, M. H.	01/10/75	440006	1212007	3877	445.0	8.0	X	265.0	445.0	6.0	A	20.0	35.0	2.0	410.0 (D)	01/13/75	H	
18S/12E-19CCB1	17005651	LISEBERGER, W.	09/08/76	435946	1212028	3919	390.0	8.0	X	20.0	390.0	8.0	B	10.0	0.0	2.0	370.0 (D)	09/08/76	H	
18S/12E-19CCB2	17000876	FOWLER, MARION	04/30/91	435949	1212027	3915	500.0	8.0	P	440.0	460.0	6.0	A	20.0	--	1.0	418.0 (D)	04/30/91	H	C
18S/12E-19CCC	17005647	VIERRA, LAWRENCE R.	04/06/76	435940	1212029	3930	433.0	6.0	X	19.0	433.0	6.0	B	8.0	0.0	1.0	415.4	11/11/77	H	D
18S/12E-20ADA	17005656	WARD CONSTRUCTION	06/05/74	440012	1211814	3860	463.0	10.0	X	400.0	460.0	8.0	B	20.0	0.0	3.0	415.2	08/16/79	U	
18S/12E-20BBD	17005658	WARD CONSTRUCTION	6/05/78	440020	1211908	3864	462.0	12.0	P	393.0	443.0	12.0	B	25.0	0.0	1.0	400.2	09/01/94	U	Q,H6,D
									X	443.0	462.0	12.0								
18S/12E-21ADD	17005661	AVION WATER CO.	10/02/74	440007	1211704	3805	430.0	8.0	X	375.0	425.0	6.0	B	6.0	0.0	1.0	374.0 (D)	10/02/74	P	
18S/12E-22DDA	17005662	WILKEN, MIKE	02/06/87	435950	1211554	3855	860.0	8.0	P	820.0	860.0	6.0	P	10.0	0.0	2.0	745.0 (D)	02/06/87	H	
18S/12E-23CBD	17005667	BUCHANAN, FRED	10/02/79	435956	1211530	3820	800.0	8.0	X	20.0	800.0	8.0	P	10.0	0.0	1.0	740.0 (D)	10/02/79	H	
18S/12E-24CBA	17005670	ROGERS, STEVE	02/26/80	435958	1211419	3765	768.0	8.0	X	26.0	768.0	8.0	B	8.0	1.0	4.0	740.0 (D)	02/26/80	H	
18S/12E-24CDD	17005672	ESTES, BRUCE	03/04/77	435939	1211401	3800	560.0	8.0	X	300.0	560.0	6.0	--	--	--	--	--	--	U	
18S/12E-25BDB	17000529	ELLIOT, GENE	09/20/89	435918	1211409	3857	865.0	8.0	P	840.0	860.0	6.0	B	8.0	--	1.0	828.0 (D)	09/20/89	H	
									X	860.0	865.0	8.0								
18S/12E-27BCA	17000008	SMITH, VERN	04/12/90	435917	1211648	3895	585.0	8.0	X	475.0	585.0	8.0	A	25.0	--	1.0	457.6	03/25/94	H	
18S/12E-28ADA	17005684	JOUNOGAN, ROBERT J.	01/26/76	435924	1211708	3870	460.0	6.0	X	19.0	460.0	8.0	B	10.0	--	--	--	--	H	
18S/12E-28BAC	17005686	WHITE, KELLY	07/05/71	435930	1211746	3938	507.0	6.0	X	496.0	507.0	6.0	B	10.0	1.0	1.5	487.0 (D)	05/26/72	P	D
18S/12E-28BBD	17000831	ROATS WATER SYSTEM	03/13/91	435924	1211754	3962	598.0	10.0	P	558.0	598.0	10.0	--	--	--	--	555.0 (D)	03/13/94	P	
18S/12E-28BDD	17005688	M.R.S. INC.	02/12/74	435916	1211743	4005	581.0	10.0	X	40.0	581.0	10.0	P	110.0	0.0	--	555.0 (D)	02/12/74	P	
18S/12E-30BBC	17005690	PARNELL, JIM	04/06/89	435924	1212032	3935	490.0	8.0	P	466.0	486.0	6.0	A	12.0	0.0	2.0	422.0 (D)	04/06/89	H	
18S/12E-30BDD	17005692	KEAST, ARTHUR	10/31/65	435926	1212020	3925	434.0	6.0	X	20.0	345.0	6.0	B	20.0	1.0	4.0	407.0	11/18/77	P	D
									X	385.0	434.0	6.0								
18S/12E-31CCD	17005697	OREGON HIGH DESERT MUSEUM	08/01/80	435756	1212020	4030	592.0	8.0	P	516.0	532.0	8.0	A	75.0	--	1.0	440.0 (D)	08/01/80	H	
									P	542.0	550.0	8.0								
									X	560.0	592.0	8.0								
18S/12E-31DCA	17009399	KERR, DON	07/26/94	435801	1211941	4125	670.0	8.0	P	645.0	665.0	6.0	P	20.0	0.0	12.0	561.0 (D)	07/21/94	H	
18S/13E-01CCD	17005701	MASSEY, M.	03/12/79	440215	1210709	3495	900.0	8.0	X	230.0	900.0	8.0	P	15.0	0.0	4.0	825.0	03/12/79	U	GA

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
18S/13E-02BBD	17001408	SPARROW, BOB	07/03/92	440254	1210816	3489	780.0	8.0	P	--	--	6.0	--	--	--	--	724.0 (D)	07/03/92	H	
18S/13E-04CDB	17005703	SCHAUB, GARY	01/16/81	440221	1211035	3600	718.0	8.0	X	640.0	703.0	8.0	P	10.0	0.0	1.0	693.0 (D)	02/23/81	H	D
									X	703.0	718.0	6.0								
18S/13E-10AAC	17005709	PINE MT CATTLE	05/25/78	440200	1210848	3570	875.0	6.0	X	95.0	875.0	6.0	--	--	--	--	770.9	03/27/79	H	GA,D
18S/13E-10BCD	17001139	KENNEL, DEL	12/11/91	440148	1210926	3593	840.0	8.0	X	19.0	840.0	8.0	A	14.0	--	1.0	710.0 (D)	12/11/91	H	
18S/13E-11DAA	17005715	U.S. DEPT. OF ARMY	01/10/85	440133	1210751	3549	911.0	8.0	S	881.0	906.0	8.0	P	77.0	2.0	4.0	757.0 (D)	01/10/85	H	
18S/13E-12DBD	17001265	HOWE, LINDA	03/13/92	440136	1210626	3458	775.0	8.0	P	755.0	775.0	6.0	A	15.0	--	1.0	670.0 (D)	03/13/92	H	
18S/13E-18BCA	17000532	FOX, JOHN	09/10/80	440104	1211302	3748	845.0	6.0	P	800.0	845.0	5.0	B	7.0	0.0	1.0	800.0 (D)	09/10/80	H	
18S/13E-19BAA	17005719	CORNELIUS, PIERCE	10/22/80	440024	1211248	3790	933.0	8.0	X	19.0	933.0	8.0	A	5.0	--	2.0	855.0 (D)	10/22/80	H	
18S/13E-20ABC	17005720	PRUITT, HARL	03/28/77	440019	1211129	3757	940.0	8.0	X	87.0	940.0	8.0	B	30.0	0.0	2.0	843.3	09/01/94	H	Q,H6
18S/13E-20ADC	17005721	CONLEY, GORDON	01/27/81	440006	1211113	3758	893.0	8.0	X	20.0	893.0	8.0	A	7.0	0.0	2.0	847.0 (D)	01/27/81	H	
18S/13E-22BAA	17005722	SIMPSON AND ASSOCIATES	02/11/78	440025	1210916	3675	840.0	8.0	X	20.0	840.0	8.0	B	5.0	0.0	1.0	800.0 (D)	02/11/78	P	
18S/13E-23ACD	17000104	LAGLER, JOHN	07/14/90	440005	1210745	3655	975.0	8.0	X	18.0	975.0	8.0	--	--	--	--	910.0 (D)	07/14/90	H	
18S/13E-24DCB	17009222	BARNES, DARRELL	04/26/94	435944	1210658	3612	925.0	8.0	P	885.0	925.0	6.0	A	17.0	17.0	1.0	850.0 (D)	04/26/94	H	
18S/13E-29ABC	17005724	CAMEROND, CLIFF	06/01/68	435923	1211134	3814	705.0	8.0	X	20.0	705.0	8.0	--	--	--	--	DRY (D)	06/01/68	U	
18S/13E-31ABC1	17005726	CLAWSON, GARY	07/07/72	435832	1211240	3891	910.0	8.0	P	870.0	910.0	6.0	B	4.0	0.0	2.0	856.0 (D)	07/07/72	P	
18S/13E-31ABC2	17005725	CLAWSON, GARY	01/01/76	435832	1211238	3889	925.0	8.0	P	850.0	925.0	6.0	B	4.0	0.0	2.0	855.0 (D)	01/01/76	P	
18S/14E-08DDD	17005727	KNIGHT, GORDON	06/19/81	440119	1210405	3453	763.0	8.0	X	40.0	763.0	8.0	A	15.0	2.0	3.0	706.0 (D)	06/19/81	H	
19S/08E-05ACB	17005730	DESCHUTES NATIONAL FOREST	09/24/88	435742	1214745	4910	110.0	6.0	P	80.0	100.0	6.0	A	20.0	--	1.0	38.3	09/23/94	R	
									X	100.0	110.0	8.0								
19S/08E-05ADA	17009657	DESCHUTES NATIONAL FOREST	08/12/74	435739	1214717	4980	150.0	8.0	X	30.0	250.0	8.0	--	--	--	--	-- (D)	--	U	
19S/08E-21DAA	17005732	FRAZEE, JIM E.	06/24/82	435451	1214603	4750	200.0	6.0	X	19.0	200.0	6.0	P	30.0	0.0	1.0	150.0 (D)	06/24/82	H	
19S/08E-22CBC	17009705	DESCHUTES NATIONAL FOREST	08/13/74	435448	1214553	4750	250.0	6.0	P	230.0	250.0	6.0	P	35.0	30.0	8.0	180.5	09/23/94	R	
19S/08E-22CDB	17005738	AGRICULTURE-FOREST	06/20/67	435436	1214541	4750	74.0	8.0	X	22.0	74.0	8.0	P	38.0	31.5	2.5	8.5 (D)	06/20/67	R	
19S/11E-16ACC	17005741	U.S.FOREST SERVICE	06/28/79	435548	1212449	4187	247.0	6.0	X	232.0	247.0	6.0	B	40.0	0.0	1.5	55.0	04/13/94	U	R,H6,GD
19S/11E-20BCA	17006393	SUNRIVER	09/29/71	435457	1212631	4169	63.0	8.0	X	50.0	63.0	8.0	B	60.0	1.0	1.0	45.9	04/14/94	P	
19S/11E-24CDA	17005743	DESCHUTES NATIONAL FOREST	03/18/69	435433	1212121	4505	508.0	16.0	P	457.0	507.0	10.7	P	135.0	0.0	8.0	401.1	09/01/94	R	O,H7
19S/11E-29AAD	17005744	SUNRIVER UTILITIES INC.	07/25/85	435412	1212530	4175	558.0	14.0	P	216.0	264.0	12.0	P	1850.0	93.0	2.0	37.0	04/14/94	P	
									P	284.0	304.0	12.0								
									P	344.0	364.0	12.0								
									P	384.0	484.0	12.0								
									X	484.0	558.0	8.0								
19S/11E-29ACB	17005745	SUNRIVER PROPERTIES	08/03/79	435409	1212606	4172	188.0	14.0	P	47.0	87.0	12.0	B	42.0	2.0	1.0	34.4	04/14/94	P	
									P	107.0	147.0	12.0								
									P	167.0	187.0	12.0								
19S/11E-29BDC	17005746	SUNRIVER INC.	07/13/72	435405	1212622	4169	180.0	8.0	X	45.0	180.0	8.0	B	60.0	0.5	1.0	24.2	11/03/77	P	
19S/11E-31CAD	17005747	SUNRIVER PROPERTIES	06/29/68	435255	1212721	4155	70.0	6.0	X	54.0	70.0	6.0	B	40.0	15.0	1.5	3.5	11/03/77	P	
19S/11E-31CDD	17000562	SUNRIVER INC.	06/23/71	435242	1212721	4156	70.0	8.0	X	68.0	70.0	8.0	B	60.0	14.0	1.0	4.5	04/14/94	I	
19S/11E-32CAB	17001134	BARNES, DONALD	11/25/91	435301	1212617	4165	45.0	6.0	P	35.0	40.0	6.0	P	30.0	12.0	4.0	17.0	04/14/94	H	
19S/11E-32CCA	17005749	SUNRIVER PROPERTIES	01/01/43	435251	1212628	4160	266.0	12.0	X	254.0	266.0	12.0	P	1200.0	43.5	4.0	6.7	01/22/71	P	C
19S/11E-32CDA	17005748	SUNRIVER PROPERTIES	07/13/73	435250	1212612	4165	32.0	6.0	X	26.0	32.0	6.0	A	50.0	4.0	1.0	13.0 (D)	07/13/73	I	
19S/14E-02DAA1	17005750	MOON, EUGENE	12/20/86	435709	1210028	3579	931.0	8.0	X	20.0	931.0	8.0	B	10.0	--	1.0	850.0 (D)	12/20/86	H	C
19S/14E-02DAA2	17009126	HOOKEER CREEK RANCH	02/14/94	435707	1210027	3579	1135.0	14.0	P	870.0	970.0	14.0	B	50.0	0.0	1.0	852.0 (D)	02/14/94	N	
									P	1090.0	1135.0	10.0								
19S/14E-04CBD	17005751	OREGONS STATE HWY. DEPT	02/01/88	435706	1210345	3705	1045.0	8.0	P	957.0	1036.0	6.0	P	100.0	0.0	1.0	961.8	03/04/94	U	
									X	1036.0	1045.0	8.0								

