OREGON STATE ENGINEER GROUND WATER REPORT NO. 14

STATE OF OREGON

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STATE ENGINEER

SELECTED GROUND-WATER DATA IN THE EUGENE-SPRINGFIELD AREA, SOUTHERN WILLAMETTE VALLEY, OREGON

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PREPARED IN COOPERATION WITH
THE UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OCTOBER, 1970

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SELECTED GROUND-WATER DATA IN THE EUGENE-SPRINGFIELD AREA, SOUTHERN WILLAMETTE VALLEY, OREGON

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By F. J. Frank and Nyra A. Johnson

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INTRODUCTION

Purpose of This Report and Relation to Other Studies

The cities of Eugene and Springfield and their outlying districts constitute an area where, because of a rapidly growing population, progressively greater volumes of ground water are being required for industrial, irrigation, and public supplies. Therefore, information is needed to aid in the orderly development and effective management of the ground-water resource throughout the area. To meet this need, this hydrologic study of the Eugene-Springfield area was made by the U.S. Geological Survey in cooperation with the office of the Oregon State Engineer.

A major part of any ground-water resources study is the collection and compilation of data on existing wells. This information when integrated with data on streamflow, geology, and climatology, forms the basis for evaluation of the ground-water resource of the area. The purpose of this report is to make available, in advance of a final interpretive report, basic records of representative wells and springs, water levels, and chemical quality of the ground water in the Eugene-Springfield area. Because it contains much data that will be omitted from the final report, planned for publication as a U.S. Geological Survey water-supply paper, this basic-data report will continue to be useful.

Several previous ground-water studies are related to the Eugene-Springfield project. The study area is included in a previous report on the ground-water resource of the Willamette Valley by Piper (1942). The Oregon State Engineer has published records of wells, water levels, and chemical quality of ground water for several areas in the northern and middle Willamette Valley. Among these areas are: French Priairie (Price, 1961), Molalla-Salem Slope (Hampton, 1963), Eola-Amity Hills

(Price and Johnson, 1965), and the lower Santiam River basin, middle Willamette Valley (Helm, 1968). Hydrographs of four representative wells in the Eugene-Springfield area are shown in annual water-level reports (Sceva and DeBow, 1965, 1966; Bartholomew and DeBow, 1967) prepared by the Oregon State Engineer's office. Figure 4 in this report shows hydrographs of seven wells, five of which are listed in the State Engineer's reports.

Acknowledgments

Thanks are extended to well owners and operators, whose cooperation aided in the collection of the basic data used to compile this report. Special thanks are given to the drillers who furnished records of wells and other information about the water-yielding characteristics of rocks in the area.

This report was prepared by the U.S. Geological Survey under the general supervision of Stanley F. Kapustka, district chief of the Water Resources Division in Oregon. The project is part of a continuing cooperative program of water-resources investigations between the U.S. Geological Survey and the Oregon State Engineer.

Location and Description of the Area

The Eugene-Springfield area lies between long 122°52'30" on the east, long 123°22'30" on the west, lat 44°00' on the south, and lat 44°15' on the north. The approximately 420-square-mile area includes that part of the southern Willamette Valley between about Marcola on the east and Elmira on the west and extends in a south-north direction from Eugene to about 1.5 miles north of Junction City. The boundaries and general features of the study area are shown in figure 1.

About half the study area is in the southernmost part of the main valley plain of the Willamette Valley, beginning near the junction of the headwater branches of the Willamette River (McKenzie, Middle Fork, and Coast Fork). The lower foothills of the Coast Range, including the Fern Ridge Reservoir and the Long Tom River, comprise the western and southwestern parts of the area. The eastern part includes lower slopes and foothills of the Cascade Range and the southern end of the Mohawk River drainage.

Occurrence and Availability of Ground Water

Because of different geologic and hydrologic conditions in the area, the occurrence, quality, and availability of ground water vary considerably from place to place. The oldest rocks, in the western part of the area, are sandstone, mudstone, and shale. These rocks are of low porosity and are poor aquifers. Younger sedimentary rocks are found in the southern part of the area near Eugene, and along the foothills of the eastern part. The consolidated rocks in the area are generally fine grained and relatively impermeable and, even where saturated, do not yield water readily to wells. In the eastern part of the upland section of the area, volcanic rocks of andesitic and basaltic composition are

Figure 1.--Map showing boundaries and general features of the Eugene-Springfield area.

poor aquifers. Some of the water from marine sandstone and shale is too saline for most uses. The most productive ground-water reservoirs in the Eugene-Springfield area are related to the alluvial deposits (sand and gravel) of the McKenzie and Willamette Rivers; consequently, the high-yield wells are on or adjacent to the valley plain that is underlain by the alluvial deposits. The water table in the alluvial aquifers is generally only a few feet below land surface. Pumping lifts are relatively small, and large-diameter wells produce moderate to large quantities of ground water of good chemical quality.

EXPLANATION OF DATA

Well-Numbering System

Designations of wells discussed in this report are based on the official system for rectangular subdivision of public lands. The number indicates the location of the well or test hole by township, range, section, and position within the section. A graphic illustration of this method of well location is shown in figure 2. The first numeral indicates the township; the second, the range; and the third, the section in which the well is located. The letters following the section number locate the well within the section. The first letter denotes the quarter section (160 acres); the second, the quarter-quarter section (40 acres); and the third, the quarter-quarter-quarter section (10 acres). For example, well 16S/5W-16bcc is in SW¼SW¼NW¼ sec. 16, T. 16 S., R. 5 W. Where two or more wells are located in the 10-acre subdivision, serial numbers are added after the third letter.

Springs are numbered in the same manner except that the letter "s" is added following the final letter. The first spring recorded in SE¼SE¼SE¼ sec. 29, T. 15 S., R. 5 W., would have the number 15S/5W-29ddds.

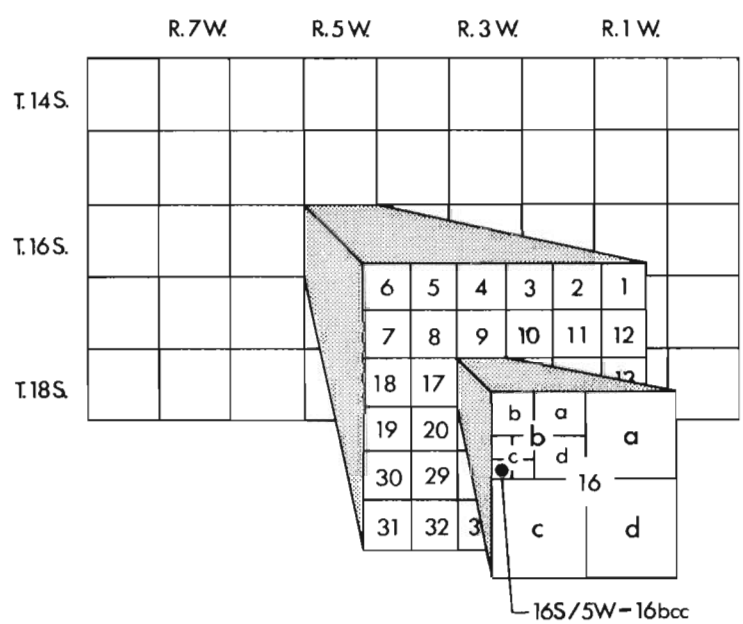


Figure 2.--Well-numbering system.

Water-Level Fluctuations

Hydrographs in figures 3, 4, and 5 show fluctuations of water levels in 13 selected wells. The hydrograph in figure 3 shows the fluctuations of water level in a well during the period 1928-70, and the hydrographs in figure 4 show the fluctuations of water level in seven wells during the period 1962-70.

Water levels rise and fall seasonally during the year, as shown by the hydrographs in figures 4 and 5. Rising water levels on the hydrographs represent periods when more water is added to the subsurface reservoir than is discharged; declining water levels indicate a period when more water is discharged from the reservoir than is added. As the hydrographs in figures 4 and 5 show, the water levels are highest during the wet winter and spring months and lowest during the dry summer and autumn months.

Records of Wells

Table 1 contains records of 632 representative wells whose locations are shown on plate 1. Most of the well data were obtained from well drillers' reports submitted to the office of the Oregon State Engineer; some of the data were supplied by the well owners or operators.

In the "Use" column of table 1, only the principal uses of the well waters are given. The public-supply wells listed include those supplying water for schools, municipalities, water districts, and subdivisions.

Specific conductance (tables 1 and 4), expressed as micromhos per centimeter at 25°C, is a measure of the ease with which electricity will pass through water and is a rough measure of the dissolved-solids content of water. Most water that occurs naturally will conduct an electrical current. Conductivity depends mainly on the number and kinds of ions in solution and on the temperature of the water.

Drillers' Logs of Wells

Table 2 contains lithologic logs of wells. Nearly all the logs were obtained from drillers' reports submitted to the Oregon State Engineer. Description of the rock materials penetrated varies depending on the terminology of the person compiling the log. For example, compacted clay may be called "clay," "shale," or "hardpan." Compacted gravel and clay may be referred to as "cemented gravel," "dirty gravel," "clay and gravel," or "conglomerate." Weathered consolidated rocks may be labeled "boulders," "conglomerate," or "clay," depending on the stage of weathering. In this report, the logs have been edited for consistency of presentation but have otherwise remained unchanged.

Altitudes given in the well logs have been interpolated from topographic maps.

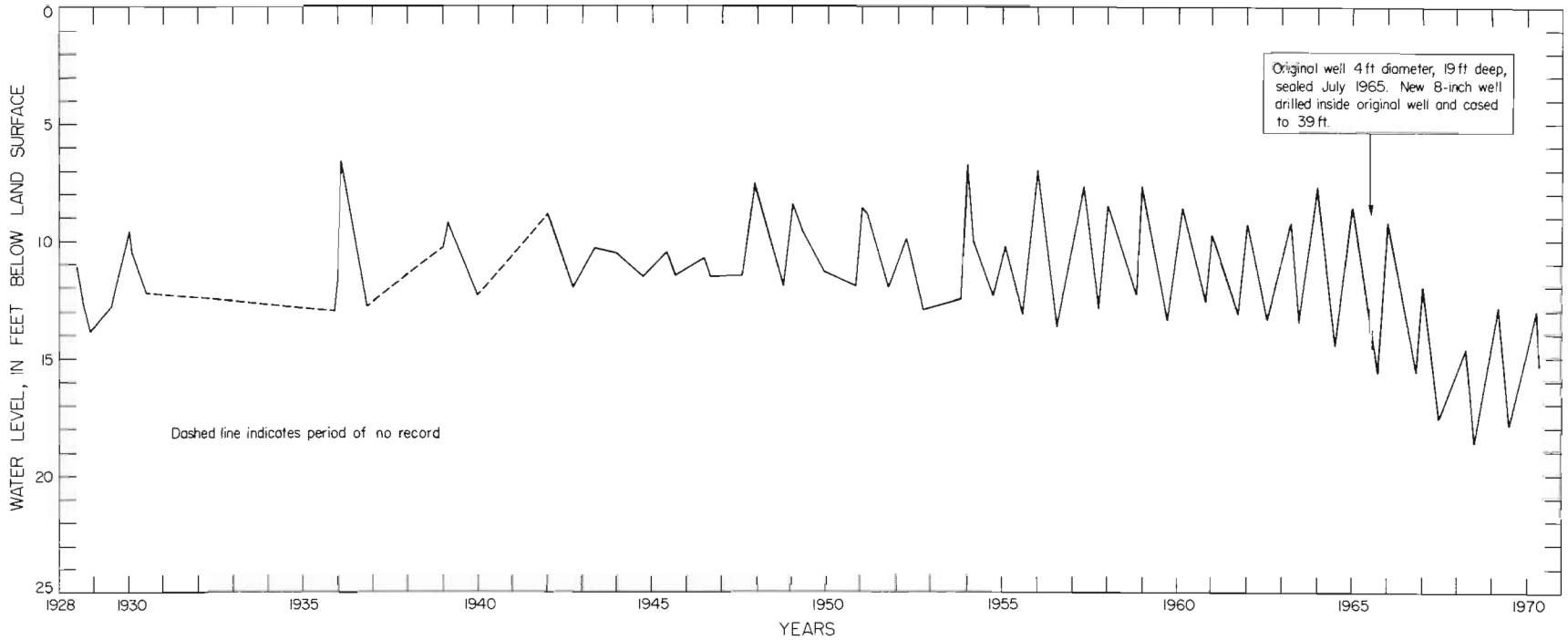


FIGURE 3--WATER-LEVEL FLUCTUATIONS IN WELL 16S/3W-32acd1, DURING THE PERIOD 1928-70.

Figure 4.--Hydrographs of seven selected wells in the study area, and monthly precipitation at Eugene Airport, 1962-70.

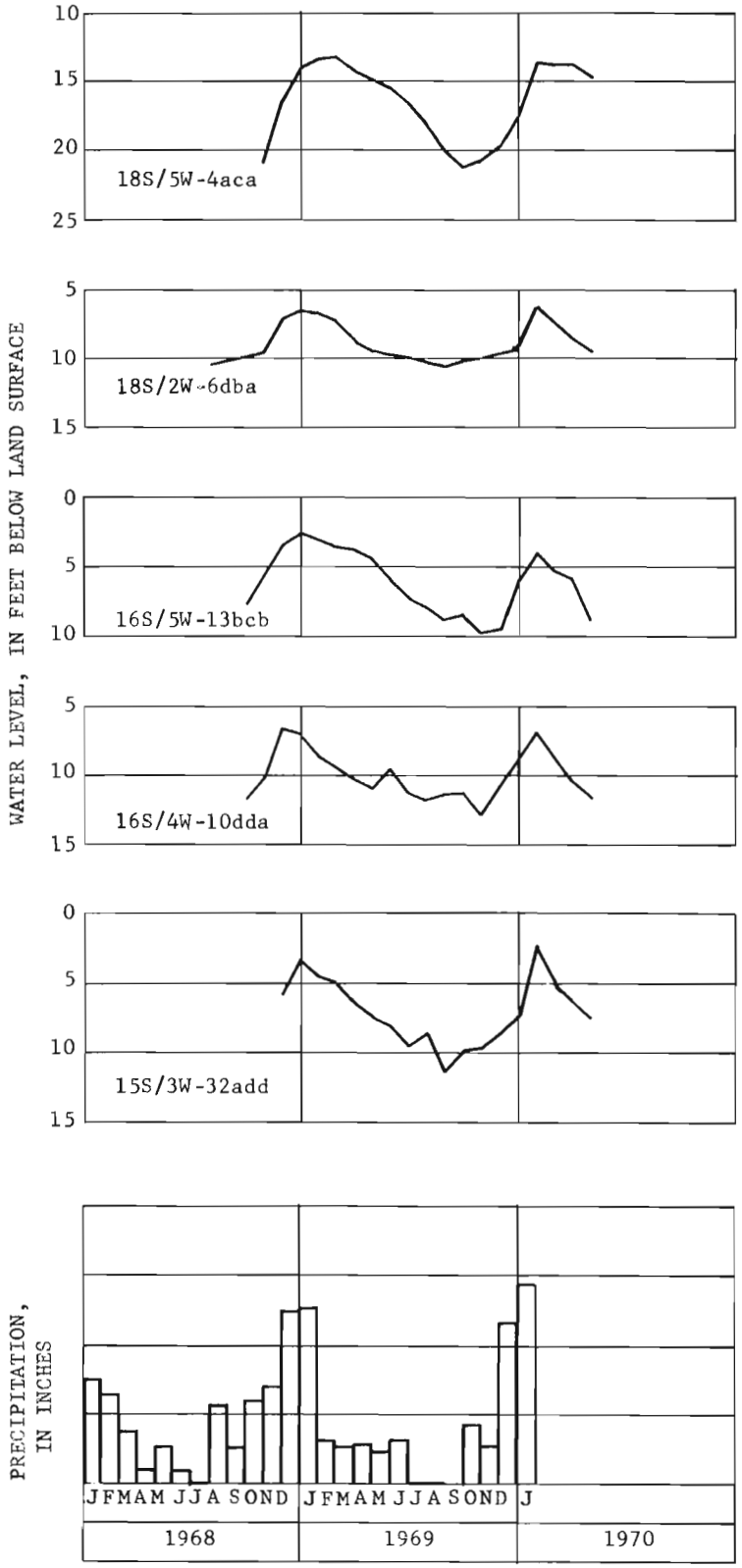


Figure 5.--Monthly water-level fluctuations in five selected wells in the study area, and monthly precipitation at Eugene Airport, 1968-70.

Records of Springs

Table 3 contains records of eight springs that are fairly representative of a great many springs in the upland parts of the area. None of the springs and seeps that occur along the McKenzie and Willamette Rivers is included in table 3.

Chemical Quality of the Ground Water

Table 4 presents 23 analyses of water from wells. Fifteen of the samples were analyzed for most constituents usually reported in water analyses; eight were analyzed for only a few constituents. Seventeen of the analyses were made by the U.S. Geological Survey, and the rest were made by commercial laboratories. Concentrations of dissolved-mineral constituents are reported in milligrams per liter. For example, 1 milligram per liter is equivalent to 1 pound of substance per million pounds of water, or 8.33 pounds per million gallons of water.

REFERENCES

Bartholomew, W. S., and DeBow, Robert, 1967, Ground-water levels, 1966: Oregon State Engineer Ground Water Rept. 12, 122 p., 4 figs.

Hampton, E. R., 1963, Records of wells, water levels, and chemical quality of ground water in the Molalla-Salem Slope area, northern Willamette Valley, Oregon: Oregon State Engineer Ground Water Rept. 2, 174 p., 6 figs.

Helm, D. C., Records of wells, water levels, and chemical quality of water in the lower Santiam River basin, middle Willamette Valley, Oregon: Oregon State Engineer Ground Water Rept. 13, 186 p., 1 pl., 4 figs.

Piper, A. M., 1942, Ground-water resources of the Willamette Valley, Oregon: U.S. Geol. Survey Water-Supply Paper 890, 194 p., 10 pls., 3 figs.

Price, Don, 1961, Records of wells, water levels, and chemical quality of ground water in the French Prairie-Mission Bottom area, northern Willamette Valley, Oregon: Oregon State Engineer Ground Water Rept. 1, 314 p., 10 figs.

Price, Don, and Johnson, Nyra A., 1965, Selected ground-water data in the Eola-Amity Hills area, northern Willamette Valley, Oregon: Oregon State Engineer Ground Water Rept. 7, 55 p., 1 pl., 4 figs.

Sceva, J. E., and DeBow, Robert, 1965, Ground-water levels, 1964: Oregon State Engineer Ground Water Rept. 5, 109 p., 1 fig.

_____1966, Ground-water levels, 1965: Oregon State Engineer Ground Water Rept. 9, 111 p., 2 figs.

Table 1.--Records of wells in the Eugene-Springfield area

Well number: See p. 4 for description of well-numbering system.
Type of well: Dr, drilled; Dv, driven; Dg, dug; B, bored.
Finish: B, open bottom (not perforated or screened); Sc, screened; P, perforated.
Altitude: Altitude of land surface at well, in feet above mean sea level, interpolated from topographic maps.
Water level: Depths to water given in feet and decimals were measured by the Geological Survey; those in whole feet were reported by others or estimated.
Specific conductance of water: Field determination, in micromhos at 25°C.

Type of pump: C, centrifugal; J, jet; S, submersible; P, piston; T, turbine; H, hand; N, none.
Well performance: Yield in gallons per minute, and drawdown in feet below nondischarging water level, reported by owner, operator, driller, or pump company.
Use: D, domestic; PS, public supply; Ir, irrigation; In, industrial; S, stock; T, test; N, none.
Remarks: Ca, chemical analysis of water in table 4; H, hydrograph in fig. 3, 4, or 5; lithologic log of well in table 2; P or B, pumped or bailed, for the indicated number of hours, when drawdown was measured. Remarks on adequacy, dependability, and general quality are reported by owners, tenants, drillers, or others.

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
								T. 15 S., R. 3 W.											
21dad	Pacific Power & Light Co.	Dr	1963	93	6	93	P, 79-91	75	18	Sand and gravel	331	7	10-16-63	--	J, 3/4	25	27	In	P 24 hr, L.
22cbd	Keith Barker	Dr	1968	40	6	39	P, 36-38	11	29	do.	332	5.32	4-29-69	410	J, 1/2	30	27	D	B 1½ hr, L.
24cca	Grover Jelden	Dr	1935	66	4	--	--	--	--	--	470	20.98	4-24-69	280	J, 3/4	--	--	D	Can easily be pumped dry during summer.
26aac	Monty Jelden	Dr	1966	35	6	35	B	--	--	Shale	460	20.29	4-24-69	260	S, 1/2	50	5	D	B 1 hr, L.
26baa	Walter Holt	Dr	1949	60	6	--	--	--	--	--	365	10.64	4-24-69	240	J, 3/4	--	--	D	Can be pumped dry during summer.
27bda	Dave Malpass	Dv	--	16	2	16	--	--	--	--	337	5.60	4-24-69	--	N	--	--	N	
28cab	Oregon State Highway Comm.	Dr	1961	105	6	62	P, 34-54	20	30	Sand and gravel	342	10.05	7-14-69	420	S, 3	40	12	PS	P 2 hr, L.
28cad	do.	Dr	1965	150	6	150	P, 55-60	20	30	do.	342	8.93	7-14-69	220	S, 3	27	30	PS	P 4 hr, L.
29ccc	J. R. Simplot Co.	Dv	1964	18	2	18	P, 16-18	13	5	do.	240	12	9-15-64	--	C, 3/4	4	--	D	P 2 hr, L.
31bab	Roy Bowers	Dr	1952	60	6	--	--	--	--	--	335	--	--	--	J, 3/4	--	--	D	
32add	C. D. Miller	Dr	1959	35	6	35	P, 27-35	15	20	Sand and gravel	345	5.48	11-13-68	--	C, 1	45	35	D	B, L. H (fig. 5).
34cdd	James Witzig	Dr	--	85	6	--	--	--	--	do.	410	10.27	4-25-69	280	S, 1/3	--	--	D	
								T. 15 S., R. 4 W.											
19dbd	Martin Strome	Dr	1968	1,030	10	380	P, 18-100, 115-380	15	85	Sand and gravel	315	14.30	8-22-69	--	N	450	--	N	P ½ hr, L; pumps excessive amount of sand.
19dda	do.	Dv	1968	28	5	27	P, 23-28	8	20	do.	310	6	3-28-63	--	C	350	6	Ir	P 1 hr, L.
22cdb1	Eugene Chemical Works	Dr	1962	40	8	35	P	18	18	do.	316	15.57	10- 3-68	--	C	--	--	--	L.
22cdb2	do.	Dr	1967	30	8	30	P, 21-29	18	10	do.	316	15.32	10- 3-68	--	C, 15	500	4	Ir	P 1 hr, L.
22cdd	do.	Dr	1962	155	8	155	P, 103-155	45	110	do.	320	19	3-13-62	--	T, 10	300	27	In	P 4 hr, L.
24dbd	Don Keen	Dr	1966	30	6	30	--	--	--	do.	325	8.23	4-23-69	360	C, 3/4	--	--	D	
25aba	J. R. Johnson	Dv	--	20	1¼	20	--	--	--	do.	325	--	--	330	C, 1/2	--	--	D	
25acd1	Paul Bowers	Dv	1964	25	5	25	P, 21-25	16	6	do.	331	11	7- 7-64	220	C, 1	20	7	D	P 1 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 15 S., R. 4 W.--Continued																			
25acd2	Paul Bowers	Dv	1964	18	2	18	--	--	--	Sand and gravel	331	7.79	4-23-69	--	N	--	--	N	
25cdc	Roy Bowers	Dv	1930	12	1½	12	--	--	--	do.	331	6.50	4-24-69	--	N	--	--	N	
26bbc	Richard Stroda	Dr	1964	35	6	35	--	--	--	do.	322	15	5- 4-64	--	C, 3/4	25	5	D	B 1 hr, L.
26bcb	Vera Stroda	Dr	1966	29	8	29	--	--	--	do.	319	12.39	10- 3-68	--	N	--	--	N	Reported to have insufficient water for irrigation.
26cda	Mark Bowers	Dr	1967	62	6	47	P, 46	--	--	do.	325	16	5-23-67	210	S, 1/2	12	25	D	B 1 hr, L.
27dad	George Stroda	Dv	1945	22	5	22	--	--	--	do.	315	11.29	10- 3-68	--	C, 15	--	--	Ir	
27ddb	do.	Dv	1945	20	4	20	--	--	--	do.	315	13.88	9-12-69	--	C, 15	--	--	Ir	
28ada	O. K. Peterson	Dr	1967	50	10	29	P, 18-29	20	9	do.	314	13.47	10- 4-68	--	C	400	5	Ir	P 1 hr, L.
28bad1	do.	Dr	1957	30	8	30	P, 24-30	20	10	do.	320	13.10	10- 4-68	--	N	200	25	N	P 2 hr.
28bad2	do.	Dr	1967	34	10	34	P, 22-33	20	13	do.	320	14.14	7-16-69	--	C, 20	550	1.18	Ir	L; pump tested by U.S.G.S. for 9 hr.
28cab	do.	Dr	1967	37	10	37	P, 19-36	18	18	do.	316	15.78	10- 4-68	--	C, 20	400	5	Ir	P, L.
28dbb	do.	Dr	1967	33	10	32	P, 22-32	20	12	do.	315	13.10	10- 4-68	--	C, 25	400	4	Ir	P 1 hr, L.
29bac	Martin Strome	Dv	1968	28.5	5	26.5	P, 23-28	8	20	do.	312	6	3- 5-68	--	C	350	3	Ir	Do.
30bba	C. M. Hansey	Dv	1967	27	4	27	P, 22-27	20	4	do.	310	9	6-20-67	--	C, 3	100	11	Ir	P 2 hr, L.
30daa	Gary Waldien	Dv	1967	27	4	27	P, 25-27	21	7	do.	320	15.52	10- 2-68	--	N	40	8	N	P 2 hr.
30ddd	Upton Mobile Home Court	Dv	1966	28	2	25	P, 23-25	20	8	do.	318	8	5-25-66	--	C, 1.5	50	7	D	P 2 hr, L.
31dda	City of Junction City	Dv	1967	28	5	28	P, 24-28	20	7	do.	325	7	5-16-67	--	C	300	9	PS	P 2 hr.
32bdd	do.	Dv	1966	30	6	30	P, 24-30	21	6	do.	325	16	8-13-66	--	C, 30	100	6	PS	Do.
32caa	do.	Dr	1967	53	6	42	P, 29-30	19	11	do.	325	6	3- 7-67	--	C	230	23	PS	P 1/2 hr.
32cab1	do.	Dr	1938	150	8	148	P, 138-148	16	90	do.	325	12	1940	--	T, 15	160	23	PS	L; originally drilled 450 feet deep.
32cab2	do.	Dr	1940	120	8	120	--	--	--	do.	324.5	12	1940	--	T, 15	--	--	PS	
32cab3	do.	Dr	1942	79	10	79	--	--	--	do.	324.5	12	1942	--	T, 20	300	23	PS	P.
32cab4	do.	Dr	1968	135	12	88	Sc, 85-125	20	55	do.	325	14	8-23-68	--	T	940	38	PS	P 8 hr, L, Ca.
32dcb	do.	Dv	1952	32	5	32	P, 28-32	--	--	do.	324.5	12	1952	--	C, 30	350	10	PS	
33acb	Ben Jensen	Dv	1940	26	5	26	--	--	--	do.	322	15.94	9-22-69	--	C, 15	--	--	Ir	