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
19S/14E-24DDA	17005752	CRANE, RAY	12/08/81	435423	1205910	4262	1260.0	8.0	X	19.0	1260.0	8.0	A	30.0	--	1.0	1181.0 (D)	12/08/81	H	C
19S/15E-33CCD	17001603	COYNNERS, EARL	12/16/92	435224	1205633	4265	407.0	8.0	P	330.0	347.0	6.0	A	12.0	--	1.0	356.2	04/18/94	H	
									X	347.0	407.0	7.5								
19S/15E-34CCD	17001371	BEHEE, PENELOPE	06/10/92	435222	1205518	4298	425.0	8.0	X	25.0	425.0	8.0	B	10.0	3.0	1.0	398.0 (D)	06/10/92	H	
19S/16E-16DCC	17005756	BUREAU OF LAND MANAGEMENT	10/24/63	435451	1204902	4518	1011.0	6.0	P	979.0	1008.0	5.0	B	6.0	0.0	1.0	970.0 (D)	10/24/63	U	
19S/16E-34DDD	17005757	COATS, R.L.	01/06/88	435221	1204711	4363	570.0	8.0	P	405.0	425.0	6.0	A	15.0	0.0	1.0	462.4	04/15/94	H	D
									X	480.0	570.0	6.0								
20S/07E-12DCB	17005758	AGRICULTURE, FOREST SERVICE	07/21/69	435004	1214959	4673	60.0	6.0	P	50.0	60.0	6.0	B	40.0	4.0	4.0	13.0 (D)	07/29/69	U	
20S/07E-24ABD	17000534	U.S. FOREST SERVICE	10/06/78	434945	1214953	4675	118.0	6.0	P	67.0	113.0	6.0	B	40.0	0.0	9.5	45.8	05/13/94	R	
20S/07E-24BAD	17004169	ROCKHOLT, KENT	07/09/93	434944	1215010	4680	100.0	6.0	P	60.0	100.0	6.0	B	35.0	--	1.0	29.1	04/20/94	P	
20S/07E-35BBD	17005764	AGRICULTURE, FOREST SERVICE	07/23/67	434804	1215143	4764	180.0	8.0	X	57.0	180.0	8.0	B	4.0	23.0	3.0	95.7	04/20/94	R	
20S/08E-04ABD	17005759	U.S. FOREST SERVICE	12/23/80	435227	1214626	4625	106.0	8.0	P	85.0	97.0	6.0	P	67.0	8.0	4.0	68.0 (D)	12/23/80	P	
									X	97.0	106.0	6.0								
20S/08E-10BBB	17005731	U.S. FOREST SERVICE	08/13/79	435141	1214552	4562	116.0	8.0	P	96.0	116.0	6.0	P	91.0	14.0	4.0	85.7	09/23/94	H	
20S/08E-34BDD	17005762	SCHATZ, PAT	07/14/78	434754	1214519	4445	73.0	6.0	P	46.0	73.0	6.0	B	35.0	0.0	1.0	8.3	04/20/94	P	
20S/08E-34CAB	17005761	U.S. FOREST SERVICE	11/10/87	434748	1214525	4459	90.0	6.0	P	39.0	79.0	6.0	P	100.0	5.0	4.0	27.4	05/13/94	R	
									X	79.0	90.0	8.0								
20S/10E-01CDA	17005796	HARNOIS, C.	07/22/67	435158	1212830	4182	38.0	6.0	O	38.0	38.0	6.0	B	30.0	3.0	3.0	10.7	10/31/77	H	
20S/10E-01CDC	17005779	KETTLE, DALE	09/14/73	435148	1212842	4184	50.0	6.0	X	33.0	50.0	6.0	B	10.0	8.0	1.0	12.0 (D)	09/14/73	H	
20S/10E-01DBA	17005786	PITMAN, PAUL	04/12/76	435212	1212818	4197	53.0	6.0	X	19.0	53.0	6.0	B	10.0	0.0	1.0	37.0	10/31/77	H	
20S/10E-01DBC1	17005800	HARNOIS, CRESTON M.	06/08/76	435200	1212827	4180	30.0	6.0	O	30.0	30.0	6.0	P	15.0	0.0	3.0	11.1	10/31/77	U	
20S/10E-01DBC2	17005801	VAN CLEAVE, DEWARD	06/09/76	435201	1212827	4180	30.0	6.0	O	30.0	30.0	6.0	B	15.0	0.0	3.0	12.0	10/30/77	U	
20S/10E-01DCA	17005797	HARNOIS, CRESTON M.	06/07/76	435159	1212827	4180	31.0	6.0	O	31.0	31.0	6.0	B	15.0	0.0	3.0	13.5	09/01/94	H	O,H7
20S/10E-01DCC1	17005789	MCDONALD, DOUG	11/07/72	435150	1212827	4182	70.0	6.0	O	70.0	70.0	6.0	B	15.0	--	--	--	--	H	
20S/10E-01DCC2	17005806	ZIDDLE, JAMES	05/25/76	435151	1212822	4182	103.0	6.0	X	87.0	103.0	6.0	B	10.0	0.0	1.0	30.0 (D)	05/25/76	H	
20S/10E-12AAA	17001479	MILLS, ALFRED & S.	09/04/92	435146	1212755	4170	85.0	10.0	X	69.0	85.0	6.0	P	30.0	24.6	5.0	13.4	05/30/94	H	
20S/10E-12BAB	17005830	DASEN, MICHEAL	09/04/87	435146	1212848	4189	36.0	6.0	P	31.0	36.0	5.0	P	30.0	7.0	1.0	28.0	09/30/94	H	
20S/10E-12BCD	17005872	PESTKA, WARREN	11/06/79	435121	1212852	4179	28.0	6.0	P	22.0	28.0	6.0	P	15.0	6.0	2.0	19.2	09/30/94	H	
20S/10E-12CCC	17008629	BENNETT, ROBIN	11/13/93	435100	1212905	4221	102.0	6.0	O	102.0	102.0	6.0	A	20.0	0.0	1.0	65.0 (D)	11/13/93	H	
20S/10E-13ABC	17005826	BARKS, DAVE	06/27/88	435044	1212839	4185	78.0	6.0	P	73.0	78.0	6.0	P	25.0	5.0	1.0	15.0 (D)	06/27/88	H	
20S/10E-13CCC	17001636	HINTON, ROBIN	02/22/93	435007	1212905	4190	98.0	6.0	P	88.0	97.0	6.0	P	15.0	3.0	4.0	15.0	05/30/94	H	
20S/10E-13DDC	17001656	W. W. I. D.	02/21/93	435007	1212804	4169	628.0	12.0	X	532.0	628.0	10.0	P	560.0	40.0	4.0	1.0	04/01/94	P	
20S/10E-23AAA	17000186	MCINTYRE, SCOTT	08/17/90	434956	1212913	4191	155.0	6.0	P	144.0	154.0	6.0	P	30.0	2.0	10.0	15.3	05/31/94	H	
20S/10E-24BBB	17001578	BROWN, RICHARD	11/18/92	435002	1212904	4187	100.0	6.0	P	89.0	99.0	6.0	P	15.0	12.0	4.0	16.1	03/31/94	H	
20S/10E-24BCB	17000771	MEYER, FRED & LINDA	02/14/91	434945	1212907	4178	130.0	6.0	P	120.0	130.0	6.0	P	25.0	5.0	8.0	15.6	03/31/94	H	
20S/10E-24BDA	17006068	FRAME, ROBERT	04/20/88	434945	1212834	4161	345.0	6.0	P	336.0	340.0	6.0	P	25.0	3.0	1.0	0.9	03/31/94	H	
									X	340.0	345.0	6.0								
20S/10E-25BBA1	17006090	OR. WATER WONDERLAND IMP.	06/01/84	434905	1212851	4170	546.0	10.0	--	--	--	--	A	100.0	100.0	1.0	3.3	04/01/94	P	D
20S/10E-25BBA2	17006099	OREGON WATER WONDERLAND	06/25/69	434905	1215850	4172	753.0	12.0	P	720.0	740.0	6.0	P	30.0	0.0	1.0	10.8	04/01/94	P	D
									X	745.0	753.0	6.0								
20S/10E-26ADA	17000736	JOHNSON, RAMON L.	07/01/78	434853	1212913	4174	20.0	6.0	P	8.0	20.0	6.0	P	22.0	7.0	1.0	2.8	04/01/94	H	
20S/10E-26ADB	17001132	MILLER, ROY	11/11/91	434852	1212921	4173	365.0	6.0	P	333.0	338.0	6.0	P	30.0	13.0	3.0	2.3	04/01/94	H	
									X	338.0	365.0	6.0								
20S/10E-26ADC	17001430	PERROTT, CHARLES	06/04/92	434844	1212924	4171	360.0	6.0	P	355.0	360.0	6.0	P	28.0	23.0	4.0	6.4	04/01/94	H	
20S/10E-31DAB	17006127	RUSSEL, VICK	01/07/78	434752	1213417	4228	61.0	6.0	P	55.0	61.0	6.0	B	15.0	10.0	1.0	41.6	09/19/94	H	
20S/10E-31DCA	17001348	STOUGH, MICHEAL S.	06/05/92	434723	1213423	4250	80.0	6.0	P	73.0	79.0	6.0	B	18.0	10.0	1.0	42.5	09/20/94	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
20S/10E-31DCB	17006104	HELBIG, DWANE	10/09/89	434733	1213437	4263	50.0	6.0	X	42.0	50.0	6.0	B	8.0	10.0	1.0	31.2	09/19/94	H	
	17001727	MURPHY, PHILLIP	05/14/93	434731	1213410	4258	85.0	6.0	P	70.0	85.0	5.0	P	15.0	2.0	10.0	55.6	04/18/94	H	
	17001574	JORY, JORQUINA	10/27/92	434813	1213028	4276	167.0	6.0	P	165.0	167.0	5.0	P	14.0	1.0	6.0	121.0	04/19/94	H	
	17000968	DOMINICK, FLOYD	07/25/91	434810	1213052	4345	240.0	8.0	P	200.0	240.0	6.0	P	30.0	--	1.0	195.6	04/19/94	H	
	17006153	DAVIS, LEE	04/22/82	434733	1213030	4171	245.0	6.0	S	225.0	245.0	5.0	P	20.0	1.0	4.0	10.0 (D)	04/22/82	H	
	17001019	STENDAL, BRUCE	09/04/91	434807	1212921	4191	355.0	6.0	P	331.0	336.0	6.0	P	15.0	63.0	3.0	23.5	04/19/94	H	
20S/10E-35BAA	17001004	PRICE, BEN	07/30/91	434815	1212948	4172	285.0	6.0	X	284.0	285.0	6.0	P	15.0	1.0	1.0	14.4	04/19/94	H	
	17001306	WILKERSON, DONA	04/22/92	434759	1213002	4170	71.0	6.0	P	--	71.0	6.0	P	13.0	--	1.0	15.9	04/19/94	H	
	17006201	SUNRIVER PROPERTIES	05/10/73	435231	1212642	4159	163.0	12.0	X	58.0	163.0	12.0	B	90.0	0.0	3.0	2.0 (D)	05/10/73	I	
	17006199	SUNRIVER PROPERTIES	07/25/88	435215	1212638	4161	55.0	6.0	P	42.0	55.0	6.0	P	60.0	22.0	1.0	--	--	H	
	17006204	SUNRIVER PROPERTIES	06/10/73	435212	1212644	4159	180.0	12.0	X	35.0	180.0	12.0	B	100.0	8.0	2.0	2.0 (D)	06/10/73	I	
	17006205	SUNRIVER PROPERTIES	10/01/69	435152	1212703	4160	283.0	12.0	P	47.0	75.0	12.0	B	42.0	0.0	1.0	8.5	04/14/94	P	
20S/11E-07BCC	17001200	CALICE, JIM	03/03/92	435124	1212747	4172	84.0	8.0	P	64.0	84.0	6.0	A	60.0	--	1.0	15.8	04/21/94	H	
	17008484	SUNRIVER UTILITIES	12/14/93	435146	1212634	4165	307.0	20.0	P	207.0	307.0	16.0	--	--	--	--	8.0	04/14/94	I	
	17000951	GARDNER, JAMES	07/04/91	435027	1212630	4172	110.0	12.0	P	50.0	110.0	8.0	A	150.0	30.0	1.0	16.1	04/22/94	H	
	17001413	GATELY, DICK & CAROL	07/31/92	435025	1212634	4167	64.0	8.0	P	45.0	64.0	6.0	A	150.0	--	1.0	14.4	04/22/94	H	
	17001532	SPENCER, CHERI	10/20/92	435053	1212741	4170	65.0	6.0	P	54.0	64.0	6.0	P	20.0	2.0	2.0	12.6	04/22/94	H	
	17006340	OR WATER	10/22/74	435032	1212740	4170	87.0	10.0	P	65.0	85.0	8.0	P	500.0	40.0	24.0	3.0 (D)	10/22/74	P	C
20S/11E-18BCD	17006345	WONDERLAND																		
	17006345	CENTURY WEST RESC.	10/08/73	434915	1212707	4169	230.0	12.0	X	214.0	230.0	8.0	B	70.0	8.0	4.0	5.7	05/02/94	H	
	17001292	SMITH, GENE	04/17/92	434941	1212557	4179	35.0	6.0	P	28.0	34.0	6.0	B	10.0	5.0	1.0	13.2	05/02/94	H	
	17006200	LOVELL, C. E.	05/04/69	434929	1212619	4175	120.0	6.0	O	120.0	120.0	6.0	B	10.0	14.0	1.0	27.0 (D)	09/26/73	U	D
	17001017	GLOWACKI, ERNEST	07/16/91	434931	1212555	4178	69.0	6.0	P	64.0	69.0	6.0	P	30.0	1.6	16.0	13.3	05/02/94	H	
	17006313	PACIFIC GAS	06/26/68	434919	1212516	4247	81.0	8.0	P	60.0	81.0	6.0	P	40.0	0.0	4.0	65.8	04/22/94	N	
20S/11E-21CCA	17000574	TRANSMISSION CO.																		
	17000574	PACIFIC GAS	10/27/87	434907	1212527	4222	180.0	12.0	P	29.0	144.0	12.0	B	20.0	--	1.0	49.0 (D)	10/27/87	G	
	17000574	TRANSMISSION CO.							X	149.0	180.0	14.0								
	17006401	MANLEY, WILLIAM	09/29/77	434904	1212641	4167	110.0	6.0	P	100.0	110.0	6.0	B	28.0	12.0	1.0	9.3	05/03/94	H	
	17006400	BREWER, B. L.	10/16/69	434848	1212638	4210	54.0	6.0	P	47.0	52.0	6.0	B	6.0	0.0	1.0	41.4	05/03/94	H	
	17006404	ALLISON, LEO	07/07/88	434907	1212739	4182	320.0	6.0	O	320.0	320.0	5.0	A	30.0	0.0	1.0	14.0	05/03/94	H	
20S/11E-30BBA	17001137	LACY, GEORGE L.	12/03/91	434838	1212737	4181	180.0	6.0	P	169.0	179.0	6.0	P	15.0	25.0	10.0	14.7	05/03/94	H	
	17006473	MARTIN, JIN	05/25/83	434805	1212655	4190	58.0	6.0	P	53.0	58.0	6.0	P	12.0	3.0	24.0	51.4	05/04/94	H	
	17006434	CORWIN, DAVE	07/27/89	434813	1212734	4180	225.0	6.0	P	220.0	225.0	6.0	B	80.0	20.0	3.0	13.7	05/03/94	H	
	17006472	CORWIN, DAVE	09/12/87	434812	1212744	4215	35.0	6.0	P	25.0	35.0	6.0	B	4.0	18.0	1.0	14.2	09/30/94	H	
	17006435	PATTON, NOWELL	04/08/89	434749	1212721	4180	80.0	6.0	P	76.0	80.0	6.0	P	30.0	27.0	1.0	12.8	05/04/94	H	
	17000192	HUGHES, DAVID	09/24/90	434726	1212735	4172	37.0	6.0	P	25.0	35.0	6.0	P	15.0	6.0	12.0	16.0 (D)	09/24/90	H	
20S/15E-14CBA	17000194	POWELL, LLOYD	08/06/90	435011	1205412	4781	995.0	8.0	X	30.0	995.0	8.0	A	50.0	--	1.0	970.0 (D)	08/06/90	S	
	17006480	HOLLY, JOHN	07/24/60	435134	1204801	4350	442.0	6.0	X	7.0	442.0	6.0	B	3.0	0.0	2.0	432.0 (D)	07/24/60	S	
	17006481	HILL, RONALD	09/30/79	435147	1204941	4332	445.0	8.0	X	60.0	445.0	8.0	B	5.0	--	2.0	428.0 (D)	09/30/79	H	
	17006484	BOUMAN, WALT	08/22/63	435010	1204655	4405	274.0	6.0	X	20.0	274.0	8.0	A	5.0	--	--	260.0 (D)	08/22/63	H	
	17006485	MCMOFFIT RANCH	05/28/85	434933	1204557	4397	540.0	8.0	P	500.0	540.0	12.0	P	16.0	0.0	4.0	500.0 (D)	05/28/85	H	
	17006504	GISLER, PAT	12/12/73	434442	1213638	4269	120.0	10.0	P	65.0	105.0	8.0	P	225.0	1.0	72.0	73.0 (D)	12/12/73	P	
21S/09E-23ABB	17006503	GISLER, PATRICK	03/24/72	434431	1213628	4271	108.0	10.0	X	105.0	120.0	8.0								
	17006503	GISLER, PATRICK							P	67.0	83.0	10.0	P	115.0	13.0	24.0	73.0 (D)	03/24/72	P	
	17006503	GISLER, PATRICK							X	85.0	108.0	10.0								
	17001529	POLIZZI, EUGENE	10/12/92	434700	1212857	4203	52.0	6.0	P	28.0	48.0	5.0	P	12.0	2.0	12.0	16.3	05/09/94	H	
	17006536	BUETTGEN, LOYD	08/19/85	434723	1213016	4168	245.0	6.0	P	241.0	243.0	6.0	P	25.0	4.0	12.0	10.6	05/09/94	H	
	17001051	BROWN, BERNARD	09/19/91	434639	1213015	4215	60.0	6.0	P	50.0	60.0	6.0	P	15.0	3.0	12.0	40.0 (D)	09/19/91	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
21S/10E-03CDB	17006541	GOULD, DON	10/17/86	434646	1213107	4182	45.0	6.0	P	21.0	26.0	6.0	P	8.0	4.0	3.0	11.5	05/10/94	H	
									P	35.0	45.0	6.0								
21S/10E-03CDD	17000967	RAYMER, GEORGE	07/08/91	434638	1213058	4178	490.0	6.0	X	370.0	490.0	6.0	P	17.0	4.0	1.0	2.0	05/10/94	H	
21S/10E-06BCA	17000734	KAPTUR, ROSE MARIE	05/30/90	434709	1213456	4270	73.0	6.0	X	62.0	73.0	6.0	B	18.0	4.0	1.0	51.5	05/10/94	H	
21S/10E-09ACB	17006571	OREGON STATE HIGHWAY DEPT.	08/22/66	434619	1213203	4198	65.0	6.0	S	56.0	65.0	6.0	P	50.0	31.0	3.0	13.0 (D)	08/22/66	U	
21S/10E-09DCC	17006570	OREGON STATE HIGHWAY DEPT.	08/26/66	434544	1213201	4242	102.0	6.0	S	92.0	102.0	6.0	P	20.0	8.0	3.0	52.0 (D)	08/26/66	R	
21S/10E-10ABD	17001708	SEVERSON, HERBERT	04/30/93	434625	1213045	4211	70.0	6.0	S	59.0	69.0	5.0	P	18.0	10.0	1.0	40.0	05/10/94	H	
21S/10E-13BDB	17006578	KERLIN, DARRELD	06/06/89	434527	1212849	4192	43.0	6.0	P	37.0	42.0	6.0	P	10.0	4.0	8.0	14.1	05/10/94	H	
21S/10E-14AAC	17006592	LARSEN, JERRY	10/22/89	434532	1212922	4188	635.0	10.0	X	532.0	635.0	6.0	--	--	--	--	16.6	05/10/94	I	
21S/10E-15AAD	17001452	HENKEL, EDWARD A.	08/03/92	434536	1213125	4226	55.0	6.0	P	35.0	55.0	5.0	P	12.0	8.0	1.0	24.9	09/29/94	H	
21S/10E-15ADC	17001537	LOVELAND, THERON D.	10/26/92	434519	1213029	4219	100.0	6.0	P	80.0	100.0	5.0	P	20.0	5.0	6.0	22.0 (D)	10/26/92	H	
21S/10E-16ACB	17008463	VAUGHT, BOB	06/18/93	434525	1213205	4244	80.0	6.0	P	75.0	80.0	6.0	P	12.0	54.0	1.0	51.0 (D)	06/18/93	H	
21S/10E-16CBD	17000971	HENKEL, ELIZABETH A.	06/25/91	434509	1213232	4247	76.0	6.0	P	64.0	75.0	6.0	P	20.0	10.0	1.0	48.4	09/30/94	H	
21S/10E-20AAD	17006776	GRAY, STEVE	07/16/79	434440	1213243	4260	76.0	6.0	P	70.0	76.0	6.0	B	20.0	10.0	2.0	48.8	04/21/94	H	
21S/10E-21BAA	17006747	LAYMON, DAVID J.	07/14/71	434440	1213224	4253	70.0	6.0	P	68.0	70.0	6.0	B	30.0	0.0	2.0	49.7	09/22/94	H	
21S/10E-21BAC	17007364	JOENS, HUGH	12/16/80	434254	1213205	4248	34.0	6.0	S	24.0	34.0	6.0	P	15.0	3.0	6.0	24.5	09/29/94	H	
21S/10E-21BDC	17008560	POUTZ, JAN	09/15/93	434426	1213220	4257	80.0	6.0	P	70.0	80.0	6.0	P	18.0	4.0	4.0	45.2	09/01/94	H	Q,H6
21S/10E-21DBD	17000191	CAMERON, DENNO	10/03/90	434411	1213150	4252	117.0	6.0	P	100.0	110.0	6.0	P	10.0	1.0	12.0	38.1	04/21/94	H	
									P	110.0	117.0	5.0								
21S/10E-22BAA1	17001794	SCHELHORSE, WARREN	06/26/93	434447	1213103	4237	52.0	6.0	P	30.0	40.0	6.0	P	15.0	4.0	12.0	26.9	04/21/94	H	
									P	37.0	52.0	5.0								
21S/10E-22BAA2	17001026	SEALS, GLEN	09/06/91	434448	1213106	4236	50.0	6.0	P	32.0	50.0	5.0	P	20.0	3.0	1.0	26.0	09/22/94	H	
21S/10E-23ABC	17006970	HENDERSON, CONNOR L.	09/13/85	434437	1212942	4195	137.0	6.0	X	132.0	137.0	6.0	P	23.0	1.0	14.0	FLOW (D)	04/22/94	H	
21S/10E-23DDD	17006959	SHYROCK, MAURICE	09/27/89	434400	1212914	4211	47.0	6.0	P	41.0	47.0	6.0	P	18.0	10.0	1.0	26.6	04/21/94	H	
21S/10E-24DBA	17008462	MAGNUSON, EARL	07/06/93	434417	1212819	4215	50.0	6.0	P	45.0	50.0	6.0	P	15.0	19.0	2.5	12.4	04/22/94	H	
21S/10E-26ABC	17007064	PLUMMER, JOHN	06/18/87	434346	1212937	4190	54.0	6.0	P	46.0	53.0	6.0	P	25.0	2.0	1.0	12.8	05/11/94	H	
21S/10E-26ACC	17006992	ALTON, HARRY	06/08/70	434332	1212938	4195	395.0	6.0	X	360.0	395.0	6.0	B	10.0	150.0	1.0	3.0 (D)	06/08/70	H	
21S/10E-27BAB	17001789	DAILEY, CLIFFORD	06/21/93	434356	1213110	4235	45.0	6.0	P	30.0	45.0	5.0	P	18.0	2.0	12.0	25.4	04/22/94	H	
21S/10E-27DCD	17007105	CAMPBELL, HAROLD	09/27/86	434307	1213039	4225	83.0	6.0	P	76.0	83.0	6.0	P	35.0	7.0	4.0	9.0 (D)	09/27/86	H	
21S/10E-28ACB	17008425	FOX, TIM	06/08/93	434343	1213158	4248	65.0	4.0	P	55.0	65.0	4.0	P	15.0	0.0	1.0	45.0 (D)	06/08/93	H	
21S/10E-28ddb	17007217	ERWIN, C.S.	06/26/80	434026	1213333	4246	40.0	6.0	S	29.0	40.0	5.0	P	12.0	3.0	12.0	27.9	09/28/94	H	
21S/10E-29DAA	17001598	BUNDY, MARK E.	12/29/92	434325	1213241	4255	80.0	6.0	P	69.0	79.0	6.0	P	18.0	3.0	14.0	34.3	04/22/94	H	
21S/10E-32DBC	17001327	FILLIS, LESLIE	05/19/92	434230	1213310	4263	80.0	6.0	P	74.0	79.0	6.0	P	18.0	8.0	1.0	40.0 (D)	05/19/92	H	
21S/10E-33DAD	17000076	LA PINE CHURCH OF NAZARINE	06/01/90	434230	1213133	4239	39.0	6.0	P	28.0	39.0	6.0	P	15.0	2.0	1.0	18.5	05/11/94	H	
21S/10E-33DCC	17001115	MARKS, JOHN & PENNY	11/11/91	434213	1213138	4249	35.0	6.0	P	20.0	35.0	5.0	P	20.0	3.0	2.0	17.4	09/28/94	H	
21S/10E-34CBA1	17001108	MARDICK, RALPH E.	07/11/91	434234	1213116	4235	42.0	6.0	P	30.0	41.0	6.0	P	20.0	4.0	8.0	17.0	05/11/94	H	
21S/10E-34CBA2	17007419	TREMBLE, JOE & BETTIS, HARVEY	02/04/81	434234	1213125	4235	35.0	6.0	S	20.0	35.0	6.0	P	30.0	5.0	6.0	16.0 (D)	02/04/81	H	
21S/10E-35AAC	17007492	CROFOOT, PERCY	06/25/71	434257	1212920	4211	47.0	6.0	X	20.0	47.0	6.0	B	7.0	5.0	4.0	18.0 (D)	06/25/71	H	
21S/10E-35CBD	17007460	ANDERSON, HOWARD	05/21/84	434231	1213007	4212	40.0	6.0	P	25.0	40.0	6.0	P	30.0	15.0	6.0	10.0 (D)	05/21/84	H	
21S/10E-36BCB	17008442	VAN CAMP, JACK	09/02/92	434248	1212909	4212	40.0	6.0	P	34.0	40.0	6.0	P	18.0	7.0	1.0	19.9	05/11/94	H	
21S/11E-06CCA	17001462	COUCH, R.	08/05/92	434644	1212741	4193	203.0	6.0	X	195.0	203.0	6.0	P	30.0	14.0	4.0	25.0 (D)	08/05/92	H	
21S/11E-07BDC	17000732	NELSON, RICHARD	12/12/90	434609	1212740	4198	60.0	6.0	P	49.0	59.0	6.0	P	25.0	1.0	3.0	22.0 (D)	12/12/90	H	
21S/11E-18CDA1	17007619	TER INC.% DENIS GORMAN	03/07/84	434500	1212726	4208	40.0	6.0	P	27.0	40.0	6.0	P	30.0	6.0	12.0	17.8	05/12/94	P	
21S/11E-18CDA2	17007626	HOLIDAY TRAVELER LODGES	10/05/67	434501	1212730	4206	122.0	6.0	X	119.0	122.0	6.0	B	20.0	20.0	2.0	30.1	05/13/94	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
21S/11E-18CDA3	17007618	DAVIS, C.E.	08/12/85	434501	1212724	4208	40.0	6.0	P	30.0	40.0	6.0	P	35.0	23.0	4.0	20.2	09/01/94	U	Q,H6,GD SC,H8,D
21S/11E-19CCC	17007620	KELLEMS JESSIE R.	10/06/64	434400	1212758	4220	100.0	6.0	X	69.5	100.0	6.0	P	12.0	10.0	72.0	15.6	10/18/85	U	
21S/11E-28CBA	17007629	U.S. FOREST SERVICE	04/18/67	434330	1212521	4314	150.0	8.0	P	127.0	150.0	6.0	P	50.0	12.0	2.0	127.0	05/12/94	R	
21S/11E-31ADB	17007632	MILLER, GLORIA	08/10/88	434249	1212656	4245	105.0	6.0	P	100.0	105.0	6.0	P	25.0	25.0	1.0	64.0 (D)	08/10/88	H	
21S/11E-32BBD	17008562	BLACKBURN, RICHARD	09/20/93	434253	1212634	4265	115.0	6.0	P	100.0	110.0	6.0	P	12.0	2.0	40.0	80.1	01/13/94	H	
									X	110.0	115.0	6.0								
21S/11E-32CCA	17000074	LADD & WOODMARK CONSTR.	06/11/90	434224	1212631	4262	108.0	6.0	P	99.0	107.0	6.0	P	18.0	6.0	1.0	90.0 (D)	06/11/90	H	
21S/12E-34ACB	17007762	PAULINA LAKE LODGE	11/13/80	434252	1211633	6350	52.0	6.0	X	30.0	52.0	6.0	P	35.0	8.0	3.0	12.0 (D)	11/13/80	H	
21S/12E-34ACC	17000676	U.S.D.A. FOREST SERVICE	09/08/83	434242	1211636	6360	85.0	6.0	P	50.0	80.0	6.0	P	94.0	21.0	8.0	37.4	11/06/92	R	
									X	80.0	85.0	6.0								
21S/12E-35DCB	17007763	U.S. FOREST SERVICE	06/26/87	434221	1211522	6365	60.0	6.0	P	40.0	60.0	6.0	P	35.0	57.0	4.0	28.5	11/06/92	R	
21S/12E-36BAA	17007765	U.S. FOREST SERVICE	09/16/61	434303	1211421	6350	50.0	6.0	P	15.0	25.0	6.0	B	30.0	4.0	1.0	12.1	11/06/92	U	
21S/13E-20CAD1	17007770	U.S. FOREST SERVICE	10/09/59	434417	1211157	6420	38.0	6.0	P	30.0	36.0	6.0	B	10.0	5.0	2.0	32.2	06/26/91	U	
21S/13E-20CAD2	17007772	U.S. FOREST SERVICE	10/13/59	434415	1211159	6420	32.0	6.0	P	24.0	30.0	6.0	B	10.0	3.0	2.0	28.4	10/03/91	U	
21S/13E-29AAC	17007769	U.S. FOREST SERVICE	08/25/63	434350	1211137	6405	76.0	6.0	P	70.0	76.0	6.0	B	20.0	10.0	3.5	21.4	09/28/95	R	
21S/13E-29ABA1	17007775	U.S. FOREST SERVICE	09/20/61	434356	1211139	6400	30.0	6.0	P	14.0	25.0	6.0	B	20.0	2.0	1.0	14.0	06/26/91	U	
21S/13E-29ABA2	17007776	U.S. FOREST SERVICE	09/19/61	434359	1211139	6400	30.0	6.0	P	16.0	25.0	6.0	B	20.0	2.0	1.0	15.4	06/26/91	U	
21S/13E-29DCA	17007773	GEO-NEWBERRY	07/11/87	434320	1211142	6380	100.0	6.0	P	35.0	55.0	6.0	R	25.0	17.0	1.0	14.5	06/19/94	H	
		CRATER, INC.							P	80.0	100.0	6.0								
21S/13E-29DDB	17000540	SAILING, BOB	09/12/78	434320	1211136	6420	80.0	6.0	P	50.0	80.0	6.0	P	30.0	20.0	4.0	30.0 (D)	09/12/78	P	
21S/13E-31CDB	17007778	U.S. FOREST SERVICE	09/15/83	434220	1211321	6435	90.0	6.0	P	70.0	90.0	6.0	P	40.0	5.1	2.0	51.8	11/06/92	U	
21S/13E-32ABB	17007779	U.S. FOREST SERVICE	09/21/61	434305	1211153	6400	32.0	6.0	P	14.0	25.0	6.0	B	20.0	2.0	1.0	15.8	11/06/92	R	
21S/13E-32BBB	17007774	DESCHUTES NATIONAL FOREST	10/12/62	434304	1211230	6400	50.0	6.0	P	20.0	26.0	6.0	B	30.0	0.0	2.0	1.0	10/03/91	R	
									X	39.0	50.0	6.0								
22S/09E-01AAD	17008047	BROOKS RESOURCES	06/19/70	434205	1213456	4282	232.0	6.0	X	229.0	232.0	6.0	B	25.0	0.0	2.0	90.0 (D)	06/19/70	H	
22S/09E-04CCA1	17007810	MCCANN, G.W.	09/26/11	434129	1213929	4287	100.0	8.0	X	70.0	100.0	8.0	B	40.0	0.0	1.0	71.8	05/06/94	H	D
22S/09E-04CCA2	17007794	HANNUM, CECIL L.	06/05/89	434133	1213927	4295	91.0	6.0	X	75.0	91.0	6.0	B	12.0	0.0	1.0	27.0 (D)	06/05/89	H	
22S/09E-04CCB	17007800	BROWN,DONALD	06/29/71	434131	1213937	4280	70.0	6.0	P	67.0	69.0	6.0	B	20.0	2.0	1.0	32.5	06/14/94	H	
22S/09E-07ADC	17007814	NORTH UNIT IRR. DIST.	11/27/81	434057	1214109	4362	203.0	5.0	X	40.0	203.0	5.0	B	10.0	0.0	1.0	139.3	05/06/94	H	
22S/09E-09BBC	17007802	PYLE, W.E.	12/04/75	434107	1213939	4325	150.0	6.0	S	120.0	150.0	5.0	B	10.0	9.0	1.0	129.3	06/13/94	H	D
22S/09E-25CAA	17001347	PRANTE, ROBERN	05/26/92	433816	1213539	4251	182.0	6.0	P	175.0	181.0	6.0	P	25.0	5.0	1.0	1.3	06/14/94	H	
22S/09E-25CDB	17007829	DALLAS, WARNER	10/02/85	433803	1213545	4259	45.0	6.0	P	37.0	45.0	6.0	P	25.0	10.0	6.0	16.0 (D)	10/02/85	H	
22S/09E-35ADD	17007855	DEFOE, JACK	04/24/80	433726	1213614	4277	70.0	6.0	P	58.0	59.0	6.0	P	8.0	39.0	4.0	15.7	06/14/94	H	
22S/09E-36BDD	17001522	HANNA, WADE	09/12/92	433727	1213534	4261	30.0	6.0	P	25.0	30.0	6.0	P	30.0	15.0	1.0	10.9	06/14/94	H	
22S/10E-02BAD1	17007874	FAITH LUTHERAN CHURCH	06/24/81	434202	1212944	4220	50.0	6.0	P	30.0	50.0	6.0	P	30.0	8.0	24.0	22.5	05/05/94	H	
22S/10E-02BAD2	17007887	ANDERSON, GLEN	10/21/66	434203	1212943	4220	413.0	6.0	X	310.0	413.0	6.0	P	70.0	9.0	2.0	26.0 (D)	03/15/68	H	D
22S/10E-02BAC	17000684	MARSHALL, DAVID W.	10/17/78	422920	1212905	4204	28.0	6.0	P	18.0	28.0	6.0	P	10.0	3.0	5.0	12.2	09/30/94	H	
22S/10E-03BCA	17007901	LE VERQUE, GLENN	05/13/86	434157	1213111	4229	48.0	6.0	P	43.0	48.0	6.0	P	35.0	10.0	6.5	5.0 (D)	05/13/86	H	
22S/10E-04CBC	17007952	MC DONALD, BOB	07/23/83	434139	1213239	4249	35.0	6.0	S	20.0	35.0	5.0	P	12.0	2.0	4.0	21.8	09/30/94	H	
22S/10E-04DBC	17007946	CONNOR, JAMES	06/01/84	434137	1213158	4240	50.0	6.0	S	40.0	50.0	6.0	P	30.0	3.0	5.0	13.0 (D)	06/01/84	H	
22S/10E-05BCA	17000748	TERLISNER, SYLVESTER	01/08/91	434151	1213259	4257	50.0	6.0	P	30.0	40.0	6.0	P	20.0	3.0	2.0	29.1	05/05/94	H	
									P	40.0	50.0	5.0								
22S/10E-05DCD	17001709	OWEN, SUE & CHARLES	06/05/93	434120	1213305	4254	80.0	6.0	P	69.0	79.0	6.0	P	18.0	15.0	12.0	22.6	06/05/94	H	
22S/10E-07BDB	17008048	BROOKS RESOURCE CORP.	03/15/79	434101	1213439	4272	403.0	10.0	X	369.0	403.0	10.0	P	550.0	1.3	8.0	81.3	06/04/94	P	
22S/10E-08ACB	17001205	ZAHNISER, RICHARD	03/05/92	434105	1213311	4250	60.0	6.0	P	42.0	57.0	5.0	P	25.0	4.0	1.0	30.7	06/06/94	H	
22S/10E-08DBC	17008065	HOLLAND, WALTER	08/09/79	434033	1213316	4236	40.0	6.0	S	25.0	40.0	6.0	P	30.0	5.0	5.0	20.1	09/29/94	H	
22S/10E-08DBD	17008561	WERTS, NORBERT	09/17/93	434044	1213304	4237	40.0	6.0	P	29.0	39.0	6.0	P	18.0	1.0	4.0	20.6	09/01/94	H	Q,H6