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
								T. 15 S., R. 4 W.--Continued											
33acc	Bill Jensen	Dv	--	25	4	25	--	--	--	Sand and gravel	320	14.60	9-22-69	--	C, 10	--	--	Ir	
34bdc	Ben Jensen	Dv	--	26	5	26	P, 6-21	6	20	do.	320	10.23	9-22-69	--	--	450	5	Ir	P 1 hr, L.
35bca	Howard Bowers	Dr	--	20	6	20	--	--	--	do.	325	--	--	--	C, 20	--	--	Ir	
35cdc	Detering Orchard	Dr	--	20	10	20	--	--	--	do.	325	6.70	10- 3-68	--	C, 20	660	1	Ir	P 2 hr.
36ccb	Wyatt School Dist. 63C	Dr	1964	46	6	45	B	34	12	do.	336	15	11- 9-64	--	S, 3/4	12	15	PS	P 1½ hr, L.
36ddb	Carl Keen, Jr.	Dr	1968	55	6	55	P, 20-55	10	45	do.	325	8	5- 7-68	--	S	20	30	D	B 1 hr, L.
								T. 15 S., R. 5 W.											
19ddc	L. F. Watts	Dr	--	57	4	--	--	--	--	--	400	21.08	5-20-69	70	J, 1	--	--	D	
20cdd	L. H. Thoele	Dr	1967	150	6	123	P, 119-122	42 118	10 5	Sand and silt Sand and clay	350	6.98	5-13-69	--	S, 1	35	100	D	B 1 hr, L.
20dcd	Bingham Nelson	Dr	1968	110	5	42	B	48	4	Shale	340	9	3- 4-68	--	J	3	80	D	B 1 hr.
21cad	Dale Bullock	Dr	1963	166	5	115	B	112	4	Sand	320	23.13	5-13-69	400	J, 1/2	3	73	D	B 1 hr, L.
21dcb	Kelly Moffett	Dr	1962	82	5	75	B	75	2	do.	320	22.75	5-13-69	--	J, 1/2	20	50	D	B 1 hr.
22ccd	Charles Wagner	Dr	--	80	8	--	--	--	--	--	320	--	--	215	J	--	--	D	
25daa1	D. S. McGauhey	Dv	--	21	1¼	21	--	--	--	--	315	4.00	5-20-69	--	N	--	--	N	
25daa2	do.	Dv	1949	24	4	24	--	--	--	--	313	4.90	5-21-69	--	C, 5	--	--	Ir	
26bdc	John Kokkeler	Dv	1937	21	2	21	--	--	--	--	315	--	--	325	C, 3/4	--	--	D	
27dcc	Jupe Holms	Dr	1961	55	6	21	B	23 52	2 2	Shale do.	330	12.05	5-20-69	--	J, 1	20	28	D	B 1 hr, L.
30cbc	Lester Larsen	Dr	1966	135	6	68	B	72	4	Shale and sandstone	475	25.49	5-13-69	--	S, 1	21	100	D	Do.
30ccd	R. D. Barber	Dr	1963	75	6	55	B	68	3	Shale	450	9	9-24-63	170	J, 1	28	20	D	B 1 hr, L.
30dcb	Gene Moritz	Dr	1964	243	6	92	B	--	--	Sandstone	500	102.66	5-14-69	90	P, 1/2	5	130	D	B 1½ hr, L.
31cca	C. J. Mahony	Dr	1925	86	4	25	--	--	--	--	400	46	5-14-69	460	J, 1/2	--	--	D	
31dca	Verne Bronson	Dr	1958	44	6	--	--	--	--	--	400	3.78	5-14-69	--	C, 1/2	--	--	D	
32adb	Bernard Gamble	Dr	1966	70	5	30	B	--	--	Shale	350	19.41	5-15-69	200	J	28	7	D	B 1 hr, L.
32add	Rex McBride	Dr	1964	61	5	33	B	59	3	do.	375	36.03	5-20-69	145	J, 1	28	4	D	B 1 hr.
33bcc	Wilson Criteser	Dr	1964	92	5	58	B	89	2	do.	350	8	8-20-64	160	J, 1/4	20	52	D	B 1 hr, L.
33cd	Claud Chamberlain	Dr	1964	88	6	26	B	--	--	Sandstone	350	21	6-11-64	--	N	9	50	N	B 1 hr.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
								T. 15 S., R. 5 W.--Continued											
34cbb	H. L. Harris	Dr	1967	71	6	35	B	60	5	Sandstone	325	21	2-25-67	70	S, 1	42	2	D	P 1 hr, L.
34cbc	do.	Dr	1956	60	6	20	B	--	--	do.	325	28	6- 6-56	--	J, 1/2	30	12	D	B, L.
34ccc	B. Bayliss	Dr	1969	50	6	35	B	--	--	do.	325	12.5	9-10-69	--	J, 1	--	--	D	
36dcc	W. D. Washburne	Dr	1957	37	5	37	P, 27-37	29	8	Sand	328	9	11-18-57	--	C, 1	42	--	D	B 1 hr, L.
								T. 15 S., R. 6 W.											
24dcb	John Knebel	Dv	1947	23	1½	21	--	--	--	--	330	18	5-20-69	--	C, 1/2	--	--	D	
25bdc	Harold Pfeiffer	Dr	1958	100	6	40	B	--	--	--	575	11.07	5-13-69	--	N	--	--	N	
35dac	V. R. Glover	Dr	1967	109	6	80	--	--	--	--	550	--	--	--	S, 1	--	--	D	Two springs at this location are reported to have high bacteria count.
36dbc	Lane McFadden	Dr	1968	115	6	85	P, 50-80	50	30	Shale	435	16	8-16-68	420	S, 3/4	10	20	D	B 2 hr, L.
								T. 16 S., R. 2 W.											
10dbb	Larry McCallister	Dr	1966	280	6	136	B	--	--	--	850	80	6-13-66	200	J, 1	60	200	D	B 1 hr, L.
13bbc	Calvin Rose	Dr	1967	63	6	39.5	B	--	--	--	630	6	3-22-67	150	J, 3/4	30	57	D	do.
13bcb	do.	Dr	1967	73	6	63	B	--	--	--	610	10	3-31-67	120	J, 3/4	45	30	D	B 1 hr.
13bcc	J. L. Piock	Dr	1967	290	6	30	B	--	--	--	590	19.96	7-17-68	100	S, 1	10	140	D	B 1 hr, L.
13cdd	Charles Spencer	Dr	1967	60	6	35	B	--	--	--	560	23.46	7-17-68	--	S, 1	18	35	D	B 2 hr, L.
14add	Lloyd Dowdy	Dr	1950	93	4	--	--	--	--	--	650	Flows	7-17-69	120	C, 1	--	--	D	Flows 5-7 gpm.
14dba	J. E. Fisher	Dr	1966	115	6	83	B	--	--	--	720	80	10-18-69	--	J, 3/4	12	35	D	B 1 hr, L.
23abd	Richard Schmunk	Dr	1967	240	6	52	B	--	--	--	700	36.75	7-18-68	220	S, 2	20	--	D	Ca.
23acc	do.	Dr	1965	90	6	--	B	--	--	--	520	22	1965	--	S, 1	20	25	D	B 1 hr.
23dbb	Mack Landreth	Dr	1959	110	6	72	B	62 90	4 15	Volcanics do.	480	6	9-28-68	--	J	12	60	D	B 1 hr, L.
24bbc	Everett Weldon	Dr	1966	88	6	77	P, 72-77	72	5	Sand	620	18	7-20-66	--	J, 3/4	20	20	D	B 2 hr, L.
26bca	Norman Parmenter	Dr	1964	48	6	47	B	--	--	Sand and gravel	500	8.35	7-18-68	--	J, 1/3	20	20	D	B 1 hr, L.
26bdb	R. L. Bruce	Dr	1967	50	6	49	B	--	--	do.	480	10	11-16-67	--	J, 1/2	15	25	D	B 1 hr.
26bdc	R. E. Chamberlin	Dv	1939	20	1½	20	--	--	--	do.	485	12	7-18-68	250	C, 1/2	--	--	D	
26ccc	Walter Wallace	Dr	1963	60	6	60	B	8	40	do.	480	9.22	7-12-68	140	S, 1	17	34	D	B 1 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 16 S., R. 2 W.--Continued																			
26ccd	Cleo Wallace	Dr	--	65	6	--	--	--	--	Sand and gravel	480	8.99	7-19-68	120	J, 3/4	--	--	D	
27aad	C. F. Christian, Jr.	Dr	1966	100	6	60	B	--	--	--	520	33.20	7-18-68	180	S, 1	20	35	D	B 1 hr, L.
27dcd1	Mohawk Packing Co.	Dr	1964	125	6	83	B	--	--	Sand and gravel	500	14	7-17-69	80	S, 2.5	25	40	In	B 1½ hr, L.
27dcd2	do.	Dr	1964	140	6	111	B	--	--	do.	500	--	--	--	--	5	--	N	Inadequate supply of water. Well abandoned.
33add	R. A. Keeney	Dr	1966	235	6	63	B	--	--	--	560	30	8-16-66	225	S, 1	15	150	D	B 1 hr, L, Ca.
34abb	Mohawk Community Church	Dr	1959	58	6	50	B	--	--	Sand and gravel	500	9	3-15-59	--	J, 3/4	15	35	D	B 1 hr.
34bbb	Arden Johnson	Dr	1960	117	6	58	B	--	--	do.	565	10	11- 9-60	--	S, 1	10	100	D	B 1 hr, L.
34cdc	M. A. Nadeau	Dr	1961	73	6	72	P, 32-34, 64-70	30 67	4 3	do. do.	480	9.92	8-20-69	140	C, 2	20	20	Ir	P 1 hr, L, Ca. H (fig. 4).
34dbb	Floyd Williams	Dr	1968	80	6	--	--	--	--	do.	485	--	--	75	S, 3/4	--	--	D	
35dcb	James Simmons	Dr	1968	68	6	28	B	--	--	--	555	15	9-12-64	--	J	7	50	D	B 1 hr.
35dcd	Vern Shaerer	Dr	1966	185	6	21	B	--	--	--	720	70	3-11-66	--	S, 1	70	110	D	B 1 hr, L.
T. 16 S., R. 3 W.																			
2bac	Walt Swindell	Dr	1968	215	6	70	B	185	30	Claystone	710	30	4-25-69	440	S, 3/4	20	185	D	P 1 hr, L.
2bca	L. H. Stewart	Dr	1967	180	6	42	B	170	10	Sandstone	730	54.15	4-25-69	--	N	20	--	N	P.
3aad	Bill Altland	Dr	--	280	6	--	--	--	--	--	610	--	--	420	S, 3/4	--	--	D	
4dcd	Robert Bailey	Dr	1967	100	6	28	B	--	--	Sandstone	410	51.03	5- 1-69	--	J, 3/4	5	65	D	P 1 hr, L.
5add	Merlyn Smith	Dr	1968	57	6	57	P, 51-56	--	--	Sand and gravel	355	7	7-30-68	195	S, 1½	30	0	D	B 1 hr, L.
7aca	Cleve Ramsey	Dr	1967	41	6	41	B	--	--	do.	355	4.25	4-30-69	180	S, 1/2	55	18	D	Do.
7acb	Norman Clark	Dr	1965	37	6	37	P, 32-37	--	--	do.	354	17	10-18-65	--	J, 1	35	14	D	B 2 hr.
7bca	Cecil Collingwood	Dr	1965	40	6	40	P, 38-40	--	--	do.	355	5	4-29-69	120	C, 1/2	--	--	D	
8aab1	R. C. Mitchell	Dr	1961	54	6	54	--	--	--	do.	362	6	9- -63	190	S, 2	--	--	D	
8aab2	do.	Dv	--	19	1¼	19	--	--	--	do.	362	6.27	4-29-69	190	N	--	--	Ir	
8bad	Al Clements	Dr	1962	65	10	--	--	--	--	do.	362	8.38	4-29-69	220	S, 3	--	--	D,S	
9aad	Fred Thomas	Dr	1966	113	6	28	B	--	--	Shale	440	24.90	5- 1-69	410	J, 3/4	18	30	D	B 2 hr, L, Ca.
9abd	Mark Christensen	Dr	1965	75	6	63	B	48	27	Sand and gravel	385	24.22	5- 1-69	--	--	39	10	D	B 2 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
								T. 16 S., R. 3 W.--Continued											
17bdc	Coburg Veneer Corp.	Dr	1967	36	6	36	P, 31-36	--	--	Sand and gravel	363	3.16	5- 1-69	--	C, 5	60	5	--	P 1 hr; used for fire protection.
17cbd	do.	Dr	1964	50	6	50	P, 40-50	19	50	do.	363	6	8-12-64	180	S, 1	50	0	In	P, L.
18bcc	C. A. Barrows	Dv	1949	15	1½	15	--	--	--	do.	360	4.10	4-30-69	--	N	--	--	N	
18cdd	Eve Feulner	Dr	1955	40	6	40	--	--	--	do.	370	7	4-30-69	--	C, 7½	--	--	Ir	
19bdd	Doug Green	Dr	--	28	6	28	--	--	--	do.	370	5	4-30-69	--	C, 7½	--	--	Ir	
20dbd	E. K. Howard	Dv	--	45	4	--	--	--	--	do.	382	6.82	5- 9-69	--	N	--	--	N	
21aac	J. A. Stoneburg	Dr	1954	60	5	--	--	--	--	do.	385	10.70	5- 2-69	300	J, 1/2	--	--	D	
22cab	do.	Dr	1965	85	6	18	B	--	--	--	440	50	9- 1-65	--	J, 1/2	3	10	D	B 2 hr, L.
22cba	H. E. Woodruff	Dr	1965	65	6	17	B	--	--	--	420	16.91	5- 2-69	300	J, 1/2	5	35	D,S	B 2 hr.
26cba	Chris Coglietti	Dr	1952	100	6	--	--	--	--	--	460	22.40	5- 8-69	560	J, 1	--	--	D	
27ddd	Elmer Meek	Dr	1947	120	6	50	B	--	--	--	440	--	--	--	J, 1	--	--	D	Has limited water supply during summer.
29aab	City of Coburg	Dr	1963	201	12	201	P, 35-94	30	64	Sand and gravel	385	5	11- 4-63	--	T, 25	300	59	PS	P 5 hr, L.
29ccd	Morris Funke	Dr	1968	244	10 8	160 241	P, 40-45, 52-58, 75-80, 157-241	--	--	do.	380	11.50	5- 7-69	--	T, 20	50	5	Ir	B 1 hr, L.
29ddb	Mr. Van Massey	Dr	1967	32	12	32	P, 18-32	15	17	do.	390	12	6-22-67	--	T, 30	100	20	Ir	B 1 hr.
30dba	S. K. Coburn	Dr	1967	231	10	18	P, 18-230	20	200	do.	370	9.82	7-10-69	220	T, 20	300	7.3	Ir	L; pump tested by U.S.G.S. for 9 hr.
30dbc	Roy Nelson & Assoc.	Dr	1963	32	12	32	P, 18-32	6	26	do.	370	4.40	5- 8-69	--	C	800	12	Ir	P 4 hr.
31aad	Agnes Adair	Dr	1967	185	10	185	P, 35-65, 85-130, 130-167	35	112	do.	375	8.22	5- 7-69	--	C, 10	500	42	Ir	P 3 hr, L.
31aca	Harry Harbert	Dr	1968	187	12	187	P, 18-187	18	160	do.	377	12.38	5- 8-69	--	C	630	50	Ir	P 4 hr, L.
31cda	George Knox	Dr	1966	50	8	50	P, 21-50	20	30	do.	375	11.60	5- 8-69	240	S, 10	120	15	Ir,D	P 3 hr.
32aab	City of Coburg	Dr	1958	69	12 10	46 46-69	P, 26-70	20	50	do.	384	29	5- 7-69	--	T, 20	279	60	PS	P 5 hr.
32acd1	Leo Sidwell	Dr	1965	39	8	40	P, 18-40	18	29	do.	389	19.28	7- 8-69	--	--	150	12	Ir	P 12 hr; well originally dug to 19 ft in 1928; deepened in 1965. H (fig. 3).
32acd2	Pearl Sidwell	Dr	1967	177	10	177	P, 18-177	18	150	do.	390	7	1-27-67	--	T, 20	560	20	Ir	P 4 hr.
32bcb	Leon Funke	Dr	1966	180	10	180	P, 18-25, 47-55, 62-68, 78-82, 94-180	18	103	do.	378	8	3-14-66	--	T, 25	620	35	Ir	P 6 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 16 S., R. 3 W.--Continued																			
32caa	Kate Sidwell	Dr	1967	220	10	219	P, 18-80, 116-170, 194-201	18	70	Sand and gravel	382	18.84	5- 7-69	--	T, 20	400	100	Ir	P 1 hr, L.
32dbd1	Leon Funke	Dr	1965	162	10	158	P, 30-157	30	120	do.	390	19.28	8-27-69	--	T, 25	235	14	Ir	L; pump tested by U.S.G.S. for 9 hr. H (fig. 4).
32dbd2	do.	Dr	1968	62	8	61	B	20	40	do.	390	19.64	8-27-69	--	T, 7.5	100	5	In	B 1 hr; used as observation well during pump test.
33adc	Vira Corp.	Dr	1960	85	6	84	B	22	60	do.	402	7	10-21-60	--	S, 1	30	20	In	B 1/2 hr, L.
33add	do.	Dr	1962	87	8	80	P, 32-45, 63-70	20	60	do.	402	5	7- 6-62	--	S, 3	30	10	In	B 1 hr, L.
34bad	William Stevenson	Dr	1940	100	5	--	--	--	--	--	465	--	--	330	S, 1/2	--	--	D,S	
T. 16 S., R. 4 W.																			
2ccd	Detering Orchards	Dr	--	26	10	26	--	15	11	Sand and gravel	332	13.32	10- 3-68	--	C	--	--	Ir	
4aca	Lloyd Harpole	Dr	1966	87	8	79	P, 18-75	18	55	do.	330	16	11-11-66	--	C, 5	400	7	Ir	P 2 hr, L.
4bcd1	C. L. Strome	Dr	1967	37	10	31	P, 19-30	19	10	do.	330	12.65	9-17-68	--	C, 25	500	7	Ir	P 1½ hr, L.
4bcd2	do.	Dv	1965	26	6	27	P, 22-26	18	7	do.	330	13.25	9- 9-69	--	N	300	5	N	P 2 hr.
5cdd1	do.	Dr	1966	66	10	50	P, 23-38	20	25	do.	330	12.14	9-17-69	--	T, 40	125	10	Ir	P 2 hr, L.
5cdd2	do.	Dr	--	28	6	28	--	18	8	do.	330	12.27	9-17-69	--	N	--	--	N	
6acd	Chris Wilde	Dr	1961	44	5	43	P, 25-43	20	23	do.	320	8.02	9-18-68	--	C, 30	60	16	D	P 2 hr, L; well originally drilled to 106 ft; completed at 44 ft.
6bac	Dean McKay	Dr	1960	37	6	36	P, 30-36	22	14	do.	320	2	4-29-60	270	S	25	0	D	P 2 hr.
6bad	do.	Dr	1967	95	6	85	B	10	55	do.	320	7.08	9-18-69	--	S, 1	150	10	D	B 1 hr, L.
7acc	Virgil Vaughan	Dr	1968	28½	5	28	P, 24-28	17	10	do.	332	7.09	9-23-68	220	C, 1.5	35	5	Ir	P 1 hr.
7dab	J. B. Pitney	Dr	1961	55	5	38	P, 20-38	18	30	do.	333	8.80	9-23-68	--	C, 5	100	18	Ir	P 1 hr, L.
8aac	C. L. Strome	Dr	1967	111	10	111	B	15	80	do.	330	12.26	9-17-68	--	T, 40	600	35	Ir	P 4 hr, L.
8cab	L. P. Johnson	Dv	1965	37	2	37	P, 35-37	14	23	do.	335	5	3-13-65	180	C, 1/2	12	11	D	P 1 hr.
9acb	Rupert Edwards	Dv	1957	27	4	27	P, 23-27	15	22	do.	333	13	8-10-57	--	C	450	3	Ir	P 3 hr.
9bda	do.	Dv	1957	25	4	25	P, 21-25	10	15	do.	333	8	8-10-57	--	C, 30	500	6	Ir	P 3 hr, L.
9dba	do.	Dv	--	25	4	20	--	10	15	do.	335	13.49	9-18-68	--	H	--	--	D	
10bcb	Harold Edwards	Dv	1957	26	4	26	P, 22-26	10	16	do.	335	10	7-15-57	--	C	450	4	Ir	P 4 hr.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 16 S., R. 4 W.--Continued																			
10dda	Calvin Banton	Dr	1967	100	6	88	P, 23-48	18	68	Sand and gravel	340	11.55	9-18-68	--	N	--	--	N	L. H (fig. 5).
11cac	Don Cox	Dv	--	22	4	22	--	15	7	do.	340	10.88	10- 8-68	--	N	--	--	N	Reported to have inadequate water supply for irrigation.
11dbc	Waldemar Christensen	Dr	1964	25	12	25	P, 12-25	12	13	do.	340	7.82	10- 8-68	--	C	800	2	Ir	P 2 hr.
12bcc	Hazel Malpass	Dv	1949	16.5	4	16	--	10	6	do.	335	10.61	5- 8-69	--	C	--	--	Ir	
13acb1	G. D. Seifert	Dv	--	18.5	4	18.5	--	10	8	do.	345	4.50	4-30-69	--	C, 5	--	--	Ir	
13dcb	G. L. Zellner	Dr	1965	100	8	82	P, 44-81	18	73	do.	360	19.42	4-30-69	220	S, 1	50	10	D	B 2 hr, L.
15adb	J. T. Brice	Dv	--	20	3	20	--	--	--	do.	345	--	--	--	C, 10	--	--	Ir	
15cdb	G. G. Frost	Dv	1968	27	4	27	P, 22-27	16	11	do.	350	14	5-18-68	--	C, 3	250	7	Ir	P 2 hr, L.
16adal	R. W. Jones	Dr	1963	59.5	6	57	B	19	38	do.	345	9	3- 7-63	--	S, 1	25	45	D	B 1½ hr.
16ada2	do.	Dr	1967	70	6	70	P, 25-60	20	40	do.	345	11	10- 6-67	--	S, 3	45	5	Ir	B 12 hr, L.
16bcd	General Properties	Dr	1964	245	10	240	P, 140-160, 185-210	13 140	14 70	do. do.	340	4	5-18-69	--	S, 7.5	300	90	PS	P 48 hr, L.
16cac	Shadow Hills Golf Course	Dr	1961	140	8 6	83 140	P, 20-35, 62-78, 83-140	18	106	do.	340	10.57	9-23-69	--	S	100	120	Ir	P 6 hr.
16cad	do.	Dr	1962	250	10	240	P, 20-34, 58-162	16 58	18 104	do. do.	340	5	1962	--	T, 20	478	95	Ir	P 120 hr, L.
17aca	J. L. Barber	Dr	1965	65	6	65	--	--	--	do.	340	--	--	210	S, 1½	--	--	D	
17cdc	Fern Tish	Dv	1963	18	2	18	P, 15.5-18	15	3	do.	342	3.89	9-18-68	--	N	35	--	N	
18dcd	Windsor Graville	Dr	--	100	4	--	--	--	--	do.	338	6.85	9-23-68	--	C, 1/2	--	--	D	
19add	R. C. Miller	Dv	--	20	1½	20	--	--	--	do.	340	7	9-24-68	180	C, 1/2	--	--	D	
20ccb	J. F. Sanders	Dr	1958	62	6	62	P, 32-60	20	40	do.	343	8.50	9-18-69	--	C	75	25	Ir	P 3 hr, L.
21cbal	G. W. Bond & Son	Dr	1935	24	12	--	--	--	--	do.	345	7.78	9-26-69	--	N	--	--	N	
21cdc	R. M. Lyon	Dr	1969	103	10	101	P, 18-100	18	90	do.	355	13.5	9-24-69	--	--	200	30	Ir	P 3 hr, L.
22caa2	Leslie Harwood	Dr	1968	45	6	45	P, 21-27	18	25	do.	350	12	7-14-68	--	C, 20	275	28	D	B 1 hr, L; water supply for trailer court.
22dbc	Fred Brougher	Dr	1968	42	6	42	B	18	24	do.	350	14	5-18-68	180	S, 3/4	40	10	D	B 2 hr.
23cdd	Clifford Jensen	Dv	1950	26	4	26	P, 21-26	15	11	do.	341	14.63	9-25-68	--	N	200	--	N	
24acc	W. C. Chase	Dv	1950	21	5	21	P, 18-20	12	8	do.	352	11.02	4-30-69	--	C, 15	370	--	Ir	

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s): Depth to top (feet)	Water-bearing zone(s): Thickness (feet)	Water-bearing zone(s): Character of material	Altitude (feet)	Water level: Feet below datum	Water level: Date	Specific conductance of water	Type of pump and hp	Well performance: Yield (gpm)	Well performance: Drawdown (feet)	Use	Remarks
								T. 16 S., R. 4 W.--Continued											
24adc	W. C. Chase	Dv	1952	24	4	24	P, 22-24	12	12	Sand and gravel	355	14.99	9-30-69	--	C, 10	480	--	Ir	P.
25ccd	Eugene Water & Electric Board	Dr	1969	29½	12	29½	P, 17-28	10	17	do.	360	3	7-18-69	--	N	1,210	--	T	P 48½ hr, L, Ca.
26bad	J. L. Lemert	Dv	--	20	4	20	--	10	10	do.	350	8.20	10- 1-68	--	C	--	--	Ir	P.
26bda	do.	Dv	1968	20	4	20	P, 16-20	12	8	do.	348	6.79	10- 1-68	--	C	200	--	Ir	P, L.
27adb	Herbert Hostick	Dv	--	26	4	26	--	12	14	do.	358	13.40	9-25-68	--	C, 3	--	--	Ir	L.
27cbd1	R. D. Schick	Dr	1962	46	6	38	B	12	26	do.	358	10.18	9-25-68	--	N	15	24	N	P 7 hr; water reported to have high bacteria count.
27cbd2	do.	Dr	1962	48	6	48	B	12	36	do.	358	4	5- 1-62	300	J, 1	20	15	D	P 1 hr, L, Ca.
27cca	do.	Dr	1966	155	8 6	100 155	P, 100-149	12	100	do.	358	10	8-22-66	--	T, 30	400	0	Ir	P 24 hr; originally drilled to 100 ft; deepened to obtain adequate water for irrigation. Used to irrigate 74 acres.
27cda	Mrs. H. L. Plank	Dr	1965	150	8	150	P, 30-150	12	100	do.	358	6	4-21-65	--	T, 25	325	34	Ir	P 8 hr, L.
28acc	C. C. Keith	Dr	1962	50	6	50	P, 21-50	18	30	do.	355	6	7-18-62	320	C, 1/2	50	13	D	P 2 hr, L.
28bdd	Robert Marker	Dr	1968	84	8	84	P, 30-80	12	60	do.	355	6	5-24-68	--	J, 7.5	60	0	Ir	B 2 hr, L.
28dcc	C. H. Maesner	Dr	1967	80	8	79	P, 19-35, 60-75	12	60	do.	360	12.29	9-26-68	--	S, 7.5	100	10	Ir	P 2 hr.
29aca	Bart Flanagan	Dr	1959	40	6	40	P, 20-40	15	35	do.	352	5.5	6-16-59	--	C	300	10	Ir	P 2 hr, L.
29add	do.	Dr	1963	43	6	43	P, 25-43	15	38	do.	355	6	7- 5-63	--	C	70	18	Ir	P 1 hr.
29bbd	Ernest Garrett	Dr	1966	85.5	8	84.5	P, 18-83	15	43	do.	347	6.44	9-27-68	--	T, 20	275	50	Ir	P 1 hr, L.
29dab	Elbert Hill	Dr	1960	66	66	--	--	--	--	do.	348	9.41	9-27-68	220	C, 3	--	--	Ir	Irrigates 10 acres of pasture.
30ada1	Harold Schrenk	Dv	1945	20	2	20	--	--	--	do.	345	--	--	200	C, 1	--	--	D,S	
30ada2	Muriel Ward	Dr	--	165	5	--	--	--	--	do.	345	--	--	--	C, 3	--	--	Ir	Reported to have no water below 60 ft.
32bac	Ben Simpson	Dv	1965	27	2½	27	P, 25-27	10	17	do.	355	8	12- 2-65	--	C	25	8	D	P 2 hr, L.
33ada	Alex Snodgrass	Dv	1962	24	2	24	P, 22-24	10	14	do.	364	10	4- -62	--	C, 1/2	--	--	D	L.
34aab	Paul Plank	Dr	1967	105	10	104	P, 30-70, 86-103	15	75	do.	362	10.54	9-25-68	--	S	250	87	Ir	P 4 hr, L.
34dda	Nathan Lement	Dr	1958	95	8	95	P, 25-90	11	80	do.	372	10.74	9-25-68	--	C, 7.5	30	2	Ir	B 2 hr.
35cdc	Santa Clara Fire Dept.	Dv	--	25	6	25	--	--	--	do.	370	7.90	4-21-69	--	N	--	--	--	Formerly used for fire protection.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 16 S., R. 4 W.--Continued																			
35dad	George Lockard	Dv	1958	22	4	22	P, 18-22	14	8	Sand and gravel	372	13.89	9-27-68	--	N	135	--	N	P, L.
36bbd	Eugene Water & Electric Board	Dr	1969	35	12	35	P, 18-31	10	24	do.	365	5	7-12-69	--	N	1,200	--	T	P 50 hr, Ca.
36bbc	do.	Dr	1969	39	12	31.5	P, 22-37	15	22	do.	370	9	7-22-69	--	N	1,230	--	T	P 48 hr, Ca.
T. 16 S., R. 5 W.																			
1cdd	Steve Doty	Dr	1964	75	6	39	B	10	22	Sand and gravel	327	6	4- 4-64	220	S	40	31	D	B 1 hr, L.
1dbc	E. H. Trimble	Dv	1964	23	2	21	P, 19-21	19	2	Sand	326	11	9-19-64	200	C, 3/4	36	8	D	B 1 hr.
3bba	William Lehman	Dv	--	19	--	--	--	--	--	--	324	--	--	200	J, 4	--	--	D	
3bcd	Miner Mickelson	Dv	--	21	6	21	--	--	--	--	324	4.7	--	290	J, 1	--	--	D	
5aca	Robert Bomark	--	--	50±	4	--	--	--	--	--	350	--	--	190	C, 1/2	--	--	D	Well is reported to flow throughout much of year.
5bba	H. A. Jensen	Dr	1968	170	6	22	B	--	--	Sandstone	375	24	12-11-67	260	S, 1	8	74	D	B 1 hr.
7dbd2	Jack Dutchess	--	1957	94	--	--	--	45	31	Sandstone, yellow, soft	625	--	--	--	--	5	--	N	B, L; well abandoned; water supply inadequate.
8abd	Gilbert Moode	Dr	1959	115	6	23	B	--	--	--	400	12	11- 2-59	160	J, 3/4	20	100	D	B 1 hr, L.
8bad1	Ernest Smythe	Dr	1965	60	6	21	B	--	--	Sandstone	400	30	8-12-65	160	S, 1	60	0	D	B 2 hr, L.
8bad2	do.	Dg	--	22	48	20	B	--	--	--	400	16.5	5-15-69	--	N	--	--	N	Reported to furnish an inadequate supply of water during summer.
9bdc	Bob Allen	Dr	1959	130	6	40	B	114	26	Sandstone	350	47.80	5-22-69	158	J, 1	25	50	D	B 1 hr, L.
9dcd	D. L. Walker	Dr	1967	70	5	22	B	41	--	do.	350	4.75	5-22-69	340	S, 1	5	40	D	Do.
10bdb1	Neil Cheshire	Dr	1968	198	6	124	B	--	--	--	328	8.4	5-21-69	--	N	10	30	N	P 5 hr, L; water reported to be "salty"; well abandoned.
10bdb2	do.	Dv	--	20	1½	20	--	--	--	--	328	8	5-20-69	1,400	C, 1/3	--	--	D	Ca.
10cac	Preston's Market	Dr	1966	70	6	41	B	--	--	--	330	10	4-16-69	420	J, 1/2	100	70	D	B 1 hr, L.
10cca	Dale Cheshire	Dr	1938	85	5	52	B	--	--	--	350	17.8	5-22-69	120	J, 1/2	15	--	D	
11bcc1	Ernest Lingo	Dv	1960	80	5	28	B	--	--	--	345	3	5-21-69	--	N	--	--	Ir	
11bcc2	Ralph Lingo	Dv	1949	23	2	--	B	--	--	--	345	--	--	520	P, 1/3	--	--	D	
12bdd1	Gerald Harpole	Dv	1965	21	1½	21	B	--	--	--	329	--	--	200	C, 1/2	--	--	D	
12bdd2	A. M. Harpole	Dv	1930	21	1½	21	B	--	--	--	329	--	--	258	--	--	--	D	

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 16 S., R. 5 W.--Continued																			
13ada	E. H. Vogt	--	1959	44	5	44	P, 24-44	27	16	Sand	335	8	12- 2-59	--	C, 5	100	0	Ir	P 1 hr, L.
13bcb	James Farmer	Dr	1963	41	8	41	B	--	--	Sand and gravel	332	7.48	9-20-68	--	C, 10	125	25	Ir	P 2 hr, L. H (fig. 5).
14bad	Tobias Jacobson	Dv	1967	25.5	2	26	P, 23-25½	--	--	Sand, black	335	8	5-26-67	240	--	35	0	D,Ir	P, L.
14dad	Clarence Brolin	Dr	1968	35	8	27	P, 27-36	--	--	Sand and gravel	335	6.7	5-10-68	--	C, 10	300	2	Ir	P 1 hr, L.
15ddd	Kenneth Drew	Dr	--	80	6	--	B	--	--	--	335	8.1	9-23-69	--	N	--	--	N	
16bcc	K. B. Pimeo	Dv	--	80	6	80	B	--	--	--	380	--	--	73	S, 3/4	--	--	D	
16dcb	H. L. Harris	Dr	--	62	3	--	B	--	--	--	600	22.9	5-27-69	--	N	--	--	D	
16dcc	do.	Dr	1965	101	8	39	B	37	48	Claystone and sandstone	525	29.6	5-27-69	--	S, 7½	40	30	N	B 1 hr, L.
17aca	Forest Huntley	Dr	1967	86	5	21	B	--	--	--	365	20.2	5-22-69	240	J, 1/2	24	30	D	B 1 hr, L.
17ddb1	J. R. Meyers	Dr	1964	104	5	21	B	--	--	--	450	14.9	5-23-69	50	J, 1	4	40	D	Do.
17ddb2	do.	Dr	1963	208	5	23	--	--	--	--	450	--	--	--	--	--	--	N	L; no water; well cemented at 23 ft.
18bda	Flossie Scadding	--	1956	57	--	--	B	--	--	--	375	Flows	5-22-69	620	N	1	--	D	Artesian flow at approximately 1 gpm.
19bdc	R. H. Wyant	--	1967	75	--	--	B	--	--	--	475	--	--	220	C, 1/2	--	--	D	
20aab	Virgil McSpadden	Dr	1958	50	6	30	B	--	--	--	525	--	--	--	J	15	10	D	B 1 hr, L.
21aca	Lane County Public Works Dept.	Dr	1968	327	6	--	--	--	--	--	475	--	--	--	--	--	--	N	L; no usable amount of water obtained; well abandoned.
21cac	John Akerson	Dr	1966	146	6	--	B	136	10	Sandstone and claystone	470	31.6	5-23-69	200	S, 1	27	20	D	B 1 hr, L.
21ccd	Wilfred Daringer	Dr	--	86	--	--	--	--	--	--	430	21.3	5- 3-69	240	J, 1/2	--	--	D	
23cda	Kenneth Drew	Dv	1959	29	2	29	P, 26.5-29	--	--	--	350	14	9-29-59	--	C, 7	60	--	Ir	P, L.
24aaa	C. E. Hunton	Dr	--	78	6	--	B	--	--	--	339	7.3	10- 2-68	--	H	--	--	D	
24aab	do.	Dr	1959	40	6	40	P, 20-40	17	23	Sand and gravel	337	8	10- 2-68	--	C, 2	250	0	Ir	P 1 hr, L.
24adb	Everett Hunton	Dr	1966	81	8	80	P, 18-35, 45-78	--	--	--	337	5.1	10- 2-68	--	C, 15	165	50	Ir	do.
24dba	Agnes Bertelsen	--	1966	75	8	74	P, 26-48	--	--	--	340	8.5	10- 2-68	--	C	150	10	D,Ir	P 1½ hr, L.
25adc	Erron Purkerson	Dr	1964	33	6	33	P, 21-33	--	--	--	347	7	7-25-64	--	C, 3	60	5	Ir	P 1 hr, L.
25dab	Ray Hofer	Dv	1966	32	2	32	P, 29.5-32	--	--	--	346	10	9-22-66	--	N	15	--	--	P, L.
26aaa	E. C. Hill	B	1968	35	30	34	P, 19-28	--	--	--	340	15.7	5-27-69	--	N	--	Total	N	L; owner reports total drawdown after short period of pumping.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 16 S., R. 5 W.--Continued																			
26cda	Ash Bailey	Dr	1961	54	5	54	B	54	2	Sand and gravel	350	9	5-25-61	60	C, 1	40	22	D	P 2 hr, L.
28bab	Charles Weller	Dr	1963	80	6	19	B	40	33	Sandstone and claystone	450	20	5-24-63	200	J, 1/2	30	50	D	B 1 hr, L.
28bba2	Alex McLaughlin	Dr	1964	67	6	28.5	B	48	19	do.	425	17	5-26-69	220	J, 1	40	15	D	Do.
29adc1	Floyd Allen	Dr	1957	172	6	40	B	--	--	--	410	70	10- 5-57	380	J, 1/2	7	90	D	Do.
29bca	Golda Hastings	Dr	1965	125	6	50	B	80 112	10 13	Sandstone do.	560	34.98	5-26-69	--	S	15	80	N	Do.
30dca	C. R. Friend	Dr	1966	97	5	65	B	92	2	Shale	775	68.85	5-22-69	240	J, 1	14	4	D	Do.
31abb	F. L. Fox	Dr	1968	81	5	25	B	72	2	do.	700	52	9-19-68	--	N	28	3	N	Do.
31bca	D. L. Hendricks	Dr	1968	170	6	30	B	--	--	--	850	81	9- 6-68	--	S	25	0	D	P 24 hr, L.
31cca	Willard Gronroos	Dr	1959	76	6	37	B	58	--	Sandstone and shale	650	25.63	5-22-69	220	J, 3/4	25	25	D	B 1 hr.
32cba	Harold Trunnell	Dr	1961	89	6	26	B	50	25	Sandstone	500	16.57	5-22-69	200	S, 3	35	50	D	B 1 hr, L.
32ccd	Emil Theophanes	Dr	1965	80	6	36	B	--	--	do.	475	18	8-26-65	160	S, 1	30	62	D	B 1 hr.
34dca1	J. R. Jones	Dr	1968	62	6	63	P, 25-50	--	--	--	340	8	7-17-68	70	S	30	15	D	B 2 hr; well originally drilled to 100 ft. Backfilled and completed to 62 ft.
34dca2	Owen Hart	Dr	1959	87	6	52	B	13	34	Sand and gravel	340	2	4-24-59	200	J, 1	30	35	D	B 1 hr, L.
35bdb	V. X. Lemmon	Dr	1964	100	5	100	P, 35-95	35	50	do.	378	27	9-21-64	60	S, 3	75	30	D	B, L.
35cbc	Raymond Grife	Dr	1968	65	6	62	B	41	24	do.	360	8	5-29-69	60	S, 3/4	30	50	D	B 1 hr.
35ccc	Willard Burger	Dr	1959	124	8	124	P, 20-124	30	59	do.	365	25	7-25-69	50	T, 7.5	100	--	Ir	B 1 hr, L; production in this well has dropped since completion.
T. 16 S., R. 6 W.																			
13ccd	J. J. McClelland	Dr	1963	83	6	44½	B	70	10	Sandstone	750	25.50	9-11-69	180	J, 1	12	--	D	B, L.
24bad	Clarke Fankel	Dr	1968	44	5	31	B	34	6	Shale	640	9.94	9-11-69	220	J, 1/2	28	2	D	B 1 hr.
24dcc	Jess Jones	Dr	1968	148.5	6	40	B	--	--	Sandstone	600	71.54	6-17-69	220	J, 3/4	25	--	D	P 1 hr, L.
25bcd	B. G. Sullivan	Dr	1967	60	6	40	P, 40-60	--	--	--	650	10.98	9-11-69	135	J, 1/2	10	53	D	B 1 hr, L.
35dbd	Lynn Richmond	Dr	1967	590.5	6	54.5	B	--	--	Sandstone	950	215	5-17-67	--	N	1½	590	N	Do.
35dcb	do.	Dr	1967	159	6	71	B	65	--	do.	950	25	6-12-67	180	S	8	100	D	B 1 hr, L; originally drilled to 195 ft; completed at 159 ft.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 16 S., R. 6 W.--Continued																			
36acb	John Rowlette, Jr.	Dr	1968	62	6	25.5	B	48	7	Sandstone	720	11.63	5-22-69	220	J, 1/2	5	45	D	B 1 hr, L.
36add	W. C. Van Dusen	Dr	1961	124	5	40	B	52	--	do.	775	41	8-20-61	--	J, 1/2	2	80	D	B 1 hr, L, Ca; well reported to produce less water than when originally drilled. Well originally drilled to 190 ft; completed at 124 ft.
36cac	C. B. Chace	Dr	1966	110	5	42	B	104	2	Shale	900	66.32	5-22-69	120	J, 3/4	7	30	D	B 1 hr, Ca, L.
36dcc	Floyd Martin	Dr	1967	202	6	31	B	33	--	Sandstone	720	24	7-27-67	205	J, 1	3/4	170	D	B 1 hr, L.
T. 17 S., R. 2 W.																			
3bad	Springfield Country Club	Dr	1961	60	6	60	P, 40-60	--	--	Sand and gravel	475	12	8-17-61	--	J, 3/4	30	18	D	B 2 hr.
3bcd	C. R. Webb	Dr	1967	70	6	70	B	--	--	Gravel	495	8	3- 3-67	--	S, 1/2	25	42	D	B 2 hr, L; water reported to contain troublesome amounts of iron and to be slightly hard.
3bdc	Lester Warner	Dr	1967	52	6	52	B	--	--	--	475	--	--	--	J, 1/2	--	--	D	Water reported to be hard and to have high iron content.
4ccd	George Gillock	Dr	1967	80	5	80	P, 40-80	45	--	Gravel	480	18	11- 8-67	720	S, 1/2	20	--	D	B 1 hr, L.
8cdb1	L. M. Sieverson	Dr	1960	55	6	34	B	--	--	--	570	6	7- 2-60	70	J, 1/2	5	50	D	B 1 hr; inadequate water supply.
8cdb2	Vernon Hiles	Dr	1964	120	6	26	B	--	--	Claystone	590	10	10-26-64	165	J, 3/4	22	70	D	B 2 hr, L.
8dac	Neil Stedman	Dr	1964	79	6	60	B	--	--	Sandstone	515	16	8-26-64	38	S, 1/2	20	30	D	B 1 hr, L.
9aad	Donald Hansen	Dr	1962	283	6	--	B	--	--	--	490	--	--	--	S, 1	--	--	D	Has inadequate supply of water.
9bbc	Dean Byers	Dr	1958	104	6	22½	B	--	--	--	510	25	10-10-59	--	J, 1/2	30	9	D	B 1 hr.
9bca	C. L. Howard	Dr	1967	415	6	18	B	--	--	--	575	22.04	7-23-68	--	N	1	355	N	B 2 hr, L; inadequate water supply.
9bdb	Carl Gatewood	Dr	1968	160	6	90	B	--	--	--	480	14.03	7-23-68	--	S	30	80	D	B 1 hr, L.
16bbc	John Reynolds	Dr	1948	38	4	38	B	--	--	Sand and gravel	460	15	7-22-68	--	J, 1/2	--	--	D	
17aad	Rosella E. Williams	Dr	1956	40	4	40	B	--	--	do.	460	15	7-22-69	--	J, 1/2	--	--	D	Reported to have high iron content.
17bbc	L. R. Jones	Dr	1955	110	6	37	B	108	2	Shale	500	--	--	--	J	25	--	D	B, L.
17bcb1	Ermol Koch	Dr	1967	400	6	28	B	--	--	--	495	41.63	7-23-68	110	J	4	300	D	B 1 hr, L; inadequate water supply for home.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s): Depth to top (feet)	Water-bearing zone(s): Thickness (feet)	Water-bearing zone(s): Character of material	Altitude (feet)	Water level: Feet below datum	Water level: Date	Specific conductance of water	Type of pump and hp	Well performance: Yield (gpm)	Well performance: Drawdown (feet)	Use	Remarks
T. 17 S., R. 2 W.--Continued																			
17dba	Kermit Johnson	Dr	1961	88	6	33	B	40	--	Sandstone	490	23	8-24-61	--	J, 1	17	50	D	B 1 hr, L.
18dab	Harvey Noakes	Dr	1965	80	6	29	B	--	--	--	455	20	9-17-65	--	J, 1/2	20	60	D	Do.
19adc	J. B. O'Brien	Dg	--	20	36	--	B	10	10	Gravel	460	8.99	7-25-68	50	C, 10	--	--	Ir	Used to irrigate 10 acres.
19cca	F. T. Ellefson	Dr	1963	31	6	31	P	22	9	Sand and gravel	462	14	9-27-63	--	J, 1½	30	12	Ir	B 2 hr.
19dac1	Connie Johs	Dr	1962	95	6	41	B	--	--	--	475	10	4-16-62	160	J, 1/2	10	40	D	B 1 hr, L.
22ccb	S. U. Rencher	Dr	1957	88	5	33	B	--	--	--	505	13	4- 4-57	--	J, 1	18	40	D	B 1 hr, L; adequate water supply furnishes water for several other houses.
22cda	F. C. Burnum	Dr	1943	167	5	--	B	--	--	--	540	6.88	7-24-68	--	J	--	--	D	Inadequate water supply for domestic use.
23dcd	M. L. Meyers	Dr	1961	128	6	33	B	42 106	-- --	Sandstone do.	585	18	1-11-61	--	J, 1	12	100	D	B 1 hr, L.
24cdc	Lawrence Crabtree	Dr	1967	132	6	127	B	--	--	--	547	9	4-11-67	140	S, 1	30	90	D	Do.
26aba1	Willard Curtis	Dr	1959	80	6	24	B	70	10	Sandstone	510	34	9- 1-59	120	J, 1	--	--	D	L; used only for household needs; quantity of water available from this well reported to have diminished last several years.
26aba2	do.	Dr	1966	105	6	23	B	65	20	do.	495	42	4-10-66	120	S, 1	16	50	D	B 1 hr, L; used to irrigate lawn and garden only.
26bab	R. J. Hayes	Dr	1965	350	6	31	B	--	--	--	535	40	1- 8-65	210	S, 1	7	290	D	B 1 hr, L.
26cca1	Springfield Utility Board	Dr	1966	70	12	52	P, 22-52	16	36	Sand and gravel	510	10.55	9-10-69	--	T, 60	900	11	PS	P 18 hr, L.
26cca2	do.	Dr	1969	56	16	56	P, 26-56	16	40	do.	510	10.90	9-10-69	--	T, 100	1,150	9	PS	P 24 hr, L, Ca.
27dab	Wilbur Clemens	Dr	1967	100	6	98	P, 21-85	15	45	Sand, silt, and gravel	510	10	6-21-67	--	J, 2	--	--	D	L.
27dbb	Lon Moore	Dr	1965	91	12	81	P, 18-78	15	60	Sand and gravel	502	9.42	9-10-67	--	N	400	8	N	P 6 hr, L.
28dca	Weyerhaeuser Co.	Dv	1939	1½	22	22	--	15	7	do.	495	15	7-26-68	210	C, 1	--	--	D,S	
29cbc1	Rainbow Water Dist.	Dr	1956	62	18	62	P, 25-60	10	50	do.	470	9	9-15-56	--	T, 75	900	42	PS	P 140 hr.
29cbc2	do.	Dr	1956	70	18	70	P, 30-70	10	60	do.	470	12	9-15-56	--	T, 75	1,500	42	PS	P 148 hr, L.
30aba	Doug Leavitt	Dr	1963	120	6	54	B	--	--	Shale	540	24	5-13-63	--	J	9	44	D	B 2 hr, L.
30aca	Leavitts Freight	Dr	1966	49	8	49	P, 27-47	15	34	Gravel and sand	476	5	9-13-66	--	C, 7½	100	0	In	B 2 hr.
30cca	Boyd Williams	Dr	1967	38	6	38	P, 33-38	20	18	do.	470	14	8-22-67	230	J, 1	30	8	D	P 2 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 17 S., R. 2 W.--Continued																			
30dad1	Rainbow Water Dist.	Dr	1956	75	12	75	P, 30-75	20	50	Gravel and sand	470	9	9-15-56	--	T, 75	800	31	PS	P 120 hr, L.
30dad2	do.	Dr	1956	76	18 12	0-50 46-56	P, 24-40	20	35	do.	470	9	9-15-56	--	T, 40	520	41	PS	P 136 hr.
31bcc1	Skelly Oil Co.	Dr	1961	200	12	--	--	--	--	do.	472	20	8-29-69	--	T, 15	--	--	In	Ca.
31bcc2	do.	Dr	1969	265	16 10 8	28 165 265	P, 21-265	18 180	46 265	Sand and gravel do.	472	12	4-11-69	--	T, 25	300	58	In	P 4 hr, L.
31bcc3	do.	Dr	1969	275	10	275	P, 20-40, 85-125, 170-180, 250-270	20	250	Gravel and sand	470	10	3-15-69	--	T, 25	600	78	In	P 8 hr.
32bad	Weyerhaeuser Co.	Dr	1957	175	8	88	P, 55-85	15	100	do.	485	7.32	8-14-69	--	N	175	35	N	P 2 hr, L. H (fig. 4).
32dbc	Lucy Irvin	Dr	1964	45	6	40	P, 30-40	15	30	do.	487	8.79	7-29-68	--	S, 1	30	20	D	P 1 hr, L.
34aab1	K. J. Schmidt	Dr	1957	90	5	79	--	--	--	--	510	--	--	--	S, 1/2	10	74	D	B 1 hr, L.
34aab2	do.	Dr	1959	50	6	49½	B	27	25	Sand and gravel	510	10	4- 7-59	--	J, 1	17	17	D	P 2 hr.
35abd	Bill Bailey	Dr	1962	45	6	41½	B	10	35	do.	500	8.99	7-26-68	200	J, 2	60	7	D	P 1 hr, L.
35aca	Joe Ott	Dr	1965	62	6	62	B	20	40	do.	525	12	10-30-65	160	S, 1	25	35	D	B 1 hr, L.
T. 17 S., R. 3 W.																			
5aaa	Leon Funke	Dr	1969	300	10	263	P, 18-263	25	230	Sand and gravel	398	21	5- 9-69	140	T, 20	620	25	Ir	P 4 hr, L, Ca.
5aba	do.	Dr	1966	172	10	167	P, 18-28, 35-70, 80-107, 122-142, 150-166	18	135	do.	396	12	3-23-66	--	T, 25	540	70	Ir	P 8 hr.
5cbb	Eugene Water & Electric Board	Dr	1969	53	12	51	--	5 43	11 10	do.	375	1	5- 9-69	--	N	--	--	T	L.
5ddc2	McKenzie Sand & Gravel Co.	Dr	1968	73	10	73	P, 18-73	18	60	do.	400	20	6-21-68	--	C, 2	180	40	In	P 4 hr, L.
5ddc3	do.	Dr	1965	70	12	40½	P, 20-39	20	27	do.	400	15	6-16-65	--	N	60	10	N	B 2 hr, L; drilled to supply wash water; inadequate water supply; well abandoned.
6aaa	Victor Lanini	Dr	1969	250	10	226	P, 18-226	18	157	do.	385	12.57	5- 8-69	--	C, 20	675	9	Ir	P 4 hr, L; well originally drilled to 40 ft in 1967.
6aca	Eugene Water & Electric Board	Dr	1969	79	12	79	P, 70-76	6 70	22 8	do.	374	4	5-16-69	--	N	36	11.7	T	P 2 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 17 S., R. 3 W.--Continued																			
7adb	E. R. Craiger	Dr	1959	57	6	57	B	15	22	Sand and gravel	404	17	10-27-59	--	S, 3/4	20	35	D	B 1 hr, L.
7dbb	C. A. Gehrke	Dr	1965	44	6	44	P, 34-43	20	24	do.	394	14	7-10-65	160	C, 2	60	5	D	Do.
8aaa	McKenzie Sand & Gravel Co.	Dr	1962	42	6	41	B	14	25	do.	410	11	1-12-62	--	C, 1	20	25	D	B 1 hr.
8bac	Leah Nelson	Dv	1960	26	6	26	--	18	8	do.	399	18.60	10- 9-68	--	N	80	--	N	B 1/2 hr.
8bda	John Brassard	Dr	1963	52	6	52	B	18	40	do.	400	15	2- 8-63	140	S, 3/4	30	45	D	B 1 hr, L.
9aaa	Eugene Water & Electric Board	Dr	1969	27½	12	27	P, 18-25	6	20	do.	397	3	6- 6-69	--	N	180	5.11	T	P 2 hr, L.
9acc	Vince Gassman	Dr	1960	69	8	66	P, 51-65	20	40	do.	417	18	8-17-60	--	T, 5	90	15	Ir	B 2 hr.
9ada	Milton Chase	Dr	1967	220	10	220	P, 18-220	18	160	do.	423	14	8- 8-67	--	T, 30	650	15	Ir	P 9 hr, L.
9bcc	Doris Johnson	Dr	1967	249	8	248	P, 18-160, 175-220, 228-245	28	185	do.	405	14	5-13-67	--	T, 25	70	10	Ir	B 1 hr, L.
10bbd	Eugene Water & Electric Board	Dr	1969	38½	12	38	P, 22-28, 32-35	15	19	do.	411	14	6-10-69	--	N	--	--	--	L.
14cca	George Meeker	Dr	1965	57	6	52	P, 23-41	14	30	do.	435	13	5-25-65	--	J, 1½	30	0	Ir	B 2 hr, L.
15acd	E. D. Wicklund	Dr	1964	40	8	40	P, 20-35	14	26	do.	420	5	7- 7-64	--	T, 5	50	0	Ir	Do.
15dcc	Harry Mersdorf	Dr	1967	50	6	52	B	15	35	do.	433	14	8-25-67	--	S, 3/4	20	36	D	B 1 hr.
17acb	Robert Smith	Dr	1966	31	2	31	P, 28½-31	13	15	Sand and clay	415	12	7-26-66	--	S, 1/2	8	--	D	P.
17bca	Smith Gardens	Dr	1960	103½	8	99½	P, 80-90	18	50	Sand and gravel	409	10.91	4- 3-69	--	N	90	0	N	B 2 hr, L. H (fig. 4).
19bdd1	Mrs. C. E. Miller	Dr	--	61	5	52	B	--	--	--	414	16.24	10- 4-68	--	N	--	--	N	
19bdd2	do.	Dr	1960	81	6	51	B	16	--	Sand and gravel	414	14	2-29-60	--	S, 3/4	20	45	D	B 1 hr, L.
19cac	Gheen Irrigation Works	Dr	1963	500	10	53	B	34	16	Sand, clay, and gravel	415	22.90	4- 3-69	--	S, 7½	45	--	Ir	P, L.
20aac	Sheldon High School	Dr	1963	119½	12	119½	P, 54-116	20	60	Sand and gravel	420	11	6-11-63	--	C, 15	300	12	PS	P 1 hr, L.
20bbb	T. K. Huston	Dr	1965	135	6	20	B	--	--	Sandstone	415	30	9-18-65	--	T, 2	15	75	Ir	B 1 hr, L.
20bdd	R. A. McAyeal	Dr	1965	52	6	52	B	20	30	Sand, silt, and gravel	415	16	7- 9-65	--	J, 1½	30	16	D	B 2 hr, L.
21cbb	Monroe Jr. High School	Dr	1966	172	12	169½	P, 19-145, 148-165	19	130	Sand, gravel, and clay	425	9	3-30-66	--	--	200	70	PS	P 3, L.
22abb	J. R. Knoedler	Dr	1966	49	6	49	B	17	30	Sand and gravel	435	14	9-15-66	--	S, 1	17	20	D	B 2 hr, L.
23dab	Rainbow Water Dist.	Dr	1964	90	6	84	P, 24-84	20	84	do.	444	13	10- 7-64	--	--	--	--	PS	