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Casing diameter (inches)	Well performance				Water level		Use	Remarks
									Finish	Top (feet)	Bottom (feet)		Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum	Date		
22S/10E-09BAA	17007993	STRICKLEN, MILLS	07/10/80	434115	1213205	4236	108.0	6.0	S	102.0	108.0	5.0	P	35.0	4.0	6.0	8.8	05/05/94	H	
22S/10E-09CDA	17008081	LANSDOWN, PAUL	10/16/85	434038	1213210	4220	30.0	6.0	P	20.0	30.0	6.0	P	20.0	10.0	4.0	16.6	05/06/94	H	
22S/10E-10AAB	17007920	PENINGTON, DON	07/27/78	434117	1213029	4211	100.0	6.0	S	56.0	66.0	6.0	P	25.0	6.0	24.0	6.6	06/05/94	H	
									S	90.0	100.0	5.0								
22S/10E-10DDA	17008121	ASSOCIATED MECH. CONST., INC.	02/11/80	434041	1213018	4228	50.0	6.0	S	25.0	45.0	6.0	P	18.0	24.0	8.0	16.0 (D)	02/11/80	P	
22S/10E-10ddb	17008108	ADMINISTRATIVE SCHOOL DIST.1	03/10/83	434040	1213025	4235	1460.0	16.0	P	1311.0	1443.0	8.0	P	950.0	8.0	5.0	37.0	06/01/94	I	SC,H8
22S/10E-10DDD1	17008109	ADMINISTRATIVE SCHOOL DIST.1	01/21/83	434035	1213024	4223	1458.0	10.0	O	1458.0	1458.0	10.0	P	100.0	210.0	2.0	43.0 (D)	01/21/83	T	
22S/10E-10DDD2	17008110	ADMINISTRATIVE SCHOOL DIST.1	09/18/78	434034	1213024	4222	400.0	10.0	P	352.0	356.0	6.0	B	20.0	18.0	3.0	28.8	06/01/94	I	D
									X	358.0	400.0	6.0								
22S/10E-10DDD3	17008111	E.E. STEINICHT CONSTR.	11/28/78	434034	1213024	4222	57.0	6.0	S	37.0	57.0	6.0	P	25.0	20.0	24.0	12.9	06/01/94	P	
22S/10E-11BAC	17009654	DESCHUTES COUNTY	11/13/80	434114	1212959	4225	16.5	4.0	S	6.5	16.5	4.0	--	--	--	--	10.5	11/13/80	M	
22S/10E-11CCC	17001024	PORSNENSKY, BECKER, & WILES	08/26/91	434035	1213011	4228	40.0	6.0	P	23.0	40.0	5.0	P	20.0	10.0	1.0	10.2	06/01/94	H	
22S/10E-13BCD	17008131	OREGON PACIFIC INDUSTRIES	10/20/88	434003	1212855	4240	38.0	6.0	P	30.0	38.0	6.0	P	20.0	10.0	1.0	23.3	05/31/94	H	
22S/10E-13BDD	17008388	BONNEVILLE POWER ADMIN.	11/09/87	434003	1212840	4245	260.0	--	--	--	--	--	--	--	--	--	--	--	G	
22S/10E-13CBC	17008129	NORTHWEST PINE PRODUCTS	04/07/89	433951	1212859	4240	40.0	6.0	P	32.0	40.0	6.0	P	15.0	5.0	1.0	25.6	09/30/94	H	
22S/10E-14BBC	17000246	STATTER, DICK	04/16/90	434005	1213012	4232	47.0	6.0	P	36.0	46.0	6.0	P	30.0	24.0	1.0	12.5	05/31/94	P	
22S/10E-14CBB1	17008506	NEWTON, JAMES	08/01/93	433956	1213010	4228	27.0	8.0	P	19.0	25.0	8.0	P	50.0	3.0	1.0	12.0 (D)	08/01/93	P	
22S/10E-14CBB2	17009655	DESCHUTES COUNTY	11/11/81	433959	1213008	4233	18.5	4.0	S	13.5	18.5	4.0	P	100.0	--	1.7	13.6	12/08/94	M	R,H6
22S/10E-14CCA	17009173	GISLER, PAT	04/05/94	433948	1213001	4227	555.0	8.0	P	485.0	545.0	5.0	B	50.0	6.0	2.0	52.0 (D)	04/05/94	P	R,H6
22S/10E-14DAA1	17008127	BURLINGTON NORTH.	11/05/80	433958	1212906	4238	26.0	6.0	S	21.0	26.0	6.0	--	--	--	--	21.0 (D)	11/05/80	M	
22S/10E-14DAA2	17008125	BURLINGTON NORTH.	11/05/80	433958	1212904	4238	25.0	6.0	S	20.0	25.0	6.0	--	--	--	--	18.8	05/18/94	M	
22S/10E-14DDD	17000257	NORTHWEST PRODUCTS	09/19/90	433941	1212906	4239	460.0	10.0	P	440.0	460.0	6.0	P	90.0	1.0	1.0	57.4	06/01/94	F	
22S/10E-15ADA1	17001635	CARTER, DENNIS	02/16/93	434009	1213022	4230	36.0	6.0	P	18.0	32.0	5.0	P	15.0	3.0	4.0	12.7	06/01/94	H	
22S/10E-15ADA2	17008174	OREGON, LA PINE BRANCH	06/12/80	434013	1213016	4232	225.0	6.0	X	110.0	225.0	6.0	B	6.0	0.0	2.0	60.0 (D)	06/12/80	H	
22S/10E-16CBA	17001346	ALANIZ, ART	06/03/92	433957	1213221	4247	39.0	6.0	P	20.0	37.0	5.0	P	23.0	10.0	1.0	6.0	06/01/94	H	
22S/10E-16DCD	17008197	COTE, FRANK	06/29/82	434005	1213159	4241	34.0	6.0	S	24.0	34.0	6.0	P	30.0	10.0	5.0	6.0	09/30/94	D	
22S/10E-17ACB	17001135	NELSON, KAY	09/20/91	434009	1213312	4230	370.0	6.0	X	340.0	370.0	6.0	P	30.0	22.0	4.0	10.4	06/01/94	H	
22S/10E-17BAB	17008270	BIRES, D.K.	07/20/83	434027	1213326	4238	45.0	6.0	S	30.0	45.0	6.0	P	15.0	20.0	4.0	20.0 (D)	07/20/83	H	
22S/10E-19DCC	17000033	QUICK, R.L.	04/29/90	433845	1213423	4265	31.0	6.0	P	20.0	31.0	6.0	P	18.0	3.0	1.0	13.6	06/02/94	H	
22S/10E-21DAB	17008323	HILL, R.F.	08/10/79	433906	1213144	4247	30.0	6.0	S	20.0	30.0	6.0	P	20.0	6.0	16.0	9.0	06/02/94	H	
22S/10E-22DDD	17001450	WANEK, GORDAN	08/13/92	433850	1213023	4236	42.0	6.0	P	22.0	42.0	5.0	P	20.0	7.0	1.0	11.2	06/03/94	H	
22S/10E-23CCC	17001742	STEPHENSON, LINDA	05/21/93	433845	1213013	4240	33.0	6.0	P	22.0	32.0	6.0	P	15.0	1.0	2.0	8.7	06/03/94	H	
22S/10E-24DCA	17007044	RHODES, IVAN C.	09/18/79	434404	1212820	4215	38.0	6.0	S	30.0	38.0	5.0	P	15.0	18.0	24.0	18.2	09/30/94	H	
22S/10E-26BAA	17008339	WOOD, GARY E.	09/03/80	433840	1212943	4238	30.0	6.0	S	20.0	30.0	6.0	P	35.0	4.0	7.0	10.2	06/03/94	H	
22S/10E-27BDC	17008356	BROWN, ROBERT	08/08/78	433820	1213108	4249	40.0	6.0	S	30.0	40.0	6.0	P	25.0	4.0	12.0	3.6	06/03/94	H	
22S/10E-30ABC	17008363	THOMPSON, STEVE	04/19/79	433836	1213420	4269	82.0	6.0	S	72.0	82.0	6.0	P	35.0	5.0	4.0	14.6	06/02/94	H	
22S/10E-30DDD	17000937	GERDAN, MICHAEL	06/20/91	433756	1213355	4269	30.0	6.0	P	19.0	30.0	5.0	P	20.0	10.0	1.0	6.6	06/02/94	H	
22S/10E-36CCC	17008385	TRAPMAN, MARK	09/23/77	433706	1212901	4270	87.0	6.0	S	79.0	86.0	5.0	P	9.6	0.0	4.0	81.7	06/03/94	H	D
22S/11E-15ADC	17008387	GEO-NEWBERRY INC.	07/08/89	434004	1212328	4659	25.0	8.0	O	25.0	25.0	8.0	--	--	--	--	--	--	H	
22S/14E-22BBC	17008392	U.S.FOREST SERVICE	01/18/85	433934	1210213	5180	853.0	8.0	P	793.0	853.0	8.0	B	5.0	0.0	4.0	785.5	06/25/91	H	
23S/06E-15BBA	35011078	OREGON STATE HIGHWAY DEPT.	05/03/89	433509	1215953	4860	165.0	6.0	P	125.0	165.0	4.5	A	15.0	75.0	1.0	90.0 (D)	05/03/89	H	

Table 1. Data for field-located wells in the upper Deschutes Basin, Oregon—Continued

Well location	Log-id number	Owner	Date drilled	Latitude	Longitude	Altitude (feet)	Well depth (feet)	Casing diameter (inches)	Open interval			Well performance				Water level		Use	Remarks	
									Finish	Top (feet)	Bottom (feet)	diameter (inches)	Test method	Yield (gpm)	Draw-down (feet)	Test period (hours)	Feet below datum			Date
23S/06E-17BCB	35010236	SHELTER COVE RESORT	07/30/91	433453	1220220	4795	71.0	6.0	P	66.0	71.0	6.0	P	40.0	39.7	4.0	5.3 (D)	07/30/91	H	
23S/06E-18AAC	35000018	AGRICULTURAL FOREST SERVICE	01/19/67	433500	1220240	4795	79.0	8.0	O	79.0	79.0	8.0	P	25.0	31.0	3.0	3.0	05/16/94	R	
23S/06E-23DDA	35000019	AGRICULTURE FOREST SERVICE	03/04/67	433343	1215747	4798	181.0	8.0	P	159.0	181.0	6.0	P	50.0	0.0	5.0	132.0 (D)	03/04/67	R	
23S/06E-25CBB	35011079	U.S. FOREST SERVICE	09/19/64	443304	1215741	4790	75.0	6.0	O	75.0	75.0	6.0	P	30.0	20.0	8.0	8.0 (D)	09/19/64	H	
23S/06E-26DAC	35000023	VENNER,JIM	05/11/86	433258	1215750	4810	91.0	8.0	P	84.0	89.0	8.0	P	50.0	10.0	4.0	50.5	06/14/94	H	
23S/09E-01ABC	35010289	DOWLER, WILLIAM	08/07/91	433652	1213527	4282	40.0	6.0	P	23.0	40.0	5.0	P	15.0	1.0	1.0	16.4	05/20/94	H	
23S/09E-02AAA	35010779	STEVENS, KEN	06/23/93	443657	1213616	4281	60.0	6.0	X	57.0	60.0	6.0	P	15.0	16.0	1.0	15.0	05/20/94	H	
23S/09E-12BCA	35000059	CONNOY, TIM	05/27/87	433555	1213558	4291	41.0	6.0	P	32.0	36.0	6.0	P	20.0	7.0	1.0	15.0 (D)	05/27/87	H	
23S/09E-13DBA	35010878	FERGUSON, MARGERY	10/25/93	433445	1213521	4302	39.0	6.0	P	29.0	39.0	6.0	P	18.0	2.0	12.0	17.0 (D)	10/25/93	H	
23S/09E-24AAC	35010519	MARTIN, RICHARD	06/26/92	433413	1213512	4302	40.0	6.0	P	34.0	39.0	6.0	P	23.0	4.0	1.0	8.7	06/13/94	H	
23S/09E-25ABA	35010425	STENT, RALPHE	03/06/92	433327	1213517	4311	40.0	6.0	P	22.0	38.0	5.0	P	20.0	5.0	1.0	17.0 (D)	03/06/92	H	
23S/09E-26CBA	35011080	BELL A LAND AND CATTLE CO.	09/30/88	433339	1220015	4305	350.0	8.0	X	320.0	350.0	8.0	B	30.0	2.0	1.0	64.7	06/13/94	H	
23S/09E-36BBC	35000136	SHEVLIN HIXON CO.	--/--/50	433231	1213603	4332	470.0	12.0	X	145.0	470.0	12.0	P	145.0	58.0	2.0	36.7	09/01/94	U	Q,H6,GD
23S/10E-03CDA	35010517	COUCH, BEATRICE	07/02/92	443619	1213057	4262	64.0	6.0	P	53.0	63.0	6.0	P	10.0	2.0	1.0	19.9	05/18/94	H	
23S/10E-10BDD	35010573	THOMAS, ROBERT	08/16/92	443546	1213101	4259	100.0	6.0	S	89.0	99.0	6.0	B	20.0	--	1.0	30.0 (D)	08/16/92	H	
23S/10E-10CAB	35000153	HANSON, ART	09/10/85	433537	1213106	4258	40.0	6.0	P	34.0	40.0	6.0	P	35.0	5.0	3.5	11.7	05/19/94	H	
23S/10E-15CAB	17008408	REEVES, RICHARD	10/29/88	433446	1213102	4270	46.0	6.0	P	40.0	46.0	6.0	P	20.0	4.0	1.0	25.0 (D)	10/29/88	H	
23S/10E-16ACC	35010428	SOKOL, WALTER L.	03/17/92	433452	1213201	4275	60.0	6.0	P	54.0	59.0	6.0	P	25.0	3.0	1.0	14.5	05/19/94	H	
23S/10E-16BDB	35010745	THOMAS, TOM	06/04/93	433502	1213218	4277	90.0	8.0	P	85.0	90.0	6.0	B	12.0	20.0	1.0	21.5	05/18/94	H	
23S/10E-18CAD	35010738	VIRGIN, LEON	05/14/93	433442	1213432	4298	41.0	6.0	P	35.0	41.0	6.0	B	20.0	4.0	1.0	12.0 (D)	05/14/93	H	
23S/10E-20DAB	35000198	SHIELDS, HERBERT	04/03/80	433354	1213253	4286	42.0	6.0	S	28.0	42.0	5.0	P	20.0	1.0	2.0	14.1	05/19/94	H	
23S/10E-27CAD	35010063	HILDEBRAND, DEL	07/26/90	443257	1213058	4285	67.0	6.0	P	56.0	66.0	6.0	B	14.0	2.0	8.0	30.0 (D)	07/25/90	H	
23S/10E-28ADD	35010314	ROE, ARCHER W.	09/26/91	443309	1213138	4281	40.0	6.0	P	28.0	38.0	6.0	P	12.0	0.0	1.0	18.6	05/18/94	H	
23S/10E-30BAA	35000192	BURNS, JOHN	05/22/76	433329	1213428	4314	43.0	6.0	P	34.0	43.0	6.0	P	12.0	4.0	12.0	35.5	05/19/94	H	
23S/10E-35BBA	17008977	GISLER, JOEL	09/16/93	433233	1213006	4290	64.0	6.0	P	58.0	64.0	6.0	P	20.0	10.0	1.0	29.6	05/18/94	U	
23S/10E-36DDC	35000138	BOWDEN, DON	04/17/82	433152	1212813	4308	130.0	6.0	S	100.0	130.0	5.0	P	15.0	40.0	3.0	60.2	09/01/94	U	Q,H6,GD
25S/08E-01AAB	35000458	U.S. NATIONAL FOREST	06/01/65	432631	1214220	4469	296.0	12.0	P	266.0	296.0	6.0	P	300.0	0.0	2.0	262.0 (D)	08/02/91	P	SD,H8,D