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
								T. 17 S., R. 3 W.--Continued											
23dac	Rainbow Water Dist.	Dr	1969	189	14	141	Sc, 141-171, 176-186	15	150	Sand and gravel	444	Flowed	7-31-69	--	T	400	85	PS	P 30 hr, L; well flowed 12 gpm at time well was drilled.
26aba2	A. M. McLaughlin	Dr	1968	35	6	34	B	18	20	do.	449	12	5-13-68	--	J, 1	40	10	D	B 1 hr, L.
28dbd	D. F. Ray	Dr	1959	185	6	137	B	--	--	--	428	22	12-30-59	--	J, 1	167	16	D	P 4 hr, L.
28dcb	Chase Gardens	Dr	1959	234	10	134	P	20	50	Sand and gravel	425	18.20	3-19-69	--	T, 15	259	80	Ir	P 30 hr, L; well originally drilled to 63 ft, and was deepened to increase production; no additional water obtained from underlying sedimentary rocks.
28ddd1	Cook's Gardens	Dr	1957	167	6	39	B	40 138	30 8	Gravel Sandstone	435	19	10- 3-57	--	J, 1	30	--	D	P 7½ hr, L.
28ddd2	do.	Dv	1957	32	6	32	P, 22-32	22	10	Sand and gravel	432	17.18	4- 2-69	--	C, 5	--	--	Ir	Well originally dry to 22 ft.
29cdd1	O. D. McMillan	Dr	1958	228	5	147	B	200	25	Sandstone	425	30	7-18-58	--	J, 1	20	30	D	B 1 hr, L.
29cdd2	Clyde McMillan	Dr	1957	161	5	221	B	161 170	5 20	do. do.	425	26	10-31-57	--	J, 1	12	60	D	B 2 hr.
30acb	Balzhiser, Seder, & Rhodes	Dr	1961	103	6	19½	B	55	--	do.	409	14	3-30-61	--	S, 2½	20	80	Ir	B 1½ hr, L.
30bab	Travis Wilson	Dr	1963	48	6	18	B	40	--	do.	428	16.35	4- 3-69	340	J, 1	50	4	Ir	P 1 hr.
31ada	Eugene Hotel	Dr	1956	208	10	26	B	--	--	--	423	12	3- -56	--	S, 20	400	24	Ir	P 8 hr.
31adc	Pacific Northwest Bell	Dr	1966	461	10	31	B	--	--	Sandstone	420	26	5-16-66	--	S, 3	51	184	In	P 72 hr, L; used for air conditioning. Inadequate water supply; must be supplemented with city water during summer.
31caa	John Derkatsch	Dr	1963	70	6	43	B	--	--	do.	419	45	9- 9-63	--	--	20	20	--	B 1 hr, L.
31dcd	Whinn, Shin & Co.	Dr	1959	397	8	17	B	--	--	do.	420	20	10-10-59	--	--	30	150	--	B 8 hr, L.
32add	Coca Cola Bottling Co.	Dr	1959	203	6	13½	B	50	--	do.	430	4.55	3-26-69	--	N	44	75	N	B 1 hr, L; reported to have high sulfate.
32bbc	Eugene Fruit Growers Assoc.	Dr	1957	302	6	131½	B	185	--	do.	425	23	5-16-57	550	T, 10	70	175	In	P, L.
33aaa	Lucile Brechtel	Dr	1957	86	4	43	B	72	12	Sand	430	21	9-11-57	--	J, 2	35	--	D	B.
33aad	M. T. Hood	Dr	1957	165	4	96	B	--	--	--	430	17	10-19-57	245	J, 2	50	50	D	P 1 hr, L.
34bdb	C. M. Elspas	Dr	1959	76	6	68	B	--	--	Gravel	435	20	9-10-59	--	J, 1	20	30	D	B 2 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 17 S., R. 3 W.--Continued																			
35acd	Herman Head	Dr	1960	41	6	41	B	--	--	Gravel	455	8	7-22-60	--	J, 1	20	22	D	B 1 hr, L.
35daa	D. E. Lodien	Dr	1960	48	6	48	B	27	--	Sand and gravel	455	13	7-12-60	--	S, 1/2	30	12	D	Do.
T. 17 S., R. 4 W.																			
1acb	Richard Warren	Dr	1962	42	6	41	B	15	25	Sand and gravel	377	10	10-27-62	--	S, 3/4	40	10	D	B 1 hr, L.
1acc	W. E. Barbie	Dv	--	21.5	3	21.5	--	--	--	do.	378	10.34	1-21-69	--	N	--	--	--	
1caa	Santa Clara Fire Dept.	Dv	--	25	6	--	--	--	--	do.	375	11.41	4-21-69	--	N	--	--	N	
1dbd	J. R. Chapman	Dv	--	16.5	2.5	16.5	--	--	--	do.	379	10.52	3-24-69	--	N	--	--	N	
2bcc	Art Gutherie	Dr	1963	37	8	37	B	22	15	do.	375	9	11-13-63	--	C, 15	390	12	Ir	B.
2cbb	Melvin Thompson	Dr	1963	40.5	8	40	B	26	14	do.	375	5.70	1-22-69	--	C, 15	390	12	Ir	B, L.
2dcb1	H. B. Hurley	Dr	1966	35	6	35	B	25	10	do.	380	4.24	1-21-69	--	C, 3/4	20	10	D	B 1 hr, L.
3acb	Gordon Elliott	Dr	1966	220	10	212	P, 25-212	25	--	do.	373	3	4- 7-66	--	T, 60	556	140	Ir	P 1½ hr, L.
3bda	do.	Dr	1966	165	10	160	P, 30-160	30	--	do.	375	7	3-11-66	--	T, 40	406	107	Ir	Do.
3cac	do.	Dr	1952	195	8	--	P	--	--	do.	375	8.46	8-12-69	--	T, 25	--	--	Ir	
3dcb	Mrs. E. V. Smitson	Dr	1967	28	6	28	B	11	15	do.	375	2.32	1-21-69	--	N	20	20	N	B 1 hr.
4acd	Orye Neuschwander	Dr	1965	42	10	42	P, 32-42	12	30	do.	370	9.48	9-10-69	--	T, 15	108	12	Ir	B 2 hr, L.
4bcc	Greene's Meat Co.	Dr	1960	75	8	--	--	12	--	do.	375	3.17	1-23-69	--	T, 5	--	--	In	
4dcb	Seneca Lumber Co.	Dr	1961	139	8	138	P, 44-138	30	--	do.	370	13	7-11-61	--	T	--	--	In	L.
4ddb	Albert Vogel	Dr	1960	39	6	39	B	35	4	do.	375	6	6-23-60	--	C, 1/3	60	12	D	P 1-1/3 hr.
5add	Blachley-Lane County Co-op Electrical Assoc.	Dr	1964	34	6	34	B	--	--	do.	365	106	4-10-69	200	S	20	9	D	B 1 hr, L.
8ccc	C. C. Bryan	Dr	1963	25	2	25	P, 23-25	21	4	do.	375	11	8-16-63	--	S	30	8	N	P 1 hr, L.
8dda	L. R. Misner	Dr	--	85	8	--	--	--	--	do.	374	12.95	9-25-69	--	T, 10	--	--	N	Formerly used for irrigation.
9dad1	Georgia-Pacific Corp.	Dr	1962	126	10	125	P, 83-125	25	70	do.	380	6.15	4-10-68	--	--	400	50	N	P 2 hr, L.
9dad2	Triangle Veneer, Inc.	Dr	1966	74	6	74	P, 64-74	--	--	do.	380	14	4-29-66	--	S, 5	60	20	In	B 2 hr.
10bba	Faith Baptist Church	Dr	1957	50	5	50	B	--	--	Gravel and sand	378	4	2-25-57	--	J, 1/3	23	28	D	B 1 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
								T. 17 S., R. 4 W.--Continued											
10caa	Greenacres Golf Course	Dr	--	86	6	--	--	--	--	Gravel and sand	380	7	1-22-59	--	T, 7½	--	--	Ir	Used to irrigate 17 acres of golf course.
10dbc2	Lane County	Dr	1965	49	6	46	B	--	--	Sand and gravel	375	14	11- 2-65	--	N	36	0	N	B 1 hr, L.
11ada	Santa Clara Fire Dept.	Dv	--	19.5	6	--	--	--	--	do.	389	12.30	4-21-69	--	N	--	--	N	
11bbc	Mrs. E. V. Smitson	Dr	1967	58	6	57.5	B	--	--	do.	379	8	12-15-67	--	S, 1/2	20	30	D	B 1 hr, L.
11bcc	C. H. Maesner	Dv	1962	22	2	22	P, 19½-22	18	4	do.	380	2.59	1-21-69	--	C	110	--	D	P.
11ddc	Jack Davis	Dr	1961	62	8	62	P, 30-43, 48-60	25	35	do.	380	8	5- 4-61	--	S	--	--	--	L.
12bab	Santa Clara Fire Dept.	Dv	--	20	6	20	--	--	--	do.	380	13.35	4-21-69	--	--	--	--	--	
12cac	do.	Dv	--	16.5	6	16.5	--	--	--	do.	385	12.04	3-24-69	--	--	--	--	--	
12cad	Tom Brown	Dv	1964	21	2	21	P, 18½-21	17	5	do.	388	11	9- 8-64	--	S, 1/3	80	--	Ir	P, L.
13bab	Eugene Water & Electric Board	Dr	1961	53	6	53	B	14	29	do.	389	12	4-25-61	--	N	60	28	N	P 4 hr, L.
13bcd	Santa Clara Fire Dept.	Dv	--	20	6	20	--	--	--	do.	392	12.59	4-21-69	--	N	--	--	N	
13ccd	Peter Schmitz, Jr.	Dr	1959	123	6	123	P	--	--	do.	400	18	11-30-59	264	J, 3	25	10	Ind	P 1½ hr, L, Ca.
13ddb	Dale Kingsley	Dr	1964	45	10	45	P, 18-45	16	29	do.	398	15	4-17-64	--	T, 10	225	11	Ir	P 2 hr.
14aca	North Eugene High School	Dr	1966	142	8	128	P, 18-125	17	110	do.	390	11	12- 2-66	--	--	450	7	PS	P 1 hr, L.
14add	Larry Max	Dr	1963	52	6	51	B	17	35	do.	390	16	4- 4-63	--	S	25	12	D	P 1 hr.
14cdd	Victor Hemmingsen	Dr	1963	49	6	49	B	16	33	do.	390	12	7-20-63	--	C, 1/2	12	30	S	B 1 hr.
14daa	William Ericksen	Dr	1965	45	6	45	B	15	30	do.	395	10	3-12-65	280	S, 1	40	15	D	B 2 hr, L.
15bca	Serve & Save Plywood	Dr	1966	35	6	34	B	10	25	do.	382	12	5-27-66	400	S, 1	25	10	Ind	B 1 hr.
15bcb	Empire Bowling	Dr	1957	37	6	35	B	10	25	do.	375	8	6-30-57	240	J, 1/4	10	20	D	B 1 hr, L.
16adc	L. E. Lee	Dr	1967	55	6	48	B	17	38	do.	380	11	9-16-67	--	J, 1/4	10	0	D	B 2 hr, L.
16ccd	W. G. Coleman	Dv	1947	21	1¼	19	--	10	9	do.	380	3.18	1-22-69	--	N	--	--	D	
17dbc	Alvin Clark	Dr	1957	40	5	40	P	10	30	do.	385	6	7-12-57	--	J, 1	300	10	Ir	B, L.
18adc	Marvin Ringsdorf	Dr	1966	41	6	41	P, 30-40	16	25	do.	370	4.47	4-14-69	--	J, 2	60	21	D	B 1 hr, L.
19dcd	Mrs. Schultz	Dr	--	--	5	50	--	--	--	Sandstone	438	--	--	800	P, 3/4	--	--	D	

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s): Depth to top (feet)	Water-bearing zone(s): Thickness (feet)	Water-bearing zone(s): Character of material	Altitude (feet)	Water level: Feet below datum	Water level: Date	Specific conductance of water	Type of pump and hp	Well performance: Yield (gpm)	Well performance: Drawdown (feet)	Use	Remarks
T. 17 S., R. 4 W.--Continued																			
19ddc	George Parks	Dr	1961	38	6	38	B	--	--	Sand	385	18.32	9-11-69	480	S, 1/2	10	23	D	B 1 hr, L.
21baa	R. D. Cross	Dr	1960	42	6	43	B	18	24	Sand and gravel	380	2	4-29-60	--	C, 1/2	50	20	D	P 1/2 hr, L.
21dda2	James Felton	Dv	1960	22	2	22	P, 19½-22	19	3	Sand	385	7	6- 3-60	--	C, 1	30	--	D	P, L.
22bad	E. W. Monroe	Dv	1968	22	2	22	P, 19½-22	14	8	Sand and gravel	390	5	4- -68	--	C, 1/2	80	--	D	P.
22cbb	Tom Hornig	Dr	1963	35	6	35	P, 25-35	20	15	do.	385	3.68	1-23-69	--	C, 1/2	30	12	D	P 1 hr, L.
22cdd	J & T Construction	Dr	--	30	5	30	--	--	--	do.	390	28	1-23-69	--	N	--	--	N	
23ada	Roy Schaefer	Dr	1967	46	6	45	B	27	19	do.	400	17	9- 8-67	--	S, 1	20	8	Ir	B 1 hr, L.
23cbb	Bonneville Power Adm.	Dr	1940	109	8	109	P, 46-60, 75-105	11 44 71	9 17 29	Gravel do. do.	396	6	3-15-40	--	T	110	28	In	P 12 hr, L.
23cbd1	American Portable Irrigation	Dr	1967	140	10	140	P, 18-140	22	--	Sand and gravel	395	10	5- 3-67	--	T, 10	380	70	In	P 1 hr.
23cbd2	do.	Dr	1960	61	8	61	P, 45-60	15	46	do.	398	14	11-17-60	--	S	75	12	Ir	B 2 hr, L.
23ccd	J. E. F. Robertson	Dr	1960	43	5	41	P, 33-41	16	27	do.	397	8	7-16-60	--	J, 3/4	35	13	D	B 1 hr, L.
24bad	Delmer Newman	Dr	1962	200	6	23	B	--	--	--	400	18	7-13-62	300	J, 3/4	5	150	D	B 2 hr, L; used only to irrigate lawn. Reported to have high bacteria count. Can easily be pumped dry during summer.
24bdd	V. R. Huffman	Dr	1965	60	6	35	P, 25-35	10	25	Sand and gravel	402	17	9-15-65	--	S, 3/4	40	0	D	B 2 hr.
24cbc	G. C. Snellstrom	Dr	1968	115	6	71	S, 66-71	20	30	do.	404	15	6-12-68	--	S, 1	45	17	Ir	P 3 hr, L.
25bad	Floyd Lawerence	Dg	1945	19	36	19	B	--	--	do.	411	13.88	3-25-69	380	C	--	--	D	
25bdc	R. L. Breckweg	Dv	1960	21	2	21	P, 18½-21	14	7	do.	408	6	6-13-60	--	C, 1/2	25	--	D	P, L.
26bbd	D. R. Neal	Dv	1961	20	2	20	P, 17½-20	18	2	Sand	400	7	6-12-61	--	C	8	--	D	Do.
27abd	Frank Clearmont	Dr	1961	73	6	73	B	20	50	Sand and gravel	395	10	9- 2-61	280	C, 1/4	30	13	D	P 1½ hr, L.
27cad	Cascade Resin	Dr	1968	150	10	147	P, 40-147	45	80	do.	395	17	9- 5-68	--	N	500	93	N	P 4 hr, L.
27cba	Comac Veneer	Dr	1966	130	12	128	P, 18-128	15	81	do.	397	18.00	3-21-69	--	T, 15	400	37	In	P 2 hr.
27cca	Lane Plywood	Dr	1968	150	10	147	P, 35-146	15	70	do.	395	35	5- 7-68	--	T, 20	480	45	In	P 8 hr, L.
28dbb	Olsen Manufacturing Co.	Dr	1957	45	5	43	B	18	26	do.	387	14	3-21-69	--	S, 3	18	24	In	B, L.
28dbc	do.	Dr	--	50	8	--	--	18	--	do.	385	13.19	3-21-69	--	T, 5	--	--	In	
29aaa	Cliff Nelson	Dr	1959	50	6	50	P, 30-49	16	34	do.	383	11	10-17-59	--	C	50	16	Ir	P 2½ hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 17 S., R. 4 W.--Continued																			
29aad	F. L. Terry	Dr	1959	44	6	42½	B	15	--	Sand and gravel	382	14	10-21-59	225	J, 1	25	30	D	B 1 hr.
29bcc	R. Homrighausen	Dr	1961	26	6	26	P, 22-26	19	7	do.	382	9	11- 1-61	--	C	16	10	D	B 1 hr, L.
29ccc	K. W. Hillian	Dr	--	50	6	50	--	19	--	do.	393	7.24	9-25-69	--	C, 1/2	--	--	D	
30aab1	V. C. Kelso	Dr	1961	38	6	38	B	23	15	do.	382	9.34	3-21-69	1,100	J, 4	20	25	D	B 1 hr.
30aab2	D. V. Bailey	Dr	1960	45	6	35	P, 30-34	27	7	do.	387	11.95	3-21-69	590	J, 1	25	15	D	B 1/2 hr, L.
31baa	Kennith Nielsen	Dr	1962	126	6	32	B	--	--	Sandstone	440	55	7- 1-62	630	S, 3/4	40	30	D	B 1 hr, L.
31cab	M. E. Long	Dr	1957	160	6	41	B	--	--	do.	595	230	3-27-69	--	P, 1/2	2	--	D	L; well inadequate. Three other wells at this place, ranging in depth from 154-300 ft, also inadequate.
31cdd1	L. R. Munsell	Dr	1967	68	6	28	B	58	--	do.	465	11.62	3-27-69	300	J, 1/2	40	20	D	B 1 hr, L.
31cdd2	do.	Dr	1967	152	6	21	B	50	--	do.	470	47	8-21-67	--	N	2	152	N	B 1 hr, L; abandoned.
31dac	Calvin Fisk	Dr	1967	195	6	42	B	--	--	do.	410	5	9-15-67	--	J, 5	35	165	D	B 1 hr, L.
32dab	Don Owen	Dr	1957	70	6	27	B	40	20	do.	400	20	11-19-57	1,025	J, 3	8	10	D	P 72 hr.
32dac	do.	Dr	1957	450	6	18	B	180 220	-- --	do. do.	460	9.30	3-27-69	--	N	1	--	N	B, L; not in use. Inadequate water supply.
33aba1	West Lawn Memorial Cemetery	Dr	1959	150	6	54	P, 25-51	25 96	26 19	Sand and gravel Sandstone	390	15.25	4-14-69	--	T, 15	60	20	Ir	P 1 hr. H (fig. 4).
33aba2	do.	Dr	1962	230	8	52	B	20 55	20 22	Sand and gravel Sandstone	392	5	11- 9-62	--	T, 15	45	55	Ir	B 1 hr, L.
33cba	Lane Memorial Gardens	Dr	1953	150	8	73	B	85	--	do.	390	14.48	4-11-69	--	S, 20	50	0	Ir	B, L.
36bba	Zip O Log	Dr	1962	200	8	154	B	--	--	--	400	--	--	--	N	10	--	N	B 1 hr, L.
36dc	Eugene Parks Recreation Dept.	Dr	1963	250	8	26	B	--	--	--	410	10	7- 5-63	--	N	30	200	N	B 1 hr, L; inadequate water supply.
T. 17 S., R. 5 W.																			
1cbb	Clara Vaughn	Dr	1965	62.5	6	62.5	B	45	17	Sand and gravel	372	12.25	6-21-69	60	J, 1/2	35	30	D	B 1 hr, L.
2abb	Kenneth Drew	Dr	1965	90	6	61	P, 18-59	15	46	do.	378	8	8-29-65	50	S, 1	80	5	D	Do.
3aad	Decker's Nursery	Dr	1968	160	8	114	P, 30-114	30	90	Sand, gravel, and clay	360	21.52	9-23-69	52	S	110	85	Ir	P 1 hr, L; well originally 110 ft; deepened to 160 ft.
5cbb	Clyne Funk	Dr	1968	140	6	53	B	48	8	Gravel	400	8.73	5-20-69	205	S, 1	4½	125	D	P 1 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
								T. 17 S., R. 5 W.--Continued											
5dcc	Larry Bangs	Dr	1968	92	6	92	B	56	35	Sand and gravel	425	21.05	5-20-69	--	N	17	65	N	B 1 hr.
6bcb	Uhlein Love	Dr	1966	74	6	42	B	--	--	Sandstone	500	25	4-29-69	200	J, 1	45	30	D	Do.
6bda	K. W. Brabham	Dr	1968	123	6	19.5	B	30	10	do.	520	6.5	5-31-68	200	J, 1	16	100	D	B 1 hr, L.
6dad	Stewart Sether	Dr	1968	160	6	50	B	18	27	Gravel	400	7.97	5-20-69	185	S	4½	143	D	P 1 hr, L.
6dbd	Henry Seideman	Dr	1968	83	6	48	B	70	10	Sandstone	400	7.5	4-15-68	190	J, 1/2	20	65	D	B 1 hr.
7cdd	Bert Murdock	Dr	1967	100	6	49	B	18	29	Sand and gravel	400	18	10-17-68	225	J, 1	35	55	D	B 1 hr, L.
7dcc	R. J. Murdoc	Dr	1967	39½	6	39½	B	17	22	do.	400	8.59	5-21-69	--	S, 1/2	19	6	D	B 1 hr.
7dda	Howard Lunceford	Dr	1966	61	6	59½	B	59	2	do.	390	18.50	5-20-69	115	J, 1	17	30	D	B 1 hr, L.
8ccd	C. D. Parkenson	Dr	--	40	6	40	--	18	20	do.	395	10.27	5-20-69	55	S, 3/4	--	--	D	Used as water supply for three homes.
10aad	Mrs. Nona M. Huey	Dr	1960	108	6	106	B	--	--	do.	360	6	4- 2-60	--	J, 1	20	30	D	B 4 hr, L.
11abb	A. B. C. Auto Wreckers	Dr	1966	129	6	124	B	44	--	do.	380	30	11-19-66	--	J, 1	30	20	D	B 1 hr, L.
11bad	T. S. Korn	Dr	1948	90	4	--	--	--	--	do.	390	16.54	11-13-68	--	J, 1/3	--	--	D	
11cba	C. E. Reeves	Dg	--	31.5	48	6	B	--	--	--	390	24.59	11-13-68	--	J, 3/4	--	--	D	
12ada	L. R. Andrus	Dr	1965	64	6	63	B	25	--	Sand, gravel, and clay	375	18	11-15-65	80	S, 1/2	25	22	D	B 1 hr, L.
12bac	Keith McKinney	Dr	1967	55.5	6	56	B	35	--	Sand and gravel	375	6.5	4- 5-67	70	S, 1	35	16	D	B 1 hr.
12cab	Grant Davis	Dr	1951	30	4	30	--	15	--	do.	375	5.50	6-24-69	75	P	2	16	S	P 24 hr.
13aab	Paul Jones	Dr	1965	84	10	18	B	--	--	--	385	24.74	6-18-69	70	S, 5	78	63	Ir	P 5 hr; used to irrigate 15 acres of alfalfa.
13bdd	Ebert Griesel	Dr	1960	96.5	8	96.5	P, 71-96	57	39	Sand, gravel, and clay	390	15.20	6-18-69	85	C, 2	120	4	Ir	P 1 hr, L. H (fig. 4).
18bba	A. V. Voller	Dr	--	130	6	--	--	--	--	--	450	15.82	5-16-69	320	J, 2	--	--	D	
18bda	Veriet Swezey	Dr	--	120	6	60	--	--	--	--	400	12.19	5-15-69	150	J, 1	--	--	D	
20ada1	Donald Brinton	Dr	1969	70	6	70	B	38	32	Sand and gravel	390	15	2-21-69	--	S, 1	50	30	D	B 1 hr.
20ada2	do.	Dr	1969	123	6	120	B	34	41	do.	390	18	3-11-69	--	J, 2	60	8	Ir	P 1 hr, L.
20bdd	E. V. Lundeen	Dr	1967	58	6	58	B	36	22	do.	385	11	7-11-67	--	J, 3/4	30	35	D	B 1 hr.
21bbc	Ed Childs	Dr	1962	76	6	76	B	46	30	do.	385	14	4- 7-62	210	J, 1½	50	10	D	Do.
24acb	C. W. Thornton	Dr	1964	51	6	50.5	B	48	3	do.	380	14	7- 2-64	--	C, 1/2	40	15	D	B 1 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s): Depth to top (feet)	Water-bearing zone(s): Thickness (feet)	Water-bearing zone(s): Character of material	Altitude (feet)	Water level: Feet below datum	Water level: Date	Specific conductance of water	Type of pump and hp	Well performance: Yield (gpm)	Well performance: Drawdown (feet)	Use	Remarks
T. 17 S., R. 5 W.--Continued																			
24bdd	Charles Kimble	Dr	1967	63	6	62	B	--	--	--	385	14	6- 2-67	--	J	15	20	D	B 1 hr.
24ccc	Lyman Rowe	Dr	1966	70	6	20	B	51	18	Sandstone	385	13.90	6-25-69	180	S, 1/2	17	40	D	B 1 hr, L.
25aac	R. G. Gentry	Dr	1965	242	6	19.5	B	88	2	do.	410	--	--	--	N	4½	--	N	L; water reported to be saline; well abandoned.
25adb	do.	Dr	1965	240	6	--	--	80	--	do.	480	--	--	--	N	--	--	--	Contained very little water; well abandoned.
29abb	Seventh Day Bethel Assoc.	Dr	1968	97	5	97	P, 93-97	90	7	Gravel	400	20.14	5- 2-69	--	J, 1	14	40	N	B 1 hr, L.
29ccc	Seventh Day Adventist Church	Dr	1967	61	6	59½	P, 47-55	47	20	Gravel and sand	400	35.40	9-11-69	80	S, 1	37	10	D	B 1 hr.
29dba	H. E. Hammermaster	Dr	1960	64.5	6	64.5	B	61	3½	Sand and gravel	400	32	11- 5-60	--	J, 1/2	13	25	D	Do.
29dcd	Girl Scout Camp	Dr	1958	90	5	90	B	--	--	--	390	24.95	5- 1-69	--	J, 1½	20	30	D	B 1 hr, L.
30dda	Elmer Thielman	Dr	1962	70	6	69	B	38	32	Sand and gravel	390	26	10- 4-62	--	J, 1	30	25	D	Do.
31bad	Christ Lutheran Church	Dr	1958	54	6	52	B	--	--	do.	405	32	10- -58	--	J, 1½	35	15	D	B 1 hr.
31bca1	City of Veneta	Dr	1967	124	12 10	76 124	S, 79-119	60	60	do.	410	48.15	5-14-69	155	T, 15	190	58	PS	P 24 hr, L.
31bca2	do.	Dr	1967	120	12 10	73 120	S, 75-115	60	55	do.	410	54	9-22-67	--	T, 15	185	56	PS	Do.
31bca3	do.	Dr	1964	120	6	80	S, 80-100	80	20	do.	410	47.55	5-14-69	--	N	100	46	T	P 22 hr.
33abb	Leon Keeney	Dr	1966	70	6	65	P, 47-50	40	10	do.	378	8	5- 5-66	--	S, 1/2	20	10	D	B 1 hr, L.
33adal	Bartels' Meat	Dr	1962	160	6	88	B	98	--	Sandstone	378	6	6- -62	125	S, 3/4	10	90	In	B 1½ hr, L.
36adb	Bonneville Power Adm.	Dr	1966	200	6	187	S, 187-197	--	--	Shale	398	8.5	3-25-66	320	S, 1½	25	82	D	P 4 hr, L, Ca.
36baa	R. E. Pettie	Dr	1968	130	4	84	B	118	--	do.	450	101	4-27-68	--	S, 1½	20	4	D	B 1 hr, L.
36ddd	Mrs. V. T. Kamp	Dr	--	52	3	--	--	--	--	Sandstone	442	7.50	9-25-69	--	C, 3/4	--	--	--	
T. 17 S., R. 6 W.																			
1bac	Archie Moor	Dr	1964	132	6	35	B	--	--	Sandstone	650	28.85	5-21-69	80	S, 1	4	100	D	B 1 hr, L.
2dcc	Glenn Anderson	Dr	1966	230	6	63	B	--	--	do.	675	39.70	5-28-69	280	S, 1/3	2	150	D	B 1 hr, L; at this location two springs are used for stock and garden. Judicious use of all water available makes this well adequate for most household uses.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 17 S., R. 6 W.--Continued																			
2dd	Robert Hoffman	Dr	1966	155	6	42	B	--	--	Sandstone	720	132.27	5-21-69	280	S, 1	8	30	D	B 1 hr; does not have adequate water supply to irrigate garden.
12bda	Ken Johnson	Dr	1967	103	6	43	B	40	--	do.	650	40.48	5-16-69	270	J, 1	12	50	D	B 1 hr, L.
12ddc	M. Greenleaf	Dr	--	124	6	40	B	--	--	do.	450	--	--	979	J, 1	--	--	D	Ca.
13aad	Darrell Smith	Dr	1965	85	6	22	B	--	--	do.	470	22	5-19-65	580	S, 2/3	40	36	D	B 1 hr, L.
13cca	J. E. Bown	Dr	1968	50	5	26	B	42	2	Shale	500	11.54	5-15-69	175	S, 2/3	28	9	D	Do.
13dba	H. L. Jacobson	Dr	1967	100	6	42	B	--	--	Sandstone	550	18.02	5-15-69	170	S, 1	10	70	D	Do.
14ada	A. E. McPheeters	Dr	1966	60	6	39	B	37	--	do.	520	17.29	5-15-69	240	S, 2/3	10	35	D	Do.
14dac	J. E. Bown	Dr	1959	208	6	--	B	--	--	do.	540	41.02	5-15-69	260	S, 2/3	20	120	D	Do.
23ada	Walter Jenkins	Dr	1963	53	6	53	B	40	13	Sand and gravel	465	23.99	5-14-69	120	S, 1/3	50	3	D	P 1 hr, L.
23dcb	R. A. Stone	Dr	1960	76	6	76	B	38	30	do.	455	22.35	5-14-69	220	J, 1/2	40	33	D	B 2 hr, L.
24ada	Graydon Bachman	Dr	1965	48	6	48	B	--	--	--	375	6.17	5-15-69	125	S, 1	--	--	D	
24bac	J. H. McClenner	Dr	1964	82	6	--	--	--	--	--	460	27.20	5-15-69	165	S, 1	--	--	D	
24dcb	Elmira High School	Dr	1963	120	10	111	B	113	7	Sand and gravel	380	10.24	5-14-69	145	S, 5	102	43	PS	P 8 hr, L.
24ddc	Elmira Grade School	Dr	--	233	8	--	--	--	--	--	390	29.62	5-14-69	1,249	S, 2	--	--	PS	Ca.
25aaa	Elmira Junior High School	Dr	1958	100	8	78	P, 48-78	5	75	Sand, gravel, and boulders	375	15.84	5-13-69	145	S, 1½	100	70	PS	B 1/2 hr, L.
25acb	Edward Utter	Dr	1963	59	6	59	B	45	14	Sand and gravel	375	5	4-22-63	140	S	30	45	D	B 1 hr, L.
25cab	Darrel Kau	Dr	1967	153	6	51	B	50	2	do.	400	13.79	5-13-69	--	--	4	40	D	B 1½ hr, L; water comes from contact between sand and bedrock.
36adc	Gladys Jorgensen	Dr	1966	82	6	82	B	60	22	do.	400	50	8-17-66	170	S, 1/2	20	10	Ir	B 2 hr, L.
36cdd	Waldo Hunter	Dr	1964	351	6	50	B	344	7	Sedimentary rock	500	45.16	5-13-69	--	N	8	290	N	B 1½ hr, L.
36dca	O. E. Williams	Dr	1959	91	6	90	P, 68-86	55	36	Shale	440	53.93	5-12-69	160	S, 5	22	0	Ir	B 1 hr, L. H (fig. 4).
T. 18 S., R. 2 W.																			
4bdd	W. W. Dow	Dr	1956	239	6	84	B	--	--	--	500	12	6- 4-56	--	J, 3/4	8	78	D	P 2 hr, L.
4dab1	Hugh Hassell	Dr	1960	128	6	31.5	B	125	3	Sandstone	570	48.03	7-30-68	150	J, 1	18	80	D	B 1 hr, L.
4dab2	C. C. Crone	Dr	1963	110	6	48	B	--	--	--	575	23.67	7-30-68	--	N	20	45	N	B 1 hr, L.
5acc	O. S. Headlee	Dr	1967	65	6	46	B	20	45	Sand and gravel	490	12	3-27-67	--	S, 1	15	40	D	B 1 hr.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
								T. 18 S., R. 2 W.--Continued											
5add	C. A. Keever	Dr	1968	80	6	35	B	--	--	--	490	19.38	7-30-68	118	J, 1½	20	0	D	P 24 hr, L.
5bda	L. L. Patrick	Dr	1966	55	6	55	B	14	28	Sand and gravel	490	15	5-18-66	--	S	16	55	D	B 1 hr, L.
6adb	D. G. Healey	Dr	1967	265	6	21	B	--	--	--	482	--	--	--	N	--	--	N	L; inadequate water supply; well abandoned.
6bad	R. L. Chadburn	Dr	1962	55	6	55	B	15	50	Sand and gravel	480	9	6-26-62	--	S, 1	20	25	D	B 1 hr, L.
6bdd	Bob Behm	Dr	1961	43	6	43	B	14	29	do.	475	10.46	7-30-68	--	J, 1	14	25	D	B 1/2 hr.
6dba	Howard Jenkins	Dr	1962	38	6	39	B	12	26	do.	470	10.40	7-30-68	220	S, 1/2	30	2	D	B 3 hr, L. H (fig. 5).
7bcb	Warren Holden	Dr	1959	38	6	38	P	12	16	do.	465	10	9-30-59	--	N	50	12	N	B 2 hr.
9acb	Don Hendricks	Dr	--	80	6	--	--	--	--	--	505	--	--	--	J, 1	--	--	D,S	
10dac1	Gordon Tripp	Dr	1956	216	6	15	B	--	--	--	720	90	10-25-56	--	S, 1	6	190	D	B 2 hr, L.
10dad	D. K. Mitchel	Dr	1963	152	6	42	B	--	--	--	720	70	10-10-63	--	S	16	52	D	Do.
11aaa1	Norman Hutchinson	Dr	1965	145	6	63	B	--	--	Sandstone	1,420	14.43	7-31-68	105	S, 1/2	5	140	Ir	B 1 hr; used to irrigate lawn and garden; a 126-ft well is used for the house.
11adb	Robert Barrett	Dr	1965	380	6	21	B	--	--	--	1,170	95	10-11-65	--	N	4	365	N	B 1 hr, L.
11dbc	R. G. Reynolds	Dr	1964	505	6	20	B	--	--	Sandstone	870	240	9- 2-64	750	S, 1½	6	260	D	B 1 hr, L, Ca.
11dcd	Lyle Schulz	Dr	1967	400	6	80	P, 40-80	--	--	--	700	82	8-18-67	500	S, 3/4	4	--	D	B 1 hr; well was deepened from original depth of 125 ft.
11ddc	Howard Mart	Dr	1964	170	6	20	--	--	--	--	780	80	7-31-68	210	S, 1	7	60	D	B 2 hr, L; inadequate water supply for both house and lawn. Has another auxiliary well 195 ft deep.
12bba	F. R. Baker	Dr	1967	225	6	21	B	--	--	--	1,450	45	9-29-67	160	S, 1/2	3	180	D	B 1 hr.
12ccb	Arthur Davisson	Dr	1967	210	6	36	B	--	--	Sandstone	820	--	--	280	S, 1	30	--	--	B, L.
14bad	L. L. Davis	Dv	--	31.5	4	31	--	--	--	--	620	21.64	7-31-68	--	C, 1/2	--	--	N	
14bca	R. J. Frisendahl	Dr	1966	150	6	21	B	--	--	Claystone	620	100	8- 8-66	--	S, 1/2	7	40	D	B 2 hr, L.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 18 S., R. 3 W.																			
1dac1	Pacific Power & Light Co.	Dr	1957	44	16	44	P, 22-42	10	34	Sand and gravel	465	9	4- 3-58	--	T, 25	750	22	PS	P 72 hr.
1dac2	do.	Dr	1956	44	16	44	P, 19-44	10	34	do.	458	9	7-24-56	--	T, 25	756	40	PS	P 72 hr.
1dad	do.	Dr	1964	50	12	50	P, 18-48	10	50	do.	465	12	4-28-64	--	T, 60	320	23	PS	P 9 hr.
1dbc1	do.	Dr	1965	55	16	55	P, 22-47	10	45	do.	458	7	4-23-65	--	T, 100	1,700	9½	PS	P 30 hr, L.
1dbc2	do.	Dr	1965	56	16	56	P, 22-47	14	42	Gravel and sand	458	11.5	6- 4-65	--	T, 50	750	10	PS	P 30 hr.
1dbd	do.	Dr	1958	56	16	56	P, 22-54	14	42	do.	458	11	5- 9-58	--	T, 75	1,250	14	PS	P 24 hr.
1dca	do.	Dr	1965	55	16	55	P, 22-47	12	43	do.	458	10.5	4- 2-65	--	T, 100	1,200	10	PS	P 30 hr, L.
1dda	do.	Dr	1956	30	12	30	P, 12-30	12	18	do.	465	9	7-30-56	--	T, 25	--	--	--	L; used for recharging.
1ddb1	do.	Dr	1960	49	16	49	P, 24-49	12	37	do.	465	10	5- -60	--	T, 75	1,300	14	PS	P 22 hr.
1ddb2	do.	Dr	1961	50	16	50	P, 25-50	12	38	do.	458	8	3- -61	--	T, 75	1,250	13	PS	P 24 hr.
2bdb	S. W. Alexander	Dr	1952	87	4	22	B	--	--	--	500	18	1952	--	--	6	--	D	B 2 hr, L.
6aca	Pauline Olson	Dr	1965	160	6	20	B	--	--	--	480	75	6- 4-65	--	S, 1/2	2	40	Ir	P 2 hr, L; used to irrigate lawn.
7bca	H. T. Eaton	Dr	1957	124	6	--	--	--	--	--	660	80	5-22-57	--	S, 1-3/4	--	--	Ir	Used to irrigate lawn.
7bdb	W. L. Morse	Dr	1956	230	6	139	B	--	--	Sandstone	665	46.77	3-26-69	525	S, 2	25	90	Ir	B, L.
8caa	Carl Goddard	Dr	1967	200	6	27	B	--	--	do.	465	18	8-29-67	--	S, 1	7	180	Ir	B 1 hr, L; used to irrigate lawn.
9dac2	Vern Warnock	Dr	1965	250	6	84	B	--	--	do.	640	42	3-24-65	--	J, 1	2	206	N	B 1 hr, L.
10cab	D. R. Chamberlain	Dr	1963	102	6	20	B	62	--	do.	560	92	8- 6-63	--	J, 3/4	8	92	D	Do.
11cdc	Mobil Oil Co.	Dr	1967	175	6 5	42 175	P, 28-175	--	--	--	490	20	5-10-67	--	N	12	145	N	Do.
12ddd	Harold Estep	Dr	1967	65	6	65	P, 18-48	18	47	Sand and gravel	469	13.26	3-28-69	--	S, 2	40	30	Ir	Do.
13ccb	Oak Mobile Trailer Park	Dr	1968	120	6	20	B	19	--	Sandstone	470	19	1-27-68	305	S, 1	25	120	D	Do.
14aaa	R. S. Willoughby	Dr	1964	57	6	57	P, 20-25	19	34	Sand and gravel	460	18	5-26-64	--	J, 1	15	30	D	B 2 hr, L.
17aac	G. W. Shafer	Dr	1959	268	6	37	B	--	--	Sandstone	725	240	5- 1-59	--	N	16	--	N	B 2 hr, L; well abandoned.
T. 18 S., R. 4 W.																			
1cbb	Mrs. C. R. Knorr	Dr	1955	48	6	15	B	--	--	--	570	20	8-20-55	--	N	3	40	N	B, L.
3bcd	J. P. Bergman	Dr	1957	74	6	22	B	72	2	Sand, coarse	425	7	4-11-57	--	J, 1	15	50	D	B.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
								T. 18 S., R. 4 W.--Continued											
3cad	Nils Hult	Dr	1957	241	6	--	B	238	3	Sandstone	560	158	12- 7-57	672	--	48	57	D	P 6-3/4 hr, L, Ca.
3cdb	J. F. Evans	Dr	1967	200	6	--	B	180	6	Sand and clay	480	120	5-17-67	--	S, 3/4	22	80	D	B 1 hr.
3dac	Merrill Manley	Dr	1959	132	6	49	B	73	41	Lava rock	570	75	6-24-59	--	J, 1½	3/4	106	D	B 1/2 hr, L.
5acd	R. E. McGowan	Dr	1963	400	6	40	B	--	--	Claystone	610	235	7-24-63	--	S, 1/2	6	150	D	B 24 hr, L.
5ccc	Fred Fox	Dr	1958	75	5	43	B	70	5	Gravel	900	--	--	340	J, 1/4	12	70	D	B.
5dba	R. E. McGowan	Dr	1965	200	6	21	B	13	187	Sandstone	520	--	--	--	N	30	200	N	B 1 hr, L.
6abc	N. O. Hess	Dr	1964	100	6	55	B	--	--	Tuff	520	46	5-11-64	--	J, 3/4	2	50	D	Do.
7cdd	Royal Sanders	Dr	1964	250	6	24	B	18	232	Claystone	560	20	8-18-64	293	S, 3/4	10	200	D	B 1 hr, L, Ca.
8dda	John Koffler	Dr	1965	264	6	231	B	231	33	Tuff	850	136	4-15-65	--	S, 1	15	90	D	B 1 hr, L.
8ddb	Dick Witzell	Dr	1967	91	6	26	B	--	--	Sandstone	745	24	2- 7-67	--	S, 3/4	50	21	D	B 1 hr.
9abc	Douglas Marx	Dr	1967	272	6	21	B	257	15	Sand	550	--	9-27-67	--	N	0	--	N	L; insufficient water for any use.
9cbd	Dr. B. W. Bond	Dr	1964	175	6	24	B	0	175	Sandstone	865	107	11-20-64	--	S, 1	20	4	D	B 1 hr.
9dbc	R. D. Breeden	Dr	1967	200	6	90	B	--	--	--	690	95	4-17-67	--	S, 3/4	32	35	D	Do.
12abd	Al Stiffler	Dr	1963	222	6	23	B	115	107	Sandstone	600	40	4- 8-63	--	S, 1/2	3	200	D	B 1 hr, L.
12bcc	Gordan Moore	Dr	1958	210	6	71	B	--	--	do.	780	36.4	3-26-69	--	N	9	100	N	Do.
12cac	Lorie J. Cross	Dr	1957	102	6	31	B	--	--	--	730	25	9-23-57	480	J, 1	26	31	D	B 2 hr.
12cbd	J. D. Vasey	Dr	1957	115	5	12	B	--	--	--	740	Flows	3-26-69	--	S, 3/4	6	95	D	B 2 hr, L; 2 gpm artesian flow.
14acb	Ernest Muster	Dr	1959	502	5	334	B	330	172	Sandstone	810	180	10- 9-59	885	S, 1	20+	50	D	B 2 hr, L, Ca.
16aac	Reno Rigutts	Dr	1965	235	6	31	B	--	--	--	795	120	7-12-65	--	N	4	110	N	B 1 hr.
16aad	David Smothers	Dr	1967	250	6 5	63 250	P, 200-250	--	--	--	770	150	6-13-67	--	S, 1	5	100	D	B 1 hr, L.
17abd	Robert Sage	Dr	1967	250	6	80	B	18	232	Sandstone	640	80	2-20-67	--	S, 3/4	30	105	D	B 2 hr, L.
18adb	Norman Pohll	Dr	1966	170	6	140	B	--	--	--	525	10	3-23-66	--	J, 5	15	100	D	B 1 hr, L.
18dda	S. H. Wingfield	Dr	1964	65	6	20	B	10	55	Sandstone	460	15	10-19-64	--	S, 3/4	15	35	D	Do.

Table 1.--Records of wells in the Eugene-Springfield area--Continued

Well number	Owner	Type of well	Year completed	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Finish	Water-bearing zone(s)			Altitude (feet)	Water level		Specific conductance of water	Type of pump and hp	Well performance		Use	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date			Yield (gpm)	Drawdown (feet)		
T. 18 S., R. 5 W.																			
1cda	John Trank	Dr	1964	143	8	50	B	49	94	Sandstone	540	64	6-24-64	260	S	25	46	D	B 1 hr, L.
3aba	N. E. Ream	Dr	1960	56	6	31	B	12	44	Bedrock	400	6	6-16-60	--	--	50	20	D,S	B, L.
4aca	Theron Swanson	Dr	1967	170	6	41	B	37	133	Rock, sedimentary	400	20.57	10-10-68	--	N	4	30	N	B 1 hr, L; inadequate water supply for domestic use. H (fig. 5).
4bbd	Bernard Braun	Dr	1969	52	6	20	B	15	37	do.	400	10	2-22-69	--	J, 1	30	35	D	P 24 hr, L.
4bca	L. L. Pocholec	Dr	1960	206	6	118	B	--	--	Clay and shale	400	--	--	--	N	0	--	N	L; inadequate water supply for domestic use.
5bbc	Carl Pruett	Dr	1967	144	6	144	B	102	42	Sand, gravel, and silt	400	35	6- 6-67	--	S, 1/2	30	70	D	B 2 hr, L.
5bdb	Alfred Summers	Dg	--	21	48	21	B	--	--	--	400	5.58	10-10-68	--	N	--	--	N	Meager water supply.
5cba	Jerry McNew	Dr	1967	117	6	115	B	93	24	Sand	400	40	5-23-67	--	--	20	10	D	B 1 hr, L.
6abb	Andrew Kirkpatrick	Dr	1965	72	6	73	B	47	31	do.	420	47	7- 8-65	--	S, 1	12	4	D	B 1 hr, L; drilled to 78 ft; filled with gravel to 72 ft.
6bca	Walter Taff	Dr	1967	82	6	82	B	78	4	Gravel and sand	420	54	6-28-67	--	J, 3/4	15	15	D	B 1 hr, L.
6cbb	Bill Hartman	Dr	1967	121	6	119	B	119	2	Sand	430	74	10- 6-67	--	J, 1	23	25	D	Do.
7add	Travis Fox	Dr	1967	80	6	63	B	--	--	--	500	13.25	4-30-69	100	--	5	69	D	Do.
7bad	Norman Fleck	Dr	1965	135	6	118	P, 65-115	48	87	Sandstone	480	27	6- 1-65	--	N	18	80	N	Do.
9bba1	Central School	Dr	1966	250	6	18	B	--	--	--	400	19	5-31-66	--	J, 1/2	5	225	PS	B 1 hr, L; school has another 250-ft, 6-in. well with 2 gpm production.
12baa	Emil Benson	Dr	1961	141	6	22	B	--	--	--	485	52	10-23-61	230	S, 3/4	25	60	D	B 1 hr, L.
12bdd	Mr. Gruing	Dr	1960	61	6	20	B	7	54	Rock, sedimentary	400	13	10-12-60	--	J, 1/2	12	40	S,Ir	B 1/2 hr, L.
15acb	Bill Chada	Dr	1966	100	6	27	B	50	50	Sandstone	450	20	5- 2-66	--	S, 1/2	5	80	D	B 1 hr, L.
17bad	Clyda Youngblood	Dr	1960	101	6	27	B	25	76	Sandstone and shale	500	14	8-22-60	450	J, 1	14	80	D	B 1/2 hr, L.
18cab	Harry Williamson	Dr	1968	240	6	41	B	--	--	Sandstone	700	61	9-24-68	--	J, 1/2	1/5	180	D	B 1 hr, L.
T. 18 S., R. 6 W.																			
1cbc	Leon Collver	Dr	1968	106	6	45	B	39	67	Rock, sedimentary	525	11	4- 8-68	--	--	8	90	D	B 1 hr, L.
1ccb	Curtis Sizemore	Dr	1968	84	6	41	B	33	51	do.	525	14.13	5-12-69	220	J, 1	11	75	D	B 1 hr; artesian flow when drilled.
1ddd	Clark White	Dr	1964	177	6	143	B	--	--	--	450	80	3-24-64	800	J, 1	15	72	D	B 1 hr, L; drilled to 190 ft; finished at 177 ft.
2ddc	Elmer O'Neal	Dr	1951	86	6	60	B	--	--	--	580	--	--	220	J, 1	--	--	D	Reported to flow first 5 years.

Table 2.--Drillers' logs of representative wells

Materials	Thickness (feet)	Depth (feet)
15S/3W-21dad. Pacific Power & Light Co. Altitude 331 ft. Drilled by Carter's Drilling & Pump Service, 1963. Casing: 6-in. diam to 93 ft; perforated 79-91 ft		
Soil	4	4
Clay	8	12
Sand, gravel, and clay, mixed	15	27
Sand	13	40
Sand, blue, with clay	12	52
Clay, brown	23	75
Sand, coarse, and gravel, with small bits of wood	18	93
15S/3W-22cbd. Keith Barker. Altitude 332 ft. Drilled by Merle Warren Well Drilling, 1968. Casing: 6-in. diam to 39 ft; perforated 36-38 ft		
Soil	2	2
Clay, brown	4	6
Clay and boulders	5	11
Gravel, cemented	5½	16½
Clay and gravel	13½	30
Gravel	10	40
15S/3W-26aac. Monty Jelden. Altitude 460 ft. Drilled by Merle Warren Well Drilling, 1966. Casing: 6-in. diam to 19 ft; unperforated		
Soil	3	3
Rock, shaley	21	24
Rock, black	11	35
15S/3W-28cab. Oregon State Highway Commission. Altitude 342 ft. Drilled by J. A. Sneed & Sons, 1961. Casing: 6-in. diam to 62 ft; perforated 34-54 ft		
Soil	2	2
Conglomerate	17	19
Sand and gravel, water-bearing	1	20
Conglomerate	14	34
Sand and gravel, water-bearing	1	35
Conglomerate, water-bearing	26	61
Clay, blue	19	80
Clay, green	10	90
Claystone, gray	15	105
15S/3W-28cad. Oregon State Highway Commission. Altitude 342 ft. Drilled by W. W. Drilling & Pump Service, 1965. Casing: 6-in. diam to 150 ft; perforated 55-60 ft		
Soil	8	8
Dirt, gravel, and sand	32	40
Sand and gravel	21	61
Clay, blue and gray	89	150
15S/3W-29ccc. J. R. Simplot Co. Altitude 240 ft. Driven by Christensen Drilling & Irrigation, 1964. Casing: 2-in. diam to 18 ft; perforated 16-18 ft		
Clay	10	10
Sand and gravel	8	18
15S/3W-32add. C. D. Miller. Altitude 345 ft. Drilled by Merle Warren Well Drilling, 1959. Casing: 6-in. diam to 35 ft; perforated 27-35 ft		
Soil	3	3
Rock and clay	4	7
Gravel	21	28
Sand, hard	7	35
15S/4W-19dbd. Martin Strome. Altitude 315 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 10-in. diam to 380 ft; perforated 18-100 ft, 115-380 ft.		
Loam	8	8
Sand and large gravel	12	20
Sand, gravel, and clay	20	40
Gravel, small, and clay	45	85
Clay, dark-colored, sandy	10	95
Clay, gray	20	115
Clay, gray, sandy	5	120
Clay, blue-gray, sandy	45	165
Clay, blue	10	175
Clay, light blue-gray, with wood	85	260
Claystone, gray, sandy	10	270
Clay, gray, with brown streaks, sandy, with lots of wood	25	295
Clay, gray, sandy	15	310
Clay, blue, sticky	20	330
Clay, blue, sandy	10	340
Clay, grayish-white, sandy	25	365
Clay, dark-gray	75	440
15S/4W-19dda. Martin Strome. Altitude 310 ft. Driven by Pitcher Pump & Drilling Co., 1968. Casing: 5-in. diam to 27 ft; perforated 23-28 ft		
Soil	8	8
Sand and gravel, with clay	9	17
Sand and gravel, loose	11	28
15S/4W-22cdb1. Eugene Chemical Works. Altitude 316 ft. Drilled by Christensen Drilling & Irrigation, 1962. Casing: 8-in. diam to 35 ft		
Soil	7½	7½
Sand and gravel	28½	36
Clay, blue	4	40
15S/4W-22cdb2. Eugene Chemical Works. Altitude 316 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 8-in. diam to 30 ft; perforated 21-29 ft		
Soil	6	6
Sand and gravel, loose	22	28
Clay	2	30
15S/4W-22cdd. Eugene Chemical Works. Altitude 320 ft. Drilled by Christensen Drilling & Irrigation, 1962. Casing: 8-in. diam to 155 ft; perforated 103-155 ft		
Soil	18½	18½
Gravel, sand, and clay	9½	28
Sand and fine gravel	17	45
Clay, blue	77	122
Sand, blue	32	154
Sand, gray, fine	1	155
15S/4W-25acd1. Paul Bowers. Altitude 331 ft. Drilled by O. B. Nye, 1964. Casing: 5-in. diam to 25 ft; perforated 21-25 ft		
Soil and brown clay	14	14
Sand, gray, packed	2	16
Gravel, cemented	7	23
Sand and gravel, water-bearing	2	25
15S/4W-26bbc. Richard Stroda. Altitude 322 ft. Drilled by Christensen Drilling & Irrigation, 1964. Casing: 6-in. diam to 35 ft; unperforated		
Soil and clay	1	1
Sand and gravel	34	35

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
15S/4W-26cda. Mark Bowers. Altitude 325 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 6-in. diam to 47 ft; perforated at 46 ft		
Soil, "heavy"	3	3
Gravel and sand, cemented	8	11
Sand and gravel, loose	11	22
Sand and gravel with clay, tight	25	47
Clay and sand	15	62
15S/4W-28ada. O. K. Peterson. Altitude 314 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 10-in. diam to 29 ft; perforated 18-29 ft		
Soil, sandy	12	12
Clay, with some gravel and sand	8	20
Sand and gravel, loose	8	28
Sand, reddish-brown, with clay	14	42
Sand, blue, with clay	5	47
Clay, blue-green	3	50
15S/4W-28bad2. O. K. Peterson. Altitude 320 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 10-in. diam to 34 ft; perforated 22-33 ft		
Soil	6	6
Sand and gravel	17½	23½
Sand and gravel, loose, water-bearing	10	33½
Clay, sandy, blue	½	34
15S/4W-28cab. O. K. Peterson. Altitude 316 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 10-in. diam to 37 ft; perforated 19-36 ft		
Soil	6	6
Sand and gravel	7½	13½
Sand and gravel, loose	23	36½
Clay, tan, with sand	½	37
15S/4W-28dbb. O. K. Peterson. Altitude 315 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 10-in. diam to 32 ft; perforated 22-32 ft		
Soil, sandy	10	10
Sand and gravel, tight	12½	22½
Gravel, large, loose, with sand	9½	32
Clay	1	33
15S/4W-29bac. Martin Strome. Altitude 312 ft. Driven by Pitcher Pump & Drilling Co., 1968. Casing: 5-in. diam to 26½ ft; perforated 23-28 ft		
Soil and gravel	4	4
Sand and gravel	7	11
Sand and large gravel	9	20
Sand and small gravel	6½	26½
Sand	2	28½
15S/4W-30bba. C. M. Hansey. Altitude 310 ft. Driven by O. B. Nye, 1967. Casing: 4-in. diam to 27 ft; perforated 22-27 ft		
Soil and brown clay	13	13
Sand and gravel, packed	10	23
Sand, coarse, water-bearing	3	26
Clay, yellow	1	27
15S/4W-30ddd. Upton Mobile Home Court. Altitude 318 ft. Driven by O. B. Nye, 1966. Casing: 2-in. diam to 25 ft; perforated 23-25 ft		
Soil and brown clay, sandy	9	9
Sand and gravel, packed	8	17
Sand, packed	3	20
Sand and gravel, coarse, water-bearing	5	25
Gravel and yellow clay, packed	3	28
15S/4W-32cab1. City of Junction City. Altitude 325 ft. Drilled in 1938. Casing: 8-in. diam to 148 ft; perforated 138-148 ft		
Soil	2	2
Clay, brown	6	8
Clay and gravel	7	15
Gravel and sand, clayey at bottom; water-bearing	16	31
Clay, brown and blue	7	38
Sand, coarse, and soft brown clay, water-bearing	22	60
Clay, blue	8	68
Sand, fine gravel, and blue-gray clay, water-bearing	132	200
Clay, blue-gray, and sand	33	233
Shale, blue-gray and brown	47	280
Sandstone, blue-gray, soft, yields a little water	70	350
"Cement gravel" (agglomerate or conglomerate)	17	367
Shale, brownish-gray, lower part sandy	63	430
"Conglomerate," very light-gray, hard	10	440
Shale, brownish-gray	10	450
15S/4W-32cab4. City of Junction City. Altitude 325 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 12-in. diam to 88 ft; screened with 11½-in.-diam slot size 35 85-90 ft, slot size 45 90-96 ft, slot size 20 96-111 ft, and slot size 30 111-125 ft		
Clay, brown	11	11
Sand and clay, loose	3	14
Sand and small gravel	7	21
Sand and gravel, tight	3	24
Sand and small gravel	6	30
Sand and gravel, cemented	6	36
Clay, light-brown, sandy, and some gravel	6	42
Clay, brown, sandy	11	53
Sand, brown	2	55
Clay, brown, sandy	5	60
Clay, blue	10	70
Sand, blue	8	78
Sand, blue, and wood	16	94
Sand, blue, and pea gravel	4	98
Sand, blue, and some gravel and clay	10	108
Sand, blue	6	114
Gravel, small, and blue sand and wood	11	125
Clay, blue, sandy	10	135
15S/4W-34bdc. Ben Jensen. Altitude 320 ft. Driven by Pitcher Pump & Drilling Co., 1969. Casing: 5-in. diam to 26 ft; perforated 6-21 ft		
Soil	6	6
Sand and gravel	14	20
Sand and gravel, loose	6	26

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
15S/4W-36ccb. Wyatt School Dist. 63C. Altitude 336 ft. Drilled by Hayes & Page Well Drilling, 1964. Casing: 6-in. diam to 45 ft; unperforated		
Gravel fill	2	2
Soil and clay	3	5
Sand and gravel, compact	27	32
Sand and gravel, tight, but less compact than above; small quantity of water	2	34
Sand and gravel, compact	4	38
Sand with some fine gravel; some water at 39 ft	8	46
15S/4W-36ddb. Carl Keen, Jr. Altitude 325 ft. Drilled by Christensen Drilling & Irrigation, 1968. Casing: 6-in. diam to 55 ft; perforated 20-55 ft		
Clay, brown, sandy	5	5
Sand and gravel	50	55
15S/5W-20cdd. L. H. Thoele. Altitude 350 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 123 ft; perforated 119-122 ft		
Soil	2	2
Clay, yellow, soft, sticky	26	28
Clay, gray, soft, sticky	14	42
Sand and silt, soupy	10	52
Clay, gray, soft, sticky	16	68
Sand and silt, soupy	30	98
Clay, light-gray, soft, sticky	7	105
Clay, light gray-green, sandy	15	120
Shale, gray, hard and soft layers	30	150
15S/5W-21cad. Dale Bullock. Altitude 320 ft. Drilled by O. B. Nye, 1963. Casing: 5-in. diam to 155 ft; unperforated		
Soil	3	3
Clay, yellow	30	33
Clay, gray	14	47
Sand, gray	1	48
Clay, brown	58	106
Clay, gray, sandy	6	112
Sand, gray, packed	3	115
Sand, gray	1	116
Clay, brown and gray	44	160
15S/5W-27dcc. Jupe Holms. Altitude 330 ft. Drilled by O. B. Nye, 1961. Casing: 6-in. diam to 21 ft; unperforated		
Soil and yellow clay, sandy	17	17
Claystone, yellow	3	20
Claystone, gray	3	23
Shale, gray, water-bearing	1	24
Claystone, gray	28	52
Shale, gray, water-bearing	1	53
Claystone, gray	2	55
15S/5W-30cbc. Lester Larsen. Altitude 475 ft. Drilled by Hayes & Page Well Drilling, 1966. Casing: 6-in. diam to 68 ft; unperforated		
Soil	1	1
Clay, brown	19	20
Clay, blue-gray	20	40
Clay, greenish	14	54
Clay, blue-gray	11	65
Rock, gray, sedimentary, water-bearing	70	135
15S/5W-30ccd. R. D. Barber. Altitude 450 ft. Drilled by O. B. Nye, 1963. Casing: 6-in. diam to 55 ft; unperforated		
Clay, red	21	21
Clay, yellow and gray	27	48
Clay, gray	4	52
Claystone, gray	16	68
Shale, gray, water-bearing	1	69
Claystone, gray	6	75
15S/5W-30dcb. Gene Moritz. Altitude 500 ft. Drilled by Christensen Drilling & Irrigation, 1964. Casing: 6-in. diam to 92 ft; unperforated		
Soil and clay	10	10
Sand, brown, clayey	22	32
Clay, blue, sticky	8	40
Sandstone, brown	47	87
Sandstone, blue	25	112
Sandstone, dark-gray	38	150
Sandstone, light-gray	32	182
Sandstone, dark-gray, coarse	13	195
Sandstone, light-gray	15	210
Shale and sandstone	12	222
Sandstone, light-gray	21	243
15S/5W-32adb. Bernard Gamble. Altitude 350 ft. Drilled by O. B. Nye, 1966. Casing: 5-in. diam to 30 ft; unperforated		
Soil and yellow clay	21	21
Claystone, gray	6	27
Sandstone, gray	16	43
Shale, gray	1	44
Sandstone, gray	20	64
Shale, gray, water-bearing	2	66
Claystone, gray, sandy	4	70
15S/5W-33bcc. Wilson Criteser. Altitude 350 ft. Drilled by O. B. Nye, 1964. Casing: 5-in. diam to 58 ft; unperforated		
Clay, yellow	17	17
Clay, yellow and gray, sandy	34	51
Shale, gray	38	89
Shale, gray, water-bearing	2	91
Sandstone, gray	1	92
15S/5W-34cbb. H. L. Harris. Altitude 325 ft. Drilled by O. B. Nye, 1967. Casing: 6-in. diam to 35 ft; unperforated		
Soil	2	2
Clay, yellow	16	18
Clay, yellow and gray, sandy	10	28
Claystone, gray	26	54
Sandstone, gray, water-bearing	6	60
Sandstone, gray, hard	5	65
Sandstone, light-gray	6	71
15S/5W-34cbc. H. L. Harris. Altitude 325 ft. Drilled by Northwest Equipment & Drilling Co., 1956. Casing: 6-in. diam casing to 20 ft; unperforated		
Soil	1½	1½
Clay, yellow, sandy	17½	19
Rock, gray, soft	41	60

Table 2.--Drillers' logs of representative wells--Continued

15S/5W-36dcc. W. D. Washburne. Altitude 328 ft. Drilled by O. B. Nye, 1957. Casing: 5-in. diam to 37 ft; perforated 27-37 ft

Materials	Thickness (feet)	Depth (feet)
Soil	3	3
Clay, brown, sandy	6	9
Gravel, cemented	15	24
Sand, packed	5	29
Sand, water-bearing	8	37
Clay, gray, hard	1	38

15S/6W-36dbc. Lane McFadden. Altitude 435 ft. Drilled by Miller-Jensen Co., 1968. Casing: 6-in. diam to 85 ft; perforated 50-80 ft

Materials	Thickness (feet)	Depth (feet)
Clay, yellow	25	25
Clay, blue	15	40
Shale, blue	75	115

16S/2W-10dbb. Larry McCallister. Altitude 850 ft. Drilled by Casey Jones Well Drilling Co., 1966. Casing: 6-in. diam to 136 ft; unperforated

Materials	Thickness (feet)	Depth (feet)
Clay	26	26
Clay with gravel	41	67
Rock, fractured	35	102
Clay, blue, with imbedded rock	11	113
Clay, yellow	12	125
Clay "rock," blue	10	135
Rock, blue, soft, with clay streaks	10	145
Rock, blue	25	170
Lava "rock," red	16	186
Sandstone, blue-gray	34	220
Rock, blue, soft	5	225
Sandstone, blue	22	247
Rock, brown to blue, with quartz	5	252
Lava "rock," brown	3	255
Basalt, blue-gray	25	280

16S/2W-13bbc. Calvin Rose. Altitude 630 ft. Drilled by Christensen Drilling & Irrigation, 1967. 6-in. diam to 39½ ft; unperforated

Materials	Thickness (feet)	Depth (feet)
Clay, brown	10	10
Sand and gravel with clay	2	12
Sand, blue-green, hard	4	16
Sand, blue, loose	18	34
Sandstone, light-green, hard	2	36
Sandstone, reddish-gray, hard	27	63