Table 2. Springs sampled for water-chemistry analysis in the upper Deschutes Basin, Oregon

[See figure 9 for sample site location. Site ID, site identification; Latitude and Longitude in degrees, minutes and seconds; ft³/s, cubic feet per second]

Site ID	Site name (location)	Latitude	Longitude	Elevation (feet)	Remarks
S-1	Lower Opal Springs (12S/12E-33ACA1)	442928	1211749	1958	Source of Deschutes Valley Water public supply, sampled at improved orifice, estimated average flow rate = 240 ft ³ /s (Deschutes Valley Water, oral commun., 1996)
S-2	Upper Opal Springs (12S/12E-33ACA2)	442927	1211746	2150	Sampled at improved orifice, estimated flow rate = 2–3 ft ³ /s (1–9–95)
S-3	Virgin River Spring (13S/12E-14BAD)	442652	1211545	2220	Sampled at improved orifice, largest of several springs issuing from a 6 foot diameter cavern, flow rate = 20 ft ³ /s as of 8–20–25 (Stearns, 1930)
S-4	Alder Springs (13S/12E-18CAC)	442630	1212044	2295	Sampled at stream origin supplied by springs, estimated flow rate = 4–5 ft ³ /s (1–18–95)
S-5	Paulina Springs (14S/09E-09CDB)	442203	1214003	3358	Sampled at stream origin supplied by springs, flow rate = 6.2 ft ³ /s (7–12–95 (Oregon Water Resources Department, oral commun., 1996)
S-6	Source Spring (18S/09E-03DCD)	440216	1213754	6325	Sampled at stream 300 feet downstream from origin, estimated average annual flow rate = 19–21 ft ³ /s (City of Bend Public Works, oral commun., 1996)
S-7	Spring River Springs (20S/10E-01CDD)	435151	1212835	4175	Sampled at stream origin supplied by springs, estimated flow rate = 1 ft ³ /s (2–15–95)

Table 3. Surface-water sites sampled for water-chemistry analysis in the upper Deschutes Basin, Oregon

[See figure 9 for sample site location. Site ID, site identification; Latitude and Longitude in degrees, minutes, and seconds; ft³/s, cubic feet per second]

Site ID	Site name	Location	Latitude	Longitude	Elevation (feet)	Flow rate
SW-1	Mud Springs Creek at Gateway	09S/14E-20BDA	444632	1210451	1780	2.8 ft ³ /s (9–19–94) 4.4 ft ³ /s (3–13–95)
SW-2	Pilot Butte Canal, J-lateral at 33rd Avenue Bridge	14S/13E-23DDD	442008	1210738	2941	26.4 ft ³ /s (9–19–94)
SW-3	Pilot Butte Canal at Gift Road Bridge	16S/12E-14CDD	441053	1211509	3193	¹ 408 ft ³ /s (9–20–94)
SW-4	North Canal at gage 0.5 miles from Deschutes River	17S/12E-21CDC	440448	1211746	3555	411 ft ³ /s (9–20–94)
SW-5	Central Oregon Canal at Alfalfa Market Road Bridge	17S/14E-22DDC	440441	1210152	3360	205 ft ³ /s (9–24–94)

¹Flow rate measured at Young Road bridge, 1 mile downstream from sampling site.