16S/2W-13bcc. J. L. Piock. Altitude 590 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 30 ft; unperforated

Materials	Thickness (feet)	Depth (feet)
Clay	23	23
Claystone, blue, soft	5	28
Lava, red	67	95
Sandstone, blue-gray	6	101
Lava, red	19	120
Sandstone, blue-gray	5	125
Sandstone, red	47	172
Sandstone, blue	60	232
Rock, gray	28	260
Rock, bluish-red	20	280
Rock, red, hard	10	290

16S/2W-13cdd. Charles Spencer. Altitude 560 ft. Drilled by Carter's Drilling & Pump Service, 1967. Casing: 6-in. diam to 35 ft; unperforated

Materials	Thickness (feet)	Depth (feet)
Soil	2	2
Claystone, brown	28	30
Basalt	20	50
Rock, red and white	10	60

16S/2W-14dba. J. E. Fisher. Altitude 720 ft. Drilled by Casey Jones Well Drilling Co., 1966. Casing: 6-in. diam to 83 ft; unperforated

Materials	Thickness (feet)	Depth (feet)
Clay, red	39	39
Clay, gray	41	80
Rock, blue	10	90
Rock, brown	25	115

16S/2W-23dbb. Mack Landreth. Altitude 480 ft. Drilled by Wayne Hayes Well Drilling, 1959. Casing: 6-in. diam to 72 ft; unperforated

Materials	Thickness (feet)	Depth (feet)
Clay, reddish turning to blue at about 10 ft	22	22
Gravel and clay, small quantity of water in upper part of zone	10	32
Clay, reddish	30	62
Gravel from sedimentary rock and fine red silt, water-bearing	4	66
"Sediment," red, soft, semicemented, water-bearing at 90 and 105 ft	44	110

16S/2W-24bbc. Everett Weldon. Altitude 620 ft. Drilled by Carter's Drilling & Pump Service, 1966. Casing: 6-in. diam to 77 ft; perforated 72-77 ft

Materials	Thickness (feet)	Depth (feet)
Soil	6	6
Clay, red	16	22
Shale, brown	18	40
Sand	2	42
Shale, brown	30	72
Silt and sand	3	75
Shale, blue	13	88

16S/2W-26bca. Norman Parmenter. Altitude 500 ft. Drilled by W. W. Drilling & Pump Service, 1964. Casing: 6-in. diam to 47 ft; unperforated

Materials	Thickness (feet)	Depth (feet)
Soil	6	6
Clay, red	9	15
Sand and gravel, cemented	11	26
Sand and gravel	22	48

16S/2W-26ccc. Walter Wallace. Altitude 480 ft. Drilled by Casey Jones Well Drilling Co., 1963. Casing: 6-in. diam to 60 ft; unperforated

Materials	Thickness (feet)	Depth (feet)
Soil and clay, brown	6	6
Sand and clay, brown	6	12
Sand and gravel	48	60

16S/2W-27aad. C. F. Christian, Jr. Altitude 520 ft. Drilled by W. W. Drilling & Pump Service, 1966. Casing: 6-in. diam to 60 ft; unperforated

Materials	Thickness (feet)	Depth (feet)
Claystone, yellow-brown	30	30
Claystone, light-gray	17	47
Clay, bright-red	7	54
Clay, light-gray, hard	11	65
Clay, brownish-red, hard	7	72
Rock, multicolored	23	95
Clay, dark-brown	5	100

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
16S/2W-27dcd1. Mohawk Packing Co. Altitude 500 ft. Drilled by Christensen Drilling & Irrigation, 1964. Casing: 6-in. diam to 83 ft; unperforated		
Soil and clay	7	7
Clay and boulders	8	15
Clay and some gravel, small quantity of water	13	28
Gravel and weathered sandstone	32	60
Gravel and weathered "material," sticky	5	65
Gravel and weathered sandstone	40	105
Gravel and some clay	18	123
Gravel and blue clay	2	125
16S/2W-33add. R. A. Keeney. Altitude 560 ft. Drilled by Casey Jones Well Drilling Co., 1966. Casing: 6-in. diam to 63 ft; unperforated		
Clay	18	18
Clay and boulders	20	38
Rock, broken	22	60
Rock, blue, fractured	88	148
Rock, blue and green	20	168
Rock, blue	12	180
Claystone, soft	6	186
Rock, blue, fractured	20	206
Rock, blue, soft, shaley	29	235
16S/2W-34bbb. Arden Johnson. Altitude 565 ft. Drilled by Casey Jones Well Drilling Co., 1960. Casing: 6-in. diam to 55 ft; unperforated		
Soil	3	3
Clay and boulders	50	53
Bedrock	64	117
16S/2W-34cdc. M. A. Nadeau. Altitude 480 ft. Drilled by Wayne Hayes Well Drilling, 1961. Casing: 6-in. diam to 72 ft; perforated 32-34 ft, 64-70 ft		
Soil, clay, and sandy clay	13	13
Clay and gravel, fairly compact	8	21
Clay and larger gravel, very compact	3	24
Clay, with some water-bearing sand at bottom of clay	10	34
Sand, gravel, and clay, fairly compact	12	46
Clay with some small-sized gravel	8	54
Sand, mostly fine	10	64
Sand, fine, with some strips of coarser sand and a little small-sized gravel; mostly water bearing, particularly at 67 and 70½ ft	6½	70½
Sand, gravel, and clay, compact	4½	75
16S/2W-35dcd. Vern Shaerer. Altitude 720 ft. Drilled by Casey Jones Well Drilling Co., 1966. Casing: 6-in. diam to 21 ft; unperforated		
Clay	9	9
Rock, brown	8	17
Rock, blue to brown	21	38
Lava rock, blue	12	50
Rock, blue, hard	45	95
Rock, blue	47	142
Rock, blue-gray, hard	23	165
Rock, blue	5	170
Rock, blue, hard	9	179
Rock, brown	4	183
Rock, blue, hard	2	185
16S/3W-2bac. Walt Swindell. Altitude 710 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 6-in. diam to 70 ft; unperforated		
Old well	17	17
Rock, black, hard	4	21
Rock in yellow clay	49	70
Shale, blue, soft	8	78
Claystone, blue	27	105
Sandstone, gray	80	185
Claystone, gray, water-bearing	23	208
Sandstone, gray	7	215
16S/3W-4dcd. Robert Bailey. Altitude 410 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 6-in. diam to 28 ft; unperforated		
Soil	2	2
Clay, yellow	19	21
Sandstone, gray	79	100
16S/3W-5add. Merlyn Smith. Altitude 355 ft. Drilled by Casey Jones Well Drilling Co., 1968. Casing: 6-in. diam to 57 ft; perforated 51-56 ft		
Soil	2	2
Clay, brown, soft	8	10
Sand and gravel	2	12
Sand and gravel, cemented	12	33
Clay, dark-brown, soft	5	38
Sand and gravel, cemented	7	45
Sand and gravel	12	57
16S/3W-7aca. Cleve Ramsey. Altitude 355 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 6-in. diam to 41 ft; unperforated		
Soil, "heavy"	7	7
Sand and gravel with clay	3	10
Sand with clay	2	12
Sand and gravel with clay	4	16
Sand and gravel with some clay	23	39
Sand	1	40
Sand and gravel	1	41
16S/3W-9aad. Fred Thomas. Altitude 440 ft. Drilled by Carter's Drilling & Pump Service, 1966. Casing: 6-in. diam to 28 ft; unperforated		
Soil	4	4
Clay, red	13	17
Shale, blue	25	42
Shale, brown	29	71
Shale, blue	42	113
16S/3W-9abd. Mark Christensen. Altitude 385 ft. Drilled by Carter's Drilling & Pump Service, 1965. Casing: 6-in. diam to 63 ft; unperforated		
Soil	4	4
Clay	20	24
Sand and clay	24	48
Sand and gravel	27	75
16S/3W-17cbd. Coburg Veneer Corp. Altitude 363 ft. Drilled by Merle Warren Well Drilling, 1964. Casing: 6-in. diam to 50 ft; perforated 40½-50 ft		
Soil	4	4
Loam, silty	15	19
Gravel, dirty	8	27
Boulders	5	32
Gravel and sand	8	40
Gravel and clay	5	45
Sand and gravel	5	50

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
16S/3W-22cab. J. A. Stoneburg. Altitude 440 ft. Drilled by Miller-Jensen Co., 1965. Casing: 6-in. diam to 18 ft; unperforated		
Rock, brown	12	12
Rock, blue	11	23
Rock, white	7	30
Rock, blue	55	85
16S/3W-29aab. City of Coburg. Altitude 385 ft. Drilled by Christensen Drilling & Irrigation, 1963. Casing: 12-in. diam to 201 ft; perforated 35-94 ft		
Soil	4	4
Gravel sealed with bentonite	26	30
Sand and gravel	3	33
Sand, brown, and gravel	2	35
Sand and gravel, water-bearing	15	50
Clay, sand, and gravel	1	51
Sand and gravel, cemented	15	66
Sand and small gravel	28	94
Sand and clay	12	106
Clay, tan	14	120
Clay, blue	46	166
Clay, blue and brown	35	201
16S/3W-29ccd. Morris Funke. Altitude 380 ft. Drilled to 180 ft by W. W. Drilling & Pump Service, 1966; deepened to 244 ft, 1968. Casing: 10-in. diam to 160 ft, 8-in. diam from 157-241 ft; perforated 40-45 ft, 52-58 ft, 75 ft, 80 ft, and 157-241 ft		
Soil	6	6
Gravel, large, cemented	10	16
Gravel, large, loose	10	26
Gravel, cemented	16	42
Sand and medium gravel	2	44
Gravel, medium, cemented	9	53
Sand and gravel, medium	5	58
Gravel, medium, cemented	17	75
Sand and gravel, medium	5	80
Gravel, medium, cemented	20	100
Clay, yellow	15	115
Clay, gray	45	160
Rock, gray	15	175
Rock, gray, with sand	20	195
Clay, brown, with coarse sand	10	205
Clay, grayish-white, with small gravel	20	225
Clay, brown, sticky	19	244
16S/3W-30dba. S. K. Coburn. Altitude 370 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 10-in. diam to 231 ft; perforated 18-230 ft		
Loam	7	7
Clay, brown, and gravel	9	16
Gravel and boulders	4	20
Clay, brown, and sand and gravel; some water	30	50
Clay, brown, and sand and gravel	55	105
Clay, blue-gray, and small gravel	45	150
Clay, gray, and small gravel	25	175
Clay, yellow-brown	10	185
Clay, gray-white	25	210
Sand and gravel	18	228
Clay, blue	3	231
16S/3W-31aad. Agnes Adair. Altitude 375 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 10-in. diam to 167 ft; perforated 35-65 ft, 85-130 ft, 130-167 ft		
Loam and pea gravel	8	8
Sand, gravel, and clay, water-bearing	20	28
Clay and gravel, cemented	2	30
Sand and gravel, water-bearing	5	35
Gravel, hard, cemented	5	40
Sand, gravel, and clay	25	65
Clay, light-gray, and pea gravel	31	96
Clay, dark-brown, and pea gravel	24	120
Clay, light-gray, and very little gravel	20	140
Clay, sand, and gravel, water-bearing	8	148
Sand and gravel, cemented	35	183
Clay, brown	2	185
16S/3W-31aca. Harry Harbert. Altitude 377 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 12-in. diam to 187 ft; perforated 18-187 ft		
Loam and gravel	10	10
Gravel and sand	10	20
Gravel, cemented	15	35
Clay, brown, and sand and gravel	35	70
Sand and gravel	15	85
Sand, gravel, and clay	20	105
Clay, blue-gray	10	115
Sand, blue-gray, and small gravel, cemented, with water streaks	65	180
Clay, gray, sticky	25	205
16S/3W-32bcb. Leon Funke. Altitude 378 ft. Drilled by W. W. Drilling & Pump Service, 1966. Casing: 10-in. diam to 170 ft; perforated 18-25 ft, 47-55 ft, 62-68 ft, 78-82 ft, 94-180 ft		
Soil	5	5
Gravel, large, loose	5	10
Gravel, cemented	8	18
Sand and gravel, medium, water-bearing	7	25
Gravel, cemented	22	47
Sand and gravel, small, water-bearing	8	55
Gravel, cemented	7	62
Sand and gravel, medium, water-bearing	6	68
Gravel, cemented	6	74
Clay and sand, yellow	4	78
Sand and gravel, small, water-bearing	4	82
Clay, yellow, and sand	6	88
Gravel, cemented	6	94
Sand and gravel, medium, water-bearing	4	98
Clay, yellow	18	116
Clay, gray	16	132
Rock, gray, water-bearing	13	145
Wood, sand, and medium gravel	5	150
Gravel, gray, cemented	14	164
Clay, yellow	16	180

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
16S/3W-32caa. Kate Sidwell. Altitude 382 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 10-in. diam to 219 ft; perforated 18-80 ft, 116-170 ft, 194-201 ft		
Soil	5	5
Sand and gravel, cemented	22	27
Sand and gravel, large	3	30
Sand, coarse, and small gravel	10	40
Sand and gravel with clay	2	42
Sand, brown, and gravel	6½	48½
Sand, brown, and gravel, cemented	4	52½
Sand, brown, coarse, with medium gravel	2	54½
Sand, brown, and gravel, cemented	7½	62
Sand, brown, fine, and medium gravel	2	64
Sand, brown, and gravel, cemented	16	80
Clay, brown, with sand and gravel	5	85
Sand, brown, with clay	25	110
Sand, blue, with clay	6	116
Sand, blue, and gravel, with clay	55	171
Clay, blue, with fine sand	4	175
Sand, blue, coarse, with some clay	14	189
Sand, blue, and gravel, with clay	4	193
Sand and gravel, loose	8	201
Clay, blue	2	203
Clay, greenish-gray	8	211
Clay, brown	7	218
Clay, blue-green	2	220
16S/3W-32dbdl. Leon Funke. Altitude 390 ft. Drilled by W. W. Drilling & Pump Service, 1965. Casing: 10-in. diam to 158 ft; perforated 30-157 ft		
Soil	12	12
Gravel	9	21
Gravel, cemented	9	30
Gravel	8	38
Gravel, cemented and sandy	4	42
Gravel and sand, cemented	9	51
Sand and clay, cemented	13	64
Clay	7	71
Gravel and sand, water-bearing	4	75
Gravel and clay	10	85
Gravel and clay, dirty	22	107
Clay, blue	5	112
Rock, black	5	117
Sand and pea gravel, water-bearing	11	128
Gravel, cemented	22	150
Clay and gravel	9	159
Gravel, water-bearing	3	162
16S/3W-33adc. Vira Corp. Altitude 402 ft. Drilled by W. W. Drilling & Pump Service, 1960. Casing: 6-in. diam to 84 ft; unperforated		
Soil	3	3
Sand and gravel, cemented	19	22
Sand and gravel, water-bearing	4	26
Sand and gravel, cemented	9	35
Sand and gravel, cemented, with water-bearing streak	15	50
Clay, yellow	16	66
Sand and gravel, hard, cemented	14	80
Sand, coarse, and rocks, water-bearing	5	85
16S/3W-33add. Vira Corp. Altitude 402 ft. Drilled by W. W. Drilling & Pump Service, 1962. Casing: 8-in. diam to 80 ft; perforated 32-45 ft, 63-70 ft		
Soil, black, "heavy"	7	7
Clay and gravel, yellow	7	14
Gravel and sand, coarse, water-bearing	31	45
Sand and gravel, hard, cemented	18	63
Gravel, fine	7	70
Clay, blue, and coarse sand	14	84
Claystone, blue	3	87
16S/4W-4aca. Lloyd Harpole. Altitude 330 ft. Drilled by Christensen Drilling & Irrigation, 1966. Casing: 8-in. diam to 79 ft; perforated 18-75 ft		
Soil and sandy clay	12	12
Sand and gravel, tight	5	17
Sand with some gravel	1½	18½
Sand and gravel	3½	22
Sand and gravel, cleaner	11	33
Sand and gravel with clay	10½	43½
Clay, sandy, with some gravel	7½	51
Sand and gravel with some clay	3	54
Clay, blue-green, sandy	15	69
Sand, blue, coarse	15	84
Clay, tan, with some sand	3	87
16S/4W-4bcdl. C. L. Strome. Altitude 330 ft. Drilled by Miller-Jensen Co., 1967. Casing: 10-in. diam to 31 ft; perforated 19-30 ft		
Soil	2	2
Clay	6	8
Gravel	23	31
Gravel, cemented	7	38
Clay	7	45
16S/4W-5cddl. C. L. Strome. Altitude 330 ft. Drilled by Miller-Jensen Co., 1966. Casing: 10-in. diam to 50 ft; perforated 23-38 ft		
Soil	12	12
Sand, dirty, and gravel	8	20
Gravel and sand	18	38
Clay, sand, and gravel	9	47
Sandstone, brown, soft	19	66
16S/4W-6acd. Chris Wilde. Altitude 320 ft. Drilled by O. B. Nye, 1961. Casing: 5-in. diam to 43 ft; perforated 25-43 ft		
Soil and brown clay	9	9
Gravel, cemented	10	19
Sand and gravel, water-bearing	8	27
Gravel, cemented	5	32
Gravel, water-bearing	1	33
Sand and gravel, packed	10	43
Clay, gray	63	106
16S/4W-6bad. Dean McKay. Altitude 320 ft. Drilled by Casy Jones Well Drilling Co., 1967. Casing: 6-in. diam to 85 ft; unperforated		
Soil	2	2
Clay, brown, soft	7	9
Sand and gravel, cemented	36	45
Clay, blue, sandy, soft	25	70
Sand, blue, fine, soft	25	95
16S/4W-7dab. J. B. Pitney. Altitude 333 ft. Drilled by O. B. Nye, 1961. Casing: 5-in. diam to 38 ft; perforated 20-38 ft		
Soil and brown clay	7	7
Sand and gravel, packed	10	17
Sand, packed	10	27
Sand, brown, water-bearing	7	34
Clay, yellow, and coarse gravel	8	42
Clay, gray, sandy	12	54
Sand and gravel, gray, water-bearing	1	55

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
16S/4W-8aac. C. L. Strome. Altitude 330 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 10-in. diam to 111 ft; unperforated		
Loam	8	8
Clay, light-gray, and small gravel	17	25
Clay, brown, and gravel	10	35
Clay and gravel, reddish-brown	15	50
Clay, blue	15	65
Clay, blue, sandy	5	70
Claystone, black, sandy, soft	12	82
Sand, dark-colored, coarse	13	95
Clay, blue, sandy	16	111
16S/4W-9bda. Rupert Edwards. Altitude 333 ft. Drilled by Walter Nelson, 1957. Casing: 4-in. diam to 25 ft; perforated 21-25 ft		
Clay, gray	8	8
Gravel, 1/4-in. to 1½-in. diam	4	12
Sand, fine, mixed with gravel as large as 2-in. diam	8	20
Sand, fine, and small gravel	2	22
Sand, medium, and gravel as large as 4-in. diam	3	25
16S/4W-10dda. Calvin Banton. Altitude 340 ft. Drilled by Carter's Drilling & Pump Service, 1967. Casing: 6-in. diam to 88 ft; perforated 23-48 ft		
Soil	3	3
Gravel and clay	15	18
Gravel	5	23
Sand and silt	30	53
Clay, blue, soft	16	69
Clay, light-blue, soft, and some coarse sand	9	78
Clay, blue, and gravel	20	98
16S/4W-13dcb. G. L. Zellner. Altitude 360 ft. Drilled by Miller-Jensen Co., 1965. Casing: 8-in. diam to 82 ft; perforated 44-81 ft		
Clay, sandy	18	18
Sand and gravel	2	20
Sand, gravel, and clay	43	63
Sand and gravel	18	81
"Muck," blue	19	100
16S/4W-15cdb. G. G. Frost. Altitude 350 ft. Driven by O. B. Nye, 1968. Casing: 4-in. diam to 27 ft; perforated 22-27 ft		
Soil and brown clay	11	11
Sand and gravel, packed	12	23
Sand, water-bearing	3	26
Sand and gravel, coarse, packed	1	27
16S/4W-16ada2. R. W. Jones. Altitude 345 ft. Drilled by Carter's Drilling & Pump Service, 1967. Casing: 6-in. diam to 70 ft; perforated 25-60 ft		
Soil	4	4
Clay, brown	14	18
Sand	18	36
Sand and gravel	19	55
Clay, light-blue	6	61
Sand and gravel	4	65
Clay, brown	5	70
16S/4W-16bcd. General Properties. Altitude 340 ft. Drilled by W. W. Drilling & Pump Service, 1964. Casing: 10-in. diam to 240 ft; perforated 140-160 ft, 185-210 ft		
Soil	2	2
Clay, yellow, and rocks	11	13
Sand and gravel	14	27
Clay, yellow, and rocks	9	36
Clay, blue	104	140
Sand and gravel with wood, water-bearing	18	158
Clay, blue, sticky	27	185
Clay, blue, with sand streaks and some wood, water-bearing	25	210
Clay, gray, sticky	35	245
16S/4W-16cad. Shadow Hills Golf Course. Altitude 340 ft. Drilled by W. W. Drilling & Pump Service, 1962. Casing: 10-in. diam to 240 ft; perforated 20-34 ft, 58-162 ft		
Soil	8	8
Sand and gravel with clay	8	16
Sand and gravel, water-bearing	9	25
Gravel, cemented	9	34
Claystone, blue	24	58
Clay, blue, with gravel, water bearing in places	44	102
Sand, blue, and gravel, water-bearing	8	110
Claystone, blue, water bearing in places	49	159
Clay, blue, and gravel, water-bearing	3	162
Clay, gray, sticky, caving	20	182
Clay, yellow, gray streaks	48	230
Clay, blue, with brown streaks	20	250
16S/4W-20ccb. J. F. Sanders. Altitude 343 ft. Drilled by Curtis E. Miller, 1958. Casing: 6-in. diam to 62 ft; perforated 32-60 ft		
Soil	6	6
Gravel and boulders, cemented	20	26
Gravel and coarse sand	36	62
16S/4W-21cdc. R. M. Lyon. Altitude 355 ft. Drilled by Pitcher Pump & Drilling Co., 1969. Casing: 10-in. diam to 100 ft; perforated 18-100 ft		
Soil and clay	8	8
Sand and gravel	10	18
Sand and gravel, looser, some water at 18 ft	4	22
Sand and gravel, tight	20	42
Sand and gravel with a little clay	16	58
Clay with sand and small gravel	5	63
Clay and sand	4	67
Gravel, heavy, and sand, with clay	6	73
Clay and sand with some gravel	2	75
Gravel, small, and sand, with clay	28	103
16S/4W-22caa2. Leslie Harwood. Altitude 350 ft. Drilled by Casey Jones Well Drilling, 1968. Casing: 6-in. diam to 45 ft; perforated 21-27 ft		
Soil	2	2
Sand and gravel, cemented	13	15
Sand and gravel	10	25
Sand and gravel, cemented	9	34
Sand, gravel, and silt, very dirty	11	45

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
16S/4W-25ccd. Eugene Water & Electric Board. Altitude 360 ft. Drilled by Christensen Drilling & Irrigation, 1969. Casing: 12-in. diam to 29½ ft; perforated 18-28 ft		
Gravel, pea-sized to 5-in. diam, mixed with dirty sand and some clay	15	15
Gravel, mixed with clean sand; good water-bearing zone	7	22
Sand, yellow, with pea-sized gravel and a few boulders and some clay	6	28
Sand, fine, silty, with pea-sized gravel	1	29
Clay, yellow, with gravel imbedded; contains no water	1	30
16S/4W-26bda. J. L. Lemert. Altitude 348 ft. Drilled by Miller-Jensen Co., 1968. Casing: 4-in. diam to 20 ft; perforated 16-20 ft		
Soil	3	3
Loam and rock	13	16
Sand and rock	4	20
16S/4W-27adb. H. L. Hostick. Altitude 358 ft. Drilled by H. L. Hostick, 1960. Casing: 4-in. diam 5-26 ft; perforated 20-26 ft		
Clay, sandy	8	8
Sand and gravel	4	12
Gravel, cemented	2	14
Sand	2	16
Gravel, coarse	3	19
Gravel, cemented	1	20
Gravel, coarse	6	26
16S/4W-27cbd2. R. D. Schick. Altitude 358 ft. Drilled by C. E. Gordinier & Son Drilling Co., 1962. Casing: 6-in. diam to 48 ft; unperforated		
Soil	5	5
Clay and fine gravel	13	18
Sand and gravel	2	20
Gravel, cemented	5	25
Gravel, cemented, and layers of blue clay	15	40
Gravel, cemented	8	48
Sand and gravel	1	49
16S/4W-27cda. Mrs. H. L. Plank. Altitude 358 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 8-in. diam to 150 ft; perforated 30-150 ft		
Soil, brown, sandy	8	8
Gravel, medium	12	20
Gravel, small, and medium sand	20	40
Gravel and sand, medium	10	50
Gravel and clay, medium	12	62
Gravel and sand, large	38	100
Clay and gravel	25	125
Gravel, large, and medium sand	10	135
Gravel, water-bearing	10	145
Gravel and clay	5	150
16S/4W-28acc. C. C. Keith. Altitude 355 ft. Drilled by Bonnie Brae Well Drilling, 1962. Casing: 6-in. diam to 50 ft; perforated 21-50 ft		
Clay	18	18
Sand and gravel with clay	8	26
Sand, black, water-bearing	9	35
Sand and gravel with clay	10	45
Sand and small gravel	5	50
16S/4W-28bdd. Robert Marker. Altitude 355 ft. Drilled by Miller-Jensen Co., 1968. Casing: 8-in. diam to 84 ft; perforated 30-80 ft		
Soil	5	5
Clay and gravel	15	20
Sand and gravel	64	84
16S/4W-29aca. Bart Flanagan. Altitude 352 ft. Drilled by O. B. Nye, 1959. Casing: 6-in. diam to 40 ft; perforated 20-40 ft		
Soil and clay	4	4
Gravel, cemented	15	19
Sand, water-bearing	15	34
Gravel, water-bearing	2	36
Sand and gravel, water-bearing	4	40
16S/4W-29bbd. Ernest Garrett. Altitude 355 ft. Drilled by Christensen Drilling & Irrigation, 1966. Casing: 8-in. diam to 84½ ft; perforated 18-83 ft		
Soil	9	9
Sand and gravel	4	13
Clay, sandy	4	17
Sand and small gravel, with some clay	7	24
Sand and medium gravel	3	27
Sand and gravel	4	31
Sand and gravel with clay	12	43
Clay, sandy	13	56
Clay	6	62
Clay, blue, sandy	7½	69½
Gravel, small	3½	73
Clay, blue-gray, sandy	2	75
Gravel and sand with clay	10½	85½
16S/4W-32bac. Ben Simpson. Altitude 355 ft. Driven by O. B. Nye, 1965. Casing: 2½-in. diam to 27 ft; perforated 25-27 ft		
Soil and brown clay	7	7
Clay and gravel, brown	9	16
Sand and gravel, packed	9	25
Sand and gravel, water-bearing	1	26
Clay, yellow	1	27
16S/4W-33ada. Alex Snodgrass. Altitude 364 ft. Driven by Miller-Jensen Co., 1962. Casing: 2-in. diam to unknown depth; perforated 22-24 ft		
Soil	2	2
Loam	14	16
Sand and gravel	3	19
Gravel, cemented	2	21
Sand and gravel	3	24
16S/4W-34aab. Paul Plank. Altitude 362 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 10-in. diam to 104 ft; perforated 30-70, 86-103 ft		
Soil and sandy loam	6	6
Gravel, sand, and clay	22	28
Sand and gravel, loose	15	43
Clay, sand, and gravel	16	59
Sand and gravel, loose	13	72
Clay, blue and brown	14	86
Sand and gravel	19	105
16S/4W-35dad. George Lockard. Altitude 372 ft. Driven by Miller-Jensen Co., 1958. Casing: 4-in. diam to 22 ft; perforated 18-22 ft		
Soil	14	14
Gravel, cemented	2	16
Gravel	6	22

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
16S/5W-1cdd. Steve Doty. Altitude 327 ft. Drilled by Casey Jones Well Drilling Co., 1964. Casing: 6-in. diam to 39 ft; unperforated		
Soil	3	3
Sand and fine gravel	29½	32½
Claystone, blue, yellow, and gray, soft	42½	75
16S/5W-7dbd2. Jack Dutchess. Altitude 625 ft. Drilled by Northwest Equipment & Drilling Co., 1957. Casing: Unknown		
Clay, red	20	20
Clay, yellow, sandy	12	32
Sandstone, yellow, soft	44	76
Rock, gray, soft	18	94
16S/5W-8abd. Gilbert Moode. Altitude 400 ft. Drilled by Casey Jones Well Drilling Co., 1959. Casing: 6-in. diam to 23 ft; unperforated		
Soil	2	2
Clay	18	20
"Bedrock"	95	115
16S/5W-8bad1. Ernest Smythe. Altitude 400 ft. Drilled by Miller-Jensen Co., 1965. Casing: 6-in. diam to 21 ft; unperforated		
Clay	10	10
Sandstone, brown	5	15
Sandstone, blue	45	60
16S/5W-9bdc. Bob Allen. Altitude 350 ft. Drilled by O. B. Nye, 1959. Casing: 6-in. diam to 40 ft; unperforated		
Soil and yellow clay	30	30
Clay, gray	4	34
Sandstone, gray	8	42
Shale, gray, water-bearing	62	104
Sandstone, gray	10	114
Shale, gray, water-bearing	16	130
16S/5W-9dcd. D. L. Walker. Altitude 350 ft. Drilled by O. B. Nye, 1967. Casing: 5-in. diam to 22 ft; unperforated		
Soil and brown clay	11	11
Clay, yellow, sandy	5	16
Claystone, gray	25	41
Shale, gray, water-bearing	2	43
Sandstone, gray	23	66
Sandstone, gray, hard	4	70
16S/5W-10bdb1. Neil Cheshire. Altitude 328 ft. Drilled by C. E. Gordinier & Son Drilling Co., 1968. Casing: 6-in. diam to 124 ft; unperforated		
Clay, blue	6	6
Gravel, fine and round, and blue clay	12	18
Gravel, medium	16	34
Gravel and brown clay	34	68
Sandstone, yellow	1	69
Rock, sedimentary, blue	1	70
Clay, blue	50	120
Rock, sedimentary, blue	78	198
16S/5W-10cac. Preston's Market. Altitude 330 ft. Drilled by Casey Jones Well Drilling Co., 1966. Casing: 6-in. diam to 41 ft; unperforated		
Soil	3	3
Clay, yellow	12	15
Mud and gravel	24	39
Basalt	31	70
16S/5W-13ada. E. H. Vogt. Altitude 335 ft. Drilled by O. B. Nye, 1959. Casing: 5-in. diam to 44 ft; perforated 24-44 ft		
Soil	4	4
Gravel, coarse	4	8
Gravel, cemented	19	27
Sand, water-bearing	7	34
Sand, packed	4	38
Sand, water-bearing	5	43
Clay, yellow	1	44
16S/5W-13bcb. James Farmer. Altitude 332 ft. Drilled by Carter's Drilling & Pump Service, 1963. Casing: 8-in. diam to 41 ft; unperforated		
Soil	4	4
Sand and gravel	37	41
16S/5W-14bad. Tobias Jacobson. Altitude 335 ft. Driven by Miller-Jensen Co., 1967. Casing: 2-in. diam to 25½ ft; perforated 23-25½ ft		
Soil	3	3
Loam	11	14
Sand, yellow	6	20
Sand, black	5½	25½
16S/5W-14dad. Clarence Brolin. Altitude 335 ft. Drilled by Pitcher Pump & Drilling Co., 1968. Casing: 8-in. diam to 37 ft; perforated 27-36 ft		
Soil	10	10
Sand and gravel with clay	8	18
Sand	6	24
Sand and gravel	13	37
16S/5W-16dcc. H. L. Harris. Altitude 525 ft. Drilled by Hayes & Page Well Drilling, 1965. Casing: 8-in. diam to 39 ft		
Soil	1	1
Clay, reddish-brown	24	25
Rock, brown, weathered, soft	12	37
Rock, sedimentary, and gray claystone with dirty sandstone; water bearing at several levels; main flow at approximately 85 ft	64	101
16S/5W-17aca. Forest Huntley. Altitude 365 ft. Drilled by O. B. Nye, 1967. Casing: 5-in. diam to 21 ft; unperforated		
Soil and yellow clay	13	13
Clay, yellow and gray, sandy	6	19
Claystone, gray	36	55
Sandstone, gray	17	72
Shale, gray, water-bearing	1	73
Sandstone, gray, hard	13	86

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
16S/5W-17ddb1. J. R. Myers. Altitude 450 ft. Drilled by O. B. Nye, 1964. Casing: 5-in. diam to 21 ft; unperforated		
Soil	2	2
Shale, coarse, and red clay	11	13
Sandstone, gray	34	47
Shale, brown, water-bearing	1	48
Sandstone, gray, hard	44	92
Sandstone, gray	12	104
16S/5W-17ddb2. J. R. Myers. Altitude 450 ft. Drilled by O. B. Nye, 1963. Casing: 5-in. diam to 23 ft; unperforated		
Clay, yellow	9	9
Sandstone, gray	33	42
Claystone, brown	5	47
Sandstone, gray	149	196
Claystone, gray	12	208
16S/5W-20aab. Virgil McSpadden. Altitude 525 ft. Drilled by Northwest Equipment & Drilling Co., 1958. Casing: 6-in. diam to 30 ft; unperforated		
Clay, yellow, sandy	30	30
Rock, blue, soft	18	48
Rock, blue, soft, broken	2	50
16S/5W-21aca. Lane County Public Works Dept. Altitude 475 ft. Drilled by Hayes & Page Well Drilling, 1968. Casing: Pulled from hole		
Fill, rock and gravel	2	2
Clay	13	15
Rock, dark-gray, sedimentary, soft	6	21
Rock, gray, sedimentary	189	210
Rock, dark-gray, sedimentary	42	252
Rock, reddish-gray, sedimentary	30	282
Rock, gray, sedimentary	45	327
16S/5W-21cac. John Akerson. Altitude 470 ft. Drilled by Hayes & Page Well Drilling, 1966. Casing: 6-in. diam to unknown depth; unperforated		
Old well	111	111
Rock, gray, sedimentary, and sandstone and claystone; water bearing at approximately 136 ft	35	146
16S/5W-23cda. Kenneth Drew. Altitude 350 ft. Driven by Miller-Jensen Co., 1959. Casing: 2-in. diam to unknown depth; perforated 26½-29 ft		
Soil	3	3
Clay	10	13
"Hardpan"	3	16
Clay	3	19
Gravel, cemented	3	22
Sand and gravel	7	29
16S/5W-24aab. C. E. Hunton. Altitude 337 ft. Drilled by O. B. Nye, 1959. Casing: 6-in. diam to 40 ft; perforated 20-40 ft		
Soil and clay	9	9
Gravel, cemented	8	17
Sand and gravel, water-bearing	23	40
16S/5W-24adb. Everett Hunton. Altitude 337 ft. Drilled by Christensen Drilling & Irrigation, 1966. Casing: 8-in. diam to 80 ft; perforated 18-35 ft, 45-78 ft		
Soil	10	10
Sand and gravel	13	23
Sand and small gravel	13	36
Clay, sandy	6½	42½
Clay, sandy, and gravel	2½	45
Sand and gravel	3½	48½
Sand and gravel with clay	12½	61
Clay, sandy	4	65
Sand and gravel with blue clay	16	81
Clay, blue, with gravel	1	82
16S/5W-24dba. Agnes Bertelson. Altitude 340 ft. Drilled by Miller-Jensen Co., 1966. Casing: 8-in. diam to 74 ft; perforated 26-48 ft, 60 ft		
Soil	14	14
Gravel, "dirty"	12	26
Sand and gravel	24	50
Sand, fine	8	58
Gravel, cemented	17	75
16S/5W-25adc. Erron Purkerson. Altitude 347 ft. Drilled by Bonnie Brae Well Drilling, 1964. Casing: 6-in. diam to 33 ft; perforated 21-33 ft		
Clay and loam, black	9	9
Sand, gravel, and clay	16	25
Sand and pea-sized gravel	8	33
16S/5W-25dab. Ray Hofer. Altitude 346 ft. Driven by Miller-Jensen Co., 1966. Casing: 2-in. diam to 32 ft; perforated 29½-32 ft		
Soil	3	3
Loam and clay	11	14
Sand and gravel	9	23
Clay	8	31
Sand, fine	1	32
16S/5W-26aaa. E. C. Hill. Altitude 340 ft. Bored by Bob's Well Drilling, 1968. Casing: 30-in. diam to 34 ft; perforated 19-28 ft		
Soil	6	6
Sand and gravel, tight	24	30
Sand and gravel	5	35
Clay, sandy	2	37
16S/5W-26cda. Ash Bailey. Altitude 350 ft. Drilled by O. B. Nye, 1961. Casing: 5-in. diam to 54 ft; unperforated		
Soil and yellow clay	26	26
Clay, yellow and gray, sandy	28	54
Sand and gravel, coarse, water-bearing	2	56
Clay, gray	5	61
16S/5W-28bab. Charles Weller. Altitude 450 ft. Drilled by Page Well Drilling & Supply, 1963. Casing: 6-in. diam to 19 ft; unperforated		
Soil and sandy clay, brown	12	12
Rock, brown, weathered	3	15
Rock mixed with claystone and sandstone, water bearing at approximately 40 ft	28	43
Rock, mostly dark-gray claystone, changing to mixed claystone and sandstone in lower part of hole; water bearing at approximately 73 ft	37	80

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
16S/5W-28bba2. Alex McLaughlin. Altitude 425 ft. Drilled by Hayes & Page Well Drilling, 1964. Casing: 6-in. diam to 28½ ft; unperforated		
Soil, reddish	2	2
Clay, light-brown	23	25
Rock, sedimentary, and gray claystone and sandstone; water bearing at 48 ft	42	67
16S/5W-29adc1. Floyd Allen. Altitude 410 ft. Drilled by Northwest Equipment & Drilling Co., 1957. Casing: 6-in. diam to 40 ft; unperforated		
Sandstone	40	40
Rock, blue, soft	125	165
Rock, gray	7	172
16S/5W-29bca. Golda Hastings. Altitude 560 ft. Drilled by Hayes & Page Well Drilling, 1965. Casing: 6-in. diam to 50 ft; unperforated		
Clay, brown	44	44
Rock, gray, sedimentary; small quantity of water between 80-90 ft; most flow approximately 112 ft and beyond	81	125
16S/5W-30dca. C. R. Friend. Altitude 775 ft. Drilled by O. B. Nye, 1966. Casing: 5-in. diam to 65 ft; unperforated		
Soil and brown clay	3	3
Clay, yellow	16	19
Clay, red	9	28
Clay, red and yellow, sandy	30	58
Sandstone, gray	34	92
Shale, gray, water-bearing	2	94
Claystone, gray	3	97
16S/5W-31abb. F. L. Fox. Altitude 700 ft. Drilled by O. B. Nye, 1968. Casing: 5-in. diam to 25 ft; unperforated		
Clay, yellow	19	19
Sandstone, gray	33	52
Claystone, gray	20	72
Shale, gray, water-bearing	2	74
Sandstone, gray	7	81
16S/5W-31bca. D. L. Hendricks. Altitude 850 ft. Drilled by C. E. Gordinier & Son, 1968. Casing: 6-in. diam to 30 ft; unperforated		
Soil and clay, red	5	5
Clay, blue	22	27
Rock, blue, sedimentary	142	169
Rock, blue, broken	1	170
16S/5W-32cba. Harold Trunnell. Altitude 500 ft. Drilled by Wayne Hayes Well Drilling, 1961. Casing: 8-in. diam to 26 ft; unperforated		
Soil and reddish clay	24	24
Claystone, some sandy claystone, dark-gray	38	62
Sandstone, gray, claystone toward bottom of hole; water bearing between 50-75 ft; no apparent increase below 75 ft	27	89
16S/5W-34dca2. Owen Hart. Altitude 340 ft. Drilled by W. W. Drilling & Pump Service, 1959. Casing: 6-in. diam to 52 ft; unperforated		
Soil	4	4
Clay, yellow	9	13
Sand and gravel	5	18
Sand and gravel, cemented	29	47
Rock, blue	40	87
16S/5W-35bdb. V. X. Lemmon. Altitude 378 ft. Drilled by Miller-Jensen Co., 1964. Casing: 6-in. diam to 100 ft; perforated 35-95 ft		
Clay	35	35
Sand and gravel	65	100
16S/5W-35ccc. Willard Burger. Altitude 365 ft. Drilled by Casey Jones Well Drilling Co., 1959. Casing: 8-in. diam to 124 ft; perforated 20-124 ft		
Soil	4	4
Clay	26	30
Sand, gravel, and boulders	59	89
Rock, sedimentary	35	124
16S/6W-13ccd. J. J. McClelland. Altitude 750 ft. Drilled by Hayes & Page Well Drilling, 1963. Casing: 6-in. diam to 44½ ft; unperforated		
Soil	2	2
Clay, brown	41	43
Rock, blue-gray, sedimentary, water bearing between 70-80 ft	40	83
16S/6W-24dcc. Jess Jones. Altitude 600 ft. Drilled by Christensen Drilling & Irrigation, 1968. Casing: 6-in. diam to 40 ft; unperforated		
Soil and dark-brown clay	6	6
Clay, red-brown	4	10
Sandstone, light-brown, weathered	19	29
Sandstone, blue and gray	119½	148½
16S/6W-25bcd. B. G. Sullivan. Altitude 650 ft. Drilled by Casey Jones Drilling Co., 1967. Casing: 6-in. diam to 60 ft; perforated 40-60 ft		
Clay, yellow	24	24
Clay, blue	18	42
Clay, blue, fractured	18	60
16S/6W-35dbd. Lynn Richmond. Altitude 950 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 6-in. diam to 54 ft; unperforated		
Soil	1	1
Clay, brown	3	4
Clay, red	40	44
Sandstone, buff and blue, soft to firm	14	58
Sandstone, weathered, firm	4	62
Sandstone, light- and dark-gray, hard	8	70
Sandstone, light-gray, firm	54	124
Sandstone, dark-gray, hard	1	125
Sandstone, light-gray, firm	27	152
Sandstone, pink-gray, firm to hard	11	163
Sandstone, dark-gray, hard	5	168
Sandstone, light-gray, firm, hard at base	12	180
Sandstone, light- and dark-gray, firm	80	260
Sandstone, light-gray, fine, hard	18	278
Sandstone, light-gray, medium, firm	16	294
Sandstone, dark-gray, coarse, firm	6	300
Sandstone, light-gray, medium, firm	113	413
Sandstone, light-gray, fine, hard	2	415
Sandstone, dark-gray, coarse, firm	17	432
Sandstone, light-gray, fine, hard	1	433
Sandstone, light-gray, medium, firm	16	449
Sandstone, dark-gray, medium, firm	9	458
Sandstone, light-gray, medium, firm	26	484
Sandstone, light-gray, fine, hard	2	486
Sandstone, light-gray, medium, firm	40	526
Sandstone, light-gray, fine, firm	62	588
Sandstone, light-gray, fine, hard	2½	590½

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
16S/6W-35dcb. Lynn Richmond. Altitude 950 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 6-in. diam to 71 ft		
Clay, red, sandy	12	12
Sandstone, brown	53	65
Sandstone, blue	130	195
16S/6W-36acb. John Rowlette, Jr. Altitude 720 ft. Drilled by Hayes & Page Well Drilling, 1968. Casing: 6-in. diam to 25½ ft; unperforated		
Soil	3	3
Clay, brown	10	13
Clay, blue	7	20
Rock, gray, sedimentary, water-bearing	21	41
Rock, gray, sedimentary, hard streaks; increase in water from 48-55 ft	11	52
Rock, gray, sedimentary, softer than above interval	10	62
16S/6W-36add. W. C. Van Dusen. Altitude 775 ft. Drilled by O. B. Nye, 1961. Casing: 5-in. diam to 40 ft; unperforated		
Clay, red	42	42
Shale, red	1	43
Clay, red	9	52
Claystone, gray, sandy	90	142
Sandstone, gray, hard	4	146
Claystone, gray, sandy	44	190
16S/6W-36cac. C. B. Chace. Altitude 900 ft. Drilled by O. B. Nye, 1966. Casing: 5-in. diam to 42 ft; unperforated		
Soil and yellow clay	17	17
Clay, red	11	28
Clay, brown and gray, sandy	6	34
Claystone, gray	6	40
Sandstone, gray	50	90
Shale, gray	1	91
Sandstone, gray	13	104
Shale, gray, water-bearing	2	106
Sand, gray, hard	4	110
16S/6W-36dcc. Floyd Martin. Altitude 720 ft. Drilled by Hayes & Page Well Drilling, 1967. Casing: 6-in. diam to 31 ft; unperforated		
Soil	2	2
Clay, brown	20	22
Clay, blue-gray	7	29
Rock, gray and blue-gray, sedimentary; small quantity of water at 33 ft	173	202
17S/2W-3bcd. C. R. Webb. Altitude 495 ft. Drilled by Carter's Drilling & Pump Service, 1967. Casing: 6-in. diam to 70 ft; unperforated		
Soil	4	4
Clay, red	11	15
Clay, blue, and gravel	13	28
Clay, brown, and gravel	7	35
Sand and gravel mixed with blue clay	35	70
17S/2W-4ccd. George Gillock. Altitude 480 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 5-in. diam to 80 ft; perforated 40-80 ft		
Claystone, yellow, with hard boulders	28	28
Conglomerate, multicolored, with hard boulders; water at 45 and 75 ft	54	82
17S/2W-8cbd2. Vernon Hiles. Altitude 590 ft. Drilled by Carter's Drilling & Pump Service, 1964. Casing: 6-in. diam to 26 ft; unperforated		
Soil	4	4
Sand and gravel, large	22	26
Claystone, blue	94	120
17S/2W-8dac. Neil Stedman. Altitude 515 ft. Drilled by W. W. Drilling & Pump Service, 1964. Casing: 6-in. diam to 60 ft; unperforated		
Soil	2	2
Clay, yellow, sandy	16	18
Clay, red, sticky	41	59
Sandstone, gray	20	79
17S/2W-9bca. C. L. Howard. Altitude 575 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 18 ft; unperforated		
Clay	6	6
Sandstone, blue	68	74
Sandstone, blue-gray	116	190
Sandstone, blue	17	207
Rock, blue-brown	8	215
Sandstone, blue-gray	25	240
Sandstone, brown	65	305
Sandstone, blue	65	370
Rock, brown	15	385
Rock, blue	20	405
Rock, brown	10	415
17S/2W-9bdb. Carl Gatewood. Altitude 480 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 6-in. diam to 90 ft; unperforated		
Soil	12	12
Clay, yellow	16	28
Clay, blue, and gravel	7	35
Clay, brown, and boulders	45	80
Rock, blue, soft	25	105
Rock, blue, soft, and some clay	55	160
17S/2W-17bbc. L. R. Jones. Altitude 500 ft. Drilled by Howard Mosby Well Drilling, 1955. Casing: 6-in. diam to 37 ft; unperforated		
Clay, red	12	12
Clay, gray	12	24
Clay, gray, and boulders	13	37
Sandstone, gray	71	108
Shale, brown, water-bearing	2	110
17S/2W-17bcb1. Ermol Koch. Altitude 495 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: None		
Soil	6	6
Clay and boulders	20	26
Rock, blue, hard	74	100
Sandstone, blue	200	300
Sandstone, brown	20	320
Sandstone, blue	80	400
17S/2W-17dba. Kermit Johnson. Altitude 490 ft. Drilled by Wayne Hayes Well Drilling, 1961. Casing: 6-in. diam to 33 ft; unperforated		
Soil and reddish clay	20	20
Clay, blue, with small amount of gravel below 28 ft	12	32
Sandstone, gray; small fracture above 40 ft is water bearing; most of the water found in fractures around 80 ft	56	88

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/2W-18dab. Harvey Noakes. Altitude 455 ft. Drilled by Casey Jones Well Drilling Co., 1965. Casing: 6-in. diam to 29 ft; unperforated		
Clay	3	3
Clay and gravel	14	17
Sand and gravel	9	26
Rock, yellow	11	37
Rock, blue	8	45
Rock, blue, hard	10	55
Rock, gray	5	60
Rock, brown	8	68
Rock, blue	12	80
17S/2W-19dac1. Connie Johs. Altitude 475 ft. Drilled by Carter's Drilling & Pump Service, 1962. Casing: 6-in. diam to 41 ft; unperforated		
Clay, red, and boulders	30	30
Clay, yellow, sandy	10	40
Rock, gray, soft	25	65
Rock, brown, soft	11	76
Rock, blue	19	95
17S/2W-22ccb. S. U. Rencher. Altitude 505 ft. Drilled by Carter's Drilling & Pump Service, 1957. Casing: 5-in. diam to 33 ft; unperforated		
Soil	4	4
Sand and gravel	22	26
Shale, burnt	6	32
Rock, blue	56	88
17S/2W-23dcd. M. L. Meyers. Altitude 585 ft. Drilled by Wayne Hayes Well Drilling, 1961. Casing: 6-in. diam to 33 ft; unperforated		
Soil and hard red clay	25	25
Rock, blue or reddish-blue, soft, sedimentary	7	32
Rock, mostly dark-blue or blue-black, sedimentary; some variations in hardness; water bearing at approximate depths of 42, 106, and 118 ft	96	128
17S/2W-24cdc. Lawrence Crabtree. Altitude 547 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 6-in. diam to 127 ft; unperforated		
Soil	5	5
Sand and gravel, loose	18	23
Clay, brown	25	48
Clay, yellow	20	68
Clay, red	16	84
Clay, brown	36	120
Shale, gray, loose	7	127
Shale, blue	5	132
17S/2W-26aba1. Willard Curtis. Altitude 510 ft. Drilled by Wayne Hayes Well Drilling, 1959. Casing: 6-in. diam to 24 ft; unperforated		
Soil	2	2
Clay	16	18
Sandstone, weathered	4	22
Sandstone, blue	44	66
Claystone, red, soft	4	70
Sandstone, blue, with strips of claystone, water-bearing	10	80
17S/2W-26aba2. Willard Curtis. Altitude 495 ft. Drilled by Wayne Hayes Well Drilling, 1966. Casing: 6-in. diam to 23 ft; unperforated		
Soil	1½	1½
Clay, brown	13½	15
Rock, gray, sedimentary, water bearing at approximately 68 and 85 ft	90	105
17S/2W-26bab. R. J. Hayes. Altitude 535 ft. Drilled by Casey Jones Well Drilling Co., 1965. Casing: 6-in. diam to 31 ft; unperforated		
Clay	20	20
Clay and boulders	10	30
Basalt, burnt	12	42
Cinders, red	36	78
Basalt, burnt	21	99
Conglomerate, blue and red	25	124
Basalt, burnt	16	140
Rock, blue, sedimentary	10	150
Basalt, burnt	6	156
Rock, blue and brown, sedimentary	24	180
Rock, tan, sedimentary	9	189
Rock, dark-red, sedimentary	26	215
Rock, dark-red and black, sedimentary, with crystal	135	350
17S/2W-26cca1. Springfield Utility Board. Altitude 510 ft. Drilled by W. W. Drilling & Pump Service, 1966. Casing: 12-in. diam to 52 ft; perforated 22-52 ft		
Soil	6	6
Sand and gravel, cemented	10	16
Sand and small-sized gravel	4	20
Sand and gravel, cemented	6	26
Sand and gravel, medium-sized	18	44
Sand and gravel, cemented	10	54
Clay, sandy	5	59
Sand and gravel, cemented	5	64
Clay, sandy	5	69
Sand and gravel, cemented	1	70
17S/2W-26cca2. Springfield Utility Board. Altitude 510 ft. Drilled by W. W. Drilling & Pump Service, 1969. Casing: 16-in. diam to 56 ft; perforated 26-56 ft		
Soil	3	3
Soil and loose gravel	8	11
Sand and large-sized gravel, loose	9	20
Sand, loose	10	30
Gravel, medium-sized, and sand	5	35
Gravel, large-sized, and sand	5	40
Gravel, small-sized, and sand	3	43
Gravel, large-sized, and sand	10	53
Sand and gravel, cemented	3	56
17S/2W-27dab. Wilbur Clemens. Altitude 510 ft. Drilled by Carter's Drilling & Pump Service, 1967. Casing: 6-in diam to 98 ft; perforated 21-85 ft		
Soil	2	2
Gravel, coarse	9	11
Sand and gravel	16	27
Sand and some silt	8	35
Sand and silt, cemented	5	40
Sand and silt	6	46
Sand, cemented	12	58
Sand, fine	5	63
Sand, cemented	14	77
Sand and silt	18	95
Sand, cemented	5	100

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/2W-27dbb. Ion Moore. Altitude 502 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 12-in. diam to 81 ft; perforated 18-78 ft		
Soil	3	3
Gravel, large-sized, and sand	7	10
Sand and gravel	28	38
Gravel, loose	2	40
Sand and gravel, cemented	8	48
Sand	1	49
Gravel and clay	32	81
Rock, solid	10	91
17S/2W-29cbc2. Rainbow Water Dist. Altitude 470 ft. Drilled by Carter's Drilling & Pump Service, 1956. Casing: 18-in. diam to 70 ft; perforated 30-70 ft		
Sand and rocks, loose	8	8
Sand and gravel	9	17
Gravel and 1- to 5-in.-diam small rocks	15	32
Sand and gravel	4	36
Gravel, cemented	9	45
Sand, gravel, and 3-in. diam small rocks	3	48
Gravel, cemented, and rocks	22	70
17S/2W-30aba. Doug Leavitt. Altitude 540 ft. Drilled by Carter's Drilling & Pump Service, 1963. Casing: 6-in. diam to 54 ft; unperforated		
Soil	2	2
Rock, loose	10	12
Shale, blue, loose	36	48
Shale, blue	72	120
17S/2W-30cca. Boyd Williams. Altitude 470 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 6-in. diam to 38 ft; perforated 33-38 ft		
Clay	10	10
Clay and gravel	12	22
Gravel, cemented	11	33
Sand and gravel, water-bearing 35-38 ft	5	38
17S/2W-30dad1. Rainbow Water Dist. Altitude 470 ft. Drilled by Carter's Drilling & Pump Service, 1956. Casing: 12-in. diam to 75 ft; perforated 30-75 ft		
Loam, sandy	2	2
Sand, fine	6½	8½
Sand, gravel, and 4-in.-diam cobbles	9½	18
Sand and 1/2- to 1-in.-diam gravel	8	26
Cobbles, 2- to 8-in.-diam	3	29
Sand and 1/2- to 1-in.-diam gravel	5	34
Sand and 3- to 4-in.-diam cobbles	8	42
Clay, yellow, and gravel, mixed	2½	44½
Sand, cemented, and gravel	6½	51
Sand, gravel, and 4-in.-diam cobbles	6	57
Sand, cemented, and gravel	7	64
Sand and 2-in.-diam rocks	3	67
Sand, cemented, and gravel	7	74
Sand and 4-in.-diam cobbles	1	75
17S/2W-31bcc2. Skelly Oil Co. Altitude 472 ft. Drilled by W. W. Drilling & Pump Service, 1969. Casing: 16-in. diam to 28 ft, 10-in. diam 3-165 ft; perforated 21-165 ft		
Soil (clay)	3	3
Sand and gravel, tight	15	18
Sand and gravel, loose	22	40
Sand and gravel	12	52
Sand and clay, tight	46	98
Sand and gravel	8	106
Rock, brown, hard	3	109
Sand, medium-sized	31	140
Sand, coarse, and gravel	12	152
Sand and gravel, hard, cemented	13	165
Sand and gravel, cemented	15	180
Sand and gravel, cemented, with seams of water	40	220
Sand and gravel, loose, with some water	20	240
Sand, blue, and gravel, cemented, with some seams of water	25	265
17S/2W-32bad. Weyerhaeuser Co. Altitude 485 ft. Drilled by Carter's Drilling & Pump Service, 1957. Casing: 8-in. diam to 88 ft; perforated 55-85 ft		
Soil	2	2
Sand and gravel, mixed with clay	13	15
Gravel, coarse, and 2- to 4-in.-diam small cobbles, mixed with clay	13	28
Sand, fine, mixed with light gravel	5	33
Sand, coarse, mixed with small cobbles	26	59
Sand, coarse, and gravel and small cobbles, mixed; contains clay	56	115
Sand and gravel, cemented	60	175
17S/2W-32dbc. Lucy Irvin. Altitude 487 ft. Drilled by Bonnie Brae Well Drilling, 1964. Casing: 6-in. diam to 40 ft; perforated 30-40 ft		
Clay, loam, and gravel	12	12
Clay and gravel, brown	8	20
Sand and gravel, black	4	24
Conglomerate, gray	13	37
Sand, pea-sized gravel, and brown clay	8	45
17S/2W-34aab1. K. J. Schmidt. Altitude 510 ft. Drilled by Casey Jones Well Drilling Co., 1957. Casing: 5-in. diam to 79 ft; unperforated		
Soil	5	5
Shale, boulders, and sand	74	79
"Bedrock"	11	90
17S/2W-35abd. Bill Bailey. Altitude 500 ft. Drilled by Bonnie Brae Well Drilling, 1962. Casing: 6-in. diam to 41½ ft; unperforated		
Loam, black	6	6
Clay, sandy, and coarse gravel	19	25
Gravel, cemented	10	35
Sand and clay, soft	5	40
Gravel, cemented, hard	2	42
Sand and pea-sized gravel, black, water-bearing	3	45
17S/2W-35aca. Joe Ott. Altitude 525 ft. Drilled by W. W. Drilling & Pump Service, 1965. Casing: 6-in. diam to 62 ft; unperforated		
Soil	4	4
Sand and gravel	21	25
Gravel and rocks	21	46
Sand and gravel	16	62

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/3W-5aaa. Leon Funke. Altitude 398 ft. Drilled by W. W. Drilling & Pump Service, 1969. Casing: 10-in. diam to 263 ft; perforated 18-263 ft		
Loam and gravel	6	6
Sand and loose gravel	19	25
Clay, sand, and gravel	25	50
Clay, brown, and sand and gravel	34	84
Clay, yellowish-brown, and sand and gravel	42	126
Clay, bluish-gray, and sand and gravel	2	128
Clay, yellowish-brown, and sand and gravel	47	175
Clay, gray, and sand and gravel	23	198
Clay, blue, and sand and gravel	27	225
Clay, brown, and sand	22	247
Clay, blue, sandy	8	255
Sand, coarse, and small gravel	5	260
Clay, bluish-gray	20	280
Clay, gray; sand and small gravel at bottom	20	300
17S/3W-5cbb. Eugene Water & Electric Board. Altitude 375 ft. Drilled by Christensen Drilling & Irrigation, 1969. Casing: 12-in. diam to 51 ft; unperforated		
Gravel, cobbles, and gray sand	14	14
Sand and pea gravel	1	15
Gravel, cobbles, dirty sand, and a few clay balls	28	43
Gravel, cobbles, and fairly clean sand	6	49
Sand, cemented, and pea gravel	1	50
Gravel, sand, and clay	1	51
Gravel, pea-sized, and clean sand	2	53
17S/3W-5ddc2. McKenzie Sand & Gravel Co. Altitude 400 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 10-in. diam to 73 ft; perforated 18-73 ft		
Sand, gravel, and clay	2	2
Sand and gravel, some water at 5 ft, 50 gpm at 60-63 ft	61	63
Sand, gravel, and clay	7	70
Sand and gravel	5	75
17S/3W-5ddc3. McKenzie Sand & Gravel Co. Altitude 400 ft. Drilled by Miller-Jensen Co., 1965. Casing: 12-in. diam to 40½ ft; perforated 20-39 ft		
Sand, gravel, and boulders	23	23
Gravel, cemented	5	28
Sand and gravel	12	40
Gravel, cemented	20	60
Clay, yellow, sandy	10	70
17S/3W-6aaa. Victor Lanini. Altitude 385 ft. Drilled by W. W. Drilling & Pump Service, 1967; deepened in 1969. Casing: 10-in. to 226 ft; perforated 18-186 ft		
Loam	7	7
Sand, gravel, and clay	11	18
Sand and gravel, water-bearing	12	30
Sand, gravel, and clay	10	40
Sand, brown, and gravel and clay	50	90
Sand, gray, and gravel and clay; some water	22	112
Clay, brown, and sand and gravel, water bearing at 160 ft	70	182
Sand, yellow-brown, and gravel	23	205
Sand, gravel, and gray clay	20	225
Clay-bluish-gray	25	250
17S/3W-6aca. Eugene Water & Electric Board. Drilled by Christensen Drilling & Irrigation, 1969. Casing: 12-in. diam to 79 ft; perforated 70-76 ft		
Gravel, sand, and cobbles	20	20
Sand, brown	2	22
Gravel, sand, and cobbles	6	28
Gravel, sand, and trace of clay	8	36
Cobbles, gravel, and sand	3	39
Gravel, clay, and sand	1	40
Gravel, sand, and trace of clay; some cementation	6	46
Gravel, sand, and cobbles, clean	4	50
Gravel and sand, dark-brown	8	58
Gravel and sand, with hard yellow binder	1	59
Gravel and sand; trace of cementation	5	64
Gravel, sand, and cobbles, dark-brown	14	78
17S/3W-7adb. E. R. Craiger. Altitude 404 ft. Drilled by Wayne Hayes Well Drilling, 1959. Casing: 6-in. diam to 57 ft; unperforated		
Soil	4½	4½
Gravel and "dirt"	2½	7
Gravel, compact to very compact; traces of water in an occasional sand strip	43	50
Sand and gravel, water-bearing	7	57
17S/3W-7dbb. C. A. Gehrke. Altitude 394 ft. Drilled by Miller-Jensen Co., 1965. Casing: 6-in. diam to 44 ft; perforated 34-43 ft		
Soil	9	9
Clay and gravel	14	23
Sand and gravel	21	44
17S/3W-8bda. John Brassard. Altitude 400 ft. Drilled by Casey Jones Well Drilling Co., 1963. Casing: 6-in. diam to 52 ft; unperforated		
Loam, black, sandy	8	8
Sand and gravel, coarse	32	40
Sand, brown	10	50
Gravel	2	52
17S/3W-9aaa. Eugene Water & Electric Board. Altitude 397 ft. Drilled by Christensen Drilling & Irrigation, 1969. Casing: 12-in. diam to 27 ft; perforated 18-25 ft		
Gravel, pea-sized; contains sand; water-bearing at 3 ft	6	6
Gravel, pea-sized to 6-in diam, with a few to 10-in. diam, mixed with brown sand	3	9
Gravel, pea-sized to 10-in. diam, mixed with brown sand and containing some fine silty dirty sand. Good water-bearing zone	3	12
Sand, coarse, with pea-sized to 2-in.-diam gravel and hunks of yellow clay; some water	2	14
Sand, mixed with pea-sized to 3-in.-diam gravel and clay; good water-bearing zone 20-26 ft	12	26
Basalt	1	27
Clay and fine silty sand, red	½	27½

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/3W-9ada. Milton Chase. Altitude 423 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 10-in. diam to 220 ft; perforated 18-220 ft		
Loam	8	8
Clay, gravel, and boulder	10	18
Sand and gravel, water-bearing	22	40
Sand, gravel, and clay, lightly cemented; water bearing at 100 ft	60	100
Sand, clay, and pea-sized gravel, lightly cemented	99	199
Sand, gravel, and wood, water-bearing	21	220
17S/3W-9bcc. Doris Johnson. Altitude 405 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 8-in. diam to 248 ft; perforated 18-160 ft, 175-220 ft, and 228-245 ft		
Soil	4	4
Sand and gravel, tight	23	27
Sand and gravel	6	33
Sand and gravel with clay, dry	10	43
Sand, clay, and gravel	6	49
Gravel, sand, and clay	14	63
Gravel with sand and clay	6	69
Sand with clay	12	81
Sand and gravel with clay	64	145
Sand and gravel with clay, loose	5	150
Sand and gravel with clay	11	161
Sand, caked	3	164
Gravel, cemented	4	168
Sand	3	171
Sand and gravel with clay	15	186
Sand with some gravel and clay	34	220
Clay, blue	8	228
Gravel and sand, tan, with clay	6	234
Sand and gravel with clay, loose	11	245
Sand and gravel with clay, tight	4	249
17S/3W-10bbd. Eugene Water & Electric Board. Altitude 411 ft. Drilled by Christensen Drilling & Irrigation, 1969. Casing: 12-in. diam to 38 ft; perforated 22-28 ft, 32-35 ft		
Sand, gravel, and boulders, with some clay at 9 ft	9	9
Sand, clean, with pea-sized gravel and a few boulders	4	13
Sand and gravel, mixed; gravel pea-sized to 3- to 4-in. diam; good water-bearing zone	15	28
Gravel, pea- to boulder-sized, mixed with heavy silty sand	2	30
Sand, heavy	1½	31½
Basalt, broken, with gravel and hunks of clay	½	32
Gravel, pea-sized to 4-in. diam, mixed with clean sand; water-bearing	4	36
Sand, brown	1	37
Sand, black, and broken basalt; contains no water	½	37½
Sandstone, weathered, with yellow clay	1	38½
17S/3W-14cca. George Meeker. Altitude 435 ft. Drilled by Carter's Drilling & Pump Service, 1965. Casing: 6-in. diam to 57 ft; perforated 23-41 ft		
Soil	7	7
Sand and gravel	7	14
Sand and clay	8	22
Sand and gravel	14	36
Sand, gravel, and silt	5	41
Sand, coarse	5	46
Gravel, coarse, and sand and silt	8	54
Clay, blue	3	57
17S/3W-15acd. E. D. Wicklund. Altitude 420 ft. Drilled by Carter's Drilling & Pump Service, 1963. Casing: 6-in. diam to 35 ft; unperforated		
Soil	3	3
Sand, fine	9	12
Gravel, coarse, and cobbles	2	14
Sand, gravel, and clay	13	27
Gravel, coarse, and small cobbles	8	35
17S/3W-17bca. Smith Gardens. Altitude 409 ft. Drilled by Christensen Drilling & Irrigation, 1960. Casing: 8-in. diam to 99½ ft; perforated 80-90 ft		
Sand and gravel	60	60
Sand and gravel, coarse	5	65
Gravel, coarse; some water at 18 and 38 ft	15	80
Gravel, large; 100 gpm at 80-90 ft	12	92
Sand with some gravel	6	98
Gravel, coarse; 100 gpm at 98-103 ft	5½	103½
17S/3W-19bdd2. Mrs. C. E. Miller. Altitude 414 ft. Drilled by W. W. Drilling & Pump Service, 1960. Casing: 6-in. diam to 51 ft; unperforated		
Soil	4	4
Sand and gravel with clay	12	16
Sand and gravel, water-bearing	3	19
Gravel, cemented	23	42
Clay, yellow, sandy	8	50
Sandstone, brown	8	58
Rock, blue	15	73
Rock, gray, hard	8	81
17S/3W-19cac. Gheen Irrigation Works. Altitude 415 ft. Drilled by Christensen Drilling & Irrigation, 1963. Casing: 10-in. diam to 53 ft; unperforated		
Clay and soil	6	6
Gravel and clay	28	34
Clay, sand, and gravel, yellow	11	45
Sand, weathered	5	50
Rock, blue	22	72
Sandstone, light-gray	68	140
Sandstone, dark-gray	10	150
Sandstone, dark-gray, sticky	15	165
Sandstone, light-gray	15	180
Sandstone, light-gray, sticky	40	220
Sandstone, dark-gray	25	245
Sandstone, light-gray	75	320
Sandstone, blue, sticky	130	450
Sandstone, light-gray	10	460
Sandstone, dark-gray	15	475
Sandstone, light-gray	20	495
Sandstone, light-gray, sticky	8	503
17S/3W-20aac. Sheldon High School. Altitude 420 ft. Drilled by Christensen Drilling & Irrigation, 1963. Casing: 12-in. diam to 119½ ft; perforated 54-116 ft		
Clay	4	4
Clay and gravel	4	8
Sand and gravel	17	25
Sand	26	51
Sand and small-sized gravel	2	53
Sand and large-sized gravel	9	62
Sand and small-sized gravel	28	90
Sand and large-sized gravel	5	95
Sand and small-sized gravel	24½	119½

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/3W-20bbb. T. K. Huston. Altitude 415 ft. Drilled by W. W. Drilling & Pump Service, 1965. Casing: 6-in. diam to 20 ft; unperforated		
Soil	3	3
Clay, yellow	9	12
Clay, blue	2	14
Sandstone, blue	10	24
Sandstone, gray	32	56
Sandstone, blue-white	30	86
Rock, blue	14	100
Sandstone, gray	20	120
Rock, blue	15	135
17S/3W-20bdd. R. A. McAyeal. Altitude 415 ft. Drilled by Carter's Drilling & Pump Service, 1965. Casing: 6-in. diam to 52 ft; unperforated		
Soil	6	6
Gravel	6	12
Gravel, sand, and silt	13	25
Gravel and white clay	6	31
Sand and gravel	21	52
17S/3W-21cbb. Monroe Junior High School. Altitude 425 ft. Drilled by Christensen Drilling & Irrigation, 1966. Casing: 8-in. diam to 169½ ft; perforated 19-145 ft, 148-165 ft		
Clay, black, and gravel	6	6
Clay, white, and gravel	13	19
Sand, brown, gravelly, water-bearing	12	31
Sand with small-sized gravel	19	50
Sand with gravelly clay, water-bearing	10	60
Sand, clean, dry	4	64
Sand and gravel mixed with clay	27	91
Sand, clean, with small-sized gravel	3	94
Gravel, large-sized, with clay	26	120
Clay, sandy	3	123
Clay and gravel	11	134
Gravel and clay	6	140
Clay, heavy, and some gravel	5	145
Gravel and clay	7	152
Sand with clay and gravel	16	168
Clay	4	172
17S/3W-22abb. J. R. Knoedler. Altitude 435 ft. Drilled by Carter's Drilling & Pump Service, 1966. Casing: 6-in. diam to 49 ft; unperforated		
Soil	1	1
Clay, red	6	7
Gravel and clay	5	12
Sand and gravel	5	17
Sand and clay	15	32
Sand and gravel, compacted	17	49
17S/3W-23dac. Rainbow Water Dist. Altitude 444 ft. Drilled by Carter's Drilling & Pump Service, 1969. Casing: 14-in. diam to 141 ft; 8-in. screen, slot-size 80, 141-171 ft; slot-size 80, 176-186 ft		
Soil	2	2
Clay, soil, and gravel	4	6
Sand and gravel	9	15
Sand, fine, and clay	6	21
Gravel, coarse, and clay	6	27
Sand and gravel, clean	4	31
Sand and gravel, with heavy clay	46	77
Sand and gravel, mixed with heavy clay	18	95
Rock, brown, shaley	7	102
Gravel, large, and cobbles, cemented	14	116
Gravel, coarse	1	117
Gravel, coarse, with heavy clay	3	120
Gravel, fine, with heavy clay	12	132
Sand, fine, and clay	4	136
Sand, gravel, and clay	12	148
Sand, loose	2	150
Gravel, clean, loose	8	158
Sand and gravel, with small cobbles	4	162
Gravel, coarse, mixed with clay	6	168
Sand, fine, clean	4	172
Sand and gravel, mixed with clay	17	189
17S/3W-26aba2. A. M. McLaughlin. Altitude 449 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 6-in. diam to 34 ft; unperforated		
Soil	6	6
Clay, yellow	8	14
Clay, brown	4	18
Gravel, cemented	3	21
Sand and gravel, loose	3	24
Gravel, cemented	5	29
Sand and gravel, loose	1	30
Sand and gravel, cemented	4	34
Sand and gravel, loose	1	35
17S/3W-28dbd. D. F. Ray. Altitude 428 ft. Drilled by Carter's Drilling & Pump Service, 1959. Casing: 6-in. diam to 137 ft; unperforated		
Soil	2	2
Gravel	28	30
Sand and gravel	16	46
Sand and gravel, mixed with clay	48	94
Clay, blue, soft	30	124
Bedrock, blue	46	170
Shale, blue, soft	15	185
17S/3W-28dcb. Chase Gardens. Altitude 425 ft. Drilled by Carter's Drilling & Pump Service, 1959. Casing: 10-in. diam to 134 ft; perforated at unknown depth		
Sand and gravel, mixed with soil	6	6
Sand and gravel	18	24
Sand, coarse, mixed with 2-in.-diam cobbles	16	40
Sand, fine, with clay streaks	12	52
Sand and gravel	8	60
Cobbles, 14-in.-diam, and sand and gravel	3	63
Sand, gravel, and large cobbles	3	66
Sand and gravel, mixed with heavy clay	6	72
Shale, blue, soft	8	80
Shale, blue, hard	4	84
Shale, blue	5	89
Clay, blue	85	174
Clay, blue, mixed with small gravel and traces of wood bark	25	199
Clay, blue, soft	11	210
Shale, red, soft	24	234