Table 4. Water-chemistry data for springs in the upper Deschutes Basin, Oregon

[Site locations are shown in figure 9; site information is listed in table 2; Site ID, site identification; °C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius; lab, laboratory; --, no data; mg/L, milligrams per liter; µg/L, micrograms per liter; per mil, per 1,000; δD, delta deuterium; δ¹⁸O, delta oxygen-18; PCi/L, picocuries per liter; <, less than]

Site ID	Location	Station number	Date	Temperature, water (°C)	Specific conductance, field (µS/cm)	Specific conductance, lab (µS/cm)	Oxygen, dissolved (mg/L)	pH whole water, field (standard units)
S-1	12S/12E-33ACA1 (Lower Opal Springs)	442928121174901	01-09-95	12.0	128	129	9.9	8.1
S-2	12S/12E-33ACA2 (Upper Opal Springs)	442927121174601	01-09-95	15.5	191	--	9.2	8.2
S-3	13S/12E-14BAD (Virgin River Springs)	442652121154501	01-18-95	14.0	178	189	8.4	8.0
S-4	13S/12E-18CAC (Alder Springs)	442630121204401	01-19-95	10.5	125	136	9.0	8.0
S-5	14S/09E-09CDB (Paulina Springs)	442203121400301	01-11-95	4.5	62	60	11.2	7.2
S-6	18S/09E-03DCD (Source Springs)	440216121375401	01-17-95	3.0	34	37	9.9	7.5
S-7	20S/10E-01CDD (Spring River Springs)	435151121283501	02-15-95	7.5	98	101	8.0	8.3

Site ID	Magnesium, filtered (mg/L as Mg)	Sodium, filtered (mg/L as Na)	Sodium percent	Sodium adsorption ratio	Potassium, filtered (mg/L as K)	Chloride, filtered (mg/L as Cl)	Sulfate, filtered (mg/L as SO ₄)	Fluoride, filtered (mg/L as F)	Silica, filtered (mg/L as SiO ₂)
S-1	5.8	12	39	0.8	2.1	1.6	0.90	0.1	38
S-2	--	--	--	--	--	--	--	--	--
S-3	8.4	16	36	.9	2.7	3.3	3.7	.1	40
S-4	6.1	11	34	.7	2.2	1.9	1.4	<.1	39
S-5	2.0	4.3	31	.4	1.0	.5	.30	<.1	29
S-6	.97	2.5	31	.3	1.2	.3	.50	<.1	27
S-7	3.6	9.5	41	.8	1.3	2.4	.40	.1	34

Table 4. Water-chemistry data for springs in the upper Deschutes Basin, Oregon—Continued

Alkalinity, field (mg/L as CaCO ₃)	Alkalinity, lab (mg/L as CaCO ₃)	Hardness, total (mg/L as CaCO ₃)	Nitrogen, ammonia filtered (mg/L as N)	Nitrogen, nitrite filtered (mg/L as N)	Nitrogen, ammonia + organic filtered (mg/L as N)	Nitrogen, NO ₂ + NO ₃ filtered (mg/L as N)	Phosphorus, filtered (mg/L as P)	Phosphorus, ortho filtered (mg/L as P)	Calcium, filtered (mg/L as Ca)
--	63	39	<0.015	<0.01	<0.2	0.21	0.07	0.08	6.0
--	--	--	--	--	--	--	--	--	--
87	88	58	<.015	<.01	<.2	.53	.06	.08	9.2
64	65	43	<.015	<.01	<.2	.27	.07	.08	7.3
29	29	20	<.015	<.01	<.2	.06	.06	.07	4.7
15	18	10	<.015	<.01	<.2	<.05	.05	.05	2.6
48	47	28	<.015	<.01	<.2	.06	.12	.12	5.1

Iron, filtered (µg/L as Fe)	Manganese, filtered (µg/L as Mn)	Aluminum, filtered (µg/L as Al)	Bromide, filtered (mg/L as Br)	Solids, sum of constituents, filtered (mg/L)	Solids, residue at 180 °C, filtered (mg/L)	δD (per mil)	δ ¹⁸ O (per mil)	Tritium, total (PCi/L)	Tritium, 2 sigma total (PCi/L)
3	<1	<10	0.01	105	96	-114.0	-15.28	2.7	0.6
--	--	--	--	--	--	--	--	12.0	2.6
<3	<1	<10	.03	138	128	-114.0	-15.10	6.3	.6
<3	<1	<10	.02	109	96	-111.0	-14.81	10.0	1.0
<3	<1	50	<.01	60	50	-92.1	-12.84	27.0	3.2
3	<1	<10	<.01	44	50	-101.0	-14.20	33.0	3.2
<3	<1	<10	.01	86	80	-109.0	-14.44	--	--

Table 5. Water-chemistry data for surface-water sites in the upper Deschutes Basin, Oregon

[Site locations are shown in figure 9, site information is listed in table 3; Site ID, site identification; °C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius; lab, laboratory; --, no data; mg/L, milligrams per liter; µg/L, micrograms per liter; per mil, per 1,000; δD, delta deuterium; δ¹⁸O, delta oxygen-18; PCi/L, picocuries per liter; <, less than]

Site ID	Location	Station number	Date	Temperature, water (°C)	Specific conductance, field (µS/cm)	Specific conductance, lab (µS/cm)	Oxygen, dissolved (mg/L)	pH whole water, field (standard units)
SW-1	09S/14E-20BDA (Mud Springs Creek)	444632121045101	09–19–94	15.5	494	501	8.8	8.2
SW-1	09S/14E-20BDA (Mud Springs Creek)	444632121045101	03–13–95	13.5	480	492	10.4	8.7
SW-2	14S/13E-23DDD2 (Pilot Butte Canal, J-Lat),	442008121073801	09–19–94	17.5	61	67	9.0	8.7
SW-3	16S/12E-14CDD (Pilot Butte Canal)	441053121150901	09–20–94	13.0	60	67	9.2	7.6
SW-3	16S/12E-14CDD (Pilot Butte Canal)	441053121150901	06–20–95	14.0	58	--	9.0	8.0
SW-4	17S/12E-21CDC (North Canal)	440448121174601	09–20–94	14.0	59	66	9.6	8.0
SW-5	17S/14E-22DDC (Central Oregon Canal)	440441121015201	09–20–94	14.0	60	66	9.6	8.2

Site ID	Date	Magnesium, filtered (mg/L as Mg)	Sodium, filtered (mg/L as Na)	Sodium percent	Sodium adsorption ratio	Potassium, filtered (mg/L as K)	Chloride, filtered (mg/L as Cl)	Sulfate, filtered (mg/L as SO ₄)	Fluoride, filtered (mg/L as F)	Silica, filtered (mg/L as SiO ₂)
SW-1	09–19–94	15	55	45	2	3.7	11	25	0.5	46
SW-1	03–13–95	15	49	41	2	4.6	11	24	.5	49
SW-2	09–19–94	2.4	5.8	37	.6	1.0	1.0	.3	<.1	17
SW-3	09–20–94	2.3	5.7	37	.6	1.0	0.9	.4	<.1	18
SW-3	06–20–95	--	--	--	--	--	--	--	--	--
SW-4	09–20–94	2.3	5.6	37	.6	1.0	.9	.4	<.1	19
SW-5	09–20–94	2.3	5.6	37	.6	1.1	1.0	.4	<.1	18

Table 5. Water-chemistry data for surface-water sites in the upper Deschutes Basin, Oregon—Continued

Alkalinity, field (mg/L as CaCO ₃)	Alkalinity, lab (mg/L as CaCO ₃)	Hardness, total (mg/L as CaCO ₃)	Nitrogen, ammonia filtered (mg/L as N)	Nitrogen, nitrite filtered (mg/L as N)	Nitrogen, ammonia + organic filtered (mg/L as N)	Nitrogen, NO ₂ + NO ₃ filtered (mg/L as N)	Phosphorus, filtered (mg/L as P)	Phosphorus, ortho filtered (mg/L as P)	Calcium, filtered (mg/L as Ca)
207	211	140	0.02	0.02	<0.2	4.7	0.15	0.15	32
203	200	150	.02	.01	<.2	4.8	.15	.16	34
31	33	20	.02	<.01	<.2	<.05	.06	.06	4.1
32	33	20	<.01	<.01	<.2	<.05	.05	.05	4.1
--	--	--	--	-	--	--	--	--	-
31	32	19	.01	<.01	<.2	<.05	.06	.06	3.9
31	32	19	.01	<.01	<.2	<.05	.12	.05	4.0

Iron, filtered (µg/L as Fe)	Manganese, filtered (µg/L as Mn)	Aluminum, filtered (µg/L as Al)	Bromide, filtered (mg/L as Br)	Solids, sum of constituents, filtered (mg/L)	Solids, residue at 180°C, filtered (mg/L)	δD (per mil)	δ ¹⁸ O (per mil)
28	4	<10	0.06	334	331	-102.0	-12.67
15	11	--	.08	331	324	-105.0	-12.89
78	3	<10	<.01	51	51	-99.1	-13.21
77	3	<10	<.01	52	54	-99.3	-13.28
--	--	--	--	--	--	-99.4	-13.32
90	7	<10	<.01	52	47	-98.5	-13.27
68	2	<10	<.01	51	52	-97.8	-13.31

Table 6. Water-chemistry data for wells in the upper Deschutes Basin, Oregon

[Site locations are shown in figure 9; well information is listed in table 1; Log-id number, unique identification number; °C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius, lab, laboratory; --, no data; mg/L, milligrams per liter; µg/L, micrograms per liter; per mil, per 1,000; delta deuterium, (δD); delta oxygen-18, (δ¹⁸O); PCi/L, picocuries per liter; <, less than]

Log-id number	Location	Station number	Date	Temperature, water (°C)	Specific conductance, field (µS/cm)	Specific conductance, lab (µS/cm)	Oxygen, dissolved (mg/L)	pH whole water, field (standard units)
31000221	09S/14E-20CAA3	444622121045201	09-21-94	14.5	729	751	2.4	7.4
31000221	09S/14E-20CAA3	444622121045201	03-13-95	12.0	833	866	2.3	7.6
31000231	09S/14E-21CCC	444602121040701	02-13-95	15.0	365	364	--	8.1
31000373	10S/14E-30DAD	444006121053101	02-13-95	20.0	330	330	--	8.2
31000396	10S/14E-33CDD	443906121034401	02-13-95	15.5	338	335	--	8.0
31000538	12S/13E-26ABA	443016121080601	03-14-95	21.0	394	398	4.7	7.9
31000090	13S/12E-05ADC	442829121184801	01-18-95	12.0	144	153	7.6	8.3
31000829	13S/12E-22DAA	442542121161201	02-14-95	13.5	310	313	8.5	8.1
31000164	13S/13E-20DAC	442526121113101	03-14-95	16.0	409	416	9.7	7.8
17001800	14S/09E-16ADB	442137121393201	01-11-95	4.5	63	60	11.8	7.7
17000867	14S/10E-27BBB	442004121315601	01-10-95	11.0	159	169	9.2	8.1
17001510	14S/11E-28ADD	441945121244801	01-10-95	11.0	199	219	--	7.8
17002498	14S/13E-23DDD	442009121073901	09-21-94	13.0	470	494	12.3	7.6
17002498	14S/13E-23DDD	442009121073901	03-15-95	13.5	490	476	10.0	7.7
17000053	14S/13E-29BDD	441945121115401	02-14-95	17.5	316	313	8.5	8.1
17003951	15S/13E-22CBA2	441515121094602	02-14-95	11.5	127	141	10.7	8.2
17004320	16S/12E-14CDA	441106121151301	09-22-94	13.5	120	129	9.2	7.4
17004320	16S/12E-14CDA	441106121151301	03-15-95	13.5	136	137	9.1	7.4
17004413	16S/12E-23BAA	441053121151101	09-22-94	14.0	178	195	9.2	7.8
17004413	16S/12E-23BAA	441053121151101	03-15-95	14.0	208	207	9.5	7.9
17004655	16S/13E-16ADB	441131121095501	01-09-95	11.0	328	319	--	8.1
17004844	17S/12E-08ABD	440715121183701	09-21-94	14.0	100	109	9.5	6.9
17004844	17S/12E-08ABD	440715121183701	03-14-95	11.5	109	115	7.6	7.6
17005045	17S/12E-23BBC	440529121154101	06-20-95	11.5	115	121	9.1	8.1
17005180	17S/14E-22ADB	440518121014801	09-20-94	12.5	134	145	7.1	7.4
17005180	17S/14E-22ADB	440518121014801	03-15-95	12.5	143	145	8.0	8.0
17005203	17S/14E-27CCB	440401121023701	02-16-95	19.0	256	265	8.8	8.1
17000876	18S/12E-19CCB2	435949121202701	02-14-95	11.5	99	104	8.8	8.0
17005749	19S/11E-32CCA	435251121262801	02-15-95	8.0	108	111	6.7	8.3
17005750	19S/14E-02DAA1	435709121002801	02-16-95	23.0	261	268	9.1	8.0
17005752	19S/14E-24DDA	435423120591001	02-16-95	21.0	250	259	8.3	7.9
17006340	20S/11E-18BCD	435032121274001	02-15-95	7.5	105	110	.1	8.5

Table 6. Water-chemistry data for wells in the upper Deschutes Basin, Oregon—Continued

Alkalinity, field (mg/L as CaCO ₃)	Alkalinity, lab (mg/L as CaCO ₃)	Hardness, total (mg/L as CaCO ₃)	Nitrogen, ammonia filtered (mg/L as N)	Nitrogen, nitrite filtered (mg/L as N)	Nitrogen, ammonia + organic filtered (mg/L as N)	Nitrogen, NO ₂ + NO ₃ filtered (mg/L as N)	Phosphorus, filtered (mg/L as P)	Phosphorus, ortho filtered (mg/L as P)	Calcium, filtered (mg/L as Ca)
300	309	120	<0.010	<0.01	<0.2	4.8	0.29	0.28	29
343	345	150	<.015	<.01	<.2	4.8	.24	.24	35
120	124	120	<.015	<.01	<.2	3.0	<.01	.01	32
130	134	95	<.015	.05	<.2	2.0	<.01	<.01	25
120	124	100	<.015	<.01	<.2	2.6	<.01	.01	27
173	175	12	<.015	<.01	<.2	1.6	.05	.05	4.9
71	74	48	<.015	<.01	<.2	.30	.06	.07	8.2
132	132	95	<.015	<.01	<.2	2.1	.10	.11	15
169	172	170	<.015	<.01	<.2	4.1	.08	.06	41
28	28	18	<.015	<.01	<.2	.06	.06	.07	3.9
--	84	67	<.015	<.01	<.2	.51	.04	.05	14
--	107	87	<.015	<.01	<.2	.69	.05	.06	15
247	248	180	<.010	<.01	.2	1.2	.13	.13	31
240	243	180	<.015	<.01	<.2	.94	.12	.13	29
138	139	98	<.015	<.01	<.2	1.5	.04	.05	16
65	67	41	<.015	<.01	<.2	.26	.09	.09	6.7
61	62	46	<.010	<.01	<.2	.64	.08	.08	9.2
63	66	46	<.015	<.01	<.2	.44	.10	.09	9.2
92	94	65	<.010	<.01	<.2	.96	.13	.13	13
96	98	69	--	--	--	--	--	--	14
--	151	130	<.015	<.01	<.2	1.5	.07	.07	21
51	52	36	<.010	<.01	<.2	.41	.08	.08	5.8
51	52	38	<.015	<.01	<.2	.53	.10	.05	6.1
57	59	37	.02	<.01	<.2	.25	.09	.09	5.9
67	70	41	<.010	<.01	<.2	.40	.18	.19	9.0
65	68	41	<.015	<.01	<.2	.47	.17	.15	9.1
114	116	84	<.015	<.01	<.2	1.2	.08	.08	14
51	51	32	<.015	<.01	<.2	.10	.10	.09	4.8
51	52	30	<.015	<.01	<.2	.08	.18	.17	5.6
115	117	75	<.015	<.01	<.2	.85	.02	.02	12
117	115	69	<.015	<.01	<.2	.79	.03	.02	11
50	49	22	.630	<.01	.7	<.05	.34	.32	4.4

Table 6. Water-chemistry data for wells in the upper Deschutes Basin, Oregon—Continued

Log-id number	Date	Magnesium, filtered (mg/L as Mg)	Sodium, filtered (mg/L as Na)	Sodium percent	Sodium adsorption ratio	Potassium, filtered (mg/L as K)	Chloride, filtered (mg/L as Cl)	Sulfate, filtered (mg/L as SO ₄)	Fluoride, filtered (mg/L as F)	Silica, filtered (mg/L as SiO ₂)
31000221	09-21-94	12	120	67	5	4.9	20	44	0.3	58
31000221	03-13-95	15	140	66	5	7.1	26	56	1.1	54
31000231	02-13-95	10	24	29	.9	3.9	17	18	.7	59
31000373	02-13-95	8.0	26	35	1	8.0	9.7	11	.4	65
31000396	02-13-95	8.6	26	34	1	5.6	11	16	.5	71
31000538	03-14-95	.06	87	94	11	.30	9.0	11	.8	27
31000090	01-18-95	6.8	12	34	.8	2.6	2.6	2.0	.1	35
31000829	02-14-95	14	25	35	1	6.3	8.2	8.0	.2	39
31000164	03-14-95	16	21	21	.7	3.6	5.9	20	.2	48
17001800	01-11-95	1.9	5.3	38	.6	1.0	.9	1.0	<.1	26
17000867	01-10-95	7.8	8.5	21	.5	3.1	1.4	.40	<.1	52
17001510	01-10-95	12	13	24	.6	3.0	2.9	1.7	.2	50
17002498	09-21-94	26	36	29	1	3.7	2.8	12	.4	42
17002498	03-15-95	25	36	30	1	4.3	1.9	10	.4	41
17000053	02-14-95	14	25	34	1	4.6	5.9	10	.2	47
17003951	02-14-95	5.9	13	39	.9	2.1	2.1	1.2	.2	38
17004320	09-22-94	5.5	8.7	28	.6	1.6	1.6	1.2	.2	45
17004320	03-15-95	5.6	9.2	29	.6	2.2	1.2	.80	.2	43
17004413	09-22-94	7.8	16	34	.9	1.7	1.9	2.2	<.1	48
17004413	03-15-95	8.2	16	33	.8	2.1	1.8	2.6	.3	47
17004655	01-09-95	18	20	25	.8	3.6	5.4	6.1	<.1	36
17004844	09-21-94	5.2	7.6	30	.6	1.5	1.5	1.5	.1	39
17004844	03-14-95	5.5	7.8	30	.6	2.0	1.7	1.6	.2	35
17005045	06-20-95	5.3	10	36	.7	1.8	1.8	.90	.2	36
17005180	09-20-94	4.6	14	41	.9	1.5	1.4	1.0	.2	41
17005180	03-15-95	4.5	13	39	.9	2.0	1.6	1.6	.2	39
17005203	02-16-95	12	21	34	1	3.6	5.9	6.5	.2	49
17000876	02-14-95	4.8	8.2	35	.6	1.4	1.4	.30	.1	38
17005749	02-15-95	3.9	11	43	.9	1.5	2.9	.40	.1	30
17005750	02-16-95	11	24	39	1	4.8	7.1	7.6	.2	54
17005752	02-16-95	10	24	41	1	4.9	6.8	5.5	.2	53
17006340	02-15-95	2.6	13	55	1	.80	2.6	.70	.1	29

Table 6. Water-chemistry data for wells in the upper Deschutes Basin, Oregon—Continued

Iron, filtered (µg/L as Fe)	Manganese, filtered (µg/L as Mn)	Aluminum, filtered (µg/L as Al)	Bromide, filtered (mg/L as Br)	Solids, sum of constituents, filtered (mg/L)	Solids, residue at 180°C, filtered (mg/L)	δD (per mil)	δ ¹⁸ O (per mil)	Tritium, total (PCi/L)	Tritium, 2 sigma total (PCi/L)
<3	<1	<10	0.18	490	503	-112.0	-13.42	--	--
4	<1	<10	.22	562	558	-110.0	-13.44	--	--
4	1	<10	.19	250	248	-113.0	-13.58	<2.5	1.9
85	3	<10	.11	240	236	--	-14.44	--	--
<3	<1	<10	.15	249	244	--	-14.11	--	--
9	<1	<10	.11	251	255	-115.0	-14.45	.4	.4
210	15	<10	.03	114	126	-112.0	-14.92	<1.0	1.0
14	5	10	.08	204	186	--	-14.06	--	--
16	6	10	.07	275	273	-105.0	-13.62	24.0	1.6
<3	<1	20	<.01	58	54	-92.6	-13.01	32.0	3.2
4	<1	<10	.02	133	124	--	--	--	--
97	18	20	.03	157	148	-110.0	-13.89	<2.5	1.9
4	<1	<10	.02	307	300	-95.9	-12.57	--	--
<3	<1	<10	.02	296	290	-98.2	-12.56	--	--
5	<1	<10	.06	212	202	--	-14.10	--	--
<3	<1	<10	.02	110	96	-115.0	-15.46	--	--
9	<1	<10	<.01	113	108	-98.8	-13.11	--	--
<3	<1	<10	.01	111	107	-98.4	-13.19	--	--
11	1	10	<.01	151	125	-98.5	-13.03	--	--
4	<1	<10	.02	151	144	-99.7	-13.13	--	--
<3	<1	<10	.09	192	182	--	--	--	--
6	<1	<10	<.01	95	94	-95.0	-12.79	--	--
16	4	30	<.01	93	90	-100.0	-13.04	--	--
5	<1	<10	.01	98	98	-110.0	-14.66	9.3	2.6
4	<1	<10	<.01	115	112	-96.2	-12.70	--	--
<3	<1	<10	<.01	113	111	-96.8	-12.75	--	--
5	<1	<10	.05	186	174	--	-14.77	--	--
3	<1	<10	<.01	90	82	--	-14.57	--	--
9	<1	<10	.02	87	80	--	-14.56	--	--
<3	<1	10	.06	194	184	-124.0	-15.58	--	--
3	<1	10	.06	189	176	-122.0	-15.65	<2.5	1.9
150	47	10	.01	85	70	--	-14.52	--	--