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/3W-28ddd1. Cook's Gardens. Altitude 435 ft. Drilled by C. Frank Gordinier, 1957. Casing: 6-in. diam to 39 ft; unperforated		
Soil	8	8
Gravel, loose	24	32
Gravel, cemented	8	40
Gravel, loose, water-bearing	1½	41½
Gravel, cemented	2	43½
Gravel, loose	3	46½
Gravel and sand, water-bearing	8½	55
Gravel, cemented	16	71
Gravel and sand, water-bearing	3½	74½
Gravel, cemented	4½	79
Gravel and clay	1	80
Clay	20	100
Sandstone, blue	38	138
Sandstone, blue, soft	8½	146½
Clay, red	18½	165
Sandstone, blue	2	167
17S/3W-29cdd1. O. D. McMillan. Altitude 425 ft. Drilled by Wayne Hayes Well Drilling, 1958. Casing: 5-in. diam to 147 ft; unperforated		
Soil	3	3
Gravel and soil	8	11
Gravel, compacted	9	20
Sand, with a little water	1½	21½
Clay, sandy clay, soft sandstone, and gravel	125½	147
Sandstone, bluish-gray, water bearing below 200-ft level	81	228
17S/3W-30acb. Balzhiser, Seder & Rhodes, Architects. Altitude 409 ft. Drilled by Wayne Hayes Well Drilling, 1961. Casing: 6-in. diam to 19½ ft; unperforated		
Soil, sandy	5	5
Sand and gravel	11	16
Claystone, bluish-gray, somewhat harder below 58 ft. Water-bearing fracture at approximately 55 ft. Some water below 90-ft level	87	103
17S/3W-31adc. Pacific Northwest Bell. Altitude 420 ft. Drilled by Christensen Drilling & Irrigation, 1966. Casing: 10-in. diam to 31 ft; unperforated		
Cement and gravel	5	5
Clay, sandy	10	15
Sand and gravel	5	20
Sand and small gravel	3	23
Clay, sandy	5	28
Sand and gravel	2	30
Sandstone, weathered	3	33
Sandstone, blue	20	53
Sandstone, gray	13	66
Sandstone, greenish-gray, soft	14	80
Sandstone, dark-gray	85	165
Sandstone, light greenish-gray	35	200
Sandstone, light-blue	80	280
Sandstone, light-blue, with mud rings	15	295
Sandstone, light-blue	18	313
Sandstone, light-gray	7	320
Sandstone, light greenish-gray	54	374
Sandstone, light-gray	10	384
Sandstone, light blue-gray	7	391
Sandstone, light-gray	24	415
Sandstone, light-gray, with black specks	9	424
Sandstone, light-gray, with brownish tinge	9	433
Sandstone, mixed colors	13	446
Sandstone, light-gray	7	453
Sandstone, bluish-gray, with mud rings	4	457
Stone, bluish-gray, with mud	4	461
17S/3W-31caa. John Derkatsch. Altitude 419 ft. Drilled by Christensen Drilling & Irrigation, 1963. Casing: 6-in. diam to 43 ft; unperforated		
Soil	2	2
Clay	12	14
Sand and gravel	28	42
Sandstone, blue	28	70
17S/3W-31dcd. Whinn, Shinn & Co. Altitude 420 ft. Drilled by Christensen Drilling & Irrigation, 1959. Casing: 8-in. diam to 17 ft		
Soil and clay	14	14
Sandstone, blue-gray, coarse	353	367
Sandstone, brown, tuffaceous	30	397
17S/3W-32add. Coca Cola Bottling Co. Altitude 430 ft. Drilled by Wayne Hayes Well Drilling, 1959. Casing: 6-in. diam to 13½ ft; unperforated		
Soil	8	8
Gravel, sand, and soil	3	11
Sandstone	192	203
17S/3W-32bbc. Eugene Fruit Growers Assoc. Altitude 425 ft. Drilled by Wayne Hayes Well Drilling, 1957. Casing: 6-in. diam to 131½ ft; unperforated		
Soil and gravel fill	1½	1½
Soil, with small gravel	4½	6
Gravel, clay, and sand, compacted	12	18
Gravel and sand, loose, water-bearing	1½	19½
Sand and gravel, compacted	6½	26
Clay, yellow-brown	10	36
Clay, blue-gray	79	115
Clay, yellow-brown, and small gravel	10	125
Clay, blue-gray	6	131
Sandstone, gray, tuffaceous	54	185
Sandstone, coarse, with some shells, water-bearing	23	208
Tuff, blue-gray, fine-grained	9	217
Sandstone, gray, hard, coarse, with black shell particles; water-bearing	2	219
Rock, blue-gray, fine-grained, with exception of thin streaks of coarse, gray, water-bearing sandstone at 284 and 290 ft	83	302
17S/3W-33aad. M. T. Hood. Altitude 430 ft. Drilled by C. Frank Gordinier, 1957. Casing: 4-in. diam to 96 ft; unperforated		
Soil	11	11
Gravel	20	31
Clay	44	75
Sandstone, soft	29	104
Sandstone, hard layer	2	106
Sandstone, soft	5	111
Sandstone, hard	24	135
Sandstone, blue, hard, water bearing at 155 ft	20	155
Sandstone, blue, hard	10	165
17S/3W-34bdb. C. M. Elspas. Altitude 435 ft. Drilled by Christensen Drilling & Irrigation, 1959. Casing: 6-in. diam to 68 ft; unperforated		
Soil	15	15
Gravel	7	22
Clay and gravel	54	76

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/3W-35acd. Herman Head. Altitude 455 ft. Drilled by W. W. Drilling & Pump Service, 1960. Casing: 6-in. diam to 41 ft; unperforated		
Soil	5	5
Clay	11	16
Gravel, cemented	22	38
Sand and gravel	3	41
17S/3W-35daa. D. E. Lodien. Altitude 455 ft. Drilled by W. W. Drilling & Pump Service, 1960. Casing: 6-in. diam to 48 ft; unperforated		
Soil	5	5
Sand and gravel, cemented	22	27
Sand and gravel, water-bearing	5	32
Gravel, cemented	15	47
Sand and gravel, water-bearing	1	48
17S/4W-1acb. Richard Warren. Altitude 377 ft. Drilled by Casey Jones Well Drilling Co., 1962. Casing: 6-in. diam to 41 ft; unperforated		
Soil and brown clay, sandy	5	5
Sand and gravel	10	15
Sand, gravel, and boulders	27	42
17S/4W-2cbb. Melvin Thompson. Altitude 375 ft. Drilled by Carter's Drilling & Pump Service, 1963. Casing: 8-in. diam to 40 ft; unperforated		
Soil	4	4
Sand and clay	16	20
Gravel and clay	6	26
Gravel and sand, water-bearing	6	32
Gravel, coarse	8	40
17S/4W-2dcb1. H. B. Hurley. Altitude 380 ft. Drilled by Casey Jones Well Drilling, 1966. Casing: 6-in. diam to 35 ft; unperforated		
Soil	2	2
Clay and gravel	13	15
"Hardpan"	2	17
Clay and gravel	8	25
Gravel, coarse	4	29
Sand and gravel	6	35
17S/4W-3acb. Gordon Elliott. Altitude 373 ft. Drilled by Christensen Drilling & Irrigation, 1966. Casing: 10-in. diam to 212 ft; perforated 25-212 ft		
Silt and medium-sized gravel	9	9
Clay and gravel	21	30
Gravel, medium-sized, loose, water-bearing	6	36
Gravel and clay	20	56
Gravel, medium- and large-sized, loose	25	81
Gravel, medium-sized, and clay, cemented	13	94
Sand and brown clay, cemented	7	101
Sand, medium-sized, water-bearing	2	103
Gravel and clay	72	175
Gravel, small-sized, with sand and clay	19	194
Gravel, small-sized, and sand, water-bearing	2	196
Gravel, medium- and small-sized, and sand, water-bearing	16	212
Clay, blue, and gravel	3	215
Clay, blue	5	220
17S/4W-3bda. Gordon Elliott. Altitude 375 ft. Drilled by Christensen Drilling & Irrigation, 1966. Casing: 10-in. diam to 160 ft; perforated 30-160 ft		
Soil, sandy	4	4
Silt and medium-sized gravel	26	30
Sand and medium-sized gravel, water-bearing	5	35
Sand and medium-sized gravel, loose, water-bearing	11	46
Gravel, large- and medium-sized, loose	17	63
Gravel, large-sized, cemented	15	78
Clay and medium-sized gravel	26	104
Gravel, small-sized, and sand	12	116
Gravel, medium-sized, and sand and clay, cemented	49	165
17S/4W-4acd. Orye Neuschwander. Altitude 370 ft. Drilled by Carter's Drilling & Pump Service, 1965. Casing: 10-in. diam to 42 ft; perforated 32-42 ft		
Soil	4	4
Clay	3	7
Sand and gravel	35	42
17S/4W-4dcb. Seneca Lumber Co. Altitude 370 ft. Drilled by R. E. McTavish, 1961. Casing: 8-in. diam to 138 ft; perforated 44-138 ft		
Loam, black	14	14
Sand and small cobbles	46	60
Shale, gray	10	70
Gravel, cemented	3	73
Clay and sand	17	90
Gravel, cemented	10	100
Sand and gravel	10	110
Gravel, cemented	20	130
Clay, sand, and gravel	9	139
17S/4W-5add. Blachley-Lane County Co-op Electrical Assoc. Altitude 365 ft. Drilled by Christensen Drilling & Irrigation, 1964. Casing: 6-in. diam to 34 ft; unperforated		
Clay	10	10
Gravel and sand	20	30
Sand and fine gravel	2	32
Gravel and sand	2	34
17S/4W-8ccc. C. C. Bryan. Altitude 375 ft. Drilled by O. B. Nye, 1963. Casing: 2-in. diam to 25 ft; perforated 23-25 ft		
Soil and brown clay	4	4
Sand and gravel, packed	16	20
Sand, brown, fine	1	21
Sand and gravel, water-bearing	4	25
17S/4W-9dad1. Georgia-Pacific Corp. Altitude 380 ft. Drilled by Bonnie Brae Well Drilling, 1962. Casing: 10-in. diam to 125 ft; perforated 83-125 ft		
Clay	10	10
Clay and gravel	15	25
Sand and gravel	10	35
Gravel, cemented	5	40
Sand, gravel, and clay	86	126
17S/4W-10bba. Faith Baptist Church. Altitude 378 ft. Drilled by Curtis E. Miller, 1957. Casing: 5-in. diam to 50 ft; unperforated		
Soil	6	6
Gravel and sand, cemented	44	50

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/4W-10dbc2. Lane County. Altitude 375 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 6-in. diam to 46 ft; unperforated		
Soil	5	5
Clay and gravel	15	20
Sand and gravel, loose	20	40
Gravel, cemented	6	46
Sand and gravel, loose	3	49
17S/4W-11bbc. Mrs. E. V. Smitson. Altitude 379 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 6-in. diam to 57½ ft; unperforated		
Soil and sandy clay	6	6
Sand and gravel, loose	24	30
Sand and gravel, with clay	27	57
Sand and gravel, loose	1	58
17S/4W-11ddc. Jack Davis. Altitude 380 ft. Drilled by W. W. Drilling & Pump Service, 1961. Casing: 8-in. diam to 62 ft; perforated 30-43 ft, 48-60 ft		
Soil	3	3
Clay and gravel	15	18
Gravel and sand, medium-sized	8	26
Sand and gravel, cemented	6	32
Gravel, fine	5	37
Sand and gravel, cemented	6	43
Gravel and sand, medium-sized	3	46
Clay, yellow	7	53
Sand and gravel, medium-sized	9	62
17S/4W-12cad. Tom Brown. Altitude 388 ft. Drilled by Miller-Jensen Co., 1964. Casing: 2-in. diam to 21 ft; perforated 18½-21 ft		
Soil	3	3
Gravel with streaks of clay	14	17
Sand and gravel	4	21
17S/4W-13bab. Eugene Water & Electric Board. Altitude 389 ft. Drilled by W. W. Drilling & Pump Service, 1961. Casing: 6-in. diam to 53 ft; unperforated		
Soil	6	6
Gravel, coarse, cemented	8	14
Sand and gravel	10	24
Gravel, coarse, cemented	15	39
Clay, yellow, soft	8	47
Sand, fine	4	51
Gravel, medium	2	53
17S/4W-13ccd. Peter Schmitz, Jr. Altitude 400 ft. Drilled by R. E. McTavish, 1959. Casing: 6-in. diam to 123 ft; perforated at unknown depth		
Soil	12	12
Gravel cemented	58	70
Shale, blue	12	82
Gravel, cemented	28	110
Shale, blue	3	113
Gravel, cemented	7	120
Sand and clay	3	123
17S/4W-14aca. North Eugene High School. Altitude 390 ft. Drilled by Christensen Drilling & Irrigation, 1966. Casing: 8-in. diam to 128 ft; perforated 18-125 ft		
Soil	2½	2½
Sand and gravel, with clay	14½	17
Sand and gravel	4	21
Sand and gravel, with some clay	12	33
Sand and gravel	10	43
Sand and gravel, with some clay	4	47
Gravel and some clay, very sandy	18	65
Sand and gravel, with some clay	62	127
Sand and gravel, with gray clay	3	130
Clay, gray	12	142
17S/4W-14daa. William Ericksen. Altitude 395 ft. Drilled by Miller-Jensen Co., 1965. Casing: 6-in. diam to 45 ft; unperforated		
Soil	10	10
Sand and gravel	15	25
Gravel, cemented	12	37
Sand and gravel	8	45
17S/4W-15bcb. Empire Bowling. Altitude 375 ft. Drilled by Christensen Drilling & Irrigation, 1957. Casing: 6-in. diam to 35 ft; unperforated		
Soil	2	2
Sand and gravel	21	23
Sand and clay	4	27
Sand	6	33
Sand and gravel	2	35
Clay, sandy	2	37
17S/4W-16adc. L. E. Lee. Altitude 380 ft. Drilled by C. E. Gordinier & Son, 1967. Casing: 6-in. diam to 48 ft; unperforated		
Loam, brown	10	10
Soil, gray	2	12
Soil, gray, and small-sized gravel	5	17
Gravel, cemented	37	54
Gravel, loose	1	55
17S/4W-17dbc. Alvin Clark. Altitude 385 ft. Drilled by Carter's Drilling & Pump Service, 1957. Casing: 5-in. diam to 40 ft; perforated		
Soil	4	4
Sand and gravel	36	40
17S/4W-18adc. Marvin Ringsdorf. Altitude 370 ft. Drilled by Casey Jones Well Drilling Co., 1966. Casing: 6-in. diam to 41 ft; perforated 30-40 ft		
Soil	1	1
Sand, clay, and gravel	6	7
Sand and gravel, brown	4	11
Rock, "hardpan"	5	16
Sand and gravel, brown	9	25
Gravel, brown, coarse	9	34
Sand and gravel, brown	7	41
17S/4W-19ddc. George Parks. Altitude 385 ft. Drilled by Wayne Hayes Well Drilling, 1961. Casing: 6-in. diam to 38 ft; unperforated		
Clay	27	27
Gravel and clay, compacted	8	35
Sand, water-bearing	3	38

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/4W-21baa. R. D. Cross. Altitude 380 ft. Drilled by W. W. Drilling & Pump Service, 1960. Casing: 6-in. diam to 43 ft; unperforated		
Soil	4	4
Clay	14	18
Sand, fine	7	25
Gravel, cemented	17	42
17S/4W-21dda2. James Felton. Altitude 385 ft. Driven by Miller-Jensen Co., 1960. Casing: 2-in. diam to 22 ft; perforated 19½-22 ft		
Soil	3	3
Clay and gravel	16	19
Sand	3	22
17S/4W-22cbb. Tom Hornig. Altitude 385 ft. Drilled by Bonnie Brae Well Drilling, 1963. Casing: 6-in. diam to 35 ft; perforated 25-35 ft		
Loam, black	8	8
Clay, sand, and gravel	12	20
Sand and gravel	15	35
17S/4W-23ada. Roy Schaefer. Altitude 400 ft. Drilled by Miller-Jensen Co., 1967. Casing: 6-in. diam to 45 ft; unperforated		
Soil	8	8
Gravel, cemented	19	27
Gravel, sand, and clay	17	44
Gravel	2	46
17S/4W-23cbb. Bonneville Power Adm. Altitude 396 ft. Drilled by R. J. Strasser Co., 1940. Casing: 8-in. diam to 109 ft; perforated 46-60 ft, 75-105 ft		
Clay, yellow	11	11
Gravel, loose, water-bearing	9	20
Gravel, with yellow clay	22	42
Gravel, loose	2	44
Gravel, cemented	18	62
Clay, yellow	7	69
Silt	2	71
Gravel, loose, water-bearing	9	80
Gravel, with blue clay	7	87
Gravel, loose, water-bearing	14	101
Gravel, with clay	8	109
17S/4W-23cbd2. American Portable Irrigation. Altitude 398 ft. Drilled by Christensen Drilling & Irrigation, 1960. Casing: 8-in. diam to 61 ft; perforated 45-60 ft		
Soil and clay	8	8
Gravel and sand, water-bearing	35	43
Gravel	18	61
17S/4W-23ccd. J. E. F. Robertson. Altitude 397 ft. Drilled by Merle E. Warren Well Drilling, 1960. Casing: 5-in. diam to 41 ft; perforated 33-41 ft		
Soil	4	4
Clay	6	10
Gravel, dirty	6	16
Gravel, coarse	2	18
Gravel, cemented	7	25
Sand and gravel, cemented	15	40
Gravel and black sand, water-bearing	3	43
17S/4W-24bad. Delmer Newman. Altitude 400 ft. Drilled by Carter's Drilling & Pump Service, 1962. Casing: 6-in. diam to 23 ft; unperforated		
Soil, sand, gravel, and small cobbles	12	12
Clay, heavy	7	19
Shale, blue	181	200
17S/4W-24cbc. G. C. Snellstrom. Altitude 404 ft. Drilled by Miller-Jensen Co., 1968. Casing: 6-in. diam to 71 ft; unperforated; screen, slot-size 25, 66-71 ft		
Clay and boulders	20	20
Sand and gravel	10	30
Clay and sand	35	65
Sand and gravel	7	72
"Muck," blue	43	115
17S/4W-25bdc. R. L. Breckweg. Altitude 408 ft. Driven by Miller-Jensen Co. Casing: 2-in. diam to 21 ft; perforated 18½-21 ft		
Soil	3	3
Loam and gravel	11	14
Sand and gravel	7	21
17S/4W-26bbd. D. R. Neal. Altitude 400 ft. Driven by Miller-Jensen Co., 1961. Casing: 2-in. diam to 20 ft; perforated 17½-20 ft		
Soil	2	2
Clay and gravel	16	18
Sand	2	20
17S/4W-27abd. Frank Clearmont. Altitude 395 ft. Drilled by R. E. McTavish, 1961. Casing: 6-in. diam to 73 ft; unperforated		
Loam, sandy	8	8
Sand and gravel	12	20
Gravel, cemented	5	25
Sand and gravel	48	73
17S/4W-27cad. Cascade Resin. Altitude 395 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 10-in. diam to 147 ft; perforated 40-147 ft		
Fill gravel	2	2
Clay	3	5
Sand, gravel, and clay	40	45
Sand and gravel	35	80
Clay and sand, brown	7	87
Clay, blue	18	105
Gravel, cemented	15	120
Gravel and clay, caving	10	130
Sand and gravel	10	140
Clay, blue	7	147
Clay, yellow	3	150
17S/4W-27cca. Lane Plywood. Altitude 395 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 10-in. diam to 147 ft; perforated 35-146 ft		
Clay, gray	7	7
Clay, sand, and gravel, brown, water-bearing	78	85
Clay, blue-gray	25	110
Sand and pea-sized gravel, black	15	125
Clay, blue, and small gravel	10	135
Clay, yellow-brown, some wood, and streaks of blue clay	15	150

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/4W-28dbb. Olsen Manufacturing Co. Altitude 387 ft. Drilled by Curtis E. Miller, 1957. Casing: 5-in. diam to 43 ft; unperforated		
Gravel and sand	18	18
Gravel, cemented	2	20
Gravel and sand	20	40
Gravel, cemented	5	45
17S/4W-29aaa. Cliff Nelson. Altitude 383 ft. Drilled by Wayne Hayes Well Drilling, 1959. Casing: 6-in. diam to 50 ft; perforated 30-49 ft		
Soil and gravel	4	4
Sand and gravel	6	10
Sand and gravel, compacted	6	16
Sand and gravel, loose	4	20
Sand and gravel, compacted	10	30
Sand, tight, water-bearing	2	32
Gravel and sand, compacted	6	38
Sand, tight, water-bearing	5	43
Sand and gravel, loose, water-bearing	3	46
Sand and gravel, tighter than above interval, water-bearing	4	50
17S/4W-29bcc. R. Homrighausen. Altitude 382 ft. Drilled by W. W. Drilling & Pump Service, 1961. Casing: 6-in. diam to 26 ft; perforated 22-26 ft		
Clay, gray	12	12
Clay, brown	7	19
Gravel, cemented	5	24
Sand and gravel	2	26
17S/4W-30aab2. O. V. Bailey. Altitude 387 ft. Drilled by Wayne Hayes Well Drilling, 1960. Casing: 6-in. diam to 35 ft; perforated 30-34 ft		
Soil and clay and sandy clay	27	27
Clay and gravel	3	30
Sand and gravel, water-bearing	4	34
Clay	9	43
Bedrock, blue	2	45
17S/4W-31baa. Kennith Nielsen. Altitude 440 ft. Drilled by Casey Jones Well Drilling Co., 1962. Casing: 6-in. diam to 32 ft; unperforated		
Soil	3	3
Clay, sandy	12	15
Sandstone, broken	15	30
Claystone	48	78
Clay, blue	48	126
17S/4W-31cab. M. E. Long. Altitude 595 ft. Drilled by Northwest Equipment & Drilling Co., 1957. Casing: 6-in. to 41 ft; unperforated		
Clay, yellow, very sandy	20	20
Clay, gray, sandy	11	31
Clay, gray	9	40
Rock, red, medium-hard	6	46
Rock, blue, soft	21	67
Sandstone, brown, soft	11	78
Rock, blue, soft	53	131
Rock, blue, hard	3	134
Rock, blue, soft	20	154
Rock, blue, hard	6	160
17S/4W-31cdd1. L. R. Munsell. Altitude 465 ft. Drilled by Hayes & Page Well Drilling, 1967. Casing: 6-in. diam to 28 ft; unperforated		
Soil	1	1
Clay, brown	13	14
Rock, gray, sedimentary	7	21
Rock, reddish-gray, sedimentary, soft	5	26
Rock, gray, sedimentary, water bearing at approximately 58 ft	42	68
17S/4W-31cdd2. L. R. Munsell. Alt 470 ft. Drilled by Hayes & Page Well Drilling, 1967. Casing: 6-in. diam to 21 ft; unperforated		
Soil	1	1
Clay, brown	15	16
Rock, gray, sedimentary	58	74
Rock, red and gray, sedimentary, soft, caves; water bearing at 50 ft	16	90
Rock, gray, sedimentary	62	152
17S/4W-31dac. Calvin Fisk. Altitude 410 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 42 ft; unperforated		
Clay, light-brown, with streaks of pea-sized gravel	33	33
Shale, multicolored	146	179
Sandstone and medium to coarse blue sand	16	195
17S/4W-32dac. Don Owen. Altitude 460 ft. Drilled by Christensen Drilling & Irrigation, 1957. Casing: 6-in. diam to 18 ft; unperforated		
Soil and clay	6	6
Clay and weathered sandstone	9	15
Sandstone	225	240
Sandstone, blue-gray	200	440
Mudstone, red-brown	10	450
17S/4W-33aba2. West Lawn Memorial Cemetery. Altitude 392 ft. Drilled by Wayne Hayes Well Drilling, 1962. Casing: 8-in. diam to 52 ft; unperforated		
Clay	10	10
Clay and gravel	10	20
Sand, gravel, and clay, small quantity of water	20	40
Sand and gravel, very compact	6	46
Clay	6	52
Claystone or tuffaceous sandstone with occasional lenses of hard sandstone; water bearing at approximately 50, 80, and 90 ft, with increasing quantity of water to 125 ft	178	230
17S/4W-33cba. Lane Memorial Gardens. Altitude 390 ft. Drilled by Wayne Hayes Well Drilling, 1953. Casing: 8-in. diam to 73 ft; unperforated		
Soil and clay	36	36
Sandstone, blue-gray	24	60
Shale, red, soft, caving	10	70
Sandstone, blue-gray	80	150
17S/4W-36bba. Zip O Log. Altitude 400 ft. Drilled by Casey Jones Well Drilling Co., 1962. Casing: 8-in. diam to 154 ft; unperforated		
Old well	90	90
Clay, blue	20	110
Clay, red	25	135
Clay, red and blue	15	150
Shale, brown	30	180
Clay, red, hard	20	200

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/4W-36dc. Eugene Parks-Recreation Dept. Altitude 410 ft. Drilled by W. W. Drilling & Pump Service, 1963. Casing: 8-in. to 26 ft; unperforated		
Soil	3	3
Clay, yellow	18	21
Claystone, blue	229	250
17S/5W-1cbb. Clara Vaughn. Altitude 372 ft. Drilled by Hayes & Page Well Drilling, 1965. Casing: 6-in. diam to 62½ ft; unperforated		
Soil	2	2
Clay, decomposed gravel, sand, and some gravel, brown	43	45
Clay	13	58
Sand and gravel, small quantity of water until final depth reached	4½	62½
17S/5W-2abb. Kenneth Drew. Altitude 378 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 6-in. diam to 61 ft; perforated 18-59 ft		
Soil	8	8
Sand and gravel	53	61
Clay, blue	29	90
17S/5W-3aad. Decker's Nursery. Altitude 360 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 8-in. diam to 114 ft; perforated 30-114 ft		
Soil	2	2
Clay, yellow	54	56
Clay, yellow, and gravel	6	62
Sand, coarse, and gravel	6	68
Gravel, cemented	9	77
Sand and gravel	4	81
Gravel, cemented	11	92
Sand and gravel, loose	13	105
Sand and gravel, cemented	5	110
Sand, gravel, and clay	10	120
Clay, blue	10	130
Clay, dark-gray	30	160
17S/5W-5cbb. Clyne Funk. Altitude 400 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 6-in. diam to 53 ft; unperforated		
Soil	3	3
Clay, yellow	21	24
Gravel, loose	24	48
Shale, black, and claystone	8	56
Sandstone, gray, with layer of shale	84	140
17S/5W-6bda. K. W. Brabham. Altitude 520 ft. Drilled by Hayes & Page Well Drilling, 1968. Casing: 6-in. diam to 19½ ft; unperforated		
Soil	1½	1½
Clay, brown	12½	14
Rock, gray, water bearing between 30 and 40 ft	109	123
17S/5W-6dad. Stewart Sether. Altitude 400 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 6-in. diam to 50 ft; unperforated		
Soil	3	3
Clay, yellow	15	18
Gravel	29	47
Sandstone, with lenses of shale	113	160
17S/5W-7cdd. Bert Murdock. Altitude 400 ft. Drilled by Christensen Drilling & Irrigation to depth of 43 ft in 1960; deepened by Jones Well Drilling to 100 ft in 1967. Casing: 6-in. diam to 49 ft; unperforated		
Clay	12	12
Clay and weathered sandstone	6	18
Sand, with some gravel	17	35
Sand	5	40
Sand, coarse, and gravel	3	43
Sand, coarse, and fine gravel	4	47
Shale, gray	42	89
Shale, gray, layered with clay	11	100
17S/5W-7dda. Howard Lunceford. Altitude 390 ft. Drilled by Hayes & Page Well Drilling, 1966. Casing: 6-in. diam to 59½ ft; unperforated		
Soil	2	2
Clay, brown	6	8
Clay, sandy, with some small brown gravel	44	52
Sand and gravel, with clay	7½	59½
Sand and gravel, brown, water-bearing	½	60
Sand and gravel	1	61
17S/5W-10aad. Mrs. Nona M. Huey. Altitude 360 ft. Drilled by C. E. Gordinier & Son Drilling Co., 1960. Casing: 6-in. diam to 106 ft; unperforated		
Clay and sand	60	60
Sand, fine, and silt	40	100
Gravel, cemented	6	106
Gravel	2	108
17S/5W-11abb. A. B. C. Auto Wreckers. Altitude 380 ft. Drilled by W. W. Drilling & Pump Service, 1966. Casing: 6-in. diam to 124 ft; unperforated		
Clay, yellow	40	40
Clay, yellow, sandy	4	44
Clay, sandy, and small gravel	11	55
Sand and clay	40	95
Sand and gravel	34	129
17S/5W-12ada. L. R. Andrus. Altitude 375 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 6-in. diam to 63 ft; unperforated		
Soil and clay	25	25
Clay, sandy, with gravel	10	35
Sand and gravel	4	39
Clay, sandy	11	50
Clay, sandy, with gravel	2	52
Clay, sandy	11	63
Sand and gravel	1	64
17S/5W-13bdd. Ebert Griesel. Altitude 390 ft. Drilled by Wayne Hayes Well Drilling, 1960. Casing: 8-in. diam to 96½ ft; perforated 71-96 ft		
Soil and reddish clay, with some sand and fine gravel	34	34
Clay, reddish-brown, with greater amount and larger gravel than above interval. Contains some sand and a small quantity of water	15	49
Clay, considerably less than above interval, with increasing amount of sand and gravel	8	57
Clay and sandy clay; some water	6	63
Sand, gravel, and clay, compacted	7	70
Gravel and sand, water-bearing	26½	96½

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/5W-20ada2. Donald Brinton. Altitude 390 ft. Drilled by Hayes & Page Well Drilling, 1969. Casing: 6-in. diam to 120 ft; unperforated		
Soil	2	2
Clay, brown	24	26
Gravel, sand, and clay, brown	8	34
Gravel and sand	9	43
Gravel and clay	7	50
Sand and gravel, fairly compacted	13	63
Gravel and clay	11	74
Sand and gravel, sandy	31	105
Clay, blue-gray	15	120
Sand, water-bearing	5	125
17S/5W-24acb. C. W. Thornton. Altitude 380 ft. Drilled by Hayes & Page Well Drilling, 1964. Casing: 6-in. diam to 50½ ft; unperforated		
Soil	3	3
Clay, brown and gray	18	21
Sand and gravel, brown, compacted	16	37
Clay and sand, brown, soft	3	40
Sand and gravel, tight	8	48
Sand and gravel, brown, water-bearing	3	51
17S/5W-24ccc. Lyman Rowe. Altitude 385 ft. Drilled by Hayes & Page Well Drilling, 1966. Casing: 6-in. diam to 20 ft; unperforated		
Soil	2	2
Clay, brown	4	6
Rock, brown, weathered	4	10
Rock, brown	8½	18½
Rock, gray or blue-gray, water-bearing	51½	70
17S/5W-25aac. R. G. Gentry. Altitude 410 ft. Drilled by Hayes & Page Well Drilling, 1965. Casing: 6-in. diam to 19½ ft; unperforated		
Soil and clay	7	7
Sandstone and claystone; a trickle of water at 88 ft and about 4½ gpm at approximately 240 ft. Water was determined to be saline	235	242
17S/5W-29abb. Seventh Day Bethal Assoc. Altitude 400 ft. Drilled by O. B. Nye, 1968. Casing: 5-in. diam to 97 ft; perforated 93-97 ft		
Clay, yellow	16	16
Clay, yellow and gray	11	27
Clay, brown, sandy	41	68
Gravel, cemented	27	95
Gravel, medium-sized, water-bearing	2	97
17S/5W-29dcd. Girl Scout Camp. Altitude 390 ft. Drilled by R. E. McTavish, 1958. Casing: 5-in. diam to 90 ft; unperforated		
Soil	5	5
Clay, brown	35	40
Sand	5	45
Clay, blue	3	48
Shale, black	42	90
17S/5W-30dda. Elmer Thielman. Altitude 390 ft. Drilled by Dell Page, 1962. Casing: 6-in. diam to 69 ft; unperforated		
Soil, brown, sandy	2	2
Clay, brown, sandy	6	8
Clay, brown, heavy	12	20
Clay, blue, heavy, changing to sandy at bottom of stratum	18	38
Sand and gravel, blue, mostly consolidated; small quantity of water	32	70
17S/5W-31bca1. City of Veneta. Altitude 410 ft. Drilled by Carter's Drilling & Pump Service, 1967. Casing: 12-in. diam to 76 ft, 10-in. diam 72-79 ft and 119-124 ft; 10-in. screen, slot-size 50, 79-96 ft; 10-in. screen, slot-size 100, 96-119 ft		
Soil	4	4
Clay, yellow	42	46
Sand and coarse gravel	11	57
Sand, fine	7	64
Sand, coarse	15	79
Sand, coarse, and gravel	45	124
17S/5W-31bca2. City of Veneta. Altitude 410 ft. Drilled by Carter's Drilling & Pump Service, 1967. Casing: 12-in. diam to 73 ft, 10-in. diam 69-75 ft and 115-120 ft; 10-in. screen, slot-size 100, 75-115 ft		
Soil	4	4
Clay, yellow	41	45
Clay, red, mixed with gravel	11	56
Sand and gravel, with some clay	8	64
Sand and gravel	22	86
Sand and coarse gravel	30	116
Shale, blue, soft	4	120
17S/5W-33abb. Leon Keeney. Altitude 378 ft. Drilled to 41 ft, 1962, and deepened to 70 ft, 1966, by W. W. Drilling & Pump Service. Casing: 6-in. diam to 65 ft; perforated 47-50 ft		
Soil	2	2
Clay, yellow	16	18
Clay, blue	22	40
Sand, black, and gravel	1	41
Gravel, gray, cemented	7	48
Sand, black	2	50
Clay, blue-gray	10	60
Clay, gray	5	65
Clay, brown	5	70
17S/5W-33ada1. Bartels' Meat. Altitude 378 ft. Drilled by Wayne Hayes Well Drilling, 1962. Casing: 6-in. diam to 88 ft; unperforated		
Clay, yellow	25	25
Mudstone, blue-gray	55	80
Sandstone, with streaks of blue mud	18	98
Sandstone, soft, water-bearing (600 gal per hr)	1	99
Sandstone and mudstone (no increase in water)	61	160
17S/5W-36adb. Bonneville Power Adm. Altitude 398 ft. Drilled by Carter's Drilling & Pump Service, 1966. Casing: 16-in. diam to 50 ft; 6-in diam to 187 ft; 6-in. screen, slot-size 18, 187-197 ft		
Soil	2	2
Clay, brown	13	15
Shale, blue	185	200

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/5W-36baa. R. E. Pettie. Altitude 450 ft. Drilled by O. B. Nye, 1968. Casing: 4-in. diam to 84 ft; unperforated		
Soil and yellow clay	7	7
Sandstone, brown	29	36
Shale, yellow and gray	40	76
Claystone, gray	34	110
Sandstone, gray	8	118
Shale, gray, water-bearing	1	119
Sandstone, gray, hard	11	130
17S/6W-1bac. Archie Moor. Altitude 650 ft. Drilled by Christensen Drilling & Irrigation, 1964. Casing: 6-in. diam to 35 ft; unperforated		
Clay and weathered sandstone	29	29
Sandstone, blue-gray	103	132
17S/6W-2dcc. Glenn Anderson. Altitude 675 ft. Drilled by Casey Jones Well Drilling Co., 1966. Casing: 6-in. diam to 63 ft; unperforated		
Soil	2	2
Clay, yellow	55	57
Sandstone, blue	173	230
17S/6W-12bda. Ken Johnson. Altitude 650 ft. Drilled by Hayes & Page Well Drilling, 1967. Casing: 6-in. diam to 43 ft; unperforated		
Soil	2	2
Clay, brown	38	40
Rock, gray, sedimentary, water-bearing	63	103
17S/6W-13aad. Darrell Smith. Altitude 470 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 6-in. diam to 22 ft; unperforated		
Soil and sandstone	14	14
Sandstone, blue	71	85
17S/6W-13cca. J. E. Bown. Altitude 500 ft. Drilled by O. B. Nye, 1968. Casing: 5-in. diam to 26 ft; unperforated		
Soil and yellow clay	9	9
Clay, yellow and gray, sandy	6	15
Claystone, gray	27	42
Shale, gray, water-bearing	2	44
Sandstone, gray, hard	6	50
17S/6W-13dba. H. L. Jacobson. Altitude 550 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 42 ft; unperforated		
Clay	40	40
Claystone	12	52
Sandstone, blue	9	61
Sandstone, blue-gray	39	100
17S/6W-14ada. A. E. McPheeters. Altitude 520 ft. Drilled by Hayes & Page Well Drilling, 1966. Casing: 6-in. diam to 39 ft; unperforated		
Soil	2	2
Clay, brown	35	37
Rock, gray, sedimentary, water-bearing	23	60
17S/6W-14dac. J. E. Bown. Altitude 540 ft. Drilled by Christensen Drilling & Irrigation, 1959. Casing: 6-in. diam to unknown depth; unperforated		
Soil and clay	16	16
Sandstone, blue-gray, with thin shale beds	192	208
17S/6W-23ada. Walter Jenkins. Altitude 465 ft. Drilled by Page Well Drilling & Supply, 1963. Casing: 6-in. diam to 53 ft; unperforated		
Soil, brown, sandy	2	2
Clay, brown	18	20
Clay, blue	20	40
Sand, gravel, and blue clay	8	48
Sand and gravel, blue, heavey	4	52
Sand, coarse, and medium-sized gravel, blue, water-bearing	1	53
17S/6W-23dcb. R. A. Stone. Altitude 455 ft. Drilled by Christensen Drilling & Irrigation, 1960. Casing: 6-in. diam to 76 ft		
Clay	20	20
Sand and clay	18	38
Gravel and sand	3	41
Gravel and marine sand	9	50
Gravel, coarse, and black sand	5	55
Sand, gray, and some gravel	19	74
Gravel, dark-colored	3	77
17S/6W-24dcb. Elmira High School. Altitude 380 ft. Drilled by Christensen Drilling & Irrigation, 1963. Casing: 10-in. diam to 111 ft; unperforated		
Clay	10	10
Sand, cemented	22	32
Gravel and sand, cemented	23	55
Gravel and sand	43	98
Clay, blue	13	111
Sandstone, blue	2	113
Sand and gravel	7	120
17S/6W-25aaa. Elmira Junior High School. Altitude 375 ft. Drilled by Casey Jones Well Drilling, 1958. Casing: 8-in. diam to 78 ft; perforated 48-78 ft		
Soil	5	5
Mud, sand, gravel, and boulders	75	80
Bedrock, gray	20	100
17S/6W-25acb. Edward Utter. Altitude 375 ft. Drilled by Page Well Drilling & Supply, 1963. Casing: 6-in. diam to 59 ft; unperforated		
Soil, brown	2	2
Clay, sandy, brown	13	15
Clay and gravel, brown, sandy	13	28
Sand, gravel, and clay, brown	10	38
Sand and gravel, blue, fairly compacted	7	45
Sand and gravel, water-bearing	3	48
Sand and gravel, with lots of sand in parts; not much water until last 2-3 ft. Coarse gravel at final depth	11	59

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
17S/6W-25cab. Darrel Kau. Altitude 400 ft. Drilled by Hayes & Page Well Drilling, 1967. Casing: 6-in. diam to 51 ft; unperforated		
Soil	2	2
Clay, brown	21	23
Clay and gravel, brown	13	36
Clay and gravel, blue	7	43
Clay, gravel, and brown sand	9	52
Rock, gray, sedimentary, about 1 gpm of water found in upper part of formation	101	153
17S/6W-36adc. Gladys Jorgensen. Altitude 400 ft. Drilled by Miller-Jensen Co., 1966. Casing: 6-in. diam to 82 ft; unperforated		
Clay	60	60
Sand and gravel	22	82
17S/6W-36cdd. Waldo Hunter. Altitude 500 ft. Drilled by Hayes & Page Well Drilling, 1964. Casing: 6-in. diam to 50 ft; unperforated		
Soil	2	2
Clay, reddish-brown	46	48
Rock, gray and blue-gray	303	351
17S/6W-36dca. O. E. Williams. Altitude 440 ft. Drilled by R. E. McTavish, 1959. Casing: 6-in. diam to 90 ft; perforated 68-86 ft		
Soil	4	4
Clay, yellow	21	25
Clay, gray	20	45
Shale, tan	10	55
Shale, black	36	91
18S/2W-4bdd. W. W. Dow. Altitude 500 ft. Drilled by Elvin F. Deng, 1956. Casing: 6-in. diam to 84 ft; unperforated		
Soil	1	1
Clay, boulders, and gravel	7	8
Gravel, sand, and boulders	14	22
Boulders and clay	9	31
Clay, yellow, soft, very sticky	36	67
Clay, white, soft, sticky	11	78
Rock, blue	60	138
Rock, red	33	171
Rock, gray, salt and pepper color	18	189
Rock, blue, very hard	50	239
18S/2W-4dab2. C. C. Crone. Altitude 575 ft. Drilled by W. W. Drilling & Pump Service, 1963. Casing: 6-in. diam to 48 ft; unperforated		
Soil	3	3
Clay, red	15	18
Clay, yellow, sandy	24	42
Sandstone, brown	18	60
Claystone, blue	50	110
18S/2W-5add. C. A. Keever. Altitude 490 ft. Drilled by C. E. Gordinier & Son Drilling Co., 1968. Casing: 6-in. diam to 35 ft; unperforated		
Loam, brown	3	3
Gravel, seam	15	18
Clay	4	22
Bedrock, gray	58	80
18S/2W-5bda. L. L. Patrick. Altitude 490 ft. Drilled by Casey Jones Well Drilling Co., 1966. Casing: 6-in. diam to 55 ft; unperforated		
Soil	4	4
Boulders and gravel	10	14
Gravel, brown	14	28
Boulders and gravel	14	42
Rock, gray	13	55
18S/2W-6adb. D. G. Healey. Altitude 482 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 21 ft; unperforated		
Clay, yellow	15	15
Rock, blue, fractured	4	19
Claystone, blue	156	175
Sandstone, blue	14	189
Claystone, blue	9	198
Lava rock, brown	4	202
Rock, gray, limey	5	207
Sandstone, blue, soft	58	265
18S/2W-6bad. R. L. Chadburn. Altitude 480 ft. Drilled by W. W. Drilling & Pump Service, 1962. Casing: 6-in. diam to 55 ft; unperforated		
Soil, sandy	7	7
Sand and gravel, coarse	13	20
Sand and gravel, fine	25	45
Sand and gravel, cemented	8	53
Sand, coarse, and medium-sized gravel	2	55
18S/2W-6dba. Howard Jenkins. Altitude 470 ft. Drilled by Bonnie Brae Well Drilling, 1962. Casing: 6-in. diam to 39 ft; unperforated		
Loam, sandy	9	9
Sand, gravel, and boulders	11	20
Clay and gravel, sandy	12	32
Sand and small gravel	6	38
18S/2W-10dac1. Gordon Tripp. Altitude 720 ft. Drilled by Carter's Drilling & Pump Service, 1956. Casing: 6-in. diam to 15 ft; unperforated		
Shale, yellow	12	12
Rock, blue	204	216
18S/2W-10dad. D. K. Mitchel. Altitude 720 ft. Drilled by Carter's Drilling & Pump Service, 1963. Casing: 6-in. diam to 42 ft; unperforated		
Soil	6	6
Shale, red	20	26
Rock, brown, soft	9	35
Bedrock, blue	117	152
18S/2W-11adb. Robert Barrett. Altitude 1,170 ft. Drilled by Casey Jones Well Drilling Co., 1965. Casing: 6-in. diam to 21 ft; unperforated		
Soil	3	3
Conglomerate, red and black	32	35
Basalt, black	80	115
Conglomerate, blue and gray	265	380
18S/2W-11dbc. R. G. Reynolds. Altitude 870 ft. Drilled by Casey Jones Well Drilling Co., 1964. Casing: 6-in. diam to 20 ft; unperforated		
Clay, yellow	3	3
Sandstone, brown	10	13
Sandstone, blue	492	505

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
18S/2W-11ddc. Howard Mart. Altitude 780 ft. Drilled by Carter's Drilling & Pump Service, 1964. Casing: 6-in. diam to 20 ft; unperforated		
Soil	3	3
Clay	11	14
Claystone, blue	156	170
18S/2W-12ccb. Arthur Davisson. Altitude 820 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 6-in. diam to 36 ft; unperforated		
Soil	2	2
Clay and boulders	27	29
Clay, yellow	6	35
Soapstone, blue	2	37
Sandstone, blue	153	190
Sandstone, gray	10	200
Rock, gray	10	210
18S/2W-14bca. R. J. Frisendahl. Altitude 620 ft. Drilled by Eastwood Water Well Drilling, 1966. Casing: 6-in. diam to 21 ft; unperforated		
Soil, brown	8	8
Clay, gray	7	15
Claystone, gray	43	58
Clay, gray	2	60
Claystone, gray	15	75
Clay, gray	5	80
Claystone, gray, hard	20	100
Claystone, gray	10	110
Claystone, gray, hard	40	150
18S/3W-1dbc1. Pacific Power & Light Co. Altitude 458 ft. Drilled by Carter's Drilling & Pump Service, 1965. Casing: 16-in. diam to 55 ft; perforated 22-47 ft		
Soil	6	6
Gravel, sand, and small cobbles	4	10
Gravel, coarse, and heavy clay	11	21
Sand, gravel, and a little clay	3	24
Sand, clean, and gravel	6	30
Sand, gravel, and clay	25	55
18S/3W-1dca. Pacific Power & Light Co. Altitude 458 ft. Drilled by Carter's Drilling & Pump Service, 1965. Casing: 16-in. diam to 55 ft; perforated 22-47 ft		
Loam, sandy	6	6
Sand and heavy gravel, with clay	16	22
Sand, gravel, and a little clay	4	26
Clay, heavy, and gravel	12	38
Clay, with gravel	17	55
18S/3W-1dda. Pacific Power & Light Co. Altitude 465 ft. Drilled by Carter's Drilling & Pump Service, 1956. Casing: 12-in. diam to 30 ft; perforated 12-30 ft		
Loam, sandy	3	3
Sand, gravel, and small boulders	10	13
Sand, fine, and gravel	5	18
Gravel and small boulders	8	26
Gravel and boulders, slightly cemented	4	30
18S/3W-2bdb. S. W. Alexander. Altitude 500 ft. Driller unknown; drilled 1952. Casing: 4-in. diam to 22 ft; unperforated		
Soil	6	6
Shale, red	13	19
Bedrock, blue	68	87
18S/3W-6aca. Pauline Olson. Altitude 480 ft. Drilled by Miller-Jensen Co., 1965. Casing: 6-in. diam to 20 ft; unperforated		
Clay	3	3
Shale and rock, brown	22	25
Shale, blue	135	160
18S/3W-7bdb. W. L. Morse. Altitude 665 ft. Drilled by Christensen Drilling & Irrigation, 1956. Casing: 8-in. diam to 22 ft, 6-in. diam to 139 ft; unperforated		
Soil and clay	12	12
Sandstone, blue-gray, tuffaceous, with hard black flecks	76	88
Tuff, soft, friable, with feldspar	44	132
Sandstone, gray, tuffaceous	18	150
Sandstone, blue-gray, tuffaceous	55	205
Sandstone, blue-gray, hard, marine	25	230
18S/3W-8caa. Carl Goddard. Altitude 465 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 27 ft; unperforated		
Soil	4	4
Clay, black	17	21
Sandstone, blue	11	32
Shale, blue, red, and green	152	184
Sandstone, blue, hard	16	200
18S/3W-9dac2. Vern Warnock. Altitude 640 ft. Drilled by Casey Jones Well Drilling Co., 1965. Casing: 6-in. diam to 84 ft; unperforated		
Soil and brown clay	3	3
Clay, yellow	19	22
Sandstone, blue, soft	58	80
Sandstone, blue	170	250
18S/3W-10cab. D. R. Chamberlain. Altitude 560 ft. Drilled by Casey Jones Well Drilling Co., 1963. Casing: 6-in. diam to 20 ft; unperforated		
Soil and brown clay	5	5
Clay, blue	57	62
Sandstone, gray	22	84
Clay, blue	18	102
18S/3W-11cdc. Mobil Oil Co. Altitude 490 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 42 ft and 5-in. diam 28-175 ft; perforated 28-175 ft		
Gravel fill	2	2
Clay	13	15
Claystone	25	40
Claystone, blue to gray	40	80
Rock, blue, soft	11	91
Rock, blue	29	120
Claystone, gray, shaley	18	138
Rock, blue	17	155
Rock, blue, soft, shaley	7	162
Rock, blue	13	175
18S/3W-12ddd. Harold Estep. Altitude 469 ft. Drilled by W. W. Drilling & Pump Service, 1967. Casing: 6-in. diam to 65 ft; perforated 18-48 ft		
Soil	8	8
Gravel, cemented	10	18
Sand and gravel, loose	4	22
Gravel, cemented	8	30
Sand and gravel, loose	12	42
Gravel, cemented	8	50
Sand and gravel, loose	15	65

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
18S/3W-13ccb. Oak Mobile Trailer Park. Altitude 470 ft. Drilled by W. W. Drilling & Pump Service, 1968. Casing: 6-in. diam to 20 ft; unperforated		
Soil	4	4
Clay, blue	10	14
Rock, black	26	40
Rock, blue	65	105
Sandstone, blue	15	120
18S/3W-14aaa. R. S. Willoughby. Altitude 460 ft. Drilled by Carter's Drilling & Pump Service, 1964. Casing: 6-in. diam to 57 ft; perforated 20-25 ft		
Old well	30	30
Sand, medium-sized, and gravel	23	53
Claystone, blue	4	57
18S/3W-17aac. G. W. Shafer. Altitude 725 ft. Drilled by Christensen Drilling & Irrigation, 1959. Casing: 6-in. diam to 37 ft; unperforated		
Rock and soil, loose	12	12
Sandstone, brown	18	30
Sandstone, blue-gray	238	268
18S/4W-1cbb. Mrs. C. R. Knorr. Altitude 570 ft. Drilled by Curtis E. Miller, 1955. Casing: 6-in. diam to 15 ft; unperforated		
Soil	4	4
Bedrock, very hard	44	48
18S/4W-3cad. Nils Hult. Altitude 560 ft. Drilled by Christensen Drilling & Irrigation, 1957. Casing: 6-in. diam to unknown depth; unperforated		
Sandstone and clay, weathered	33	33
Sandstone, blue-gray, tuffaceous	51	84
Sandstone, red, tuffaceous, soft	38	122
Sandstone, blue-gray, tuffaceous; no water until 230 ft	119	241
18S/4W-3dac. Merrill Manley. Altitude 570 ft. Drilled by Casey Jones Well Drilling Co., 1959. Casing: 6-in. diam to 49 ft; unperforated		
Soil	2	2
Boulders and mud	71	73
Lava rock	41	114
Bedrock	18	132
18S/4W-5acd. R. E. McGowan. Altitude 610 ft. Drilled by Casey Jones Well Drilling Co., 1963. Casing: 6-in. diam to 40 ft; unperforated		
Soil	4	4
Clay, yellow-brown	31	35
Claystone, blue-gray	35	70
Claystone, red, hard	5	75
Claystone, blue-gray, hard	325	400
18S/4W-5dba. R. E. McGowan. Altitude 520 ft. Drilled by Casey Jones Well Drilling Co., 1965. Casing: 6-in. diam to 21 ft; unperforated		
Clay, yellow	13	13
Sandstone, blue-gray	187	200
18S/4W-6abc. N. O. Hess. Altitude 520 ft. Drilled by Christensen Drilling & Irrigation, 1964. Casing: 6-in. diam to 55 ft; unperforated		
Old well	20	20
Tuff, faulted	30	50
Tuff	50	100
18S/4W-7cdd. Royal Sanders. Altitude 560 ft. Drilled by W. W. Drilling & Pump Service, 1964. Casing: 6-in. diam to 24 ft; unperforated		
Soil	3	3
Clay, yellow	15	18
Claystone, blue	232	250
18S/4W-8dda. John Koffler. Altitude 850 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 6-in. diam to 231 ft; unperforated		
Sandstone	41	41
Tuff, white, hard	48	89
Tuff, light-brown, hard	14	103
Tuff, dark-gray, hard	19	122
Tuff, green-gray	43	165
Tuff, dark-gray	13	178
Tuff, red	9	187
Tuff, gray	8	195
Tuff, red	7	202
Tuff, gray	17	219
Tuff, red	12	231
Tuff, gray, water-bearing	33	264
18S/4W-9abc. Douglas Marks. Altitude 550 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 21 ft; unperforated		
Clay, brown, with streaks of coarse sand	16	16
Sandstone, blue, and shale	18	34
Sandstone, blue, hard	56	90
Sandstone, blue, with streaks of hard blue shale	167	257
Shale, blue, soft, and coarse blue sand	15	272
18S/4W-12abd. Al Stiffler. Altitude 600 ft. Drilled by Casey Jones Well Drilling Co., 1963. Casing: 6-in. diam to 23 ft; unperforated		
Soil	2	2
Clay, yellow	16	18
Basalt	97	115
Sandstone, blue	107	222
18S/4W-12bcc. Gordan Moore. Altitude 780 ft. Drilled by Christensen Drilling & Irrigation, 1958. Casing: 6-in. diam to 71 ft; unperforated		
Clay and boulders	44	44
Sandstone, blue-gray, tuffaceous	35	79
Sandstone, red, broken, tuffaceous	4	83
Basalt	18	101
Sandstone, tuffaceous	109	210

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
18S/4W-12cbd. J. D. Vasey. Altitude 740 ft. Drilled by Carter's Drilling & Pump Service, 1957. Casing: 5-in. diam to 12 ft; unperforated		
Soil	10	10
Clay, brown	18	28
Bedrock, blue, soft	19	47
Bedrock, hard	4	51
Bedrock, blue	7	58
Clay, red	7	65
Bedrock, red	24	89
Clay, red	10	99
Bedrock, blue	3	102
Bedrock, red	2	104
Bedrock, blue	11	115
18S/4W-14acb. Ernest Muster. Altitude 810 ft. Drilled by Christensen Drilling & Irrigation, 1959. Casing: 5-in. diam to 334 ft; unperforated		
Clay and rock fragments	16	16
Basalt	165	181
Sandstone, tuffaceous	149	330
Sandstone, marine	172	502
18S/4W-16aad. David Smothers. Altitude 770 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 63 ft, 5-in. diam 60-250 ft; perforated 200-250 ft		
Clay	22	22
Claystone, blue	113	135
Rock, gray, limey	7	142
Rock, brown, firm	10	152
Rock, blue-gray	66	218
Rock, blue-green	24	242
Shale, blue	8	250
18S/4W-17abd. Robert Sage. Altitude 640 ft. Drilled by Christensen Drilling & Irrigation, 1967. Casing: 6-in. diam to 80 ft; unperforated		
Soil	4	4
Clay and sandstone	14	18
Sandstone, grayish blue-green	14	32
Sandstone, dark-gray	5	37
Sandstone, blue-gray	32	69
Sandstone, greenish-gray	12	81
Sandstone, dark blue-gray	26	107
Sandstone, light blue-gray	11	118
Sandstone, dark-blue	77	195
Sandstone, light-gray	26	221
Sandstone, dark-blue	29	250
18S/4W-18adb. Norman Pohll. Altitude 525 ft. Drilled by W. W. Drilling & Supply, 1966. Casing: 6-in. diam to 140 ft; unperforated		
Soil	4	4
Clay, yellow	9	13
Rock, black	84	97
Shale, multicolored, decomposed	23	120
Rock, blue	50	170
18S/4W-18dda. S. H. Wingfield. Altitude 460 ft. Drilled by Christensen Drilling & Irrigation, 1964. Casing: 6-in. diam to 20 ft; unperforated		
Soil and clay	10	10
Sandstone, blue	22	32
Sandstone, blue-gray	4	36
Sandstone, light-gray	29	65
18S/5W-1cda. John Trank. Altitude 540 ft. Drilled by Christensen Drilling & Irrigation, 1964. Casing: 8-in. diam to 50 ft; unperforated		
Clay, yellow and blue	40	40
Rock, blue	8	48
Fault "gouge"	1	49
Sandstone, light blue-gray	94	143
18S/5W-3aba. N. E. Ream. Altitude 400 ft. Drilled by Casey Jones Well Drilling Co., 1960. Casing: 6-in. diam to 31 ft; unperforated		
Soil	2	2
Clay	10	12
Bedrock	44	56
18S/5W-4aca. Theron Swanson. Altitude 400 ft. Drilled by Hayes & Page Well Drilling, 1967. Casing: 6-in. diam to 41 ft; unperforated		
Soil	2	2
Clay, brown	35	37
Rock, gray, sedimentary, water bearing at approximately 60-65 ft	133	170
18S/5W-4bbd. Bernard Braun. Altitude 400 ft. Drilled by C. E. Gordinier & Son Drilling Co., 1969. Casing: 6-in. diam to 20 ft; unperforated		
Clay, yellow	10	10
Clay, brown	2	12
Clay, blue	2	14
Shale, brown, sandy	1	15
Rock, blue, sedimentary	35	50
Rock, blue, sedimentary, fragmented or broken	1	51
Rock, blue, sedimentary	1	52
18S/5W-4bca. L. L. Pocholec. Altitude 400 ft. Drilled by Wayne Hayes Well Drilling, 1960. Casing: 6-in. diam to 118 ft; unperforated		
Clay, varicolored	118	118
Shale, dark-gray	88	206
18S/5W-5bbc. Carl Pruett. Altitude 400 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 144 ft; unperforated		
Soil	2	2
Clay, yellow, sandy, soft	8	10
Clay, yellow, sticky, soft	5	15
Clay, yellow, sandy, soft	8	23
Clay, brown, sandy, soft	11	34
Clay, yellow, sandy, soft	8	42
Clay, red, sticky	4	46
Clay, brown, sandy	38	84
Sand and gravel, cemented	15	99
Sand and gravel, cemented, coarse	3	102
Sand, soft, fine, packed, and clay	8	110
Sand and silt, coarse	17	127
Gravel, small, and sand and silt	17	144
18S/5W-5cba. Jerry McNew. Altitude 400 ft. Drilled by Hayes & Page Well Drilling, 1967. Casing: 6-in. diam to 115 ft; unperforated		
Soil	2	2
Clay, brown	53	55
Sand and clay	8	63
Clay, gray	30	93
Sand, clay, and rotten wood, water-bearing	9	102
Sand and some rotten wood, water-bearing	15	117

Table 2.--Drillers' logs of representative wells--Continued

Materials	Thickness (feet)	Depth (feet)
18S/5W-6abb. Andrew Kirkpatrick. Altitude 420 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 6-in. diam to 73 ft; unperforated		
Clay, brown	24	24
Clay, blue	23	47
Sand, black	26	73
Sand, gray	5	78
18S/5W-6bca. Walter Taff. Altitude 420 ft. Drilled by Hayes & Page Well Drilling, 1967. Casing: 6-in. diam to 82 ft; unperforated		
Soil	2	2
Clay, brown	8	10
Clay, brown, sandy	10	20
Clay, brown	30	50
Clay, blue-gray	19	69
Clay and fine sand, gray	9	78
Gravel and fine sand, water-bearing	4	82
18S/5W-6cbb. Bill Hartman. Altitude 430 ft. Drilled by Hayes & Page Well Drilling, 1967. Casing: 6-in. diam to 119 ft; unperforated		
Soil	2	2
Clay, brown	18	20
Clay, gray	15	35
Clay, brown	24	59
Clay, brown, lower part dark gray and sandy; some water	41	100
Clay and sand strips, water-bearing	15	115
Clay, gray	4	119
Sand, brown, water-bearing	2	121
18S/5W-7add. Travis Fox. Altitude 500 ft. Drilled by Casey Jones Well Drilling Co., 1967. Casing: 6-in. diam to 63 ft; unperforated		
Soil	2	2
Clay, red, soft	8	10
Clay, yellow, sandy, soft	45	55
Shale, gray	21	76
Shale, red and gray	4	80
18S/5W-7bad. Norman Fleck. Altitude 480 ft. Drilled by Christensen Drilling & Irrigation, 1965. Casing: 6-in. diam to 118 ft; perforated 65-115 ft		
Soil and clay	48	48
Sandstone, blue	17	65
Sandstone, blue-gray	70	135
18S/5W-9bba1. Central School. Altitude 400 ft. Drilled by Christensen Drilling & Irrigation, 1966. Casing: 6-in. diam to 18 ft; unperforated		
Soil and sandy clay	11	11
Clay, light-gray, soft	11	22
Clay, light-gray, hard	1	23
Clay, light-gray, soft	10	33
Clay, very dark-gray, soft	61	94
Clay, light-gray, fine	14	108
Shale, dark-brown	1	109
Shale, light-gray, large-grained	1	110
Shale, light-gray, soft, sandy	10	120
Mudstone, gray	8	128
Sandstone, gray, fine	12	140
Sandstone, brownish-gray, fine	14	154
Sandstone, light-gray, coarse	9	163
Sandstone, brownish-gray	59	222
Sandstone, light-gray	19	241
Sandstone, light-gray, hard	2	243
Sandstone, light-gray, soft	7	250
18S/5W-12baa. Emil Benson. Altitude 485 ft. Drilled by Wayne Hayes Well Drilling, 1961. Casing: 6-in. diam to 22 ft; unperforated		
Clay and weathered tuff	18	18
Bedrock	123	141
18S/5W-12bdd. Mr. Gruing. Altitude 400 ft. Drilled by Wayne Hayes Well Drilling, 1960. Casing: 6-in. diam to 20 ft; unperforated		
Soil, clay, and boulder or two	7	7
Hard sedimentary-type rock formation, gray, water-bearing	54	61
18S/5W-15acb. Bill Chada. Altitude 450 ft. Drilled by W. W. Drilling & Pump Service, 1966. Casing: 6-in. diam to 27 ft; unperforated		
Clay, yellow	7	7
Shale, light-gray	43	50
Sandstone, gray, soft	50	100
18S/5W-17bad. Clyda Youngblood. Altitude 500 ft. Drilled by Wayne Hayes Well Drilling, 1960. Casing: 6-in. diam to 27 ft; unperforated		
Soil and clay	25	25
Sandstone and shale, gray	76	101
18S/5W-18cab. Harry Williamson. Altitude 700 ft. Drilled by Pitcher Pump & Drilling Co., 1968. Casing: 6-in. diam to 41 ft; unperforated		
Sandstone, weathered	35	35
Sandstone, gray, coarse	30	65
Sandstone, gray, hard, coarse	1	66
Sandstone, gray, coarse, soft	5	71
Sandstone, gray, coarse, hard	1	72
Sandstone, gray, coarse, soft	17	89
Sandstone, gray-blue, coarse	13	102
Sandstone, gray, coarse	45	147
Sandstone, gray, hard, coarse	1	148
Sandstone, gray, coarse, soft	10	158
Sandstone, dark-gray, soft	3	161
Sandstone, light-gray, hard	1	162
Sandstone, light-gray, soft	22	184
Sandstone, dark-gray, coarse, soft	56	240
18S/6W-1cbc. Leon Collver. Altitude 525 ft. Drilled by Hayes & Page Well Drilling, 1968. Casing: 6-in. diam to 45 ft; unperforated		
Soil	2	2
Clay	37	39
Rock, gray, sedimentary; first water at approximately 65 ft, increased in drilling to about 73 ft. Small increase 93-106 ft	67	106
18S/6W-1ddd. Clark White. Altitude 450 ft. Drilled by Christensen Drilling & Irrigation, 1964. Casing: 6-in. diam to 143 ft; unperforated		
Clay and sand	92	92
Sand, brown	47	139
Sandstone, blue-gray	48	187
Rock, gray, sandy, fractured	3	190

Table 3.--Records of representative springs in the Eugene-Springfield area

Spring number	Owner	Altitude (feet)	Geologic source	Occurrence	Yield		Use	Conductivity 1/	Remarks
					Gallons per minute	Date			
15S/5W-29ddds	B. H. Davis	335	Sandstone	Flows from small ravine	2-3	5-20-69	D	50	Water flows into small collector sump and is pumped to points of use.
15S/5W-34aaas	Larry Mikkelsen	450	do.	Flows from soil and rubble in ravine	5	5-20-69	D	50	
15S/6W-25bdas	Harold Pfeiffer	675	do.	Flows from soil mantle on hillside	8-10	5-13-69	D	--	Water collected in concrete cistern, from which it is pumped to points of use. The overflow runs into natural surface channels through a pipe at the top of the cistern.
15S/6W-36dbbs	Lane McFadden	500+	do.	do.	3	5-14-69	S	120	Water collected in a 6- by 6- by 12-foot concrete reservoir. Flows by gravity through pipeline to points of use.
16S/3W-3aabs	James Witzig	460	Weathered sandstone	do.	2	4-25-69	S	120	Water is drawn from 3/4-inch-diameter pipe driven into hillside and flows into 3-ft-square concrete reservoir. From bottom of reservoir a 1-inch-diameter pipe extends beneath road to stock tank downslope.
16S/3W-35dccs	R. O. Davis	970	Dacitic and andesitic tuff	Flows from volcanic rubble in canyon	4-5	5- 9-69	D	280	Water collected in concrete storage tank flows by gravity to points of use. Flow diminishes during late summer.
16S/6W-13cbcs	Willard Powell	750	Sandstone	Flows from soil mantle on hillside	4-5	5-22-69	D	--	
17S/2W-9bcbs	C. L. Howard	560	Andesite	Flows from volcanic rubble on hillside	5	7-23-68	D	--	Water is piped from spring to 500-gallon-capacity storage tank. At bottom of tank is a 1-inch-diameter pipeline through which water flows by gravity to points of use. Water supply is adequate for domestic use throughout the year.

1/ Field determination, in micromhos at 25°C.

Table 4.--Chemical analyses of water in the Eugene-Springfield area

[Analyses by the U.S. Geological Survey, Portland, Oreg., unless otherwise noted]

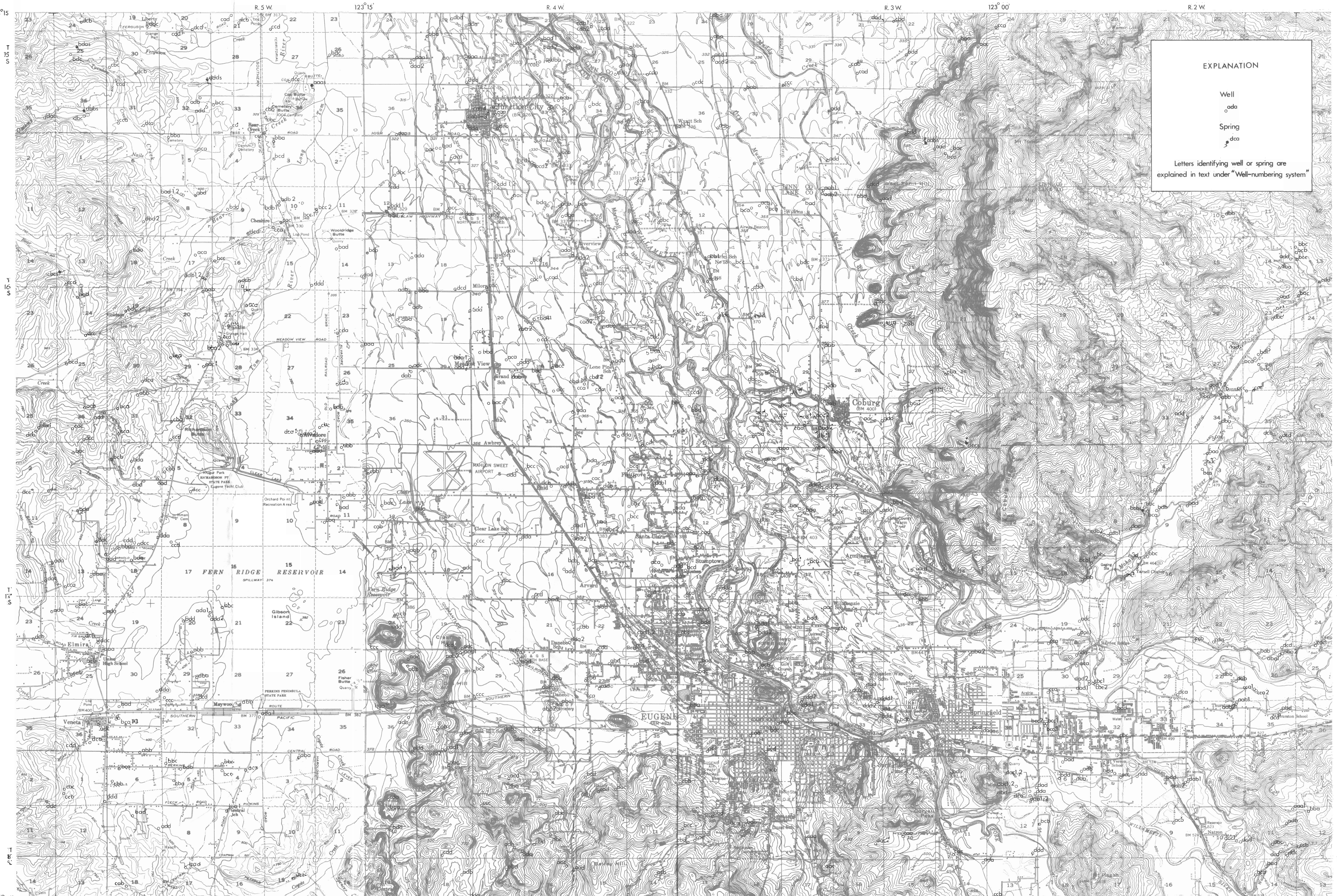
Well number	Water-bearing material	Date of collection	Temperature (°C)	Temperature (°F)	Milligrams per liter																				Specific conductance (micromhos at 25°C)	pH
																					Dissolved solids		Hardness			
					Silica (SiO_2)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Aluminum (Al)	Arsenic (As)	Calculated	Residue on evaporation at 180°C	As $CaCO_3$	Noncarbonate		
a/ 15S/4W-32cab4	Sand and gravel	8-27-68	--	--	25.5	0.10	--	35.3	10.2	64	2.0	105	0	0.0	114	0.12	0.01	--	0.1	--	--	382	130	--	--	8.0
16S/2W-23abd	Lava rock	8- 2-69	13	55	41	.08	--	13	4.2	38	.8	161	0	.2	1.0	.2	.0	--	--	0.00	177	177	50	0	231	8.2
16S/2W-33add	do.	6-13-69	14	57	29	.00	--	4.2	.1	50	.4	124	8	1.2	4.0	.1	.1	0.29	--	.05	158	147	10	0	225	8.6
16S/2W-34cdc	Sand and gravel	8-20-69	13	55	43	.03	--	13	3.2	7.4	.4	73	0	.0	1.5	.1	.0	--	--	--	105	107	46	0	120	8.0
16S/3W-9aad	Shale	8-13-69	13	55	31	.02	--	4.8	.5	87	.2	147	16	9.2	33	.5	.0	--	--	.00	254	264	14	0	373	8.9
b/ 16S/4W-25ccd	Sand and gravel	7- -69	16	60	21.9	.12	0.15	--	--	--	--	--	--	2.5	--	.25	--	--	--	--	33	--	30	--	--	7.2
16S/4W-27cbd2	do.	9-25-69	13	55	--	--	--	24	13	--	--	99	0	--	--	--	26	--	--	--	--	--	114	32	265	7.5
b/ 16S/4W-36bbc	do.	7- -69	14	57	22.9	.10	.17	--	--	--	--	--	--	4.5	--	.22	--	--	--	--	--	24	20	--	--	7.0
b/ 16S/4W-36bbd	do.	7- -69	13	55	--	.09	.2	--	--	--	--	--	--	2.0	--	.13	--	--	--	--	--	162	20	--	--	6.8
16S/5W-10bdb2	--	9-23-69	14	57	--	--	--	154	15	--	--	117	0	--	388	--	1.2	--	--	--	--	--	446	350	1,400	7.6
16S/6W-36add	Claystone and sandstone	9-24-69	--	--	--	--	--	.9	.5	--	--	10	0	--	--	--	.0	--	--	--	--	--	4	0	27	6.7
16S/6W-36cac	Sandstone	9-23-69	11	52	--	--	--	17	3	--	--	68	0	--	--	--	.0	--	--	--	--	--	55	0	125	7.1
b/ 17S/2W-26cca2	Gravel and sand	3- -69	--	--	9.5	0	0	--	--	--	--	--	--	--	--	--	--	--	--	.00	--	148	20	--	--	7.1
a/ 17S/2W-31bcc1	do.	2- -68	--	--	42	.22	<0.02	19	13.8	10	2.3	122	0	1.8	8.4	.22	.05	--	.15	--	--	171	104	--	--	7.2
17S/3W-5aaa	Sand and gravel	8-13-69	12	53	25	.65	--	11	4.6	11	1.0	73	0	5.2	1.5	.1	3.8	--	--	--	100	105	46	0	142	8.1
17S/4W-13ccd	do.	6-18-69	13	55	39	--	--	23	13	9.4	1.3	99	0	21	8.5	.1	22	--	--	.00	186	193	111	30	264	7.5
17S/5W-36adb	Shale	8-15-69	15	59	14	.06	--	6.4	.8	68	.5	142	4	12	24	.4	.0	--	--	.00	200	202	20	0	313	8.6
17S/6W-12ddc	Sandstone	6-12-69	13	55	35	.24	--	112	3.1	78	.5	150	0	.2	235	.2	.2	--	--	.00	538	536	292	170	979	7.4
17S/6W-24ddc	do.	6-12-69	14	57	27	.11	--	82	3.9	162	1.1	100	0	2.0	345	.0	1.2	--	--	.00	673	677	218	136	1,250	7.3
18S/2W-11dbc	do.	6-26-69	17	62	21	.15	--	4.1	.0	158	.1	28	16	15	187	3.3	12	--	--	.00	431	440	10	0	769	8.9
18S/4W-3cad	do.	3-27-63	14	57	25	.16	.0	12	5.0	136	1.6	281	0	67	36	.4	.8	1.3	.1	.09	424	--	50	0	672	8.1
18S/4W-7cdd	Claystone	6-12-69	14	57	17	.00	--	1.7	.0	66	.1	62	26	9.0	29	.1	.1	1.01	--	.00	181	168	4	0	293	9.3
18S/4W-14acb	Sandstone	6-12-69	13	55	17	.04	--	1.3	.0	215	1.0	379	53	11	43	.2	.3	1.64	--	.50	519	521	4	0	885	9.2

a/ Analysis by Charlton Laboratories.
b/ Analysis by Cornell, Howland, Hayes & Merryfield.

OREGON STATE ENGINEER
GROUND-WATER REPORT NO. 14

PREPARED IN COOPERATION WITH THE
UNITED STATES GEOLOGICAL SURVEY

PLATE 1



Base from U.S. Geological Survey 15-minute topographic quadrangles: Elmira, 1957; Eugene, 1946; Marcola, 1950

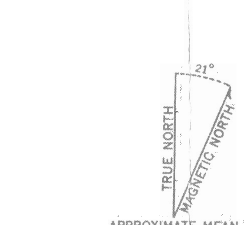
SCALE 1:62500

1 ½ 0 1 2 3 4 MILES

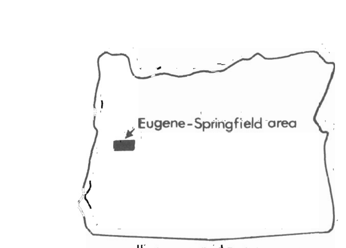
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

MAP OF THE EUGENE-SPRINGFIELD AREA, OREGON, SHOWING THE LOCATIONS OF REPRESENTATIVE WELLS AND SPRINGS



APPROXIMATE MEAN DECLINATION, 1946



INDEX MAP OF OREGON